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MEASURED DATA OF DELAYED GAMMA-RAY SPECTRA  
FROM FISSIONS OF  $^{232}\text{Th}$ ,  $^{233}\text{U}$ ,  $^{235}\text{U}$ ,  $^{238}\text{U}$  AND  $^{239}\text{Pu}$   
BY FAST NEUTRONS; TABULAR DATA

December 1988

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Measured gamma-ray spectrum data are presented in tabular form for fissions of  $^{232}\text{Th}$ ,  $^{233}\text{U}$ ,  $^{235}\text{U}$ ,  $^{238}\text{U}$  and  $^{239}\text{Pu}$  by fast neutrons. The spectral data are useful for validating the reliability of nuclear data used for summation calculation. The measurements were performed at YAYOI reactor of the University of Tokyo. The data were obtained by a NaI(Tl) detector. The raw data were unfolded to provide spectral distributions. The distributions are presented in tabular form for energy range from 100 keV to 5 MeV. The data are represented in a unit of photons/fission/sec/MeV.

Keywords : Measured Gamma-Ray Spectrum, Fast Neutron, Tabular Form,  
Summation Calculation

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高速中性子による  $^{232}\text{Th}$ ,  $^{233}\text{U}$ ,  $^{235}\text{U}$ ,  $^{238}\text{U}$   
及び  $^{239}\text{Pu}$  の核分裂から発生する遅発ガンマ線  
スペクトルの測定データ：表型式のデータ

日本原子力研究所東海研究所物理部

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(1988年11月21日受理)

高速中性子による  $^{232}\text{Th}$ ,  $^{233}\text{U}$ ,  $^{235}\text{U}$ ,  $^{238}\text{U}$  及び  $^{239}\text{Pu}$  の核分裂で発生する遅発ガンマ線スペクトルの測定データを表型式で表示した。スペクトルデータは、総和計算に使用される核データの信頼性を評価するのに有効である。測定は、東京大学の弥生炉で実施された。データは、NaI (Tl) 検出器で得られた。生データは、スペクトル分布を得るために、アンホールディングされた。スペクトル分布は 100 keV から 5 MeV のエネルギー範囲で表型式で表示した。表示したデータの単位は photons/fission/sec/MeV である。



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## 1. Introduction

Delayed gamma ray spectra from fissions of  $^{232}\text{Th}$ ,  $^{233}\text{U}$ ,  $^{235}\text{U}$ ,  $^{238}\text{U}$  and  $^{239}\text{Pu}$  by fast neutrons were measured in order to obtain the gamma components of decay heat from fission product nuclides. The decay heat was obtained by energy integration of the spectrum. The results for the decay heat have been already reported<sup>1-4)</sup> and have been used for the data of benchmark tests of calculation codes and their data libraries by summation method. In the calculation of summation method, the contributions of individual nuclide are simply summed up. The correctness of the calculated results depends on the reliability of nuclear data of each nuclide. The decay heat, however, is an integral value and the characteristic of each nuclide is smeared out. In order to validate the reliability, the spectral comparison is more effective than the decay heat comparison. Therefore, the spectral data of gamma rays are provided in this report.

In the present report, the measured gamma-ray spectral data are presented in a tabular form. The data are specified by several irradiation times, waiting times after the irradiation to counting and counting times.

## 2. Experimental Method

Experiments were performed at YAYOI reactor of the University of Tokyo. Samples of fissionable material were irradiated by using pneumatic tube set in Grating hole of the reactor. The samples of  $^{233}\text{U}$ ,  $^{235}\text{U}$  and  $^{239}\text{Pu}$  were electrically deposited on titanium foils which were covered by miler film in order to prevent the fissionable material from dispersing and/or leaking out. The samples of  $^{238}\text{U}$  and  $^{232}\text{Th}$  were thin metallic foil. These samples were mounted on the head of polyethylene capsule. The isotopic compositions of the irradiation samples are listed in Table 1 for  $^{233}\text{U}$ ,  $^{235}\text{U}$  and  $^{239}\text{Pu}$ . For the cases of  $^{238}\text{U}$  and  $^{232}\text{Th}$ , the purities were 99.95 % and 99.96 %, respectively.

The samples were transferred to the irradiation position in the reactor room through pneumatic tube. The length of the tube is about 20 m. It takes about 1 sec for the transfer. The irradiated samples were further transferred to the detector position through the same tube. The time required for the returning is about 3 sec. The transfer of the capsule and the irradiation are electrically controlled. The schematic diagram of the apparatus is shown in Fig. 1.

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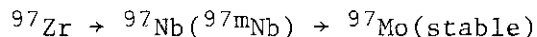
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The gamma-ray spectra were measured by  $3 \phi \times 3 \text{ L NaI(Tl)}$  detector. The front face of the detector is covered by 3 cm thick polyethylene plate in order to prevent beta rays from being detected. The gamma-ray spectra were analyzed by a pulse height analyzer with 1024 channels. The gain was set to be able to detect the gamma rays of the energy from 102 keV to 5 MeV. The gamma rays of the energy below 102 keV were discriminated. The irradiation times were taken to be 10 to 100 sec. The irradiation and counting periods are schematically shown in Fig. 2. The measured gamma-ray spectra were unfolded by a program FERDOR<sup>5)</sup> with a slight modification. The energy group structure and the detector resolution of each energy group are listed in Table 2.

The number of fissions for the normalization were determined from the measurements of the gamma-rays emitted through the decay of  $^{97\text{m}}\text{Nb}$  and  $^{97}\text{Nb}$  nuclides which are daughter nuclei of  $^{97}\text{Zr}$ . In a decay chain of mass number 97, the preceding nuclides of the  $^{97}\text{Zr}$  have rather short half-life comparing with that of  $^{97}\text{Zr}$ . And the independent fission yields of  $^{97\text{m}}\text{Nb}$  and  $^{97}\text{Nb}$  are negligible comparing with the cumulative yield of  $^{97}\text{Zr}$ . In this case, the decay chain is simplified as follows.



The numbers of fissions can be easily obtained from this simplified decay chain. The numbers of fissions for measured samples are listed in Table 3.

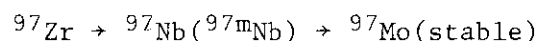
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The measured gamma-ray spectra are represented in a unit of photons/fission/sec/MeV. The data are listed in tabular form starting from page 11. In the tables, the energy is presented as an average energy in each group in MeV. The spectrum data are expressed by the central value and their upper and lower limits in each energy group.

In the case of  $^{232}\text{Th}$  and  $^{238}\text{U}$ , the contributions from the nuclides produced by neutron capture are not excluded. The cross sections of these nuclides for the capture reaction are not negligible comparing with those of fission reaction. The reaction rate ratios of the capture to fission ( $R_c/R_f$ ) were estimated to be  $23.0 \pm 1.050$  and  $5.38 \pm 0.26$  for  $^{232}\text{Th}$  and  $^{238}\text{U}$ , respectively. The correction of the capture effect will be needed for the comparison of the calculated results by summation

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method with these data.

For  $^{233}\text{U}$ ,  $^{235}\text{U}$  and  $^{239}\text{Pu}$ , the contamination from the neutron capture reaction were not observed. These data will be directly compared with the calculated results by the summation method.

#### 4. Summary

The delayed gamma-ray spectra from fissions of  $^{232}\text{Th}$ ,  $^{233}\text{U}$ ,  $^{235}\text{U}$ ,  $^{238}\text{U}$  and  $^{239}\text{Pu}$  are listed in tabular form for the data of benchmark tests of the summation method. By comparing the measured spectra with the calculated results by the summation method, the nuclear data used in the calculation will be validated more effectively than the decay heat comparison.

#### Acknowledgements

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Table 1 Isotopic Analysis of  $^{233}\text{U}$ ,  $^{235}\text{U}$  and  $^{239}\text{Pu}$  Samples

Isotope	Sample		
	$^{233}\text{U}$	$^{235}\text{U}$	$^{239}\text{Pu}$
$^{233}\text{U}$	99.44 (%)	(%)	(%)
$^{234}\text{U}$	0.52	1.168	
$^{235}\text{U}$	0.016	97.652	
$^{236}\text{U}$		0.170	
$^{238}\text{U}$	0.018	1.005	
$^{239}\text{Pu}$			99.107
$^{240}\text{Pu}$			0.877
$^{241}\text{Pu}$			0.011
$^{242}\text{Pu}$			0.005
$^{244}\text{Pu}$			<0.0005

Table 2 Energy Group Structure and Detector Resolution

No.	Energy Range (MeV)	$\Delta E/E$ (%)	No.	Energy Range (MeV)	$\Delta E/E$ (%)
1	0.102 - 0.108	17.7	50	1.420 - 1.470	7.6
2	0.108 - 0.114	17.3	51	1.470 - 1.520	7.5
3	0.114 - 0.120	16.9	52	1.520 - 1.570	7.4
4	0.120 - 0.130	16.4	53	1.570 - 1.620	7.3
5	0.130 - 0.140	15.8	54	1.620 - 1.670	7.2
6	0.140 - 0.150	15.4	55	1.670 - 1.720	7.1
7	0.150 - 0.160	15.0	56	1.720 - 1.770	7.0
8	0.160 - 0.170	14.7	57	1.770 - 1.830	6.9
9	0.170 - 0.180	14.4	58	1.830 - 1.890	6.8
10	0.180 - 0.190	14.1	59	1.890 - 1.950	6.7
11	0.190 - 0.210	13.7	60	1.950 - 2.010	6.7
12	0.210 - 0.230	13.3	61	2.010 - 2.070	6.6
13	0.230 - 0.250	13.0	62	2.070 - 2.130	6.5
14	0.250 - 0.270	12.7	63	2.130 - 2.190	6.4
15	0.270 - 0.290	12.4	64	2.190 - 2.250	6.4
16	0.290 - 0.310	12.2	65	2.250 - 2.310	6.3
17	0.310 - 0.330	12.0	66	2.310 - 2.370	6.3
18	0.330 - 0.350	11.8	67	2.370 - 2.440	6.2
19	0.350 - 0.370	11.6	68	2.440 - 2.510	6.2
20	0.370 - 0.390	11.5	69	2.510 - 2.580	6.1
21	0.390 - 0.410	11.3	70	2.580 - 2.650	6.1
22	0.410 - 0.430	11.2	71	2.650 - 2.720	6.0
23	0.430 - 0.460	11.0	72	2.720 - 2.790	6.0
24	0.460 - 0.490	10.8	73	2.790 - 2.860	6.0
25	0.490 - 0.520	10.6	74	2.860 - 2.930	5.9
26	0.520 - 0.550	10.5	75	2.930 - 3.000	5.9
27	0.550 - 0.580	10.3	76	3.000 - 3.070	5.9
28	0.580 - 0.610	10.2	77	3.070 - 3.150	5.9
29	0.610 - 0.640	10.0	78	3.150 - 3.230	5.8
30	0.640 - 0.670	9.9	79	3.230 - 3.310	5.8
31	0.670 - 0.700	9.8	80	3.310 - 3.390	5.8
32	0.700 - 0.730	9.7	81	3.390 - 3.470	5.8
33	0.730 - 0.760	9.6	82	3.470 - 3.550	5.8
34	0.760 - 0.790	9.5	83	3.550 - 3.630	5.8
35	0.790 - 0.830	9.3	84	3.630 - 3.710	5.8
36	0.830 - 0.870	9.2	85	3.710 - 3.790	5.9
37	0.870 - 0.910	9.0	86	3.790 - 3.870	5.9
38	0.910 - 0.950	8.9	87	3.870 - 3.960	5.9
39	0.950 - 0.990	8.8	88	3.960 - 4.050	5.9
40	0.990 - 1.030	8.7	89	4.050 - 4.140	6.0
41	1.030 - 1.070	8.5	90	4.140 - 4.230	6.0
42	1.070 - 1.110	8.4	91	4.230 - 4.320	6.0
43	1.110 - 1.150	8.3	92	4.320 - 4.410	6.1
44	1.150 - 1.190	8.2	93	4.410 - 4.500	6.1
45	1.190 - 1.230	8.1	94	4.500 - 4.600	6.2
46	1.230 - 1.270	8.0	95	4.600 - 4.700	6.3
47	1.270 - 1.320	7.9	96	4.700 - 4.800	6.4
48	1.320 - 1.370	7.8	97	4.800 - 4.900	6.5
49	1.370 - 1.420	7.7	98	4.900 - 5.000	6.6

Table 3 (1) Determination of Number of Fissions for  
Gamma-ray Decay Heat

(1) $^{235}\text{U}$				
Sample no.	U5-16	U5-1	U5-13	U5-19
Irradiation time (s)	10	10	100	100
$^{97\text{m}}\text{Nb}$	$1.715 \pm 0.050^a$	$1.956 \pm 0.072^a$	$1.395 \pm 0.033^b$	$1.392 \pm 0.033^b$
$^{97}\text{Nb}$	$1.719 \pm 0.058$	$1.884 \pm 0.081$	$1.389 \pm 0.035$	$1.381 \pm 0.035$
Average number of fissions	$1.717 \pm 0.054$	$1.920 \pm 0.077$	$1.392 \pm 0.034$	$1.387 \pm 0.034$
(2) $^{239}\text{Pu}$				
Sample no.	PU-4	PU-7	PU-9	
Irradiation time (s)	10	10	100	
$^{97\text{m}}\text{Nb}$	$1.847 \pm 0.061^a$	$2.528 \pm 0.083^a$	$1.664 \pm 0.045^b$	
$^{97}\text{Nb}$	$1.873 \pm 0.069$	$2.533 \pm 0.096$	$1.692 \pm 0.050$	
Average number of fissions	$1.860 \pm 0.065$	$2.531 \pm 0.090$	$1.678 \pm 0.048$	
(3) $^{233}\text{U}$				
Sample no.	U3-9	U3-18	U3-8	
Irradiation time (s)	10	10	100	
$^{97\text{m}}\text{Nb}$	$2.488 \pm 0.136^a$	$3.698 \pm 0.200^a$	$2.826 \pm 0.130^b$	
$^{97}\text{Nb}$	$2.466 \pm 0.155$	$3.581 \pm 0.224$	$2.737 \pm 0.147$	
Average number of fissions	$2.477 \pm 0.146$	$3.639 \pm 0.213$	$2.781 \pm 0.139$	

a. Multiply by  $10^7$  to get the number of fissions

b. Multiply by  $10^8$  to get the number of fissions

Table 3 (2) Determination of Number of Fissions for  
Gamma-ray Decay Heat

(4)  $^{238}\text{U}$

Sample no.	U8-B	U8-C	U8-D
Irradiation time (s)	10	10	100
$^{97\text{m}}\text{Nb}$	$1.162 \pm 0.044^b$	$8.099 \pm 0.331^a$	$9.218 \pm 0.280^b$
$^{97}\text{Nb}$	$1.187 \pm 0.042$	$7.669 \pm 0.256$	$9.155 \pm 0.249$
Average number of fissions	$1.174 \pm 0.043$	$7.884 \pm 0.296$	$9.187 \pm 0.269$

(5)  $^{232}\text{Th}$

Sample no.	Th-A	Th-D	Th-X
Irradiation time (s)	10	10	100
$^{97\text{m}}\text{Nb}$	$6.194 \pm 0.390^a$	$7.003 \pm 0.424^a$	$4.856 \pm 0.170^b$
$^{97}\text{Nb}$	$6.103 \pm 0.329$	$6.784 \pm 0.335$	$4.830 \pm 0.159$
Average number of fission	$6.149 \pm 0.361$	$6.893 \pm 0.381$	$4.843 \pm 0.165$

a. Multiply by  $10^6$  to get the number of fissions

b. Multiply by  $10^7$  to get the number of fissions

c. Multiply by  $10^8$  to get the number of fissions

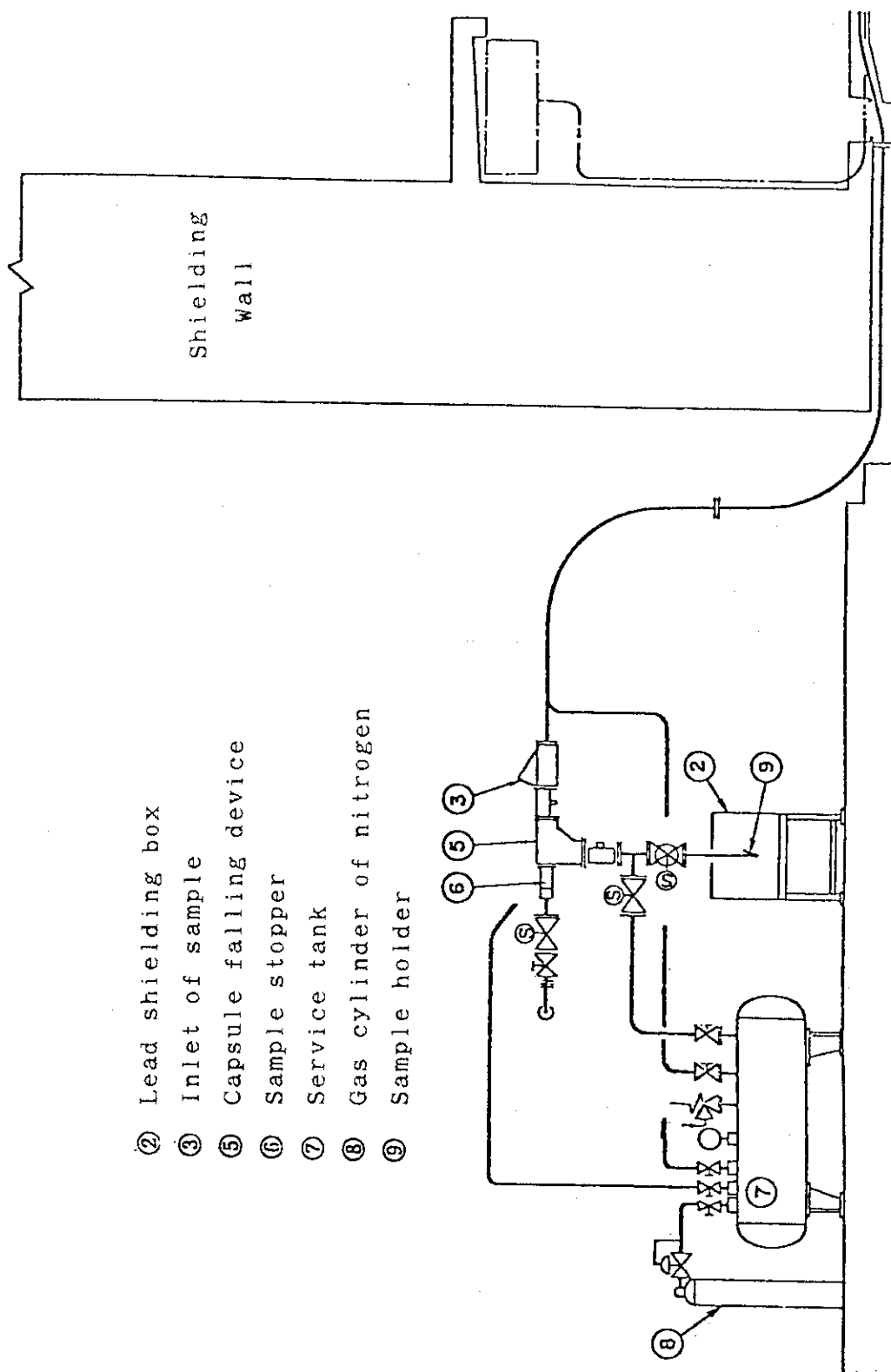


Fig. 1 (1) Schematic view of irradiation apparatus  
 (Measurement room)

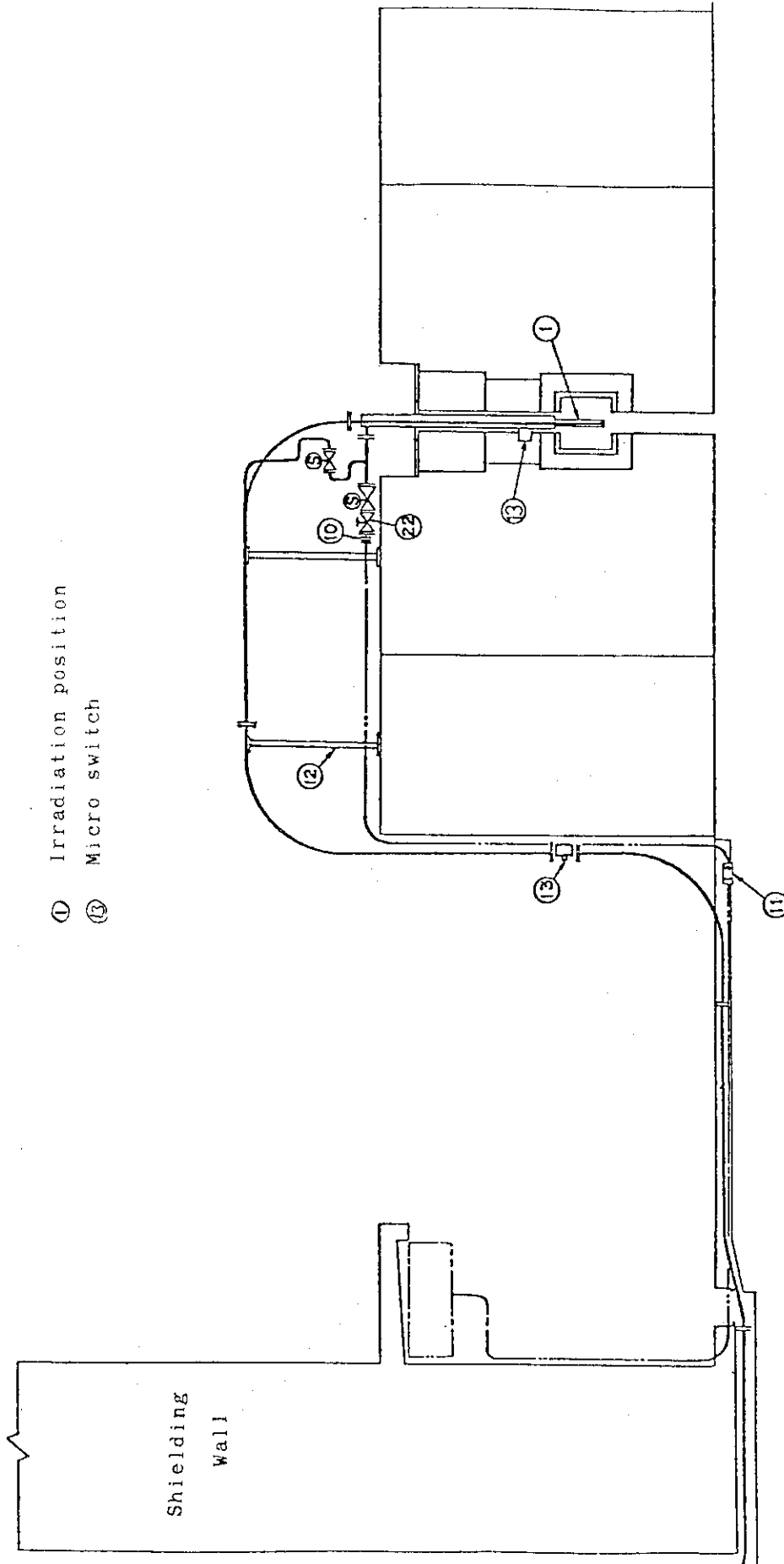


Fig. 1 (2) Schematic view of irradiation apparatus (Reactor room)

# COUNTING PERIOD

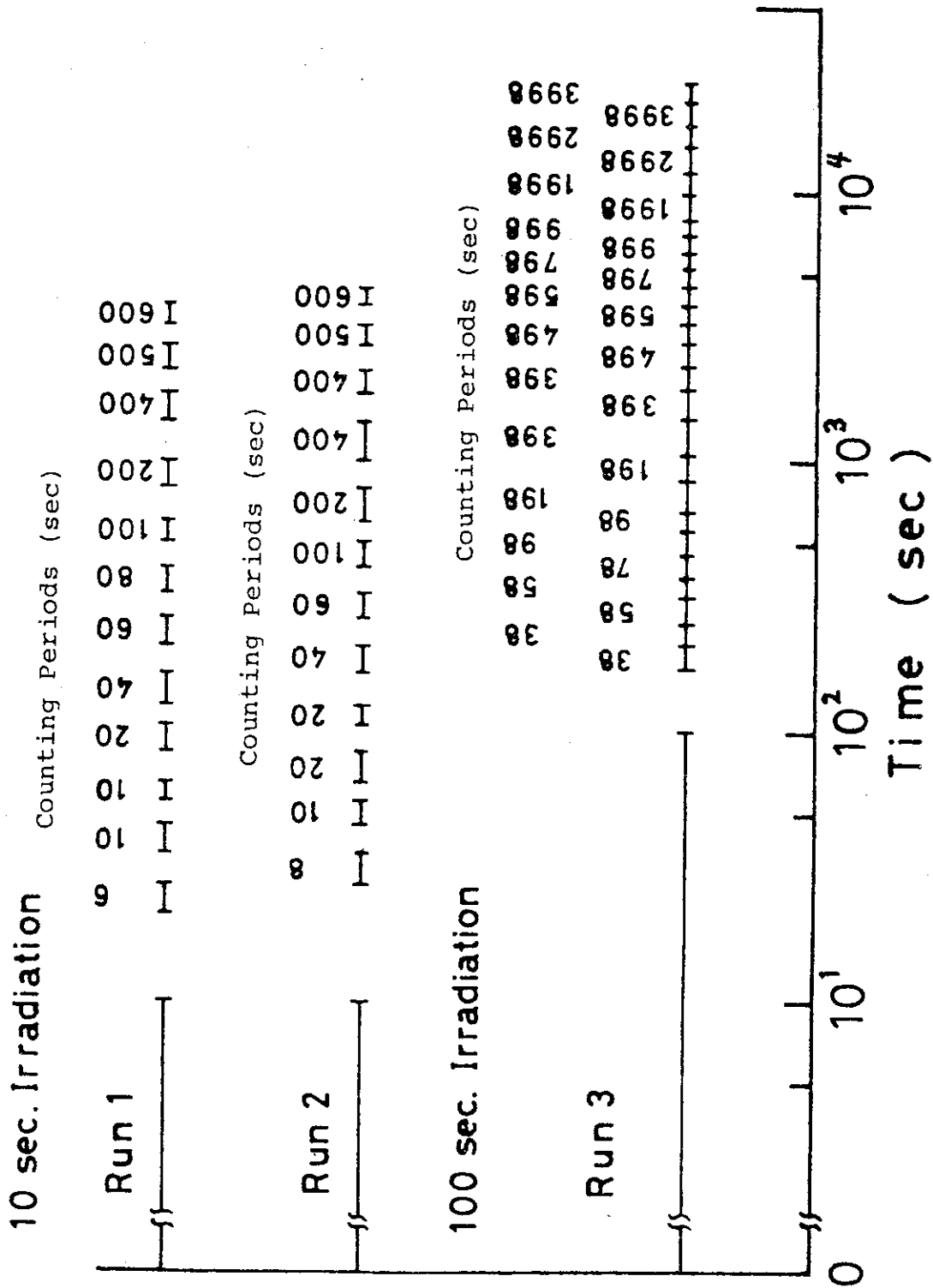


Fig. 2 Schematic view of sample irradiations and counting periods



## Measured Spectra

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 11 SEC

COUNTING TIME : 6 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	6.429E-02	2.257E-01	1.450E-01	50 1.445	1.808E-02	2.335E-02	2.072E-02
2 0.111	5.890E-02	2.517E-01	1.553E-01	51 1.495	1.372E-02	1.860E-02	1.616E-02
3 0.117	8.621E-03	2.309E-01	1.197E-01	52 1.545	1.273E-02	1.742E-02	1.507E-02
4 0.125	6.773E-03	1.291E-01	6.792E-02	53 1.595	8.134E-03	1.274E-02	1.043E-02
5 0.135	1.207E-02	8.313E-02	4.760E-02	54 1.645	4.866E-03	9.121E-03	6.993E-03
6 0.145	-1.293E-02	1.038E-01	4.542E-02	55 1.695	4.725E-03	9.180E-03	6.953E-03
7 0.155	1.391E-02	6.600E-02	3.996E-02	56 1.745	5.861E-03	1.043E-02	8.144E-03
8 0.165	2.386E-02	5.467E-02	3.927E-02	57 1.800	7.278E-03	1.204E-02	9.657E-03
9 0.175	1.608E-02	6.396E-02	4.002E-02	58 1.860	7.129E-03	1.201E-02	9.570E-03
10 0.185	2.965E-02	5.110E-02	4.038E-02	59 1.920	4.547E-03	9.288E-03	6.918E-03
11 0.200	4.047E-02	5.398E-02	4.723E-02	60 1.980	5.546E-03	1.002E-02	7.783E-03
12 0.220	4.737E-02	6.101E-02	5.419E-02	61 2.040	2.557E-03	6.932E-03	4.744E-03
13 0.240	4.394E-02	5.518E-02	4.956E-02	62 2.100	5.502E-03	1.013E-02	7.818E-03
14 0.260	3.852E-02	4.789E-02	4.321E-02	63 2.160	5.892E-03	1.065E-02	8.270E-03
15 0.280	3.274E-02	4.110E-02	3.692E-02	64 2.220	3.302E-03	7.603E-03	5.452E-03
16 0.300	2.717E-02	3.488E-02	3.103E-02	65 2.280	3.474E-03	8.103E-03	5.788E-03
17 0.320	2.643E-02	3.404E-02	3.024E-02	66 2.340	2.143E-03	6.549E-03	4.346E-03
18 0.340	2.745E-02	3.511E-02	3.128E-02	67 2.405	4.002E-03	8.858E-03	6.430E-03
19 0.360	2.912E-02	3.705E-02	3.309E-02	68 2.475	3.567E-03	8.002E-03	5.784E-03
20 0.380	3.207E-02	4.004E-02	3.605E-02	69 2.545	3.437E-03	7.980E-03	5.708E-03
21 0.400	3.595E-02	4.420E-02	4.007E-02	70 2.615	4.199E-03	8.583E-03	6.391E-03
22 0.420	3.455E-02	4.230E-02	3.843E-02	71 2.685	4.237E-03	8.666E-03	6.451E-03
23 0.445	3.071E-02	3.806E-02	3.439E-02	72 2.755	5.461E-03	9.835E-03	7.648E-03
24 0.475	2.348E-02	3.056E-02	2.702E-02	73 2.825	4.002E-03	8.307E-03	6.154E-03
25 0.505	3.491E-02	4.224E-02	3.858E-02	74 2.895	1.281E-03	5.372E-03	3.327E-03
26 0.535	4.454E-02	5.195E-02	4.824E-02	75 2.965	-3.909E-04	3.521E-03	1.565E-03
27 0.565	3.555E-02	4.266E-02	3.911E-02	76 3.035	-1.076E-03	2.944E-03	9.339E-04
28 0.595	4.385E-02	5.089E-02	4.737E-02	77 3.110	-1.912E-03	1.599E-03	-1.563E-04
29 0.625	2.954E-02	3.605E-02	3.279E-02	78 3.190	-9.145E-04	3.080E-03	1.083E-03
30 0.655	2.520E-02	3.130E-02	2.825E-02	79 3.270	-1.267E-03	2.421E-03	5.767E-04
31 0.685	2.324E-02	2.924E-02	2.624E-02	80 3.350	-2.033E-03	1.392E-03	-3.204E-04
32 0.715	2.072E-02	2.661E-02	2.367E-02	81 3.430	-6.028E-04	2.697E-03	1.047E-03
33 0.745	2.056E-02	2.669E-02	2.362E-02	82 3.510	6.428E-04	3.953E-03	2.298E-03
34 0.775	3.055E-02	3.694E-02	3.374E-02	83 3.590	1.533E-03	4.508E-03	3.020E-03
35 0.810	3.052E-02	3.685E-02	3.368E-02	84 3.670	1.119E-03	3.941E-03	2.530E-03
36 0.850	2.130E-02	2.718E-02	2.424E-02	85 3.750	4.545E-04	3.118E-03	1.786E-03
37 0.890	1.509E-02	2.071E-02	1.790E-02	86 3.830	3.431E-04	3.066E-03	1.705E-03
38 0.930	1.497E-02	2.072E-02	1.785E-02	87 3.915	1.965E-05	2.701E-03	1.360E-03
39 0.970	1.600E-02	2.163E-02	1.882E-02	88 4.005	4.252E-04	2.773E-03	1.599E-03
40 1.010	1.566E-02	2.169E-02	1.868E-02	89 4.095	1.260E-03	3.676E-03	2.468E-03
41 1.050	1.795E-02	2.374E-02	2.084E-02	90 4.185	9.626E-04	3.305E-03	2.134E-03
42 1.090	2.030E-02	2.603E-02	2.317E-02	91 4.275	7.461E-04	3.066E-03	1.906E-03
43 1.130	2.144E-02	2.691E-02	2.417E-02	92 4.365	6.921E-05	2.417E-03	1.243E-03
44 1.170	1.773E-02	2.268E-02	2.020E-02	93 4.455	-1.957E-03	3.012E-04	-8.281E-04
45 1.210	1.226E-02	1.681E-02	1.454E-02	94 4.550	-3.300E-03	-1.224E-03	-2.262E-03
46 1.250	1.099E-02	1.729E-02	1.414E-02	95 4.650	-2.475E-03	-5.314E-04	-1.503E-03
47 1.295	1.471E-02	1.921E-02	1.696E-02	96 4.750	-5.253E-04	1.153E-03	3.139E-04
48 1.345	1.592E-02	2.092E-02	1.842E-02	97 4.850	1.325E-03	2.634E-03	1.979E-03
49 1.395	1.156E-02	1.653E-02	1.404E-02	98 4.950	2.096E-03	3.029E-03	2.562E-03

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 25 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.632E-02	1.245E-01	8.039E-02	50	1.445	1.195E-02	1.504E-02	1.349E-02
2	0.111	3.187E-02	1.373E-01	8.457E-02	51	1.495	6.981E-03	9.676E-03	8.329E-03
3	0.117	3.321E-03	1.244E-01	6.388E-02	52	1.545	6.577E-03	9.309E-03	7.943E-03
4	0.125	2.347E-03	6.904E-02	3.569E-02	53	1.595	6.742E-03	9.484E-03	8.113E-03
5	0.135	4.968E-03	4.418E-02	2.457E-02	54	1.645	5.457E-03	7.994E-03	6.725E-03
6	0.145	-8.704E-03	5.563E-02	2.346E-02	55	1.695	2.827E-03	5.266E-03	4.047E-03
7	0.155	9.444E-03	3.821E-02	2.383E-02	56	1.745	2.554E-03	5.086E-03	3.820E-03
8	0.165	1.543E-02	3.285E-02	2.414E-02	57	1.800	3.245E-03	5.776E-03	4.511E-03
9	0.175	1.019E-02	3.712E-02	2.366E-02	58	1.860	1.733E-03	4.355E-03	3.044E-03
10	0.185	1.911E-02	3.121E-02	2.516E-02	59	1.920	1.841E-03	4.476E-03	3.159E-03
11	0.200	2.396E-02	3.157E-02	2.776E-02	60	1.980	2.638E-03	5.149E-03	3.894E-03
12	0.220	2.880E-02	3.640E-02	3.260E-02	61	2.040	2.835E-03	5.426E-03	4.131E-03
13	0.240	2.057E-02	2.669E-02	2.363E-02	62	2.100	1.832E-03	4.361E-03	3.096E-03
14	0.260	1.667E-02	2.179E-02	1.923E-02	63	2.160	2.984E-03	5.651E-03	4.318E-03
15	0.280	1.738E-02	2.208E-02	1.973E-02	64	2.220	2.848E-03	5.284E-03	4.066E-03
16	0.300	1.504E-02	1.944E-02	1.724E-02	65	2.280	2.462E-03	4.969E-03	3.716E-03
17	0.320	1.536E-02	1.975E-02	1.756E-02	66	2.340	2.463E-03	5.049E-03	3.756E-03
18	0.340	1.844E-02	2.296E-02	2.070E-02	67	2.405	1.573E-03	4.241E-03	2.907E-03
19	0.360	1.944E-02	2.415E-02	2.180E-02	68	2.475	4.221E-04	2.955E-03	1.689E-03
20	0.380	2.226E-02	2.700E-02	2.463E-02	69	2.545	2.520E-03	5.094E-03	3.807E-03
21	0.400	2.423E-02	2.907E-02	2.665E-02	70	2.615	2.584E-03	4.998E-03	3.791E-03
22	0.420	2.140E-02	2.585E-02	2.363E-02	71	2.685	3.140E-03	5.733E-03	4.437E-03
23	0.445	1.677E-02	2.090E-02	1.883E-02	72	2.755	1.053E-03	3.485E-03	2.269E-03
24	0.475	1.200E-02	1.595E-02	1.398E-02	73	2.825	-4.884E-04	1.894E-03	7.028E-04
25	0.505	1.731E-02	2.138E-02	1.934E-02	74	2.895	6.142E-04	3.215E-03	1.914E-03
26	0.535	1.989E-02	2.394E-02	2.191E-02	75	2.965	8.932E-04	3.359E-03	2.126E-03
27	0.565	2.248E-02	2.657E-02	2.453E-02	76	3.035	4.331E-04	2.871E-03	1.652E-03
28	0.595	2.024E-02	2.411E-02	2.217E-02	77	3.110	-8.474E-04	1.360E-03	2.563E-04
29	0.625	1.516E-02	1.884E-02	1.700E-02	78	3.190	-2.136E-03	2.580E-04	-9.392E-04
30	0.655	1.347E-02	1.695E-02	1.521E-02	79	3.270	-2.203E-03	1.088E-04	-1.047E-03
31	0.685	1.280E-02	1.626E-02	1.453E-02	80	3.350	-3.945E-04	1.877E-03	7.412E-04
32	0.715	1.068E-02	1.402E-02	1.235E-02	81	3.430	5.396E-04	2.678E-03	1.609E-03
33	0.745	1.372E-02	1.727E-02	1.549E-02	82	3.510	5.077E-04	2.268E-03	1.388E-03
34	0.775	1.239E-02	1.581E-02	1.410E-02	83	3.590	4.274E-04	2.213E-03	1.320E-03
35	0.810	1.331E-02	1.681E-02	1.506E-02	84	3.670	2.318E-04	1.949E-03	1.090E-03
36	0.850	1.053E-02	1.390E-02	1.221E-02	85	3.750	5.360E-04	2.181E-03	1.358E-03
37	0.890	1.062E-02	1.397E-02	1.229E-02	86	3.830	3.183E-04	2.004E-03	1.161E-03
38	0.930	9.213E-03	1.259E-02	1.090E-02	87	3.915	-3.046E-04	1.207E-03	4.514E-04
39	0.970	1.022E-02	1.359E-02	1.190E-02	88	4.005	-4.992E-04	9.860E-04	2.434E-04
40	1.010	1.133E-02	1.484E-02	1.308E-02	89	4.095	4.153E-04	1.795E-03	1.105E-03
41	1.050	9.671E-03	1.300E-02	1.134E-02	90	4.185	1.096E-03	2.798E-03	1.947E-03
42	1.090	9.990E-03	1.318E-02	1.159E-02	91	4.275	6.661E-04	2.524E-03	1.595E-03
43	1.130	1.101E-02	1.415E-02	1.258E-02	92	4.365	-3.453E-04	1.427E-03	5.407E-04
44	1.170	9.499E-03	1.239E-02	1.094E-02	93	4.455	-1.452E-03	6.784E-05	-6.921E-04
45	1.210	8.304E-03	1.103E-02	9.666E-03	94	4.550	-2.412E-03	-7.238E-04	-1.568E-03
46	1.250	6.085E-03	9.742E-03	7.914E-03	95	4.650	-2.187E-03	-1.393E-04	-1.163E-03
47	1.295	9.417E-03	1.209E-02	1.075E-02	96	4.750	-6.941E-04	9.583E-04	1.321E-04
48	1.345	7.406E-03	1.027E-02	8.836E-03	97	4.850	7.958E-04	1.765E-03	1.280E-03
49	1.395	9.376E-03	1.237E-02	1.087E-02	98	4.950	1.267E-03	2.048E-03	1.657E-03

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 45 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.431E-02	8.242E-02	5.336E-02	50	1.445	8.306E-03	1.079E-02	9.550E-03
2	0.111	2.018E-02	8.946E-02	5.482E-02	51	1.495	5.935E-03	8.196E-03	7.066E-03
3	0.117	1.207E-03	8.054E-02	4.087E-02	52	1.545	4.399E-03	6.490E-03	5.445E-03
4	0.125	1.623E-03	4.543E-02	2.353E-02	53	1.595	3.698E-03	5.789E-03	4.743E-03
5	0.135	2.281E-03	2.768E-02	1.498E-02	54	1.645	2.825E-03	4.774E-03	3.800E-03
6	0.145	-9.917E-03	3.159E-02	1.084E-02	55	1.695	1.911E-03	3.789E-03	2.850E-03
7	0.155	2.548E-03	2.111E-02	1.183E-02	56	1.745	1.225E-03	3.124E-03	2.175E-03
8	0.165	6.937E-03	1.963E-02	1.328E-02	57	1.800	1.983E-03	4.131E-03	3.057E-03
9	0.175	3.641E-03	2.290E-02	1.327E-02	58	1.860	1.013E-03	2.943E-03	1.978E-03
10	0.185	1.191E-02	2.087E-02	1.639E-02	59	1.920	6.886E-04	2.743E-03	1.716E-03
11	0.200	1.541E-02	2.133E-02	1.837E-02	60	1.980	1.251E-03	3.129E-03	2.190E-03
12	0.220	1.648E-02	2.239E-02	1.943E-02	61	2.040	1.326E-03	3.261E-03	2.294E-03
13	0.240	1.218E-02	1.702E-02	1.460E-02	62	2.100	7.333E-04	2.650E-03	1.696E-03
14	0.260	9.570E-03	1.365E-02	1.161E-02	63	2.160	4.068E-04	2.284E-03	1.346E-03
15	0.280	1.009E-02	1.382E-02	1.195E-02	64	2.220	5.676E-04	2.492E-03	1.530E-03
16	0.300	9.061E-03	1.259E-02	1.083E-02	65	2.280	1.971E-03	4.095E-03	3.033E-03
17	0.320	1.036E-02	1.394E-02	1.215E-02	66	2.340	1.056E-03	3.020E-03	2.038E-03
18	0.340	1.281E-02	1.651E-02	1.466E-02	67	2.405	1.095E-03	3.228E-03	2.162E-03
19	0.360	1.175E-02	1.555E-02	1.365E-02	68	2.475	1.434E-03	3.366E-03	2.400E-03
20	0.380	1.461E-02	1.846E-02	1.653E-02	69	2.545	3.035E-04	2.077E-03	1.190E-03
21	0.400	1.680E-02	2.080E-02	1.880E-02	70	2.615	2.697E-04	2.064E-03	1.167E-03
22	0.420	1.362E-02	1.721E-02	1.541E-02	71	2.685	8.402E-05	1.961E-03	1.022E-03
23	0.445	1.120E-02	1.454E-02	1.287E-02	72	2.755	1.488E-03	3.470E-03	2.479E-03
24	0.475	6.433E-03	9.555E-03	7.994E-03	73	2.825	9.392E-04	2.786E-03	1.863E-03
25	0.505	9.120E-03	1.231E-02	1.072E-02	74	2.895	5.242E-04	2.367E-03	1.446E-03
26	0.535	1.222E-02	1.546E-02	1.384E-02	75	2.965	5.094E-04	2.289E-03	1.399E-03
27	0.565	1.309E-02	1.635E-02	1.472E-02	76	3.035	-8.500E-04	9.826E-04	6.633E-05
28	0.595	1.364E-02	1.678E-02	1.521E-02	77	3.110	-1.091E-03	4.292E-04	-3.309E-04
29	0.625	8.366E-03	1.125E-02	9.806E-03	78	3.190	-5.404E-04	1.206E-03	3.328E-04
30	0.655	7.074E-03	9.789E-03	8.431E-03	79	3.270	-3.045E-04	1.446E-03	5.707E-04
31	0.685	8.483E-03	1.130E-02	9.891E-03	80	3.350	-3.822E-04	1.127E-03	3.725E-04
32	0.715	7.992E-03	1.073E-02	9.360E-03	81	3.430	-3.899E-04	1.089E-03	3.495E-04
33	0.745	8.616E-03	1.145E-02	1.003E-02	82	3.510	-4.518E-04	8.773E-04	2.128E-04
34	0.775	7.563E-03	1.033E-02	8.946E-03	83	3.590	5.727E-05	1.446E-03	7.518E-04
35	0.810	9.846E-03	1.274E-02	1.130E-02	84	3.670	5.676E-04	1.878E-03	1.223E-03
36	0.850	8.465E-03	1.124E-02	9.852E-03	85	3.750	5.082E-04	1.726E-03	1.117E-03
37	0.890	5.499E-03	8.101E-03	6.800E-03	86	3.830	1.775E-05	1.198E-03	6.080E-04
38	0.930	5.090E-03	7.758E-03	6.424E-03	87	3.915	-2.878E-04	8.042E-04	2.582E-04
39	0.970	6.339E-03	9.037E-03	7.688E-03	88	4.005	-2.377E-05	1.051E-03	5.137E-04
40	1.010	5.909E-03	8.656E-03	7.282E-03	89	4.095	1.034E-04	1.112E-03	6.075E-04
41	1.050	4.724E-03	7.314E-03	6.019E-03	90	4.185	1.578E-04	1.208E-03	6.828E-04
42	1.090	6.629E-03	9.215E-03	7.922E-03	91	4.275	1.997E-04	1.186E-03	6.930E-04
43	1.130	5.731E-03	8.147E-03	6.939E-03	92	4.365	-5.842E-05	8.815E-04	4.116E-04
44	1.170	4.216E-03	6.390E-03	5.303E-03	93	4.455	-4.310E-04	4.734E-04	2.115E-05
45	1.210	4.688E-03	6.851E-03	5.769E-03	94	4.550	-7.956E-04	4.344E-05	-3.761E-04
46	1.250	2.759E-03	5.622E-03	4.190E-03	95	4.650	-7.814E-04	8.466E-07	-3.903E-04
47	1.295	4.794E-03	6.841E-03	5.817E-03	96	4.750	-2.795E-04	3.696E-04	4.506E-05
48	1.345	4.543E-03	6.863E-03	5.703E-03	97	4.850	2.487E-04	7.376E-04	4.931E-04
49	1.395	7.004E-03	9.507E-03	8.256E-03	98	4.950	4.987E-04	8.459E-04	6.723E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 75 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.737E-02	5.254E-02	3.495E-02	50	1.445	3.685E-03	4.984E-03	4.335E-03
2	0.111	1.475E-02	5.717E-02	3.596E-02	51	1.495	2.778E-03	3.930E-03	3.354E-03
3	0.117	2.166E-03	5.007E-02	2.612E-02	52	1.545	2.069E-03	3.164E-03	2.617E-03
4	0.125	-7.953E-06	2.649E-02	1.324E-02	53	1.595	2.288E-03	3.463E-03	2.876E-03
5	0.135	3.927E-04	1.528E-02	7.834E-03	54	1.645	2.192E-03	3.295E-03	2.744E-03
6	0.145	-4.875E-03	1.963E-02	7.377E-03	55	1.695	1.647E-03	2.692E-03	2.170E-03
7	0.155	2.835E-03	1.379E-02	8.311E-03	56	1.745	1.619E-03	2.706E-03	2.162E-03
8	0.165	5.129E-03	1.229E-02	8.710E-03	57	1.800	1.139E-03	2.200E-03	1.670E-03
9	0.175	2.809E-03	1.375E-02	8.279E-03	58	1.860	4.741E-04	1.548E-03	1.011E-03
10	0.185	6.505E-03	1.152E-02	9.010E-03	59	1.920	1.009E-03	2.085E-03	1.547E-03
11	0.200	8.623E-03	1.188E-02	1.025E-02	60	1.980	3.353E-04	1.314E-03	8.245E-04
12	0.220	1.029E-02	1.356E-02	1.193E-02	61	2.040	7.763E-04	1.790E-03	1.283E-03
13	0.240	8.033E-03	1.074E-02	9.413E-03	62	2.100	9.472E-04	1.988E-03	1.468E-03
14	0.260	5.285E-03	7.456E-03	6.371E-03	63	2.160	-5.779E-05	9.230E-04	4.326E-04
15	0.280	5.298E-03	7.286E-03	6.292E-03	64	2.220	1.047E-03	2.062E-03	1.554E-03
16	0.300	5.169E-03	7.053E-03	6.111E-03	65	2.280	1.268E-03	2.352E-03	1.810E-03
17	0.320	5.484E-03	7.370E-03	6.427E-03	66	2.340	5.834E-04	1.579E-03	1.081E-03
18	0.340	6.023E-03	7.956E-03	6.990E-03	67	2.405	3.761E-04	1.426E-03	9.009E-04
19	0.360	6.404E-03	8.423E-03	7.413E-03	68	2.475	8.462E-04	1.851E-03	1.349E-03
20	0.380	8.679E-03	1.077E-02	9.725E-03	69	2.545	4.291E-04	1.418E-03	9.233E-04
21	0.400	1.049E-02	1.270E-02	1.159E-02	70	2.615	8.540E-04	1.844E-03	1.349E-03
22	0.420	9.744E-03	1.176E-02	1.075E-02	71	2.685	1.042E-04	1.061E-03	5.825E-04
23	0.445	7.524E-03	9.373E-03	8.448E-03	72	2.755	-1.033E-04	8.487E-04	3.727E-04
24	0.475	4.986E-03	6.707E-03	5.847E-03	73	2.825	4.760E-04	1.446E-03	9.610E-04
25	0.505	5.000E-03	6.714E-03	5.857E-03	74	2.895	1.761E-04	1.235E-03	7.053E-04
26	0.535	7.275E-03	9.011E-03	8.143E-03	75	2.965	-1.831E-05	8.967E-04	4.392E-04
27	0.565	7.096E-03	8.846E-03	7.971E-03	76	3.035	-6.047E-04	3.391E-04	-1.328E-04
28	0.595	8.692E-03	1.042E-02	9.554E-03	77	3.110	-7.687E-04	3.902E-05	-3.649E-04
29	0.625	5.296E-03	6.862E-03	6.079E-03	78	3.190	-2.959E-04	6.978E-04	2.009E-04
30	0.655	2.829E-03	4.251E-03	3.540E-03	79	3.270	-4.831E-04	4.055E-04	-3.880E-05
31	0.685	4.680E-03	6.180E-03	5.430E-03	80	3.350	-1.966E-04	6.610E-04	2.322E-04
32	0.715	5.308E-03	6.819E-03	6.063E-03	81	3.430	-1.322E-04	6.831E-04	2.755E-04
33	0.745	3.803E-03	5.241E-03	4.522E-03	82	3.510	9.545E-05	8.310E-04	4.632E-04
34	0.775	2.970E-03	4.383E-03	3.677E-03	83	3.590	2.455E-04	9.635E-04	6.045E-04
35	0.810	3.627E-03	5.113E-03	4.370E-03	84	3.670	2.258E-04	9.381E-04	5.819E-04
36	0.850	5.309E-03	6.869E-03	6.089E-03	85	3.750	3.039E-04	9.382E-04	6.211E-04
37	0.890	4.010E-03	5.501E-03	4.756E-03	86	3.830	2.166E-04	8.815E-04	5.490E-04
38	0.930	4.308E-03	5.833E-03	5.070E-03	87	3.915	-3.423E-05	5.276E-04	2.467E-04
39	0.970	4.328E-03	5.831E-03	5.080E-03	88	4.005	-8.697E-06	5.575E-04	2.744E-04
40	1.010	3.828E-03	5.333E-03	4.581E-03	89	4.095	1.685E-04	7.515E-04	4.600E-04
41	1.050	2.948E-03	4.343E-03	3.645E-03	90	4.185	1.553E-04	7.658E-04	4.605E-04
42	1.090	3.721E-03	5.111E-03	4.416E-03	91	4.275	-8.106E-05	5.121E-04	2.155E-04
43	1.130	3.937E-03	5.275E-03	4.606E-03	92	4.365	-3.756E-04	2.322E-04	-7.167E-05
44	1.170	3.290E-03	4.518E-03	3.904E-03	93	4.455	-6.337E-04	6.140E-06	-3.138E-04
45	1.210	3.856E-03	5.074E-03	4.465E-03	94	4.550	-7.412E-04	-1.240E-04	-4.326E-04
46	1.250	3.247E-03	4.866E-03	4.057E-03	95	4.650	-5.354E-04	7.002E-05	-2.327E-04
47	1.295	2.765E-03	3.864E-03	3.314E-03	96	4.750	-1.086E-04	3.943E-04	1.429E-04
48	1.345	3.712E-03	5.001E-03	4.356E-03	97	4.850	2.312E-04	6.266E-04	4.289E-04
49	1.395	3.211E-03	4.456E-03	3.834E-03	98	4.950	3.502E-04	6.456E-04	4.979E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 115 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.377E-02	3.688E-02	2.533E-02	50	1.445	2.312E-03	3.019E-03	2.666E-03
2	0.111	1.172E-02	3.995E-02	2.583E-02	51	1.495	1.919E-03	2.549E-03	2.234E-03
3	0.117	2.721E-03	3.402E-02	1.837E-02	52	1.545	1.580E-03	2.184E-03	1.882E-03
4	0.125	-8.598E-06	1.744E-02	8.718E-03	53	1.595	1.744E-03	2.360E-03	2.052E-03
5	0.135	2.508E-04	9.410E-03	4.830E-03	54	1.645	1.203E-03	1.761E-03	1.482E-03
6	0.145	-2.755E-03	1.249E-02	4.866E-03	55	1.695	7.286E-04	1.242E-03	9.852E-04
7	0.155	2.440E-03	9.229E-03	5.834E-03	56	1.745	4.856E-04	9.964E-04	7.410E-04
8	0.165	4.516E-03	8.716E-03	6.616E-03	57	1.800	6.900E-04	1.238E-03	9.642E-04
9	0.175	3.299E-03	9.756E-03	6.527E-03	58	1.860	1.318E-04	6.514E-04	3.916E-04
10	0.185	5.013E-03	7.919E-03	6.466E-03	59	1.920	5.243E-04	1.073E-03	7.987E-04
11	0.200	5.576E-03	7.401E-03	6.489E-03	60	1.980	6.914E-04	1.227E-03	9.594E-04
12	0.220	5.811E-03	7.652E-03	6.732E-03	61	2.040	3.051E-04	8.143E-04	5.597E-04
13	0.240	5.068E-03	6.565E-03	5.817E-03	62	2.100	-7.376E-05	4.301E-04	1.781E-04
14	0.260	3.415E-03	4.634E-03	4.025E-03	63	2.160	-9.876E-05	4.024E-04	1.518E-04
15	0.280	3.494E-03	4.604E-03	4.049E-03	64	2.220	2.019E-04	7.072E-04	4.545E-04
16	0.300	4.029E-03	5.098E-03	4.563E-03	65	2.280	8.971E-05	6.031E-04	3.464E-04
17	0.320	3.784E-03	4.837E-03	4.311E-03	66	2.340	2.926E-04	8.617E-04	5.772E-04
18	0.340	3.457E-03	4.501E-03	3.979E-03	67	2.405	1.866E-04	7.301E-04	4.583E-04
19	0.360	3.374E-03	4.456E-03	3.915E-03	68	2.475	2.961E-04	8.439E-04	5.700E-04
20	0.380	4.720E-03	5.851E-03	5.285E-03	69	2.545	3.452E-04	8.995E-04	6.223E-04
21	0.400	6.609E-03	7.828E-03	7.219E-03	70	2.615	3.233E-04	8.617E-04	5.925E-04
22	0.420	6.415E-03	7.561E-03	6.988E-03	71	2.685	3.994E-04	9.356E-04	6.675E-04
23	0.445	6.086E-03	7.160E-03	6.623E-03	72	2.755	2.213E-04	6.986E-04	4.600E-04
24	0.475	4.209E-03	5.194E-03	4.701E-03	73	2.825	4.129E-04	9.347E-04	6.738E-04
25	0.505	3.151E-03	4.079E-03	3.615E-03	74	2.895	1.988E-04	6.833E-04	4.410E-04
26	0.535	3.904E-03	4.824E-03	4.364E-03	75	2.965	-1.098E-04	3.482E-04	1.192E-04
27	0.565	3.677E-03	4.601E-03	4.139E-03	76	3.035	-3.720E-05	4.009E-04	1.819E-04
28	0.595	4.952E-03	5.875E-03	5.414E-03	77	3.110	8.139E-05	5.512E-04	3.163E-04
29	0.625	3.296E-03	4.157E-03	3.727E-03	78	3.190	-1.375E-04	2.796E-04	7.104E-05
30	0.655	2.035E-03	2.821E-03	2.428E-03	79	3.270	-1.971E-04	2.365E-04	1.973E-05
31	0.685	3.464E-03	4.308E-03	3.886E-03	80	3.350	-4.354E-05	3.630E-04	1.597E-04
32	0.715	3.012E-03	3.829E-03	3.421E-03	81	3.430	-5.066E-05	3.269E-04	1.381E-04
33	0.745	2.945E-03	3.757E-03	3.351E-03	82	3.510	-1.961E-05	3.431E-04	1.617E-04
34	0.775	2.330E-03	3.105E-03	2.717E-03	83	3.590	8.627E-05	4.548E-04	2.705E-04
35	0.810	2.024E-03	2.801E-03	2.413E-03	84	3.670	4.539E-05	3.886E-04	2.170E-04
36	0.850	2.558E-03	3.363E-03	2.961E-03	85	3.750	-6.595E-05	2.338E-04	8.393E-05
37	0.890	2.273E-03	3.080E-03	2.677E-03	86	3.830	-8.593E-05	2.416E-04	7.784E-05
38	0.930	2.984E-03	3.829E-03	3.407E-03	87	3.915	-4.557E-05	2.683E-04	1.114E-04
39	0.970	3.092E-03	3.927E-03	3.510E-03	88	4.005	-8.959E-05	2.295E-04	6.994E-05
40	1.010	2.516E-03	3.327E-03	2.922E-03	89	4.095	3.572E-05	3.101E-04	1.729E-04
41	1.050	1.837E-03	2.580E-03	2.209E-03	90	4.185	1.122E-04	4.102E-04	2.612E-04
42	1.090	1.508E-03	2.200E-03	1.854E-03	91	4.275	5.971E-05	3.392E-04	1.995E-04
43	1.130	1.830E-03	2.525E-03	2.177E-03	92	4.365	-3.581E-05	2.484E-04	1.063E-04
44	1.170	1.788E-03	2.430E-03	2.109E-03	93	4.455	-1.686E-04	1.229E-04	-2.284E-05
45	1.210	1.785E-03	2.416E-03	2.100E-03	94	4.550	-2.787E-04	-3.808E-05	-1.584E-04
46	1.250	1.439E-03	2.281E-03	1.860E-03	95	4.650	-2.412E-04	-8.506E-06	-1.248E-04
47	1.295	2.141E-03	2.759E-03	2.450E-03	96	4.750	-5.078E-05	1.462E-04	4.769E-05
48	1.345	2.032E-03	2.701E-03	2.367E-03	97	4.850	1.152E-04	2.604E-04	1.878E-04
49	1.395	2.189E-03	2.870E-03	2.529E-03	98	4.950	1.642E-04	2.670E-04	2.156E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 195 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.134E-02	2.764E-02	1.949E-02	50	1.445	1.138E-03	1.535E-03	1.336E-03
2	0.111	1.044E-02	3.060E-02	2.052E-02	51	1.495	7.362E-04	1.085E-03	9.104E-04
3	0.117	3.764E-03	2.563E-02	1.470E-02	52	1.545	4.408E-04	7.531E-04	5.969E-04
4	0.125	-6.948E-05	1.224E-02	6.084E-03	53	1.595	4.795E-04	8.067E-04	6.431E-04
5	0.135	-3.629E-04	5.474E-03	2.556E-03	54	1.645	4.179E-04	7.242E-04	5.710E-04
6	0.145	-1.467E-03	8.359E-03	3.446E-03	55	1.695	2.381E-04	5.195E-04	3.788E-04
7	0.155	1.818E-03	6.188E-03	4.003E-03	56	1.745	1.252E-04	4.130E-04	2.691E-04
8	0.165	3.070E-03	5.774E-03	4.422E-03	57	1.800	3.500E-05	3.292E-04	1.821E-04
9	0.175	2.791E-03	6.927E-03	4.859E-03	58	1.860	1.636E-04	4.785E-04	3.211E-04
10	0.185	3.523E-03	5.389E-03	4.456E-03	59	1.920	1.657E-04	4.860E-04	3.259E-04
11	0.200	3.596E-03	4.763E-03	4.179E-03	60	1.980	1.823E-04	4.789E-04	3.306E-04
12	0.220	3.351E-03	4.524E-03	3.937E-03	61	2.040	2.709E-04	5.716E-04	4.212E-04
13	0.240	2.745E-03	3.705E-03	3.225E-03	62	2.100	-2.994E-05	2.544E-04	1.122E-04
14	0.260	2.129E-03	2.919E-03	2.524E-03	63	2.160	-2.632E-05	2.730E-04	1.233E-04
15	0.280	2.334E-03	3.060E-03	2.697E-03	64	2.220	6.038E-05	3.458E-04	2.031E-04
16	0.300	2.485E-03	3.175E-03	2.830E-03	65	2.280	6.486E-05	3.792E-04	2.220E-04
17	0.320	2.438E-03	3.115E-03	2.777E-03	66	2.340	1.134E-04	4.315E-04	2.724E-04
18	0.340	2.042E-03	2.707E-03	2.375E-03	67	2.405	1.709E-04	4.890E-04	3.300E-04
19	0.360	1.688E-03	2.353E-03	2.020E-03	68	2.475	7.465E-05	3.857E-04	2.302E-04
20	0.380	2.141E-03	2.824E-03	2.482E-03	69	2.545	6.430E-06	2.940E-04	1.502E-04
21	0.400	2.950E-03	3.692E-03	3.321E-03	70	2.615	1.648E-04	4.628E-04	3.138E-04
22	0.420	3.386E-03	4.120E-03	3.753E-03	71	2.685	1.449E-04	4.647E-04	3.048E-04
23	0.445	4.409E-03	5.137E-03	4.773E-03	72	2.755	1.373E-04	4.513E-04	2.943E-04
24	0.475	3.608E-03	4.273E-03	3.941E-03	73	2.825	1.217E-04	4.381E-04	2.799E-04
25	0.505	1.796E-03	2.370E-03	2.083E-03	74	2.895	-2.002E-05	2.786E-04	1.293E-04
26	0.535	1.300E-03	1.834E-03	1.567E-03	75	2.965	-3.768E-05	2.390E-04	1.007E-04
27	0.565	1.603E-03	2.155E-03	1.879E-03	76	3.035	-1.783E-04	9.261E-05	-4.284E-05
28	0.595	2.596E-03	3.175E-03	2.886E-03	77	3.110	-2.381E-04	9.922E-06	-1.141E-04
29	0.625	1.995E-03	2.548E-03	2.272E-03	78	3.190	-1.208E-04	1.714E-04	2.532E-05
30	0.655	1.892E-03	2.426E-03	2.159E-03	79	3.270	1.103E-05	3.445E-04	1.778E-04
31	0.685	2.221E-03	2.764E-03	2.493E-03	80	3.350	-3.010E-05	3.007E-04	1.353E-04
32	0.715	2.541E-03	3.081E-03	2.811E-03	81	3.430	-2.320E-05	2.463E-04	1.115E-04
33	0.745	1.692E-03	2.197E-03	1.944E-03	82	3.510	6.486E-05	3.158E-04	1.903E-04
34	0.775	1.307E-03	1.788E-03	1.548E-03	83	3.590	-5.131E-05	2.437E-04	9.619E-05
35	0.810	1.368E-03	1.875E-03	1.622E-03	84	3.670	-1.485E-04	1.859E-04	1.869E-05
36	0.850	1.911E-03	2.428E-03	2.169E-03	85	3.750	-1.444E-04	1.437E-04	-3.431E-07
37	0.890	1.559E-03	2.064E-03	1.811E-03	86	3.830	-1.847E-04	7.756E-05	-5.357E-05
38	0.930	1.191E-03	1.684E-03	1.437E-03	87	3.915	-1.884E-04	7.253E-05	-5.796E-05
39	0.970	1.490E-03	1.989E-03	1.739E-03	88	4.005	-8.412E-05	1.599E-04	3.788E-05
40	1.010	1.224E-03	1.718E-03	1.471E-03	89	4.095	2.089E-05	3.202E-04	1.706E-04
41	1.050	1.080E-03	1.541E-03	1.311E-03	90	4.185	6.433E-05	4.100E-04	2.372E-04
42	1.090	1.271E-03	1.718E-03	1.495E-03	91	4.275	4.537E-05	3.128E-04	1.791E-04
43	1.130	1.379E-03	1.802E-03	1.590E-03	92	4.365	-4.996E-05	1.913E-04	7.068E-05
44	1.170	8.892E-04	1.257E-03	1.073E-03	93	4.455	-1.397E-04	8.306E-05	-2.833E-05
45	1.210	7.707E-04	1.127E-03	9.487E-04	94	4.550	-1.867E-04	4.808E-06	-9.097E-05
46	1.250	8.015E-04	1.302E-03	1.052E-03	95	4.650	-1.674E-04	5.178E-05	-5.779E-05
47	1.295	1.246E-03	1.607E-03	1.427E-03	96	4.750	-6.548E-05	1.249E-04	2.969E-05
48	1.345	1.216E-03	1.616E-03	1.416E-03	97	4.850	3.895E-05	1.556E-04	9.729E-05
49	1.395	8.937E-04	1.278E-03	1.086E-03	98	4.950	7.398E-05	1.596E-04	1.168E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 315 SEC

COUNTING TIME : 80 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	9.744E-03	2.241E-02	1.608E-02	50	1.445	4.881E-04	7.399E-04	6.140E-04
2	0.111	8.571E-03	2.443E-02	1.650E-02	51	1.495	1.963E-04	4.233E-04	3.098E-04
3	0.117	3.118E-03	2.007E-02	1.159E-02	52	1.545	1.415E-04	3.405E-04	2.410E-04
4	0.125	1.737E-04	9.733E-03	4.953E-03	53	1.595	1.849E-04	3.905E-04	2.877E-04
5	0.135	6.214E-05	4.475E-03	2.269E-03	54	1.645	7.384E-05	2.715E-04	1.727E-04
6	0.145	-1.076E-03	6.373E-03	2.648E-03	55	1.695	1.399E-04	3.358E-04	2.379E-04
7	0.155	1.525E-03	4.832E-03	3.179E-03	56	1.745	3.000E-04	5.266E-04	4.133E-04
8	0.165	2.550E-03	4.586E-03	3.568E-03	57	1.800	1.971E-04	4.018E-04	2.994E-04
9	0.175	2.264E-03	5.381E-03	3.822E-03	58	1.860	1.913E-04	3.972E-04	2.943E-04
10	0.185	3.093E-03	4.498E-03	3.795E-03	59	1.920	-5.278E-05	1.309E-04	3.906E-05
11	0.200	3.176E-03	4.055E-03	3.615E-03	60	1.980	1.260E-04	3.216E-04	2.238E-04
12	0.220	2.680E-03	3.553E-03	3.117E-03	61	2.040	1.319E-04	3.191E-04	2.255E-04
13	0.240	1.939E-03	2.652E-03	2.295E-03	62	2.100	2.971E-05	2.133E-04	1.215E-04
14	0.260	1.848E-03	2.445E-03	2.147E-03	63	2.160	-4.680E-05	1.438E-04	4.852E-05
15	0.280	1.945E-03	2.483E-03	2.214E-03	64	2.220	9.085E-05	2.852E-04	1.880E-04
16	0.300	1.633E-03	2.126E-03	1.879E-03	65	2.280	7.692E-05	2.746E-04	1.758E-04
17	0.320	1.181E-03	1.650E-03	1.416E-03	66	2.340	-7.169E-05	1.076E-04	1.795E-05
18	0.340	1.274E-03	1.746E-03	1.510E-03	67	2.405	-5.479E-05	1.360E-04	4.059E-05
19	0.360	1.395E-03	1.879E-03	1.637E-03	68	2.475	-7.591E-05	1.167E-04	2.038E-05
20	0.380	1.230E-03	1.706E-03	1.468E-03	69	2.545	-9.142E-05	1.125E-04	1.052E-05
21	0.400	1.492E-03	2.005E-03	1.748E-03	70	2.615	8.648E-05	3.063E-04	1.964E-04
22	0.420	2.198E-03	2.730E-03	2.464E-03	71	2.685	7.102E-05	2.963E-04	1.837E-04
23	0.445	3.392E-03	3.933E-03	3.663E-03	72	2.755	1.305E-05	2.653E-04	1.392E-04
24	0.475	2.758E-03	3.247E-03	3.003E-03	73	2.825	-6.634E-06	2.062E-04	9.979E-05
25	0.505	1.315E-03	1.728E-03	1.521E-03	74	2.895	5.808E-06	2.326E-04	1.192E-04
26	0.535	5.885E-04	9.537E-04	7.711E-04	75	2.965	1.799E-05	2.332E-04	1.256E-04
27	0.565	9.013E-04	1.287E-03	1.094E-03	76	3.035	-6.819E-05	1.420E-04	3.689E-05
28	0.595	1.637E-03	2.044E-03	1.840E-03	77	3.110	-1.329E-04	5.649E-05	-3.822E-05
29	0.625	1.209E-03	1.595E-03	1.402E-03	78	3.190	-1.793E-04	2.979E-05	-7.477E-05
30	0.655	1.049E-03	1.417E-03	1.233E-03	79	3.270	-1.372E-04	7.581E-05	-3.069E-05
31	0.685	1.540E-03	1.929E-03	1.735E-03	80	3.350	-8.315E-05	1.356E-04	2.624E-05
32	0.715	1.749E-03	2.138E-03	1.943E-03	81	3.430	-4.696E-05	1.508E-04	5.194E-05
33	0.745	1.442E-03	1.809E-03	1.625E-03	82	3.510	1.662E-05	1.943E-04	1.055E-04
34	0.775	8.467E-04	1.179E-03	1.013E-03	83	3.590	1.357E-05	2.096E-04	1.116E-04
35	0.810	7.409E-04	1.082E-03	9.113E-04	84	3.670	-3.048E-05	1.745E-04	7.199E-05
36	0.850	1.129E-03	1.485E-03	1.307E-03	85	3.750	-6.802E-05	1.210E-04	2.647E-05
37	0.890	1.074E-03	1.434E-03	1.254E-03	86	3.830	-7.797E-05	1.052E-04	1.362E-05
38	0.930	1.097E-03	1.461E-03	1.279E-03	87	3.915	-7.253E-05	1.133E-04	2.036E-05
39	0.970	1.054E-03	1.404E-03	1.229E-03	88	4.005	-7.731E-05	1.370E-04	2.985E-05
40	1.010	7.871E-04	1.130E-03	9.586E-04	89	4.095	-5.027E-05	1.661E-04	5.793E-05
41	1.050	8.184E-04	1.122E-03	9.705E-04	90	4.185	-4.506E-05	1.973E-04	7.612E-05
42	1.090	5.165E-04	7.937E-04	6.551E-04	91	4.275	-6.680E-05	1.997E-04	6.647E-05
43	1.130	4.722E-04	7.278E-04	6.000E-04	92	4.365	-1.064E-04	1.427E-04	1.815E-05
44	1.170	4.254E-04	6.693E-04	5.474E-04	93	4.455	-1.633E-04	6.758E-05	-4.786E-05
45	1.210	4.611E-04	6.984E-04	5.797E-04	94	4.550	-2.117E-04	3.269E-05	-8.949E-05
46	1.250	5.701E-04	9.021E-04	7.361E-04	95	4.650	-1.879E-04	6.430E-05	-6.180E-05
47	1.295	5.376E-04	7.595E-04	6.485E-04	96	4.750	-9.726E-05	1.184E-04	1.059E-05
48	1.345	3.330E-04	5.757E-04	4.544E-04	97	4.850	1.362E-05	1.423E-04	7.798E-05
49	1.395	3.776E-04	6.338E-04	5.057E-04	98	4.950	5.479E-05	1.576E-04	1.062E-04



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 495 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.872E-03	1.921E-02	1.404E-02	50	1.445	1.346E-04	3.083E-04	2.214E-04
2	0.111	7.397E-03	2.064E-02	1.402E-02	51	1.495	9.278E-05	2.542E-04	1.735E-04
3	0.117	2.606E-03	1.640E-02	9.503E-03	52	1.545	2.567E-05	1.661E-04	9.588E-05
4	0.125	-5.635E-06	7.778E-03	3.886E-03	53	1.595	5.535E-05	2.036E-04	1.295E-04
5	0.135	7.763E-05	3.643E-03	1.861E-03	54	1.645	5.278E-06	1.366E-04	7.094E-05
6	0.145	-6.800E-04	5.342E-03	2.331E-03	55	1.695	-8.657E-07	1.350E-04	6.709E-05
7	0.155	1.704E-03	4.389E-03	3.047E-03	56	1.745	8.797E-05	2.380E-04	1.630E-04
8	0.165	2.562E-03	4.191E-03	3.377E-03	57	1.800	1.908E-04	3.470E-04	2.689E-04
9	0.175	2.117E-03	4.598E-03	3.357E-03	58	1.860	3.541E-05	1.715E-04	1.034E-04
10	0.185	2.578E-03	3.695E-03	3.137E-03	59	1.920	-3.578E-05	9.464E-05	2.943E-05
11	0.200	2.131E-03	2.822E-03	2.477E-03	60	1.980	-4.760E-05	7.753E-05	1.497E-05
12	0.220	1.688E-03	2.388E-03	2.038E-03	61	2.040	7.997E-05	2.246E-04	1.523E-04
13	0.240	1.657E-03	2.240E-03	1.949E-03	62	2.100	1.197E-04	2.719E-04	1.958E-04
14	0.260	1.614E-03	2.096E-03	1.855E-03	63	2.160	7.172E-06	1.441E-04	7.562E-05
15	0.280	1.337E-03	1.758E-03	1.548E-03	64	2.220	2.070E-05	1.601E-04	9.039E-05
16	0.300	1.325E-03	1.718E-03	1.521E-03	65	2.280	2.664E-05	1.624E-04	9.450E-05
17	0.320	1.237E-03	1.621E-03	1.429E-03	66	2.340	7.684E-06	1.372E-04	7.243E-05
18	0.340	1.019E-03	1.388E-03	1.204E-03	67	2.405	-2.277E-05	1.071E-04	4.218E-05
19	0.360	8.081E-04	1.171E-03	9.897E-04	68	2.475	-3.272E-05	8.845E-05	2.786E-05
20	0.380	6.980E-04	1.054E-03	8.759E-04	69	2.545	-6.407E-06	1.367E-04	6.514E-05
21	0.400	9.262E-04	1.313E-03	1.120E-03	70	2.615	2.989E-05	1.713E-04	1.006E-04
22	0.420	1.509E-03	1.915E-03	1.712E-03	71	2.685	1.018E-04	2.606E-04	1.812E-04
23	0.445	2.369E-03	2.789E-03	2.579E-03	72	2.755	4.231E-05	1.640E-04	1.032E-04
24	0.475	2.310E-03	2.700E-03	2.505E-03	73	2.825	-1.266E-05	1.049E-04	4.611E-05
25	0.505	1.058E-03	1.382E-03	1.220E-03	74	2.895	-3.316E-06	1.136E-04	5.515E-05
26	0.535	4.393E-04	7.254E-04	5.823E-04	75	2.965	-3.271E-05	8.501E-05	2.615E-05
27	0.565	7.126E-04	1.013E-03	8.627E-04	76	3.035	-8.445E-05	2.249E-05	-3.098E-05
28	0.595	1.045E-03	1.355E-03	1.200E-03	77	3.110	-1.022E-04	2.934E-05	-3.645E-05
29	0.625	6.220E-04	9.077E-04	7.648E-04	78	3.190	-7.915E-05	3.439E-05	-2.238E-05
30	0.655	9.419E-04	1.230E-03	1.086E-03	79	3.270	-7.008E-05	4.172E-05	-1.418E-05
31	0.685	8.756E-04	1.157E-03	1.016E-03	80	3.350	-4.810E-05	6.309E-05	7.495E-06
32	0.715	8.156E-04	1.088E-03	9.520E-04	81	3.430	-3.273E-05	6.789E-05	1.758E-05
33	0.745	8.863E-04	1.164E-03	1.025E-03	82	3.510	-9.919E-06	8.580E-05	3.794E-05
34	0.775	5.865E-04	8.428E-04	7.146E-04	83	3.590	7.560E-06	1.045E-04	5.601E-05
35	0.810	6.102E-04	8.723E-04	7.412E-04	84	3.670	-9.154E-07	9.210E-05	4.559E-05
36	0.850	6.945E-04	9.642E-04	8.293E-04	85	3.750	-2.174E-05	5.854E-05	1.840E-05
37	0.890	7.497E-04	1.026E-03	8.878E-04	86	3.830	-3.846E-05	4.000E-05	7.687E-07
38	0.930	1.005E-03	1.298E-03	1.151E-03	87	3.915	-2.688E-05	4.621E-05	9.663E-06
39	0.970	7.683E-04	1.041E-03	9.047E-04	88	4.005	-1.256E-05	7.144E-05	2.944E-05
40	1.010	6.238E-04	8.828E-04	7.533E-04	89	4.095	8.925E-06	9.177E-05	5.035E-05
41	1.050	4.754E-04	6.970E-04	5.862E-04	90	4.185	1.209E-05	9.881E-05	5.545E-05
42	1.090	3.107E-04	5.101E-04	4.104E-04	91	4.275	-1.570E-05	7.126E-05	2.778E-05
43	1.130	2.898E-04	4.781E-04	3.840E-04	92	4.365	-4.901E-05	3.914E-05	-4.937E-06
44	1.170	2.432E-04	4.168E-04	3.300E-04	93	4.455	-7.396E-05	1.273E-05	-3.061E-05
45	1.210	3.346E-04	5.144E-04	4.245E-04	94	4.550	-9.491E-05	-2.808E-06	-4.886E-05
46	1.250	3.294E-04	5.617E-04	4.456E-04	95	4.650	-8.346E-05	6.142E-06	-3.866E-05
47	1.295	3.298E-04	4.950E-04	4.124E-04	96	4.750	-4.206E-05	3.389E-05	-4.086E-06
48	1.345	2.072E-04	3.821E-04	2.946E-04	97	4.850	3.008E-06	5.666E-05	2.984E-05
49	1.395	2.018E-04	3.821E-04	2.920E-04	98	4.950	2.096E-05	6.576E-05	4.336E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 795 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.192E-03	1.509E-02	1.114E-02	50	1.445	1.092E-04	2.206E-04	1.649E-04
2	0.111	6.155E-03	1.647E-02	1.131E-02	51	1.495	1.171E-04	2.236E-04	1.704E-04
3	0.117	2.530E-03	1.307E-02	7.802E-03	52	1.545	2.151E-05	1.066E-04	6.406E-05
4	0.125	2.050E-04	6.179E-03	3.192E-03	53	1.595	-1.505E-05	6.441E-05	2.468E-05
5	0.135	1.538E-04	2.639E-03	1.397E-03	54	1.645	-1.371E-05	6.753E-05	2.691E-05
6	0.145	-3.985E-04	3.854E-03	1.728E-03	55	1.695	-6.642E-06	6.702E-05	3.019E-05
7	0.155	1.238E-03	3.137E-03	2.188E-03	56	1.745	2.388E-05	1.074E-04	6.564E-05
8	0.165	1.965E-03	3.005E-03	2.485E-03	57	1.800	4.880E-05	1.362E-04	9.251E-05
9	0.175	1.838E-03	3.447E-03	2.642E-03	58	1.860	4.865E-05	1.334E-04	9.103E-05
10	0.185	2.164E-03	2.877E-03	2.521E-03	59	1.920	2.301E-05	1.080E-04	6.549E-05
11	0.200	1.845E-03	2.275E-03	2.060E-03	60	1.980	-1.687E-06	7.528E-05	3.680E-05
12	0.220	1.272E-03	1.701E-03	1.486E-03	61	2.040	4.574E-05	1.350E-04	9.037E-05
13	0.240	1.040E-03	1.394E-03	1.217E-03	62	2.100	5.428E-05	1.504E-04	1.023E-04
14	0.260	1.071E-03	1.364E-03	1.217E-03	63	2.160	1.029E-05	1.045E-04	5.739E-05
15	0.280	1.042E-03	1.299E-03	1.170E-03	64	2.220	7.343E-05	1.564E-04	1.149E-04
16	0.300	8.886E-04	1.125E-03	1.007E-03	65	2.280	7.289E-05	1.565E-04	1.147E-04
17	0.320	7.600E-04	9.900E-04	8.750E-04	66	2.340	1.576E-05	8.606E-05	5.091E-05
18	0.340	6.596E-04	8.836E-04	7.716E-04	67	2.405	-1.108E-05	6.055E-05	2.473E-05
19	0.360	5.409E-04	7.613E-04	6.511E-04	68	2.475	4.038E-06	7.250E-05	3.827E-05
20	0.380	4.427E-04	6.572E-04	5.499E-04	69	2.545	-4.759E-06	9.526E-05	4.525E-05
21	0.400	5.893E-04	8.233E-04	7.063E-04	70	2.615	6.914E-06	8.475E-05	4.583E-05
22	0.420	1.038E-03	1.287E-03	1.162E-03	71	2.685	-1.893E-05	5.786E-05	1.947E-05
23	0.445	2.017E-03	2.280E-03	2.148E-03	72	2.755	-2.961E-05	3.549E-05	2.941E-06
24	0.475	1.784E-03	2.026E-03	1.905E-03	73	2.825	-1.207E-05	4.491E-05	1.642E-05
25	0.505	7.991E-04	1.000E-03	8.998E-04	74	2.895	-1.791E-05	4.539E-05	1.374E-05
26	0.535	4.617E-04	6.420E-04	5.519E-04	75	2.965	-3.204E-05	2.495E-05	-3.545E-06
27	0.565	4.873E-04	6.719E-04	5.796E-04	76	3.035	-3.266E-05	2.896E-05	-1.849E-06
28	0.595	6.681E-04	8.546E-04	7.613E-04	77	3.110	-2.817E-05	4.159E-05	6.714E-06
29	0.625	4.463E-04	6.211E-04	5.337E-04	78	3.190	-3.076E-05	3.068E-05	-3.504E-08
30	0.655	6.186E-04	7.927E-04	7.057E-04	79	3.270	-2.960E-05	3.588E-05	3.139E-06
31	0.685	7.756E-04	9.519E-04	8.638E-04	80	3.350	-2.166E-05	4.646E-05	1.240E-05
32	0.715	6.295E-04	7.952E-04	7.124E-04	81	3.430	-1.056E-05	5.356E-05	2.150E-05
33	0.745	4.979E-04	6.607E-04	5.793E-04	82	3.510	-3.471E-06	5.613E-05	2.633E-05
34	0.775	4.077E-04	5.642E-04	4.860E-04	83	3.590	-2.164E-05	3.457E-05	6.468E-06
35	0.810	3.721E-04	5.322E-04	4.522E-04	84	3.670	-4.453E-05	2.456E-05	-9.989E-06
36	0.850	4.696E-04	6.332E-04	5.514E-04	85	3.750	-4.913E-05	1.991E-05	-1.461E-05
37	0.890	6.415E-04	8.172E-04	7.294E-04	86	3.830	-4.679E-05	1.388E-05	-1.646E-05
38	0.930	5.739E-04	7.489E-04	6.614E-04	87	3.915	-4.309E-05	1.813E-05	-1.248E-05
39	0.970	4.371E-04	6.016E-04	5.193E-04	88	4.005	-2.386E-05	2.668E-05	1.411E-06
40	1.010	3.692E-04	5.311E-04	4.502E-04	89	4.095	1.514E-07	5.780E-05	2.898E-05
41	1.050	4.373E-04	5.801E-04	5.087E-04	90	4.185	1.442E-05	8.694E-05	5.068E-05
42	1.090	2.260E-04	3.478E-04	2.869E-04	91	4.275	1.629E-05	7.502E-05	4.566E-05
43	1.130	1.551E-04	2.651E-04	2.101E-04	92	4.365	-5.797E-06	4.249E-05	1.835E-05
44	1.170	1.791E-04	2.856E-04	2.323E-04	93	4.455	-3.302E-05	1.178E-05	-1.062E-05
45	1.210	1.800E-04	2.825E-04	2.313E-04	94	4.550	-4.845E-05	-7.106E-06	-2.778E-05
46	1.250	2.632E-04	4.102E-04	3.367E-04	95	4.650	-4.212E-05	-3.764E-06	-2.294E-05
47	1.295	2.799E-04	3.800E-04	3.299E-04	96	4.750	-2.119E-05	1.196E-05	-4.611E-06
48	1.345	2.008E-04	3.107E-04	2.557E-04	97	4.850	5.526E-07	2.659E-05	1.357E-05
49	1.395	5.267E-05	1.627E-04	1.077E-04	98	4.950	1.197E-05	3.191E-05	2.194E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1395 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.993E-03	1.034E-02	7.667E-03	50	1.445	1.778E-04	2.589E-04	2.184E-04
2	0.111	4.381E-03	1.143E-02	7.904E-03	51	1.495	4.313E-05	1.083E-04	7.570E-05
3	0.117	1.934E-03	9.084E-03	5.509E-03	52	1.545	-1.157E-05	4.154E-05	1.498E-05
4	0.125	1.854E-04	4.241E-03	2.213E-03	53	1.595	-6.254E-06	4.422E-05	1.898E-05
5	0.135	1.127E-04	1.744E-03	9.283E-04	54	1.645	-7.039E-06	4.152E-05	1.724E-05
6	0.145	-1.553E-04	2.650E-03	1.248E-03	55	1.695	1.674E-05	6.462E-05	4.068E-05
7	0.155	9.121E-04	2.172E-03	1.542E-03	56	1.745	4.019E-05	9.164E-05	6.591E-05
8	0.165	1.419E-03	2.071E-03	1.745E-03	57	1.800	6.787E-05	1.196E-04	9.374E-05
9	0.175	1.371E-03	2.390E-03	1.881E-03	58	1.860	1.728E-05	6.504E-05	4.116E-05
10	0.185	1.466E-03	1.915E-03	1.690E-03	59	1.920	-1.089E-05	3.620E-05	1.265E-05
11	0.200	1.202E-03	1.470E-03	1.336E-03	60	1.980	-2.792E-06	4.339E-05	2.030E-05
12	0.220	8.082E-04	1.079E-03	9.434E-04	61	2.040	1.196E-05	5.855E-05	3.525E-05
13	0.240	7.223E-04	9.457E-04	8.340E-04	62	2.100	1.714E-05	6.705E-05	4.209E-05
14	0.260	6.953E-04	8.760E-04	7.856E-04	63	2.160	7.047E-06	5.447E-05	3.076E-05
15	0.280	5.721E-04	7.262E-04	6.491E-04	64	2.220	5.952E-06	5.218E-05	2.907E-05
16	0.300	5.564E-04	7.005E-04	6.285E-04	65	2.280	1.015E-05	5.654E-05	3.334E-05
17	0.320	5.751E-04	7.191E-04	6.471E-04	66	2.340	2.706E-05	7.380E-05	5.043E-05
18	0.340	4.624E-04	6.026E-04	5.325E-04	67	2.405	1.370E-05	5.945E-05	3.657E-05
19	0.360	3.520E-04	4.880E-04	4.200E-04	68	2.475	1.994E-05	6.713E-05	4.353E-05
20	0.380	3.446E-04	4.769E-04	4.107E-04	69	2.545	7.470E-06	5.083E-05	2.915E-05
21	0.400	3.771E-04	5.168E-04	4.470E-04	70	2.615	-9.476E-06	3.033E-05	1.043E-05
22	0.420	5.393E-04	6.837E-04	6.115E-04	71	2.685	-1.297E-05	2.450E-05	5.768E-06
23	0.445	1.189E-03	1.343E-03	1.266E-03	72	2.755	-1.508E-05	2.006E-05	2.493E-06
24	0.475	1.149E-03	1.294E-03	1.221E-03	73	2.825	-1.099E-05	1.853E-05	3.768E-06
25	0.505	5.402E-04	6.647E-04	6.024E-04	74	2.895	-1.320E-05	1.982E-05	3.312E-06
26	0.535	3.139E-04	4.260E-04	3.700E-04	75	2.965	-1.170E-05	1.687E-05	2.586E-06
27	0.565	2.904E-04	4.055E-04	3.480E-04	76	3.035	-3.198E-06	2.135E-05	9.074E-06
28	0.595	3.382E-04	4.527E-04	3.955E-04	77	3.110	-7.376E-06	1.839E-05	5.509E-06
29	0.625	3.249E-04	4.349E-04	3.799E-04	78	3.190	-1.772E-05	7.548E-06	-5.085E-06
30	0.655	4.118E-04	5.172E-04	4.645E-04	79	3.270	-1.591E-05	1.381E-05	-1.053E-06
31	0.685	4.178E-04	5.203E-04	4.691E-04	80	3.350	-1.153E-05	1.710E-05	2.783E-06
32	0.715	2.979E-04	3.953E-04	3.466E-04	81	3.430	-7.415E-06	2.144E-05	7.012E-06
33	0.745	2.626E-04	3.621E-04	3.123E-04	82	3.510	-4.436E-06	1.754E-05	6.552E-06
34	0.775	2.762E-04	3.742E-04	3.252E-04	83	3.590	-1.165E-05	1.129E-05	-1.823E-07
35	0.810	1.977E-04	2.943E-04	2.460E-04	84	3.670	-1.468E-05	1.226E-05	-1.207E-06
36	0.850	2.102E-04	3.099E-04	2.601E-04	85	3.750	-1.034E-05	1.598E-05	2.818E-06
37	0.890	3.989E-04	5.090E-04	4.540E-04	86	3.830	-6.444E-06	1.747E-05	5.511E-06
38	0.930	4.472E-04	5.628E-04	5.050E-04	87	3.915	-7.711E-06	1.293E-05	2.608E-06
39	0.970	2.810E-04	3.865E-04	3.338E-04	88	4.005	-8.331E-06	9.842E-06	7.555E-07
40	1.010	1.866E-04	2.884E-04	2.375E-04	89	4.095	-4.916E-06	1.860E-05	6.844E-06
41	1.050	2.447E-04	3.310E-04	2.878E-04	90	4.185	-3.740E-06	2.392E-05	1.009E-05
42	1.090	9.951E-05	1.743E-04	1.369E-04	91	4.275	-5.511E-06	1.790E-05	6.194E-06
43	1.130	5.831E-05	1.260E-04	9.214E-05	92	4.365	-8.778E-06	1.018E-05	7.015E-07
44	1.170	9.415E-05	1.603E-04	1.272E-04	93	4.455	-1.093E-05	3.691E-06	-3.619E-06
45	1.210	8.682E-05	1.474E-04	1.171E-04	94	4.550	-1.496E-05	3.596E-06	-5.683E-06
46	1.250	1.203E-04	2.052E-04	1.628E-04	95	4.650	-1.554E-05	6.584E-06	-4.476E-06
47	1.295	1.083E-04	1.666E-04	1.375E-04	96	4.750	-9.597E-06	6.753E-06	-1.422E-06
48	1.345	9.667E-05	1.685E-04	1.326E-04	97	4.850	-6.069E-07	7.685E-06	3.539E-06
49	1.395	7.822E-05	1.555E-04	1.169E-04	98	4.950	3.616E-06	1.110E-05	7.360E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2195 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.123E-03	6.482E-03	4.802E-03	50	1.445	1.393E-04	2.104E-04	1.749E-04
2	0.111	2.722E-03	7.136E-03	4.929E-03	51	1.495	5.276E-05	1.162E-04	8.449E-05
3	0.117	1.115E-03	5.603E-03	3.359E-03	52	1.545	-1.391E-05	3.623E-05	1.116E-05
4	0.125	-4.687E-05	2.489E-03	1.221E-03	53	1.595	-2.257E-05	5.105E-05	1.424E-05
5	0.135	-2.019E-05	1.097E-03	5.385E-04	54	1.645	-5.280E-06	3.769E-05	1.621E-05
6	0.145	-7.193E-05	1.829E-03	8.784E-04	55	1.695	-2.609E-07	3.884E-05	1.929E-05
7	0.155	5.177E-04	1.359E-03	9.383E-04	56	1.745	2.677E-05	7.042E-05	4.859E-05
8	0.165	7.799E-04	1.283E-03	1.031E-03	57	1.800	2.711E-05	6.757E-05	4.734E-05
9	0.175	8.148E-04	1.591E-03	1.203E-03	58	1.860	-7.403E-06	3.102E-05	1.181E-05
10	0.185	8.663E-04	1.214E-03	1.040E-03	59	1.920	-1.470E-05	3.411E-05	9.706E-06
11	0.200	8.150E-04	1.030E-03	9.225E-04	60	1.980	7.119E-06	4.744E-05	2.728E-05
12	0.220	5.180E-04	7.384E-04	6.282E-04	61	2.040	8.999E-06	5.216E-05	3.058E-05
13	0.240	3.902E-04	5.732E-04	4.817E-04	62	2.100	3.395E-06	4.724E-05	2.532E-05
14	0.260	3.854E-04	5.330E-04	4.592E-04	63	2.160	-3.286E-06	4.188E-05	1.930E-05
15	0.280	3.928E-04	5.189E-04	4.558E-04	64	2.220	3.399E-06	4.839E-05	2.589E-05
16	0.300	3.255E-04	4.420E-04	3.837E-04	65	2.280	-4.003E-06	5.329E-05	2.465E-05
17	0.320	3.041E-04	4.204E-04	3.622E-04	66	2.340	-7.243E-06	3.028E-05	1.152E-05
18	0.340	2.713E-04	3.860E-04	3.286E-04	67	2.405	-1.430E-05	2.782E-05	6.760E-06
19	0.360	2.186E-04	3.297E-04	2.742E-04	68	2.475	-1.336E-05	3.464E-05	1.064E-05
20	0.380	1.457E-04	2.511E-04	1.984E-04	69	2.545	-1.214E-06	6.124E-05	3.002E-05
21	0.400	1.884E-04	3.007E-04	2.445E-04	70	2.615	2.411E-05	6.850E-05	4.631E-05
22	0.420	3.637E-04	4.806E-04	4.221E-04	71	2.685	3.246E-06	4.780E-05	2.552E-05
23	0.445	8.223E-04	9.467E-04	8.845E-04	72	2.755	-9.091E-06	1.888E-05	4.896E-06
24	0.475	7.921E-04	9.103E-04	8.512E-04	73	2.825	-8.888E-06	1.322E-05	2.164E-06
25	0.505	3.669E-04	4.697E-04	4.183E-04	74	2.895	-1.022E-05	1.358E-05	1.683E-06
26	0.535	2.483E-04	3.430E-04	2.957E-04	75	2.965	-1.238E-05	9.777E-06	-1.301E-06
27	0.565	2.079E-04	3.044E-04	2.562E-04	76	3.035	-1.377E-05	6.171E-06	-3.802E-06
28	0.595	2.002E-04	2.956E-04	2.479E-04	77	3.110	-1.386E-05	3.793E-06	-5.033E-06
29	0.625	1.862E-04	2.761E-04	2.312E-04	78	3.190	-1.476E-05	4.868E-06	-4.943E-06
30	0.655	3.113E-04	3.985E-04	3.549E-04	79	3.270	-9.305E-06	1.056E-05	6.272E-07
31	0.685	3.201E-04	4.054E-04	3.627E-04	80	3.350	-5.481E-06	1.659E-05	5.557E-06
32	0.715	2.639E-04	3.457E-04	3.048E-04	81	3.430	-4.719E-06	1.346E-05	4.370E-06
33	0.745	1.727E-04	2.546E-04	2.136E-04	82	3.510	-4.527E-06	1.078E-05	3.127E-06
34	0.775	1.207E-04	1.992E-04	1.599E-04	83	3.590	-6.314E-06	1.112E-05	2.405E-06
35	0.810	1.113E-04	1.917E-04	1.515E-04	84	3.670	-5.789E-06	1.191E-05	3.060E-06
36	0.850	9.810E-05	1.797E-04	1.389E-04	85	3.750	-3.436E-06	1.192E-05	4.243E-06
37	0.890	2.215E-04	3.124E-04	2.670E-04	86	3.830	-2.479E-06	1.033E-05	3.924E-06
38	0.930	2.700E-04	3.669E-04	3.184E-04	87	3.915	-2.654E-06	9.332E-06	3.339E-06
39	0.970	9.844E-05	1.853E-04	1.419E-04	88	4.005	-1.373E-06	1.029E-05	4.461E-06
40	1.010	3.793E-05	1.221E-04	8.000E-05	89	4.095	2.247E-07	1.103E-05	5.630E-06
41	1.050	1.225E-04	1.936E-04	1.580E-04	90	4.185	-2.250E-06	1.035E-05	4.048E-06
42	1.090	5.519E-05	1.208E-04	8.798E-05	91	4.275	-5.170E-06	7.013E-06	9.216E-07
43	1.130	6.348E-05	1.244E-04	9.392E-05	92	4.365	-7.101E-06	4.190E-06	-1.455E-06
44	1.170	7.308E-05	1.290E-04	1.010E-04	93	4.455	-8.594E-06	8.059E-07	-3.894E-06
45	1.210	5.151E-05	1.041E-04	7.779E-05	94	4.550	-9.504E-06	-7.022E-08	-4.787E-06
46	1.250	5.420E-05	1.235E-04	8.887E-05	95	4.650	-8.384E-06	3.646E-06	-2.369E-06
47	1.295	6.025E-05	1.104E-04	8.532E-05	96	4.750	-4.356E-06	5.358E-06	5.011E-07
48	1.345	4.420E-05	1.046E-04	7.440E-05	97	4.850	2.237E-07	5.687E-06	2.955E-06
49	1.395	7.535E-05	1.453E-04	1.103E-04	98	4.950	2.156E-06	6.507E-06	4.331E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3195 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.756E-03	3.910E-03	2.833E-03	50	1.445	7.806E-05	1.413E-04	1.097E-04
2	0.111	1.565E-03	4.313E-03	2.939E-03	51	1.495	3.362E-05	8.954E-05	6.158E-05
3	0.117	6.042E-04	3.490E-03	2.047E-03	52	1.545	6.552E-06	5.295E-05	2.975E-05
4	0.125	-1.209E-05	1.607E-03	7.975E-04	53	1.595	-2.609E-06	4.181E-05	1.960E-05
5	0.135	-3.455E-05	7.406E-04	3.530E-04	54	1.645	-5.244E-06	3.224E-05	1.350E-05
6	0.145	-1.077E-04	1.193E-03	5.429E-04	55	1.695	2.794E-07	3.605E-05	1.817E-05
7	0.155	3.476E-04	9.267E-04	6.371E-04	56	1.745	8.742E-06	4.626E-05	2.750E-05
8	0.165	4.932E-04	8.832E-04	6.882E-04	57	1.800	1.706E-05	5.372E-05	3.539E-05
9	0.175	4.428E-04	1.035E-03	7.388E-04	58	1.860	3.150E-06	3.758E-05	2.037E-05
10	0.185	4.946E-04	7.667E-04	6.307E-04	59	1.920	-1.343E-05	3.080E-05	8.688E-06
11	0.200	4.193E-04	5.955E-04	5.074E-04	60	1.980	-1.835E-05	2.003E-05	8.385E-07
12	0.220	2.707E-04	4.562E-04	3.635E-04	61	2.040	-5.541E-06	3.773E-05	1.609E-05
13	0.240	1.887E-04	3.456E-04	2.671E-04	62	2.100	-1.524E-05	2.279E-05	3.776E-06
14	0.260	1.505E-04	2.755E-04	2.130E-04	63	2.160	-3.009E-05	1.120E-05	-9.445E-06
15	0.280	1.763E-04	2.823E-04	2.293E-04	64	2.220	-1.143E-05	3.021E-05	9.393E-06
16	0.300	2.264E-04	3.265E-04	2.764E-04	65	2.280	-6.011E-06	4.807E-05	2.103E-05
17	0.320	1.938E-04	2.939E-04	2.438E-04	66	2.340	-2.385E-06	3.450E-05	1.606E-05
18	0.340	1.149E-04	2.127E-04	1.638E-04	67	2.405	-1.736E-05	3.095E-05	6.795E-06
19	0.360	1.012E-04	1.961E-04	1.486E-04	68	2.475	-1.716E-05	2.377E-05	3.303E-06
20	0.380	8.461E-05	1.754E-04	1.300E-04	69	2.545	-1.905E-06	4.076E-05	1.943E-05
21	0.400	1.018E-04	1.978E-04	1.498E-04	70	2.615	2.788E-06	5.929E-05	3.104E-05
22	0.420	2.739E-04	3.731E-04	3.235E-04	71	2.685	-1.419E-07	5.104E-05	2.545E-05
23	0.445	5.700E-04	6.733E-04	6.216E-04	72	2.755	-2.110E-06	4.906E-05	2.347E-05
24	0.475	4.218E-04	5.184E-04	4.701E-04	73	2.825	1.042E-06	2.553E-05	1.329E-05
25	0.505	1.908E-04	2.783E-04	2.346E-04	74	2.895	-7.085E-06	1.414E-05	3.529E-06
26	0.535	1.618E-04	2.444E-04	2.031E-04	75	2.965	-1.301E-05	8.742E-06	-2.132E-06
27	0.565	1.071E-04	1.918E-04	1.494E-04	76	3.035	-1.383E-05	4.333E-06	-4.749E-06
28	0.595	1.329E-04	2.176E-04	1.752E-04	77	3.110	-1.084E-05	7.327E-06	-1.758E-06
29	0.625	1.575E-04	2.368E-04	1.971E-04	78	3.190	-7.482E-06	1.133E-05	1.924E-06
30	0.655	1.805E-04	2.536E-04	2.170E-04	79	3.270	-7.935E-06	1.057E-05	1.315E-06
31	0.685	1.630E-04	2.332E-04	1.981E-04	80	3.350	-8.085E-06	9.945E-06	9.298E-07
32	0.715	1.430E-04	2.121E-04	1.776E-04	81	3.430	-6.161E-06	1.214E-05	2.990E-06
33	0.745	7.887E-05	1.487E-04	1.138E-04	82	3.510	-3.057E-06	1.370E-05	5.322E-06
34	0.775	7.454E-05	1.437E-04	1.091E-04	83	3.590	-2.305E-06	1.326E-05	5.476E-06
35	0.810	5.872E-05	1.293E-04	9.399E-05	84	3.670	-3.856E-06	1.181E-05	3.979E-06
36	0.850	8.316E-05	1.560E-04	1.196E-04	85	3.750	-6.054E-06	1.032E-05	2.134E-06
37	0.890	1.505E-04	2.306E-04	1.905E-04	86	3.830	-7.697E-06	9.785E-06	1.044E-06
38	0.930	1.249E-04	2.094E-04	1.672E-04	87	3.915	-6.735E-06	1.061E-05	1.939E-06
39	0.970	7.410E-05	1.535E-04	1.138E-04	88	4.005	-5.405E-06	1.238E-05	3.489E-06
40	1.010	1.794E-05	9.289E-05	5.542E-05	89	4.095	-6.293E-06	1.417E-05	3.938E-06
41	1.050	5.444E-05	1.157E-04	8.508E-05	90	4.185	-7.258E-06	1.366E-05	3.203E-06
42	1.090	3.994E-05	9.692E-05	6.843E-05	91	4.275	-9.818E-06	1.054E-05	3.598E-07
43	1.130	2.128E-05	7.353E-05	4.740E-05	92	4.365	-1.500E-05	7.133E-06	-3.934E-06
44	1.170	2.358E-05	7.070E-05	4.714E-05	93	4.455	-1.836E-05	3.182E-06	-7.590E-06
45	1.210	2.371E-05	6.960E-05	4.665E-05	94	4.550	-1.834E-05	2.338E-06	-8.003E-06
46	1.250	2.250E-05	8.038E-05	5.144E-05	95	4.650	-1.255E-05	6.026E-06	-3.264E-06
47	1.295	3.355E-05	7.787E-05	5.571E-05	96	4.750	-4.846E-06	1.128E-05	3.215E-06
48	1.345	3.361E-05	8.683E-05	6.022E-05	97	4.850	1.189E-06	1.406E-05	7.623E-06
49	1.395	3.879E-05	1.009E-04	6.982E-05	98	4.950	4.234E-06	1.292E-05	8.577E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 17 SEC

COUNTING TIME : 8 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.620E-02	1.659E-01	1.061E-01	50	1.445	1.119E-02	1.483E-02	1.301E-02
2	0.111	4.111E-02	1.838E-01	1.125E-01	51	1.495	9.213E-03	1.255E-02	1.088E-02
3	0.117	5.160E-03	1.702E-01	8.766E-02	52	1.545	9.389E-03	1.276E-02	1.108E-02
4	0.125	8.589E-03	9.945E-02	5.402E-02	53	1.595	7.279E-03	1.056E-02	8.921E-03
5	0.135	1.215E-02	6.432E-02	3.823E-02	54	1.645	6.303E-03	9.545E-03	7.924E-03
6	0.145	-1.051E-02	7.531E-02	3.240E-02	55	1.695	7.228E-03	1.045E-02	8.839E-03
7	0.155	1.531E-02	5.369E-02	3.450E-02	56	1.745	5.141E-03	8.262E-03	6.702E-03
8	0.165	2.457E-02	4.629E-02	3.543E-02	57	1.800	3.077E-03	6.227E-03	4.652E-03
9	0.175	1.369E-02	4.755E-02	3.062E-02	58	1.860	3.882E-03	7.215E-03	5.548E-03
10	0.185	2.364E-02	3.867E-02	3.115E-02	59	1.920	6.477E-03	1.003E-02	8.252E-03
11	0.200	2.902E-02	3.832E-02	3.367E-02	60	1.980	4.844E-03	7.891E-03	6.367E-03
12	0.220	3.394E-02	4.328E-02	3.861E-02	61	2.040	4.907E-03	8.067E-03	6.487E-03
13	0.240	2.957E-02	3.717E-02	3.337E-02	62	2.100	5.115E-03	8.358E-03	6.736E-03
14	0.260	2.453E-02	3.085E-02	2.769E-02	63	2.160	3.949E-03	7.018E-03	5.483E-03
15	0.280	2.359E-02	2.933E-02	2.646E-02	64	2.220	1.618E-03	4.452E-03	3.035E-03
16	0.300	1.952E-02	2.483E-02	2.218E-02	65	2.280	1.709E-03	4.764E-03	3.236E-03
17	0.320	1.911E-02	2.436E-02	2.174E-02	66	2.340	1.370E-03	4.492E-03	2.931E-03
18	0.340	2.113E-02	2.651E-02	2.382E-02	67	2.405	2.592E-03	6.042E-03	4.317E-03
19	0.360	2.493E-02	3.062E-02	2.778E-02	68	2.475	2.867E-03	6.045E-03	4.456E-03
20	0.380	3.124E-02	3.708E-02	3.416E-02	69	2.545	1.223E-03	4.274E-03	2.748E-03
21	0.400	3.547E-02	4.146E-02	3.847E-02	70	2.615	1.758E-03	4.695E-03	3.227E-03
22	0.420	2.907E-02	3.447E-02	3.177E-02	71	2.685	1.898E-03	4.940E-03	3.419E-03
23	0.445	2.114E-02	2.613E-02	2.363E-02	72	2.755	2.618E-03	5.658E-03	4.138E-03
24	0.475	1.697E-02	2.179E-02	1.938E-02	73	2.825	2.758E-03	5.750E-03	4.254E-03
25	0.505	2.217E-02	2.710E-02	2.463E-02	74	2.895	2.081E-03	5.324E-03	3.702E-03
26	0.535	2.836E-02	3.332E-02	3.084E-02	75	2.965	9.483E-04	3.841E-03	2.394E-03
27	0.565	2.499E-02	2.981E-02	2.740E-02	76	3.035	1.047E-04	3.154E-03	1.629E-03
28	0.595	2.708E-02	3.179E-02	2.944E-02	77	3.110	-3.428E-04	2.410E-03	1.033E-03
29	0.625	2.032E-02	2.477E-02	2.254E-02	78	3.190	-1.915E-03	8.291E-04	-5.430E-04
30	0.655	1.880E-02	2.305E-02	2.093E-02	79	3.270	-1.735E-03	8.798E-04	-4.274E-04
31	0.685	1.369E-02	1.772E-02	1.571E-02	80	3.350	-9.565E-04	1.458E-03	2.509E-04
32	0.715	1.473E-02	1.881E-02	1.677E-02	81	3.430	-2.017E-04	2.284E-03	1.041E-03
33	0.745	1.681E-02	2.110E-02	1.896E-02	82	3.510	1.232E-03	3.387E-03	2.309E-03
34	0.775	2.001E-02	2.431E-02	2.216E-02	83	3.590	9.936E-04	3.164E-03	2.079E-03
35	0.810	1.915E-02	2.349E-02	2.132E-02	84	3.670	9.754E-04	3.031E-03	2.003E-03
36	0.850	1.707E-02	2.125E-02	1.916E-02	85	3.750	3.761E-04	2.101E-03	1.239E-03
37	0.890	1.406E-02	1.810E-02	1.608E-02	86	3.830	-4.237E-04	1.431E-03	5.037E-04
38	0.930	1.083E-02	1.482E-02	1.282E-02	87	3.915	9.742E-05	1.894E-03	9.957E-04
39	0.970	1.333E-02	1.738E-02	1.535E-02	88	4.005	3.035E-04	2.130E-03	1.217E-03
40	1.010	1.269E-02	1.686E-02	1.477E-02	89	4.095	6.802E-04	2.330E-03	1.505E-03
41	1.050	1.205E-02	1.603E-02	1.404E-02	90	4.185	1.757E-03	3.628E-03	2.693E-03
42	1.090	1.286E-02	1.679E-02	1.483E-02	91	4.275	1.459E-03	3.413E-03	2.436E-03
43	1.130	1.654E-02	2.037E-02	1.845E-02	92	4.365	1.130E-04	1.956E-03	1.035E-03
44	1.170	1.264E-02	1.612E-02	1.438E-02	93	4.455	-1.642E-03	2.012E-04	-7.202E-04
45	1.210	7.588E-03	1.072E-02	9.154E-03	94	4.550	-2.877E-03	-1.046E-03	-1.961E-03
46	1.250	8.522E-03	1.296E-02	1.074E-02	95	4.650	-2.714E-03	-9.217E-04	-1.818E-03
47	1.295	1.112E-02	1.432E-02	1.272E-02	96	4.750	-1.363E-03	1.439E-04	-6.097E-04
48	1.345	1.037E-02	1.384E-02	1.210E-02	97	4.850	5.216E-04	1.615E-03	1.068E-03
49	1.395	1.145E-02	1.503E-02	1.324E-02	98	4.950	1.607E-03	2.510E-03	2.058E-03

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 35 SEC

COUNTING TIME : 10 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	2.714E-02	9.674E-02	6.194E-02	50 1.445	7.305E-03	9.796E-03	8.550E-03
2 0.111	2.467E-02	1.076E-01	6.614E-02	51 1.495	5.428E-03	7.675E-03	6.551E-03
3 0.117	3.031E-03	9.879E-02	5.091E-02	52 1.545	6.576E-03	8.889E-03	7.733E-03
4 0.125	2.571E-03	5.518E-02	2.888E-02	53 1.595	5.306E-03	7.588E-03	6.447E-03
5 0.135	4.307E-03	3.526E-02	1.978E-02	54 1.645	3.661E-03	5.698E-03	4.679E-03
6 0.145	-6.781E-03	4.388E-02	1.855E-02	55 1.695	3.125E-03	5.203E-03	4.164E-03
7 0.155	5.502E-03	2.816E-02	1.683E-02	56 1.745	2.472E-03	4.491E-03	3.482E-03
8 0.165	9.171E-03	2.315E-02	1.616E-02	57 1.800	1.989E-03	4.052E-03	3.020E-03
9 0.175	5.343E-03	2.689E-02	1.611E-02	58 1.860	9.472E-04	3.012E-03	1.980E-03
10 0.185	1.238E-02	2.215E-02	1.727E-02	59 1.920	1.939E-03	4.095E-03	3.017E-03
11 0.200	1.757E-02	2.383E-02	2.070E-02	60 1.980	1.882E-03	3.901E-03	2.892E-03
12 0.220	2.063E-02	2.689E-02	2.376E-02	61 2.040	2.948E-03	5.078E-03	4.013E-03
13 0.240	1.581E-02	2.090E-02	1.836E-02	62 2.100	1.981E-03	4.078E-03	3.029E-03
14 0.260	1.208E-02	1.630E-02	1.419E-02	63 2.160	3.908E-04	2.327E-03	1.359E-03
15 0.280	1.225E-02	1.613E-02	1.419E-02	64 2.220	3.716E-04	2.284E-03	1.328E-03
16 0.300	1.156E-02	1.522E-02	1.339E-02	65 2.280	1.261E-03	3.280E-03	2.270E-03
17 0.320	1.118E-02	1.480E-02	1.299E-02	66 2.340	3.467E-04	2.319E-03	1.333E-03
18 0.340	1.301E-02	1.675E-02	1.488E-02	67 2.405	1.260E-04	2.278E-03	1.202E-03
19 0.360	1.577E-02	1.974E-02	1.775E-02	68 2.475	8.715E-04	2.981E-03	1.926E-03
20 0.380	1.780E-02	2.181E-02	1.981E-02	69 2.545	8.201E-04	2.905E-03	1.862E-03
21 0.400	2.067E-02	2.481E-02	2.274E-02	70 2.615	2.697E-03	4.838E-03	3.768E-03
22 0.420	1.814E-02	2.189E-02	2.002E-02	71 2.685	1.923E-03	3.988E-03	2.955E-03
23 0.445	1.148E-02	1.485E-02	1.316E-02	72 2.755	1.357E-03	3.433E-03	2.395E-03
24 0.475	7.747E-03	1.099E-02	9.368E-03	73 2.825	1.013E-03	2.956E-03	1.985E-03
25 0.505	1.313E-02	1.654E-02	1.484E-02	74 2.895	3.462E-04	2.436E-03	1.391E-03
26 0.535	1.653E-02	1.996E-02	1.824E-02	75 2.965	5.155E-04	2.478E-03	1.497E-03
27 0.565	1.651E-02	1.990E-02	1.820E-02	76 3.035	1.669E-04	2.202E-03	1.185E-03
28 0.595	1.465E-02	1.785E-02	1.625E-02	77 3.110	-9.272E-04	8.198E-04	-5.366E-05
29 0.625	1.127E-02	1.432E-02	1.280E-02	78 3.190	-7.639E-04	1.201E-03	2.187E-04
30 0.655	1.013E-02	1.304E-02	1.159E-02	79 3.270	-1.227E-03	5.620E-04	-3.323E-04
31 0.685	9.597E-03	1.249E-02	1.104E-02	80 3.350	-1.170E-03	4.452E-04	-3.623E-04
32 0.715	9.357E-03	1.221E-02	1.078E-02	81 3.430	-5.648E-04	1.104E-03	2.694E-04
33 0.745	1.131E-02	1.431E-02	1.281E-02	82 3.510	2.495E-05	1.596E-03	8.103E-04
34 0.775	9.775E-03	1.265E-02	1.121E-02	83 3.590	2.940E-04	1.807E-03	1.050E-03
35 0.810	1.089E-02	1.386E-02	1.238E-02	84 3.670	4.205E-04	1.884E-03	1.152E-03
36 0.850	8.880E-03	1.173E-02	1.031E-02	85 3.750	4.085E-04	1.771E-03	1.090E-03
37 0.890	6.968E-03	9.735E-03	8.352E-03	86 3.830	5.311E-05	1.423E-03	7.381E-04
38 0.930	8.430E-03	1.134E-02	9.884E-03	87 3.915	4.342E-05	1.455E-03	7.494E-04
39 0.970	7.103E-03	9.846E-03	8.474E-03	88 4.005	3.996E-04	1.784E-03	1.092E-03
40 1.010	6.991E-03	9.877E-03	8.434E-03	89 4.095	6.167E-04	1.921E-03	1.269E-03
41 1.050	5.878E-03	8.557E-03	7.218E-03	90 4.185	3.628E-04	1.809E-03	1.086E-03
42 1.090	7.018E-03	9.705E-03	8.361E-03	91 4.275	-3.188E-04	1.191E-03	4.360E-04
43 1.130	8.333E-03	1.090E-02	9.617E-03	92 4.365	-9.203E-04	4.990E-04	-2.107E-04
44 1.170	7.815E-03	1.025E-02	9.033E-03	93 4.455	-1.588E-03	-1.191E-04	-8.534E-04
45 1.210	6.309E-03	8.601E-03	7.455E-03	94 4.550	-1.835E-03	-4.258E-04	-1.130E-03
46 1.250	6.810E-03	9.985E-03	8.397E-03	95 4.650	-1.195E-03	2.673E-04	-4.639E-04
47 1.295	8.243E-03	1.053E-02	9.384E-03	96 4.750	-7.765E-05	1.052E-03	4.870E-04
48 1.345	7.295E-03	9.704E-03	8.499E-03	97 4.850	7.451E-04	1.572E-03	1.158E-03
49 1.395	7.156E-03	9.576E-03	8.366E-03	98 4.950	9.519E-04	1.626E-03	1.289E-03

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 55 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.090E-02	6.543E-02	4.316E-02	50	1.445	5.931E-03	7.375E-03	6.653E-03
2	0.111	1.820E-02	7.197E-02	4.508E-02	51	1.495	4.998E-03	6.340E-03	5.669E-03
3	0.117	3.317E-03	6.412E-02	3.372E-02	52	1.545	4.210E-03	5.475E-03	4.842E-03
4	0.125	1.368E-03	3.512E-02	1.824E-02	53	1.595	3.408E-03	4.675E-03	4.041E-03
5	0.135	1.878E-03	2.024E-02	1.106E-02	54	1.645	2.507E-03	3.678E-03	3.093E-03
6	0.145	5.738E-03	2.469E-02	9.475E-03	55	1.695	1.879E-03	3.007E-03	2.443E-03
7	0.155	3.410E-03	1.695E-02	1.018E-02	56	1.745	1.469E-03	2.593E-03	2.031E-03
8	0.165	7.214E-03	1.534E-02	1.128E-02	57	1.800	1.373E-03	2.526E-03	1.949E-03
9	0.175	4.868E-03	1.747E-02	1.117E-02	58	1.860	8.631E-04	2.029E-03	1.446E-03
10	0.185	8.912E-03	1.455E-02	1.173E-02	59	1.920	2.140E-03	3.366E-03	2.753E-03
11	0.200	1.120E-02	1.473E-02	1.296E-02	60	1.980	1.282E-03	2.399E-03	1.841E-03
12	0.220	1.364E-02	1.716E-02	1.540E-02	61	2.040	1.017E-03	2.088E-03	1.553E-03
13	0.240	9.336E-03	1.215E-02	1.074E-02	62	2.100	7.756E-04	1.919E-03	1.347E-03
14	0.260	6.454E-03	8.783E-03	7.619E-03	63	2.160	7.470E-04	1.886E-03	1.317E-03
15	0.280	8.505E-03	1.070E-02	9.604E-03	64	2.220	1.482E-03	2.633E-03	2.058E-03
16	0.300	8.168E-03	1.024E-02	9.206E-03	65	2.280	4.734E-04	1.563E-03	1.018E-03
17	0.320	7.086E-03	9.118E-03	8.102E-03	66	2.340	3.565E-04	1.480E-03	9.181E-04
18	0.340	7.588E-03	9.671E-03	8.630E-03	67	2.405	5.665E-04	1.764E-03	1.165E-03
19	0.360	9.993E-03	1.224E-02	1.112E-02	68	2.475	9.276E-04	2.031E-03	1.479E-03
20	0.380	1.454E-02	1.690E-02	1.572E-02	69	2.545	2.848E-04	1.349E-03	8.170E-04
21	0.400	1.592E-02	1.833E-02	1.713E-02	70	2.615	8.919E-04	2.021E-03	1.456E-03
22	0.420	1.285E-02	1.499E-02	1.392E-02	71	2.685	1.248E-03	2.390E-03	1.819E-03
23	0.445	8.617E-03	1.057E-02	9.592E-03	72	2.755	1.353E-03	2.479E-03	1.916E-03
24	0.475	6.996E-03	8.863E-03	7.930E-03	73	2.825	1.310E-03	2.410E-03	1.860E-03
25	0.505	7.760E-03	9.627E-03	8.693E-03	74	2.895	2.860E-04	1.329E-03	8.074E-04
26	0.535	1.016E-02	1.205E-02	1.110E-02	75	2.965	5.035E-04	3.653E-04	6.911E-05
27	0.565	1.015E-02	1.203E-02	1.109E-02	76	3.035	1.713E-04	8.390E-04	3.339E-04
28	0.595	1.127E-02	1.312E-02	1.220E-02	77	3.110	2.046E-04	7.128E-04	2.541E-04
29	0.625	8.221E-03	9.973E-03	9.097E-03	78	3.190	2.876E-04	6.237E-04	1.681E-04
30	0.655	7.679E-03	9.347E-03	8.513E-03	79	3.270	6.390E-05	8.641E-04	4.001E-04
31	0.685	6.630E-03	8.242E-03	7.436E-03	80	3.350	2.162E-04	6.448E-04	2.143E-04
32	0.715	5.481E-03	7.016E-03	6.249E-03	81	3.430	5.702E-05	8.168E-04	3.799E-04
33	0.745	4.664E-03	6.212E-03	5.438E-03	82	3.510	1.830E-04	9.525E-04	5.678E-04
34	0.775	4.573E-03	6.102E-03	5.338E-03	83	3.590	6.532E-05	8.272E-04	4.462E-04
35	0.810	6.119E-03	7.738E-03	6.929E-03	84	3.670	2.423E-04	9.103E-04	5.763E-04
36	0.850	4.987E-03	6.552E-03	5.769E-03	85	3.750	1.069E-04	7.789E-04	4.429E-04
37	0.890	5.366E-03	6.963E-03	6.164E-03	86	3.830	2.548E-04	3.740E-04	5.960E-05
38	0.930	4.542E-03	6.130E-03	5.336E-03	87	3.915	1.252E-05	6.242E-04	3.183E-04
39	0.970	5.578E-03	7.189E-03	6.383E-03	88	4.005	2.326E-04	8.701E-04	5.513E-04
40	1.010	4.881E-03	6.502E-03	5.691E-03	89	4.095	1.332E-04	6.615E-04	3.973E-04
41	1.050	3.882E-03	5.380E-03	4.631E-03	90	4.185	3.390E-04	9.008E-04	6.199E-04
42	1.090	3.784E-03	5.241E-03	4.513E-03	91	4.275	3.553E-04	9.388E-04	6.471E-04
43	1.130	4.440E-03	5.850E-03	5.145E-03	92	4.365	4.476E-06	5.405E-04	2.725E-04
44	1.170	3.704E-03	5.026E-03	4.365E-03	93	4.455	4.259E-04	8.890E-05	1.685E-04
45	1.210	3.497E-03	4.747E-03	4.122E-03	94	4.550	6.746E-04	1.919E-04	4.332E-04
46	1.250	3.631E-03	5.405E-03	4.518E-03	95	4.650	5.359E-04	4.777E-05	2.918E-04
47	1.295	4.670E-03	5.913E-03	5.292E-03	96	4.750	1.461E-04	2.382E-04	4.604E-05
48	1.345	5.958E-03	7.425E-03	6.692E-03	97	4.850	2.143E-04	4.978E-04	3.561E-04
49	1.395	6.090E-03	7.550E-03	6.820E-03	98	4.950	3.897E-04	6.034E-04	4.965E-04



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 95 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.479E-02	4.481E-02	2.980E-02	50	1.445	3.748E-03	4.904E-03	4.326E-03
2	0.111	1.313E-02	4.935E-02	3.124E-02	51	1.495	2.222E-03	3.245E-03	2.734E-03
3	0.117	2.855E-03	4.364E-02	2.325E-02	52	1.545	2.336E-03	3.329E-03	2.832E-03
4	0.125	7.108E-04	2.336E-02	1.204E-02	53	1.595	2.211E-03	3.203E-03	2.707E-03
5	0.135	7.439E-04	1.298E-02	6.864E-03	54	1.645	1.237E-03	2.140E-03	1.688E-03
6	0.145	-4.199E-03	1.599E-02	5.896E-03	55	1.695	1.326E-03	2.210E-03	1.768E-03
7	0.155	1.080E-03	1.007E-02	5.575E-03	56	1.745	1.236E-03	2.192E-03	1.714E-03
8	0.165	3.269E-03	9.260E-03	6.265E-03	57	1.800	7.889E-04	1.677E-03	1.233E-03
9	0.175	2.751E-03	1.187E-02	7.311E-03	58	1.860	8.999E-04	1.807E-03	1.353E-03
10	0.185	6.207E-03	1.042E-02	8.314E-03	59	1.920	-6.033E-05	8.153E-04	3.775E-04
11	0.200	7.931E-03	1.068E-02	9.305E-03	60	1.980	6.219E-04	1.497E-03	1.060E-03
12	0.220	7.790E-03	1.050E-02	9.146E-03	61	2.040	8.039E-04	1.708E-03	1.256E-03
13	0.240	5.154E-03	7.350E-03	6.252E-03	62	2.100	4.302E-04	1.270E-03	8.501E-04
14	0.260	3.554E-03	5.385E-03	4.470E-03	63	2.160	1.657E-04	1.034E-03	5.997E-04
15	0.280	4.469E-03	6.180E-03	5.324E-03	64	2.220	3.642E-04	1.207E-03	7.854E-04
16	0.300	4.638E-03	6.278E-03	5.458E-03	65	2.280	5.707E-04	1.484E-03	1.027E-03
17	0.320	4.813E-03	6.455E-03	5.634E-03	66	2.340	5.060E-04	1.348E-03	9.272E-04
18	0.340	5.280E-03	6.949E-03	6.114E-03	67	2.405	2.125E-04	1.114E-03	6.631E-04
19	0.360	5.359E-03	7.093E-03	6.226E-03	68	2.475	7.028E-04	1.596E-03	1.149E-03
20	0.380	6.326E-03	8.098E-03	7.212E-03	69	2.545	1.044E-03	1.928E-03	1.486E-03
21	0.400	8.808E-03	1.071E-02	9.760E-03	70	2.615	4.299E-04	1.221E-03	8.255E-04
22	0.420	8.745E-03	1.051E-02	9.628E-03	71	2.685	1.801E-04	1.026E-03	6.030E-04
23	0.445	6.421E-03	8.026E-03	7.224E-03	72	2.755	5.612E-04	1.377E-03	9.692E-04
24	0.475	4.967E-03	6.471E-03	5.719E-03	73	2.825	2.802E-04	1.044E-03	6.621E-04
25	0.505	3.714E-03	5.144E-03	4.429E-03	74	2.895	4.435E-05	8.138E-04	4.291E-04
26	0.535	4.475E-03	5.897E-03	5.186E-03	75	2.965	3.689E-05	8.444E-04	4.406E-04
27	0.565	6.864E-03	8.394E-03	7.629E-03	76	3.035	-5.974E-04	1.307E-04	-2.333E-04
28	0.595	6.862E-03	8.323E-03	7.592E-03	77	3.110	-6.613E-04	2.711E-05	-3.171E-04
29	0.625	4.108E-03	5.439E-03	4.774E-03	78	3.190	-1.886E-04	5.883E-04	1.999E-04
30	0.655	2.952E-03	4.189E-03	3.571E-03	79	3.270	-3.334E-04	3.945E-04	3.057E-05
31	0.685	4.084E-03	5.377E-03	4.730E-03	80	3.350	-4.013E-04	2.462E-04	-7.754E-05
32	0.715	4.100E-03	5.367E-03	4.734E-03	81	3.430	-2.857E-04	3.536E-04	3.392E-05
33	0.745	3.099E-03	4.328E-03	3.714E-03	82	3.510	-1.766E-05	6.235E-04	3.029E-04
34	0.775	2.721E-03	3.911E-03	3.316E-03	83	3.590	4.607E-04	1.110E-03	7.852E-04
35	0.810	2.649E-03	3.886E-03	3.267E-03	84	3.670	5.789E-04	1.208E-03	8.936E-04
36	0.850	3.250E-03	4.511E-03	3.881E-03	85	3.750	1.233E-04	6.408E-04	3.821E-04
37	0.890	3.128E-03	4.372E-03	3.750E-03	86	3.830	-1.659E-04	3.485E-04	9.129E-05
38	0.930	2.963E-03	4.251E-03	3.607E-03	87	3.915	-8.414E-06	5.014E-04	2.465E-04
39	0.970	2.910E-03	4.156E-03	3.533E-03	88	4.005	3.681E-05	5.465E-04	2.917E-04
40	1.010	3.486E-03	4.787E-03	4.136E-03	89	4.095	-2.723E-05	4.133E-04	1.930E-04
41	1.050	1.960E-03	3.124E-03	2.542E-03	90	4.185	-5.059E-05	4.041E-04	1.768E-04
42	1.090	2.500E-03	3.658E-03	3.079E-03	91	4.275	-5.971E-05	4.448E-04	1.926E-04
43	1.130	2.333E-03	3.422E-03	2.877E-03	92	4.365	-1.486E-04	3.227E-04	8.708E-05
44	1.170	2.243E-03	3.283E-03	2.763E-03	93	4.455	-2.796E-04	1.518E-04	-6.390E-05
45	1.210	2.309E-03	3.314E-03	2.812E-03	94	4.550	-2.876E-04	8.466E-05	-1.015E-04
46	1.250	1.315E-03	2.623E-03	1.969E-03	95	4.650	-1.805E-04	2.025E-04	1.104E-05
47	1.295	2.274E-03	3.227E-03	2.751E-03	96	4.750	-1.187E-05	3.072E-04	1.477E-04
48	1.345	2.525E-03	3.620E-03	3.072E-03	97	4.850	1.315E-04	3.441E-04	2.378E-04
49	1.395	3.285E-03	4.416E-03	3.850E-03	98	4.950	1.862E-04	3.357E-04	2.609E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 155 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.156E-02	3.051E-02	2.103E-02	50	1.445	1.418E-03	1.945E-03	1.681E-03
2	0.111	1.062E-02	3.386E-02	2.224E-02	51	1.495	9.614E-04	1.455E-03	1.208E-03
3	0.117	3.425E-03	2.899E-02	1.621E-02	52	1.545	8.109E-04	1.261E-03	1.036E-03
4	0.125	2.861E-05	1.433E-02	7.178E-03	53	1.595	7.622E-04	1.228E-03	9.949E-04
5	0.135	-3.922E-04	6.708E-03	3.158E-03	54	1.645	4.756E-04	8.972E-04	6.864E-04
6	0.145	-2.363E-03	9.515E-03	3.576E-03	55	1.695	6.621E-04	1.110E-03	8.863E-04
7	0.155	1.372E-03	6.647E-03	4.010E-03	56	1.745	5.284E-04	9.582E-04	7.433E-04
8	0.165	2.979E-03	6.407E-03	4.693E-03	57	1.800	2.965E-04	7.098E-04	5.031E-04
9	0.175	2.903E-03	8.134E-03	5.519E-03	58	1.860	2.597E-04	7.126E-04	4.861E-04
10	0.185	4.378E-03	6.760E-03	5.569E-03	59	1.920	2.260E-04	6.763E-04	4.512E-04
11	0.200	4.741E-03	6.254E-03	5.497E-03	60	1.980	4.542E-04	8.845E-04	6.693E-04
12	0.220	4.120E-03	5.636E-03	4.878E-03	61	2.040	4.284E-04	8.500E-04	6.392E-04
13	0.240	3.246E-03	4.494E-03	3.870E-03	62	2.100	1.897E-04	6.077E-04	3.987E-04
14	0.260	2.912E-03	3.962E-03	3.437E-03	63	2.160	5.543E-05	4.450E-04	2.502E-04
15	0.280	3.264E-03	4.229E-03	3.746E-03	64	2.220	8.342E-05	4.716E-04	2.775E-04
16	0.300	3.498E-03	4.415E-03	3.957E-03	65	2.280	1.721E-04	5.692E-04	3.707E-04
17	0.320	2.916E-03	3.802E-03	3.359E-03	66	2.340	1.777E-04	6.002E-04	3.890E-04
18	0.340	2.496E-03	3.365E-03	2.930E-03	67	2.405	3.363E-04	7.779E-04	5.571E-04
19	0.360	2.512E-03	3.407E-03	2.960E-03	68	2.475	1.786E-04	5.924E-04	3.855E-04
20	0.380	3.124E-03	4.042E-03	3.583E-03	69	2.545	8.973E-05	4.854E-04	2.876E-04
21	0.400	4.424E-03	5.423E-03	4.924E-03	70	2.615	1.518E-04	5.835E-04	3.677E-04
22	0.420	4.726E-03	5.685E-03	5.205E-03	71	2.685	2.123E-05	4.116E-04	2.164E-04
23	0.445	4.644E-03	5.556E-03	5.100E-03	72	2.755	4.334E-05	4.291E-04	2.362E-04
24	0.475	4.093E-03	4.947E-03	4.520E-03	73	2.825	3.261E-05	4.295E-04	2.311E-04
25	0.505	2.444E-03	3.212E-03	2.828E-03	74	2.895	4.761E-05	4.543E-04	2.510E-04
26	0.535	1.739E-03	2.462E-03	2.101E-03	75	2.965	-7.212E-06	3.960E-04	1.944E-04
27	0.565	3.330E-03	4.116E-03	3.723E-03	76	3.035	-3.205E-06	3.853E-04	1.910E-04
28	0.595	3.994E-03	4.781E-03	4.388E-03	77	3.110	6.332E-06	3.898E-04	1.981E-04
29	0.625	2.800E-03	3.524E-03	3.162E-03	78	3.190	-2.225E-04	1.353E-04	-4.362E-05
30	0.655	1.854E-03	2.519E-03	2.187E-03	79	3.270	-2.177E-04	1.653E-04	-2.619E-05
31	0.685	1.953E-03	2.627E-03	2.290E-03	80	3.350	-2.705E-04	9.960E-05	-8.544E-05
32	0.715	3.105E-03	3.814E-03	3.460E-03	81	3.430	-3.394E-04	2.980E-05	-1.548E-04
33	0.745	2.424E-03	3.105E-03	2.764E-03	82	3.510	-8.502E-05	2.277E-04	7.133E-05
34	0.775	1.683E-03	2.318E-03	2.001E-03	83	3.590	1.182E-04	4.228E-04	2.705E-04
35	0.810	2.068E-03	2.737E-03	2.403E-03	84	3.670	1.032E-04	3.842E-04	2.437E-04
36	0.850	1.979E-03	2.641E-03	2.310E-03	85	3.750	8.510E-05	3.288E-04	2.069E-04
37	0.890	1.887E-03	2.549E-03	2.218E-03	86	3.830	1.247E-04	3.979E-04	2.613E-04
38	0.930	2.061E-03	2.744E-03	2.403E-03	87	3.915	1.595E-04	4.045E-04	2.820E-04
39	0.970	2.140E-03	2.802E-03	2.471E-03	88	4.005	2.521E-05	2.624E-04	1.438E-04
40	1.010	1.754E-03	2.417E-03	2.086E-03	89	4.095	-3.253E-05	1.808E-04	7.413E-05
41	1.050	1.443E-03	2.039E-03	1.741E-03	90	4.185	6.806E-06	2.363E-04	1.216E-04
42	1.090	1.279E-03	1.852E-03	1.566E-03	91	4.275	-4.659E-06	2.206E-04	1.080E-04
43	1.130	1.346E-03	1.887E-03	1.617E-03	92	4.365	-6.152E-05	1.496E-04	4.402E-05
44	1.170	1.151E-03	1.660E-03	1.405E-03	93	4.455	-1.318E-04	8.649E-05	-2.264E-05
45	1.210	9.911E-04	1.468E-03	1.230E-03	94	4.550	-1.961E-04	2.469E-05	-8.569E-05
46	1.250	1.026E-03	1.686E-03	1.356E-03	95	4.650	-1.930E-04	1.711E-05	-8.796E-05
47	1.295	1.061E-03	1.524E-03	1.292E-03	96	4.750	-8.959E-05	7.002E-05	-9.787E-06
48	1.345	1.355E-03	1.896E-03	1.625E-03	97	4.850	3.201E-05	1.514E-04	9.173E-05
49	1.395	1.619E-03	2.185E-03	1.902E-03	98	4.950	9.250E-05	1.922E-04	1.424E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 255 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	9.685E-03	2.343E-02	1.656E-02	50	1.445	7.389E-04	1.055E-03	8.968E-04
2	0.111	8.401E-03	2.537E-02	1.688E-02	51	1.495	3.536E-04	6.243E-04	4.890E-04
3	0.117	2.778E-03	2.122E-02	1.200E-02	52	1.545	2.445E-04	4.988E-04	3.716E-04
4	0.125	3.424E-04	1.072E-02	5.531E-03	53	1.595	2.543E-04	5.101E-04	3.822E-04
5	0.135	-5.085E-06	4.928E-03	2.462E-03	54	1.645	1.828E-04	4.262E-04	3.045E-04
6	0.145	-1.734E-03	6.563E-03	2.415E-03	55	1.695	1.716E-04	4.093E-04	2.905E-04
7	0.155	1.778E-03	5.471E-03	3.625E-03	56	1.745	3.456E-04	6.115E-04	4.786E-04
8	0.165	2.988E-03	5.322E-03	4.155E-03	57	1.800	1.449E-04	4.007E-04	2.728E-04
9	0.175	2.138E-03	5.694E-03	3.916E-03	58	1.860	1.434E-04	4.021E-04	2.727E-04
10	0.185	3.361E-03	4.971E-03	4.166E-03	59	1.920	2.413E-04	4.924E-04	3.668E-04
11	0.200	3.351E-03	4.365E-03	3.858E-03	60	1.980	1.121E-04	3.462E-04	2.292E-04
12	0.220	2.703E-03	3.717E-03	3.210E-03	61	2.040	1.334E-04	3.732E-04	2.533E-04
13	0.240	2.288E-03	3.122E-03	2.705E-03	62	2.100	-2.350E-05	2.032E-04	8.986E-05
14	0.260	1.861E-03	2.548E-03	2.204E-03	63	2.160	-4.757E-05	1.795E-04	6.596E-05
15	0.280	1.726E-03	2.342E-03	2.034E-03	64	2.220	5.119E-05	2.794E-04	1.653E-04
16	0.300	2.093E-03	2.688E-03	2.390E-03	65	2.280	2.279E-04	4.802E-04	3.540E-04
17	0.320	2.091E-03	2.679E-03	2.385E-03	66	2.340	2.003E-04	4.431E-04	3.217E-04
18	0.340	1.625E-03	2.191E-03	1.908E-03	67	2.405	-1.496E-05	1.953E-04	9.019E-05
19	0.360	1.174E-03	1.733E-03	1.454E-03	68	2.475	-1.469E-05	1.994E-04	9.236E-05
20	0.380	1.463E-03	2.034E-03	1.749E-03	69	2.545	1.067E-04	3.405E-04	2.236E-04
21	0.400	2.337E-03	2.969E-03	2.653E-03	70	2.615	9.520E-05	3.403E-04	2.177E-04
22	0.420	2.695E-03	3.324E-03	3.009E-03	71	2.685	-5.027E-05	1.789E-04	6.431E-05
23	0.445	3.472E-03	4.093E-03	3.783E-03	72	2.755	2.407E-05	2.502E-04	1.371E-04
24	0.475	2.910E-03	3.479E-03	3.194E-03	73	2.825	4.501E-06	2.319E-04	1.182E-04
25	0.505	1.410E-03	1.904E-03	1.657E-03	74	2.895	-4.619E-05	1.897E-04	7.175E-05
26	0.535	1.096E-03	1.557E-03	1.326E-03	75	2.965	-5.057E-05	1.640E-04	5.673E-05
27	0.565	1.162E-03	1.629E-03	1.396E-03	76	3.035	-7.414E-05	1.387E-04	3.230E-05
28	0.595	1.968E-03	2.454E-03	2.211E-03	77	3.110	-2.683E-06	2.175E-04	1.074E-04
29	0.625	1.552E-03	2.019E-03	1.785E-03	78	3.190	-9.778E-05	1.171E-04	9.641E-06
30	0.655	1.314E-03	1.757E-03	1.536E-03	79	3.270	-1.467E-04	4.783E-05	-4.945E-05
31	0.685	1.575E-03	2.030E-03	1.802E-03	80	3.350	-7.899E-05	1.284E-04	2.473E-05
32	0.715	1.766E-03	2.222E-03	1.994E-03	81	3.430	-9.137E-05	1.159E-04	1.224E-05
33	0.745	1.944E-03	2.406E-03	2.175E-03	82	3.510	-9.735E-05	9.736E-05	2.556E-09
34	0.775	1.382E-03	1.802E-03	1.592E-03	83	3.590	-2.636E-05	1.597E-04	6.666E-05
35	0.810	1.011E-03	1.425E-03	1.218E-03	84	3.670	4.603E-05	2.282E-04	1.371E-04
36	0.850	1.306E-03	1.741E-03	1.523E-03	85	3.750	3.142E-05	1.899E-04	1.107E-04
37	0.890	1.530E-03	1.972E-03	1.751E-03	86	3.830	-2.031E-05	1.359E-04	5.781E-05
38	0.930	1.464E-03	1.914E-03	1.689E-03	87	3.915	-1.580E-05	1.671E-04	7.564E-05
39	0.970	1.410E-03	1.838E-03	1.624E-03	88	4.005	-2.459E-05	1.455E-04	6.044E-05
40	1.010	1.310E-03	1.739E-03	1.525E-03	89	4.095	-2.998E-05	1.062E-04	3.812E-05
41	1.050	8.907E-04	1.257E-03	1.074E-03	90	4.185	2.396E-06	1.356E-04	6.899E-05
42	1.090	7.661E-04	1.108E-03	9.373E-04	91	4.275	-7.185E-06	1.218E-04	5.732E-05
43	1.130	6.506E-04	9.686E-04	8.096E-04	92	4.365	-4.509E-05	8.040E-05	1.766E-05
44	1.170	5.242E-04	8.184E-04	6.713E-04	93	4.455	-6.032E-05	7.086E-05	5.270E-06
45	1.210	4.677E-04	7.462E-04	6.070E-04	94	4.550	-6.778E-05	5.477E-05	-6.506E-06
46	1.250	7.097E-04	1.110E-03	9.097E-04	95	4.650	-6.866E-05	3.973E-05	-1.447E-05
47	1.295	5.615E-04	8.350E-04	6.983E-04	96	4.750	-3.469E-05	5.330E-05	9.307E-06
48	1.345	6.259E-04	9.434E-04	7.846E-04	97	4.850	1.005E-05	8.478E-05	4.742E-05
49	1.395	6.627E-04	9.904E-04	8.266E-04	98	4.950	3.826E-05	9.044E-05	6.435E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 395 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.625E-03	1.933E-02	1.398E-02	50	1.445	2.913E-04	4.778E-04	3.846E-04
2	0.111	7.693E-03	2.130E-02	1.450E-02	51	1.495	2.666E-04	4.360E-04	3.513E-04
3	0.117	2.992E-03	1.731E-02	1.015E-02	52	1.545	6.481E-05	2.006E-04	1.327E-04
4	0.125	8.233E-06	8.094E-03	4.051E-03	53	1.595	1.550E-04	3.086E-04	2.318E-04
5	0.135	-7.569E-05	3.544E-03	1.734E-03	54	1.645	1.345E-04	2.790E-04	2.068E-04
6	0.145	-6.802E-04	5.460E-03	2.390E-03	55	1.695	1.525E-04	2.995E-04	2.260E-04
7	0.155	1.410E-03	4.135E-03	2.772E-03	56	1.745	2.245E-04	3.768E-04	3.007E-04
8	0.165	2.368E-03	3.989E-03	3.178E-03	57	1.800	7.284E-05	2.149E-04	1.438E-04
9	0.175	2.342E-03	4.832E-03	3.587E-03	58	1.860	5.735E-05	2.026E-04	1.300E-04
10	0.185	2.740E-03	3.855E-03	3.298E-03	59	1.920	4.566E-05	1.819E-04	1.138E-04
11	0.200	2.708E-03	3.394E-03	3.051E-03	60	1.980	-7.643E-05	4.009E-05	-1.817E-05
12	0.220	2.117E-03	2.803E-03	2.460E-03	61	2.040	1.105E-05	1.469E-04	7.900E-05
13	0.240	1.804E-03	2.367E-03	2.085E-03	62	2.100	7.602E-05	2.185E-04	1.473E-04
14	0.260	1.580E-03	2.042E-03	1.811E-03	63	2.160	8.245E-05	2.229E-04	1.526E-04
15	0.280	1.468E-03	1.879E-03	1.674E-03	64	2.220	4.063E-05	1.817E-04	1.112E-04
16	0.300	1.369E-03	1.753E-03	1.561E-03	65	2.280	5.140E-05	1.927E-04	1.220E-04
17	0.320	1.345E-03	1.720E-03	1.532E-03	66	2.340	1.164E-04	2.578E-04	1.871E-04
18	0.340	9.430E-04	1.305E-03	1.124E-03	67	2.405	-9.860E-06	1.152E-04	5.268E-05
19	0.360	8.753E-04	1.236E-03	1.056E-03	68	2.475	1.799E-05	1.475E-04	8.277E-05
20	0.380	1.070E-03	1.434E-03	1.252E-03	69	2.545	2.697E-05	1.594E-04	9.320E-05
21	0.400	1.167E-03	1.557E-03	1.362E-03	70	2.615	-1.864E-05	1.060E-04	4.368E-05
22	0.420	1.521E-03	1.920E-03	1.720E-03	71	2.685	-3.377E-05	9.571E-05	3.097E-05
23	0.445	2.717E-03	3.134E-03	2.926E-03	72	2.755	-8.266E-05	3.533E-05	-2.366E-05
24	0.475	2.413E-03	2.796E-03	2.605E-03	73	2.825	-6.266E-05	4.314E-05	-9.760E-06
25	0.505	1.219E-03	1.546E-03	1.382E-03	74	2.895	-9.139E-07	1.233E-04	6.118E-05
26	0.535	5.652E-04	8.532E-04	7.092E-04	75	2.965	2.807E-05	1.487E-04	8.840E-05
27	0.565	7.180E-04	1.016E-03	8.668E-04	76	3.035	4.754E-06	1.263E-04	6.554E-05
28	0.595	1.196E-03	1.506E-03	1.351E-03	77	3.110	-4.786E-05	5.712E-05	4.629E-06
29	0.625	1.038E-03	1.339E-03	1.189E-03	78	3.190	-3.086E-05	8.773E-05	2.844E-05
30	0.655	9.647E-04	1.251E-03	1.108E-03	79	3.270	1.974E-05	1.396E-04	7.968E-05
31	0.685	1.032E-03	1.320E-03	1.176E-03	80	3.350	-2.184E-05	8.403E-05	3.110E-05
32	0.715	1.233E-03	1.523E-03	1.378E-03	81	3.430	-1.821E-05	7.401E-05	2.790E-05
33	0.745	1.128E-03	1.416E-03	1.272E-03	82	3.510	-2.792E-05	7.047E-05	2.128E-05
34	0.775	9.183E-04	1.183E-03	1.051E-03	83	3.590	-4.132E-05	6.427E-05	1.147E-05
35	0.810	6.372E-04	9.031E-04	7.702E-04	84	3.670	-6.999E-06	9.532E-05	4.416E-05
36	0.850	9.816E-04	1.262E-03	1.122E-03	85	3.750	-1.498E-05	7.076E-05	2.789E-05
37	0.890	1.159E-03	1.450E-03	1.304E-03	86	3.830	-3.923E-05	3.824E-05	-4.962E-07
38	0.930	1.163E-03	1.457E-03	1.310E-03	87	3.915	-3.554E-05	4.825E-05	6.355E-06
39	0.970	9.361E-04	1.204E-03	1.070E-03	88	4.005	-2.826E-05	5.530E-05	1.352E-05
40	1.010	8.077E-04	1.076E-03	9.417E-04	89	4.095	-2.651E-05	5.727E-05	1.538E-05
41	1.050	6.117E-04	8.437E-04	7.277E-04	90	4.185	-1.357E-05	6.497E-05	2.570E-05
42	1.090	5.666E-04	7.831E-04	6.749E-04	91	4.275	3.116E-06	6.919E-05	3.615E-05
43	1.130	4.632E-04	6.645E-04	5.638E-04	92	4.365	-3.243E-06	5.615E-05	2.645E-05
44	1.170	3.473E-04	5.243E-04	4.358E-04	93	4.455	-1.170E-05	4.648E-05	1.739E-05
45	1.210	2.450E-04	4.150E-04	3.300E-04	94	4.550	-1.967E-05	3.581E-05	8.071E-06
46	1.250	2.902E-04	5.308E-04	4.105E-04	95	4.650	-2.549E-05	1.860E-05	-3.448E-06
47	1.295	4.528E-04	6.242E-04	5.385E-04	96	4.750	-1.716E-05	1.565E-05	-7.546E-07
48	1.345	3.152E-04	4.989E-04	4.070E-04	97	4.850	1.139E-07	2.386E-05	1.199E-05
49	1.395	2.495E-04	4.354E-04	3.425E-04	98	4.950	1.081E-05	2.953E-05	2.017E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 595 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.420E-03	1.606E-02	1.174E-02	50	1.445	1.833E-04	2.974E-04	2.404E-04
2	0.111	6.477E-03	1.754E-02	1.201E-02	51	1.495	1.237E-04	2.206E-04	1.721E-04
3	0.117	2.668E-03	1.425E-02	8.461E-03	52	1.545	3.778E-05	1.247E-04	8.126E-05
4	0.125	4.381E-04	6.996E-03	3.717E-03	53	1.595	5.429E-05	1.429E-04	9.860E-05
5	0.135	3.503E-04	3.055E-03	1.703E-03	54	1.645	1.025E-04	1.862E-04	1.443E-04
6	0.145	-4.383E-04	4.201E-03	1.882E-03	55	1.695	8.460E-05	1.695E-04	1.271E-04
7	0.155	1.337E-03	3.423E-03	2.380E-03	56	1.745	6.155E-05	1.444E-04	1.030E-04
8	0.165	2.128E-03	3.180E-03	2.654E-03	57	1.800	6.847E-05	1.543E-04	1.114E-04
9	0.175	1.833E-03	3.485E-03	2.659E-03	58	1.860	1.648E-05	9.492E-05	5.570E-05
10	0.185	2.218E-03	2.943E-03	2.580E-03	59	1.920	-5.694E-06	7.382E-05	3.406E-05
11	0.200	2.119E-03	2.552E-03	2.335E-03	60	1.980	-6.986E-06	7.353E-05	3.327E-05
12	0.220	1.674E-03	2.103E-03	1.889E-03	61	2.040	7.611E-05	1.620E-04	1.191E-04
13	0.240	1.370E-03	1.721E-03	1.546E-03	62	2.100	9.410E-05	1.806E-04	1.373E-04
14	0.260	1.277E-03	1.565E-03	1.421E-03	63	2.160	1.238E-06	7.816E-05	3.970E-05
15	0.280	1.120E-03	1.374E-03	1.247E-03	64	2.220	4.986E-05	1.312E-04	9.055E-05
16	0.300	1.147E-03	1.387E-03	1.267E-03	65	2.280	4.502E-05	1.220E-04	8.349E-05
17	0.320	1.183E-03	1.419E-03	1.301E-03	66	2.340	-2.676E-05	4.181E-05	7.524E-06
18	0.340	8.800E-04	1.106E-03	9.932E-04	67	2.405	1.211E-05	9.107E-05	5.159E-05
19	0.360	6.329E-04	8.512E-04	7.421E-04	68	2.475	5.690E-05	1.347E-04	9.580E-05
20	0.380	5.964E-04	8.101E-04	7.033E-04	69	2.545	3.330E-05	1.088E-04	7.106E-05
21	0.400	7.316E-04	9.626E-04	8.471E-04	70	2.615	1.641E-05	9.838E-05	5.740E-05
22	0.420	1.254E-03	1.500E-03	1.377E-03	71	2.685	-1.377E-05	6.589E-05	2.606E-05
23	0.445	2.042E-03	2.297E-03	2.170E-03	72	2.755	-2.101E-05	5.156E-05	1.528E-05
24	0.475	2.001E-03	2.239E-03	2.120E-03	73	2.825	9.317E-06	7.712E-05	4.322E-05
25	0.505	1.005E-03	1.206E-03	1.105E-03	74	2.895	7.747E-06	7.128E-05	3.951E-05
26	0.535	3.967E-04	5.715E-04	4.841E-04	75	2.965	-1.983E-05	4.557E-05	1.287E-05
27	0.565	5.906E-04	7.733E-04	6.819E-04	76	3.035	-2.192E-05	3.774E-05	7.914E-06
28	0.595	8.932E-04	1.080E-03	9.867E-04	77	3.110	-2.811E-05	3.738E-05	4.634E-06
29	0.625	5.377E-04	7.110E-04	6.243E-04	78	3.190	-3.327E-05	2.460E-05	-4.335E-06
30	0.655	6.539E-04	8.254E-04	7.396E-04	79	3.270	-2.833E-05	3.732E-05	4.498E-06
31	0.685	9.335E-04	1.111E-03	1.022E-03	80	3.350	-2.342E-05	4.596E-05	1.127E-05
32	0.715	7.815E-04	9.502E-04	8.658E-04	81	3.430	-1.303E-05	4.310E-05	1.503E-05
33	0.745	7.315E-04	8.979E-04	8.147E-04	82	3.510	-1.213E-05	3.880E-05	1.333E-05
34	0.775	5.548E-04	7.119E-04	6.333E-04	83	3.590	-1.962E-06	5.158E-05	2.481E-05
35	0.810	4.296E-04	5.872E-04	5.084E-04	84	3.670	8.463E-06	6.151E-05	3.499E-05
36	0.850	6.846E-04	8.530E-04	7.688E-04	85	3.750	-6.658E-06	4.346E-05	1.840E-05
37	0.890	8.622E-04	1.038E-03	9.502E-04	86	3.830	-2.359E-05	1.984E-05	-1.877E-06
38	0.930	7.417E-04	9.147E-04	8.282E-04	87	3.915	-3.097E-05	1.286E-05	-9.051E-06
39	0.970	6.117E-04	7.775E-04	6.946E-04	88	4.005	-2.128E-05	2.613E-05	2.426E-06
40	1.010	5.265E-04	6.842E-04	6.054E-04	89	4.095	-7.622E-06	4.361E-05	1.799E-05
41	1.050	5.382E-04	6.840E-04	6.111E-04	90	4.185	-4.475E-06	4.123E-05	1.838E-05
42	1.090	4.225E-04	5.515E-04	4.870E-04	91	4.275	-1.016E-05	3.583E-05	1.283E-05
43	1.130	3.003E-04	4.158E-04	3.581E-04	92	4.365	-1.835E-05	2.746E-05	4.556E-06
44	1.170	1.758E-04	2.766E-04	2.262E-04	93	4.455	-2.826E-05	1.875E-05	-4.753E-06
45	1.210	1.403E-04	2.393E-04	1.898E-04	94	4.550	-2.973E-05	1.192E-05	-8.908E-06
46	1.250	1.468E-04	2.837E-04	2.153E-04	95	4.650	-2.247E-05	1.404E-05	-4.217E-06
47	1.295	2.953E-04	3.942E-04	3.448E-04	96	4.750	-1.079E-05	2.174E-05	5.472E-06
48	1.345	2.066E-04	3.160E-04	2.613E-04	97	4.850	2.594E-06	2.594E-05	1.427E-05
49	1.395	9.889E-05	2.101E-04	1.545E-04	98	4.950	9.654E-06	2.491E-05	1.728E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 995 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	5.622E-03	1.194E-02	8.779E-03	50	1.445	1.207E-04	1.950E-04	1.578E-04
2	0.111	5.255E-03	1.347E-02	9.364E-03	51	1.495	1.101E-04	1.774E-04	1.438E-04
3	0.117	2.514E-03	1.097E-02	6.742E-03	52	1.545	7.810E-05	1.336E-04	1.059E-04
4	0.125	3.304E-04	5.135E-03	2.733E-03	53	1.595	1.076E-05	6.051E-05	3.563E-05
5	0.135	1.723E-04	2.050E-03	1.111E-03	54	1.645	3.416E-05	8.424E-05	5.920E-05
6	0.145	-5.130E-05	3.194E-03	1.572E-03	55	1.695	4.079E-05	8.991E-05	6.535E-05
7	0.155	1.007E-03	2.466E-03	1.736E-03	56	1.745	4.245E-05	9.252E-05	6.748E-05
8	0.165	1.620E-03	2.277E-03	1.948E-03	57	1.800	4.016E-05	8.980E-05	6.498E-05
9	0.175	1.722E-03	2.767E-03	2.244E-03	58	1.860	-6.486E-06	4.022E-05	1.687E-05
10	0.185	1.733E-03	2.187E-03	1.960E-03	59	1.920	5.736E-06	5.317E-05	2.945E-05
11	0.200	1.551E-03	1.815E-03	1.683E-03	60	1.980	-6.145E-07	4.467E-05	2.203E-05
12	0.220	9.974E-04	1.259E-03	1.128E-03	61	2.040	3.028E-05	7.952E-05	5.490E-05
13	0.240	8.044E-04	1.020E-03	9.123E-04	62	2.100	2.760E-05	7.683E-05	5.222E-05
14	0.260	8.324E-04	1.010E-03	9.212E-04	63	2.160	1.673E-05	6.953E-05	4.313E-05
15	0.280	8.426E-04	9.984E-04	9.205E-04	64	2.220	3.909E-05	8.749E-05	6.329E-05
16	0.300	7.701E-04	9.157E-04	8.429E-04	65	2.280	6.633E-05	1.165E-04	9.144E-05
17	0.320	7.086E-04	8.521E-04	7.803E-04	66	2.340	2.260E-05	6.500E-05	4.380E-05
18	0.340	5.875E-04	7.271E-04	6.573E-04	67	2.405	-1.185E-05	3.034E-05	9.247E-06
19	0.360	5.038E-04	6.398E-04	5.718E-04	68	2.475	-4.141E-06	3.608E-05	1.597E-05
20	0.380	4.272E-04	5.574E-04	4.923E-04	69	2.545	1.228E-05	5.440E-05	3.334E-05
21	0.400	4.570E-04	5.956E-04	5.263E-04	70	2.615	3.266E-05	8.369E-05	5.818E-05
22	0.420	7.501E-04	8.975E-04	8.238E-04	71	2.685	1.745E-05	6.683E-05	4.214E-05
23	0.445	1.512E-03	1.670E-03	1.591E-03	72	2.755	-1.201E-05	3.263E-05	1.031E-05
24	0.475	1.576E-03	1.724E-03	1.650E-03	73	2.825	-1.896E-05	1.514E-05	-1.906E-06
25	0.505	6.730E-04	7.964E-04	7.347E-04	74	2.895	-1.500E-05	1.886E-05	1.930E-06
26	0.535	3.706E-04	4.816E-04	4.261E-04	75	2.965	-1.345E-05	1.809E-05	2.317E-06
27	0.565	4.095E-04	5.230E-04	4.662E-04	76	3.035	-1.644E-05	2.039E-05	1.970E-06
28	0.595	5.529E-04	6.676E-04	6.102E-04	77	3.110	-1.464E-05	1.422E-05	-2.143E-07
29	0.625	4.394E-04	5.478E-04	4.936E-04	78	3.190	-2.704E-05	3.482E-06	-1.178E-05
30	0.655	4.873E-04	5.914E-04	5.394E-04	79	3.270	-2.713E-05	4.146E-06	-1.149E-05
31	0.685	5.057E-04	6.083E-04	5.570E-04	80	3.350	-9.313E-06	2.126E-05	5.971E-06
32	0.715	4.544E-04	5.534E-04	5.039E-04	81	3.430	9.051E-07	2.983E-05	1.537E-05
33	0.745	4.197E-04	5.191E-04	4.694E-04	82	3.510	7.878E-07	2.888E-05	1.483E-05
34	0.775	2.883E-04	3.818E-04	3.351E-04	83	3.590	3.691E-06	3.052E-05	1.711E-05
35	0.810	2.348E-04	3.286E-04	2.817E-04	84	3.670	4.970E-06	2.964E-05	1.731E-05
36	0.850	2.593E-04	3.558E-04	3.076E-04	85	3.750	1.482E-06	2.568E-05	1.358E-05
37	0.890	4.772E-04	5.839E-04	5.305E-04	86	3.830	-5.430E-06	2.026E-05	7.415E-06
38	0.930	4.917E-04	6.029E-04	5.473E-04	87	3.915	-1.061E-05	1.513E-05	2.259E-06
39	0.970	4.163E-04	5.220E-04	4.692E-04	88	4.005	-1.116E-05	1.623E-05	2.534E-06
40	1.010	3.301E-04	4.292E-04	3.796E-04	89	4.095	-9.864E-06	1.881E-05	4.472E-06
41	1.050	3.360E-04	4.231E-04	3.795E-04	90	4.185	-9.951E-06	1.904E-05	4.546E-06
42	1.090	1.775E-04	2.515E-04	2.145E-04	91	4.275	-1.413E-05	1.728E-05	1.575E-06
43	1.130	9.109E-05	1.605E-04	1.258E-04	92	4.365	-1.774E-05	1.354E-05	-2.101E-06
44	1.170	1.367E-04	2.043E-04	1.705E-04	93	4.455	-2.118E-05	7.732E-06	-6.723E-06
45	1.210	1.450E-04	2.097E-04	1.774E-04	94	4.550	-2.325E-05	4.713E-06	-9.270E-06
46	1.250	1.887E-04	2.791E-04	2.339E-04	95	4.650	-1.853E-05	9.179E-06	-4.674E-06
47	1.295	1.993E-04	2.611E-04	2.302E-04	96	4.750	-9.031E-06	1.460E-05	2.783E-06
48	1.345	1.065E-04	1.734E-04	1.400E-04	97	4.850	1.328E-06	1.666E-05	8.996E-06
49	1.395	1.162E-04	1.926E-04	1.544E-04	98	4.950	6.066E-06	1.709E-05	1.158E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1795 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.734E-03	8.027E-03	5.881E-03	50	1.445	8.536E-05	1.568E-04	1.211E-04
2	0.111	3.428E-03	9.001E-03	6.215E-03	51	1.495	1.012E-04	1.641E-04	1.327E-04
3	0.117	1.597E-03	7.340E-03	4.469E-03	52	1.545	6.226E-05	1.139E-04	8.807E-05
4	0.125	2.427E-04	3.500E-03	1.871E-03	53	1.595	4.860E-06	5.032E-05	2.759E-05
5	0.135	1.010E-04	1.422E-03	7.613E-04	54	1.645	-4.069E-06	4.020E-05	1.807E-05
6	0.145	-1.754E-04	2.091E-03	9.578E-04	55	1.695	2.295E-05	6.635E-05	4.465E-05
7	0.155	6.038E-04	1.608E-03	1.106E-03	56	1.745	2.924E-05	7.530E-05	5.227E-05
8	0.165	9.848E-04	1.539E-03	1.262E-03	57	1.800	1.158E-05	5.679E-05	3.419E-05
9	0.175	9.842E-04	1.845E-03	1.415E-03	58	1.860	1.450E-05	5.774E-05	3.612E-05
10	0.185	1.088E-03	1.469E-03	1.279E-03	59	1.920	9.915E-06	5.175E-05	3.083E-05
11	0.200	9.707E-04	1.202E-03	1.086E-03	60	1.980	-1.341E-07	4.144E-05	2.065E-05
12	0.220	6.475E-04	8.810E-04	7.643E-04	61	2.040	3.092E-06	4.627E-05	2.468E-05
13	0.240	4.732E-04	6.662E-04	5.697E-04	62	2.100	2.187E-05	6.561E-05	4.374E-05
14	0.260	4.599E-04	6.166E-04	5.383E-04	63	2.160	1.337E-05	6.066E-05	3.702E-05
15	0.280	4.873E-04	6.233E-04	5.553E-04	64	2.220	1.382E-05	5.811E-05	3.596E-05
16	0.300	5.303E-04	6.597E-04	5.950E-04	65	2.280	2.989E-05	7.534E-05	5.261E-05
17	0.320	4.918E-04	6.197E-04	5.557E-04	66	2.340	3.747E-06	4.135E-05	2.255E-05
18	0.340	3.424E-04	4.658E-04	4.041E-04	67	2.405	-2.109E-05	1.827E-05	-1.412E-06
19	0.360	2.359E-04	3.538E-04	2.948E-04	68	2.475	-1.018E-05	2.635E-05	8.083E-06
20	0.380	2.715E-04	3.858E-04	3.286E-04	69	2.545	-4.076E-06	3.393E-05	1.493E-05
21	0.400	3.264E-04	4.493E-04	3.878E-04	70	2.615	9.342E-06	5.460E-05	3.197E-05
22	0.420	4.379E-04	5.648E-04	5.014E-04	71	2.685	9.965E-06	5.814E-05	3.405E-05
23	0.445	9.318E-04	1.067E-03	9.993E-04	72	2.755	-5.816E-07	4.573E-05	2.257E-05
24	0.475	9.971E-04	1.125E-03	1.061E-03	73	2.825	-1.565E-06	2.956E-05	1.400E-05
25	0.505	3.611E-04	4.689E-04	4.150E-04	74	2.895	-9.184E-06	1.774E-05	4.277E-06
26	0.535	2.244E-04	3.229E-04	2.737E-04	75	2.965	-1.238E-05	1.205E-05	-1.687E-07
27	0.565	1.978E-04	2.977E-04	2.477E-04	76	3.035	-1.207E-05	1.636E-05	2.144E-06
28	0.595	2.524E-04	3.515E-04	3.020E-04	77	3.110	-9.897E-06	1.157E-05	8.381E-07
29	0.625	2.406E-04	3.359E-04	2.882E-04	78	3.190	-1.372E-05	1.010E-05	-1.807E-06
30	0.655	2.930E-04	3.846E-04	3.388E-04	79	3.270	-1.160E-05	1.055E-05	-5.298E-07
31	0.685	4.068E-04	4.995E-04	4.532E-04	80	3.350	-6.636E-06	1.599E-05	4.677E-06
32	0.715	2.975E-04	3.842E-04	3.409E-04	81	3.430	-2.331E-06	2.361E-05	1.064E-05
33	0.745	2.139E-04	3.004E-04	2.571E-04	82	3.510	1.650E-06	2.023E-05	1.094E-05
34	0.775	2.122E-04	2.973E-04	2.548E-04	83	3.590	-6.499E-07	1.770E-05	8.524E-06
35	0.810	1.283E-04	2.124E-04	1.704E-04	84	3.670	-3.436E-06	1.301E-05	4.785E-06
36	0.850	1.951E-04	2.832E-04	2.391E-04	85	3.750	-6.896E-06	8.881E-06	9.923E-07
37	0.890	2.830E-04	3.781E-04	3.306E-04	86	3.830	-9.478E-06	7.298E-06	-1.090E-06
38	0.930	3.170E-04	4.174E-04	3.672E-04	87	3.915	-1.080E-05	6.154E-06	-2.321E-06
39	0.970	1.994E-04	2.937E-04	2.466E-04	88	4.005	-1.121E-05	5.937E-06	-2.638E-06
40	1.010	1.703E-04	2.599E-04	2.151E-04	89	4.095	-9.806E-06	8.193E-06	-8.068E-07
41	1.050	2.076E-04	2.855E-04	2.465E-04	90	4.185	-7.146E-06	1.126E-05	2.058E-06
42	1.090	1.174E-04	1.844E-04	1.509E-04	91	4.275	-6.892E-06	1.223E-05	2.671E-06
43	1.130	2.733E-05	8.785E-05	5.759E-05	92	4.365	-8.323E-06	1.079E-05	1.234E-06
44	1.170	1.656E-05	7.205E-05	4.430E-05	93	4.455	-9.361E-06	8.326E-06	-5.172E-07
45	1.210	2.857E-05	8.401E-05	5.629E-05	94	4.550	-1.027E-05	6.566E-06	-1.851E-06
46	1.250	5.407E-05	1.304E-04	9.225E-05	95	4.650	-9.142E-06	6.748E-06	-1.197E-06
47	1.295	1.110E-04	1.662E-04	1.386E-04	96	4.750	-4.847E-06	7.763E-06	1.458E-06
48	1.345	8.356E-05	1.469E-04	1.152E-04	97	4.850	2.211E-07	8.703E-06	4.462E-06
49	1.395	2.853E-05	9.664E-05	6.259E-05	98	4.950	2.897E-06	8.650E-06	5.773E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2695 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.260E-03	4.988E-03	3.624E-03	50	1.445	8.847E-05	1.517E-04	1.201E-04
2	0.111	2.073E-03	5.581E-03	3.827E-03	51	1.495	1.007E-04	1.566E-04	1.287E-04
3	0.117	9.321E-04	4.586E-03	2.759E-03	52	1.545	3.678E-05	7.906E-05	5.792E-05
4	0.125	1.326E-04	2.197E-03	1.165E-03	53	1.595	-4.620E-06	3.448E-05	1.493E-05
5	0.135	4.424E-07	8.939E-04	4.472E-04	54	1.645	7.125E-06	4.473E-05	2.593E-05
6	0.145	-2.023E-04	1.013E-03	5.580E-04	55	1.695	1.464E-05	5.112E-05	3.288E-05
7	0.155	3.768E-04	1.048E-03	7.124E-04	56	1.745	3.084E-06	3.754E-05	2.031E-05
8	0.165	6.005E-04	1.027E-03	8.135E-04	57	1.800	-1.076E-05	2.588E-05	7.559E-06
9	0.175	5.732E-04	1.225E-03	8.993E-04	58	1.860	-7.570E-06	2.929E-05	1.086E-05
10	0.185	7.179E-04	1.013E-03	8.654E-04	59	1.920	-1.514E-05	2.550E-05	5.179E-06
11	0.200	6.085E-04	7.941E-04	7.013E-04	60	1.980	-1.707E-06	3.605E-05	1.717E-05
12	0.220	3.390E-04	5.309E-04	4.349E-04	61	2.040	1.469E-05	5.339E-05	3.404E-05
13	0.240	2.681E-04	4.295E-04	3.488E-04	62	2.100	5.635E-06	4.341E-05	2.452E-05
14	0.260	2.614E-04	3.910E-04	3.262E-04	63	2.160	-3.283E-05	2.195E-05	-5.439E-06
15	0.280	2.620E-04	3.718E-04	3.169E-04	64	2.220	-8.934E-06	2.804E-05	9.553E-06
16	0.300	3.047E-04	4.091E-04	3.569E-04	65	2.280	1.710E-05	5.258E-05	3.484E-05
17	0.320	2.507E-04	3.542E-04	3.025E-04	66	2.340	-2.595E-06	2.994E-05	1.367E-05
18	0.340	1.479E-04	2.486E-04	1.983E-04	67	2.405	-7.210E-06	3.635E-05	1.457E-05
19	0.360	1.657E-04	2.638E-04	2.148E-04	68	2.475	5.597E-06	3.950E-05	2.255E-05
20	0.380	1.698E-04	2.628E-04	2.163E-04	69	2.545	-7.842E-06	2.849E-05	1.033E-05
21	0.400	1.335E-04	2.309E-04	1.822E-04	70	2.615	1.294E-05	5.872E-05	3.583E-05
22	0.420	2.523E-04	3.541E-04	3.032E-04	71	2.685	1.535E-05	5.581E-05	3.558E-05
23	0.445	5.934E-04	7.021E-04	6.478E-04	72	2.755	-1.074E-06	2.392E-05	1.142E-05
24	0.475	6.936E-04	7.978E-04	7.457E-04	73	2.825	-6.583E-06	1.168E-05	2.549E-06
25	0.505	2.415E-04	3.313E-04	2.864E-04	74	2.895	-6.411E-06	1.422E-05	3.903E-06
26	0.535	1.094E-04	1.913E-04	1.504E-04	75	2.965	5.829E-07	2.262E-05	1.160E-05
27	0.565	1.010E-04	1.851E-04	1.431E-04	76	3.035	1.689E-07	2.280E-05	1.148E-05
28	0.595	2.032E-04	2.890E-04	2.461E-04	77	3.110	-6.553E-06	7.056E-06	2.511E-07
29	0.625	1.956E-04	2.762E-04	2.359E-04	78	3.190	-1.170E-05	3.110E-06	-4.295E-06
30	0.655	1.836E-04	2.586E-04	2.211E-04	79	3.270	-1.041E-05	5.303E-06	-2.551E-06
31	0.685	2.402E-04	3.140E-04	2.771E-04	80	3.350	-8.845E-06	5.885E-06	-1.480E-06
32	0.715	1.821E-04	2.525E-04	2.173E-04	81	3.430	-5.613E-06	8.467E-06	1.427E-06
33	0.745	9.900E-05	1.686E-04	1.338E-04	82	3.510	-2.633E-06	1.108E-05	4.222E-06
34	0.775	9.467E-05	1.643E-04	1.295E-04	83	3.590	-3.404E-06	1.049E-05	3.545E-06
35	0.810	5.870E-05	1.293E-04	9.399E-05	84	3.670	-4.448E-06	7.331E-06	1.442E-06
36	0.850	9.782E-05	1.712E-04	1.345E-04	85	3.750	-5.867E-06	6.702E-06	4.176E-07
37	0.890	2.375E-04	3.207E-04	2.791E-04	86	3.830	-6.232E-06	5.871E-06	-1.805E-07
38	0.930	2.173E-04	3.030E-04	2.602E-04	87	3.915	-5.740E-06	5.497E-06	-1.213E-07
39	0.970	6.878E-05	1.480E-04	1.084E-04	88	4.005	-3.821E-06	7.195E-06	1.687E-06
40	1.010	6.365E-05	1.375E-04	1.006E-04	89	4.095	-1.716E-06	9.378E-06	3.831E-06
41	1.050	1.402E-04	2.063E-04	1.732E-04	90	4.185	-2.789E-07	1.164E-05	5.681E-06
42	1.090	6.566E-05	1.235E-04	9.460E-05	91	4.275	-1.323E-06	1.209E-05	5.386E-06
43	1.130	4.795E-05	1.029E-04	7.544E-05	92	4.365	-3.709E-06	7.581E-06	1.936E-06
44	1.170	5.476E-05	1.051E-04	7.993E-05	93	4.455	-6.962E-06	2.276E-06	-2.343E-06
45	1.210	8.544E-06	5.466E-05	3.160E-05	94	4.550	-1.052E-05	2.033E-08	-5.251E-06
46	1.250	-2.221E-05	3.464E-05	6.219E-06	95	4.650	-1.058E-05	1.498E-06	-4.542E-06
47	1.295	4.447E-05	8.896E-05	6.671E-05	96	4.750	-6.085E-06	3.593E-06	-1.246E-06
48	1.345	4.725E-05	1.009E-04	7.410E-05	97	4.850	-1.808E-07	5.270E-06	2.544E-06
49	1.395	8.647E-07	6.115E-05	3.101E-05	98	4.950	2.271E-06	7.200E-06	4.735E-06



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3795 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.266E-03	2.951E-03	2.109E-03	50	1.445	5.853E-05	1.154E-04	8.694E-05
2	0.111	1.164E-03	3.291E-03	2.227E-03	51	1.495	6.648E-05	1.152E-04	9.085E-05
3	0.117	4.843E-04	2.733E-03	1.609E-03	52	1.545	1.699E-05	5.469E-05	3.584E-05
4	0.125	5.184E-05	1.318E-03	6.850E-04	53	1.595	7.936E-06	4.355E-05	2.574E-05
5	0.135	-2.567E-05	5.585E-04	2.664E-04	54	1.645	1.611E-05	5.026E-05	3.318E-05
6	0.145	-1.657E-04	8.115E-04	3.229E-04	55	1.695	5.449E-06	3.526E-05	2.035E-05
7	0.155	1.856E-04	6.225E-04	4.041E-04	56	1.745	-2.730E-06	2.761E-05	1.244E-05
8	0.165	2.961E-04	6.083E-04	4.522E-04	57	1.800	-5.457E-06	2.646E-05	1.050E-05
9	0.175	2.366E-04	7.029E-04	4.698E-04	58	1.860	-4.743E-06	2.724E-05	1.125E-05
10	0.185	3.139E-04	5.353E-04	4.246E-04	59	1.920	2.461E-06	3.435E-05	1.841E-05
11	0.200	2.842E-04	4.334E-04	3.588E-04	60	1.980	-9.139E-06	2.201E-05	6.434E-06
12	0.220	1.572E-04	3.154E-04	2.363E-04	61	2.040	-8.514E-06	2.200E-05	6.741E-06
13	0.240	9.569E-05	2.335E-04	1.646E-04	62	2.100	-6.184E-06	2.460E-05	9.206E-06
14	0.260	1.257E-04	2.377E-04	1.817E-04	63	2.160	-1.098E-05	2.454E-05	6.781E-06
15	0.280	1.461E-04	2.400E-04	1.930E-04	64	2.220	-1.389E-05	2.123E-05	3.670E-06
16	0.300	1.267E-04	2.152E-04	1.710E-04	65	2.280	-2.933E-06	3.013E-05	1.360E-05
17	0.320	1.300E-04	2.197E-04	1.749E-04	66	2.340	1.557E-06	3.359E-05	1.757E-05
18	0.340	9.262E-05	1.812E-04	1.369E-04	67	2.405	-1.021E-05	2.876E-05	9.277E-06
19	0.360	8.634E-05	1.718E-04	1.291E-04	68	2.475	4.972E-06	3.281E-05	1.889E-05
20	0.380	9.763E-05	1.779E-04	1.378E-04	69	2.545	2.657E-06	3.363E-05	1.814E-05
21	0.400	9.131E-05	1.747E-04	1.330E-04	70	2.615	-5.210E-06	3.097E-05	1.288E-05
22	0.420	1.370E-04	2.220E-04	1.795E-04	71	2.685	-4.547E-06	3.858E-05	1.701E-05
23	0.445	2.935E-04	3.819E-04	3.377E-04	72	2.755	-4.923E-06	2.034E-05	7.710E-06
24	0.475	3.360E-04	4.220E-04	3.790E-04	73	2.825	-8.207E-06	1.051E-05	1.153E-06
25	0.505	1.784E-04	2.584E-04	2.184E-04	74	2.895	-9.113E-06	1.041E-05	6.468E-07
26	0.535	8.683E-05	1.612E-04	1.240E-04	75	2.965	-1.180E-05	9.272E-06	-1.265E-06
27	0.565	9.687E-05	1.735E-04	1.352E-04	76	3.035	-1.045E-05	7.583E-06	-1.435E-06
28	0.595	1.514E-04	2.278E-04	1.896E-04	77	3.110	-7.954E-06	9.744E-06	8.951E-07
29	0.625	8.282E-05	1.516E-04	1.172E-04	78	3.190	-1.004E-05	1.068E-05	3.197E-07
30	0.655	8.979E-05	1.535E-04	1.216E-04	79	3.270	-1.175E-05	9.619E-06	-1.066E-06
31	0.685	1.533E-04	2.164E-04	1.848E-04	80	3.350	-1.062E-05	9.921E-06	-3.486E-07
32	0.715	7.024E-05	1.302E-04	1.002E-04	81	3.430	-8.344E-06	1.076E-05	1.210E-06
33	0.745	8.088E-05	1.440E-04	1.124E-04	82	3.510	-6.125E-06	1.210E-05	2.986E-06
34	0.775	8.611E-05	1.497E-04	1.179E-04	83	3.590	-5.499E-06	1.282E-05	3.658E-06
35	0.810	3.545E-05	9.902E-05	6.724E-05	84	3.670	-6.738E-06	1.183E-05	2.544E-06
36	0.850	9.528E-05	1.621E-04	1.287E-04	85	3.750	-7.660E-06	9.878E-06	1.109E-06
37	0.890	1.111E-04	1.847E-04	1.479E-04	86	3.830	-7.995E-06	9.525E-06	7.648E-07
38	0.930	1.745E-04	2.533E-04	2.139E-04	87	3.915	-7.536E-06	1.072E-05	1.594E-06
39	0.970	3.353E-05	1.071E-04	7.031E-05	88	4.005	-6.141E-06	1.159E-05	2.725E-06
40	1.010	4.553E-05	1.148E-04	8.017E-05	89	4.095	-4.006E-06	1.388E-05	4.937E-06
41	1.050	6.557E-05	1.209E-04	9.325E-05	90	4.185	-2.679E-06	1.607E-05	6.697E-06
42	1.090	4.696E-05	9.836E-05	7.266E-05	91	4.275	-5.032E-06	1.436E-05	4.664E-06
43	1.130	1.528E-05	6.340E-05	3.934E-05	92	4.365	-9.491E-06	9.751E-06	1.302E-07
44	1.170	8.652E-06	5.972E-05	3.419E-05	93	4.455	-1.370E-05	4.356E-06	-4.673E-06
45	1.210	-4.057E-07	5.886E-05	2.923E-05	94	4.550	-1.638E-05	1.441E-06	-7.469E-06
46	1.250	-3.009E-05	6.382E-05	1.686E-05	95	4.650	-1.428E-05	3.987E-06	-5.148E-06
47	1.295	1.651E-05	5.623E-05	3.637E-05	96	4.750	-7.460E-06	7.844E-06	1.920E-07
48	1.345	-2.482E-06	5.340E-05	2.546E-05	97	4.850	1.823E-07	1.040E-05	5.291E-06
49	1.395	-1.561E-06	5.259E-05	2.551E-05	98	4.950	3.618E-06	1.157E-05	7.593E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 150 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.123E-02	2.515E-02	1.819E-02	50	1.445	1.106E-03	1.235E-03	1.171E-03
2	0.111	9.898E-03	2.738E-02	1.864E-02	51	1.495	7.948E-04	9.111E-04	8.530E-04
3	0.117	3.485E-03	2.221E-02	1.285E-02	52	1.545	6.757E-04	7.858E-04	7.308E-04
4	0.125	-2.159E-04	1.035E-02	5.067E-03	53	1.595	6.175E-04	7.301E-04	6.738E-04
5	0.135	4.207E-04	4.929E-03	2.675E-03	54	1.645	4.981E-04	6.035E-04	5.508E-04
6	0.145	6.168E-05	7.803E-03	3.932E-03	55	1.695	3.753E-04	4.749E-04	4.251E-04
7	0.155	2.373E-03	5.911E-03	4.142E-03	56	1.745	3.568E-04	4.602E-04	4.085E-04
8	0.165	3.988E-03	5.028E-03	4.508E-03	57	1.800	3.441E-04	4.491E-04	3.966E-04
9	0.175	4.206E-03	6.058E-03	5.132E-03	58	1.860	3.228E-04	4.330E-04	3.779E-04
10	0.185	4.244E-03	5.018E-03	4.631E-03	59	1.920	3.485E-04	4.583E-04	4.034E-04
11	0.200	4.186E-03	4.591E-03	4.388E-03	60	1.980	2.838E-04	3.821E-04	3.329E-04
12	0.220	3.659E-03	4.040E-03	3.849E-03	61	2.040	2.509E-04	3.506E-04	3.007E-04
13	0.240	3.125E-03	3.434E-03	3.280E-03	62	2.100	2.393E-04	3.404E-04	2.898E-04
14	0.260	2.711E-03	2.971E-03	2.841E-03	63	2.160	1.649E-04	2.641E-04	2.145E-04
15	0.280	2.794E-03	3.035E-03	2.915E-03	64	2.220	1.676E-04	2.653E-04	2.165E-04
16	0.300	2.760E-03	2.989E-03	2.875E-03	65	2.280	1.183E-04	2.169E-04	1.676E-04
17	0.320	2.506E-03	2.728E-03	2.617E-03	66	2.340	1.860E-04	2.948E-04	2.404E-04
18	0.340	2.199E-03	2.419E-03	2.309E-03	67	2.405	2.129E-04	3.292E-04	2.710E-04
19	0.360	2.195E-03	2.421E-03	2.308E-03	68	2.475	2.258E-04	3.381E-04	2.819E-04
20	0.380	2.664E-03	2.897E-03	2.780E-03	69	2.545	2.401E-04	3.439E-04	2.920E-04
21	0.400	3.435E-03	3.686E-03	3.560E-03	70	2.615	1.928E-04	2.953E-04	2.441E-04
22	0.420	3.854E-03	4.101E-03	3.978E-03	71	2.685	1.673E-04	2.701E-04	2.187E-04
23	0.445	4.489E-03	4.729E-03	4.609E-03	72	2.755	1.991E-04	2.977E-04	2.484E-04
24	0.475	3.306E-03	3.522E-03	3.414E-03	73	2.825	1.878E-04	2.907E-04	2.392E-04
25	0.505	2.082E-03	2.276E-03	2.179E-03	74	2.895	1.022E-04	2.026E-04	1.524E-04
26	0.535	1.646E-03	1.828E-03	1.737E-03	75	2.965	6.246E-05	1.623E-04	1.124E-04
27	0.565	2.294E-03	2.486E-03	2.390E-03	76	3.035	-2.703E-05	7.148E-05	2.222E-05
28	0.595	2.818E-03	3.010E-03	2.914E-03	77	3.110	-6.575E-05	2.314E-05	-2.131E-05
29	0.625	1.834E-03	2.013E-03	1.924E-03	78	3.190	-6.256E-05	2.906E-05	-1.675E-05
30	0.655	1.701E-03	1.876E-03	1.788E-03	79	3.270	-2.387E-05	6.340E-05	1.977E-05
31	0.685	2.222E-03	2.404E-03	2.313E-03	80	3.350	6.523E-05	1.554E-04	1.103E-04
32	0.715	2.582E-03	2.764E-03	2.673E-03	81	3.430	1.057E-04	1.846E-04	1.452E-04
33	0.745	2.014E-03	2.185E-03	2.099E-03	82	3.510	1.143E-04	1.909E-04	1.526E-04
34	0.775	1.469E-03	1.631E-03	1.550E-03	83	3.590	1.055E-04	1.789E-04	1.422E-04
35	0.810	1.731E-03	1.902E-03	1.816E-03	84	3.670	1.001E-04	1.662E-04	1.332E-04
36	0.850	2.067E-03	2.242E-03	2.154E-03	85	3.750	4.466E-05	1.053E-04	7.500E-05
37	0.890	2.180E-03	2.355E-03	2.268E-03	86	3.830	-7.226E-06	5.055E-05	2.166E-05
38	0.930	1.780E-03	1.949E-03	1.865E-03	87	3.915	-4.352E-06	5.232E-05	2.398E-05
39	0.970	1.973E-03	2.140E-03	2.056E-03	88	4.005	6.516E-06	5.696E-05	3.174E-05
40	1.010	1.619E-03	1.782E-03	1.700E-03	89	4.095	5.300E-05	1.025E-04	7.776E-05
41	1.050	1.307E-03	1.458E-03	1.383E-03	90	4.185	8.473E-05	1.343E-04	1.095E-04
42	1.090	1.251E-03	1.396E-03	1.323E-03	91	4.275	7.050E-05	1.165E-04	9.349E-05
43	1.130	1.125E-03	1.259E-03	1.192E-03	92	4.365	4.051E-05	8.420E-05	6.236E-05
44	1.170	1.041E-03	1.168E-03	1.104E-03	93	4.455	-5.529E-06	3.538E-05	1.493E-05
45	1.210	9.661E-04	1.088E-03	1.027E-03	94	4.550	-4.005E-05	-2.011E-06	-2.103E-05
46	1.250	1.010E-03	1.175E-03	1.093E-03	95	4.650	-3.411E-05	3.859E-06	-1.513E-05
47	1.295	1.237E-03	1.359E-03	1.298E-03	96	4.750	4.021E-06	3.441E-05	1.921E-05
48	1.345	1.222E-03	1.353E-03	1.288E-03	97	4.850	4.599E-05	6.788E-05	5.693E-05
49	1.395	1.088E-03	1.217E-03	1.152E-03	98	4.950	6.405E-05	7.990E-05	7.197E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 210 SEC

COUNTING TIME : 60 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	1.042E-02	2.277E-02	1.660E-02	50 1.445	7.702E-04	8.784E-04	8.243E-04
2 0.111	9.313E-03	2.493E-02	1.712E-02	51 1.495	5.153E-04	6.120E-04	5.637E-04
3 0.117	3.544E-03	2.013E-02	1.183E-02	52 1.545	4.710E-04	5.625E-04	5.168E-04
4 0.125	-1.152E-04	9.257E-03	4.571E-03	53 1.595	3.715E-04	4.625E-04	4.170E-04
5 0.135	3.590E-04	4.284E-03	2.321E-03	54 1.645	2.724E-04	3.606E-04	3.165E-04
6 0.145	2.409E-04	6.993E-03	3.617E-03	55 1.695	3.129E-04	4.001E-04	3.565E-04
7 0.155	2.258E-03	5.342E-03	3.800E-03	56 1.745	2.786E-04	3.661E-04	3.224E-04
8 0.165	3.632E-03	4.569E-03	4.101E-03	57 1.800	2.140E-04	3.008E-04	2.574E-04
9 0.175	3.964E-03	5.611E-03	4.787E-03	58 1.860	1.390E-04	2.272E-04	1.831E-04
10 0.185	3.909E-03	4.600E-03	4.255E-03	59 1.920	1.388E-04	2.274E-04	1.831E-04
11 0.200	3.527E-03	3.891E-03	3.709E-03	60 1.980	2.250E-04	3.093E-04	2.672E-04
12 0.220	2.879E-03	3.224E-03	3.051E-03	61 2.040	1.914E-04	2.787E-04	2.350E-04
13 0.240	2.634E-03	2.917E-03	2.775E-03	62 2.100	1.624E-04	2.485E-04	2.054E-04
14 0.260	2.472E-03	2.711E-03	2.591E-03	63 2.160	2.003E-04	2.873E-04	2.438E-04
15 0.280	2.426E-03	2.644E-03	2.535E-03	64 2.220	1.354E-04	2.185E-04	1.770E-04
16 0.300	2.282E-03	2.487E-03	2.385E-03	65 2.280	9.108E-05	1.736E-04	1.323E-04
17 0.320	2.009E-03	2.207E-03	2.108E-03	66 2.340	1.604E-04	2.501E-04	2.053E-04
18 0.340	1.693E-03	1.887E-03	1.790E-03	67 2.405	9.748E-05	1.902E-04	1.438E-04
19 0.360	1.569E-03	1.766E-03	1.667E-03	68 2.475	1.178E-04	2.056E-04	1.617E-04
20 0.380	1.858E-03	2.060E-03	1.959E-03	69 2.545	1.407E-04	2.270E-04	1.839E-04
21 0.400	2.432E-03	2.652E-03	2.542E-03	70 2.615	9.517E-05	1.783E-04	1.367E-04
22 0.420	3.039E-03	3.260E-03	3.149E-03	71 2.685	1.299E-04	2.151E-04	1.725E-04
23 0.445	3.942E-03	4.161E-03	4.051E-03	72 2.755	1.439E-04	2.240E-04	1.840E-04
24 0.475	2.976E-03	3.171E-03	3.073E-03	73 2.825	1.149E-04	1.981E-04	1.565E-04
25 0.505	1.583E-03	1.752E-03	1.667E-03	74 2.895	7.111E-05	1.498E-04	1.105E-04
26 0.535	1.202E-03	1.360E-03	1.281E-03	75 2.965	1.303E-05	9.126E-05	5.214E-05
27 0.565	1.771E-03	1.938E-03	1.854E-03	76 3.035	-1.963E-07	7.939E-05	3.960E-05
28 0.595	2.092E-03	2.259E-03	2.176E-03	77 3.110	1.464E-05	9.004E-05	5.234E-05
29 0.625	1.339E-03	1.495E-03	1.417E-03	78 3.190	-1.896E-05	5.507E-05	1.805E-05
30 0.655	1.413E-03	1.568E-03	1.490E-03	79 3.270	-2.641E-05	4.602E-05	9.805E-06
31 0.685	1.970E-03	2.133E-03	2.051E-03	80 3.350	1.579E-05	8.430E-05	5.004E-05
32 0.715	2.080E-03	2.240E-03	2.160E-03	81 3.430	1.992E-05	8.600E-05	5.296E-05
33 0.745	1.554E-03	1.703E-03	1.629E-03	82 3.510	-1.339E-05	4.677E-05	1.669E-05
34 0.775	1.107E-03	1.247E-03	1.177E-03	83 3.590	4.099E-05	1.014E-04	7.119E-05
35 0.810	1.357E-03	1.506E-03	1.432E-03	84 3.670	4.795E-05	1.035E-04	7.574E-05
36 0.850	1.667E-03	1.820E-03	1.744E-03	85 3.750	2.141E-05	7.080E-05	4.610E-05
37 0.890	1.559E-03	1.708E-03	1.634E-03	86 3.830	8.444E-06	5.701E-05	3.273E-05
38 0.930	1.357E-03	1.503E-03	1.430E-03	87 3.915	1.366E-05	5.864E-05	3.615E-05
39 0.970	1.452E-03	1.596E-03	1.524E-03	88 4.005	2.833E-05	6.925E-05	4.879E-05
40 1.010	1.275E-03	1.416E-03	1.346E-03	89 4.095	5.122E-05	9.128E-05	7.125E-05
41 1.050	1.046E-03	1.176E-03	1.111E-03	90 4.185	5.606E-05	9.613E-05	7.609E-05
42 1.090	8.417E-04	9.620E-04	9.018E-04	91 4.275	4.061E-05	7.620E-05	5.840E-05
43 1.130	7.822E-04	8.946E-04	8.384E-04	92 4.365	1.791E-05	5.166E-05	3.478E-05
44 1.170	6.894E-04	7.956E-04	7.425E-04	93 4.455	-1.574E-06	3.007E-05	1.425E-05
45 1.210	6.267E-04	7.278E-04	6.773E-04	94 4.550	-1.282E-05	1.489E-05	1.031E-06
46 1.250	7.832E-04	9.234E-04	8.533E-04	95 4.650	-1.007E-05	1.819E-05	4.059E-06
47 1.295	8.549E-04	9.564E-04	9.057E-04	96 4.750	1.764E-06	2.557E-05	1.367E-05
48 1.345	7.632E-04	8.704E-04	8.168E-04	97 4.850	1.489E-05	3.257E-05	2.373E-05
49 1.395	7.982E-04	9.078E-04	8.530E-04	98 4.950	2.534E-05	3.655E-05	3.094E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 270 SEC

COUNTING TIME : 80 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	9.897E-03	2.100E-02	1.545E-02	50	1.445	4.870E-04	5.641E-04	5.256E-04
2	0.111	8.764E-03	2.302E-02	1.589E-02	51	1.495	3.161E-04	3.845E-04	3.503E-04
3	0.117	3.560E-03	1.841E-02	1.098E-02	52	1.545	2.992E-04	3.662E-04	3.327E-04
4	0.125	8.426E-05	8.510E-03	4.297E-03	53	1.595	2.558E-04	3.222E-04	2.890E-04
5	0.135	4.042E-04	3.761E-03	2.082E-03	54	1.645	2.127E-04	2.764E-04	2.446E-04
6	0.145	1.670E-04	5.979E-03	3.073E-03	55	1.695	1.976E-04	2.611E-04	2.293E-04
7	0.155	2.039E-03	4.693E-03	3.366E-03	56	1.745	2.773E-04	3.453E-04	3.113E-04
8	0.165	3.317E-03	4.064E-03	3.691E-03	57	1.800	2.794E-04	3.455E-04	3.125E-04
9	0.175	3.470E-03	4.812E-03	4.141E-03	58	1.860	9.797E-05	1.600E-04	1.290E-04
10	0.185	3.389E-03	3.948E-03	3.668E-03	59	1.920	1.062E-04	1.703E-04	1.382E-04
11	0.200	3.127E-03	3.415E-03	3.271E-03	60	1.980	1.474E-04	2.071E-04	1.772E-04
12	0.220	2.522E-03	2.791E-03	2.656E-03	61	2.040	1.747E-04	2.362E-04	2.055E-04
13	0.240	2.223E-03	2.442E-03	2.332E-03	62	2.100	1.056E-04	1.656E-04	1.356E-04
14	0.260	1.994E-03	2.178E-03	2.086E-03	63	2.160	1.027E-04	1.631E-04	1.329E-04
15	0.280	1.991E-03	2.160E-03	2.075E-03	64	2.220	1.363E-04	1.965E-04	1.664E-04
16	0.300	1.949E-03	2.109E-03	2.029E-03	65	2.280	6.624E-05	1.233E-04	9.479E-05
17	0.320	1.783E-03	1.940E-03	1.861E-03	66	2.340	7.140E-05	1.334E-04	1.024E-04
18	0.340	1.478E-03	1.630E-03	1.554E-03	67	2.405	7.953E-05	1.459E-04	1.127E-04
19	0.360	1.358E-03	1.511E-03	1.435E-03	68	2.475	6.762E-05	1.290E-04	9.830E-05
20	0.380	1.461E-03	1.617E-03	1.539E-03	69	2.545	8.574E-05	1.473E-04	1.165E-04
21	0.400	1.958E-03	2.129E-03	2.043E-03	70	2.615	7.384E-05	1.340E-04	1.039E-04
22	0.420	2.476E-03	2.649E-03	2.563E-03	71	2.685	6.306E-05	1.226E-04	9.282E-05
23	0.445	3.442E-03	3.616E-03	3.529E-03	72	2.755	5.917E-05	1.159E-04	8.754E-05
24	0.475	2.756E-03	2.912E-03	2.834E-03	73	2.825	7.372E-05	1.344E-04	1.041E-04
25	0.505	1.319E-03	1.450E-03	1.385E-03	74	2.895	4.973E-05	1.075E-04	7.863E-05
26	0.535	9.980E-04	1.120E-03	1.059E-03	75	2.965	7.103E-06	6.349E-05	3.530E-05
27	0.565	1.358E-03	1.486E-03	1.422E-03	76	3.035	-1.879E-05	3.802E-05	9.619E-06
28	0.595	1.690E-03	1.819E-03	1.754E-03	77	3.110	-1.669E-05	3.463E-05	8.972E-06
29	0.625	1.216E-03	1.340E-03	1.278E-03	78	3.190	-2.211E-05	3.332E-05	5.606E-06
30	0.655	1.308E-03	1.431E-03	1.370E-03	79	3.270	-1.701E-06	5.155E-05	2.492E-05
31	0.685	1.703E-03	1.830E-03	1.766E-03	80	3.350	1.736E-05	6.573E-05	4.154E-05
32	0.715	1.718E-03	1.841E-03	1.779E-03	81	3.430	2.638E-05	7.284E-05	4.961E-05
33	0.745	1.283E-03	1.398E-03	1.340E-03	82	3.510	3.186E-05	7.300E-05	5.243E-05
34	0.775	9.785E-04	1.087E-03	1.033E-03	83	3.590	5.866E-05	1.013E-04	7.996E-05
35	0.810	1.103E-03	1.217E-03	1.160E-03	84	3.670	3.946E-05	7.609E-05	5.777E-05
36	0.850	1.312E-03	1.428E-03	1.370E-03	85	3.750	2.169E-05	5.495E-05	3.832E-05
37	0.890	1.380E-03	1.497E-03	1.438E-03	86	3.830	8.959E-06	4.219E-05	2.557E-05
38	0.930	1.291E-03	1.405E-03	1.348E-03	87	3.915	-1.685E-05	1.298E-05	-1.935E-06
39	0.970	1.178E-03	1.287E-03	1.232E-03	88	4.005	-1.072E-05	1.789E-05	3.586E-06
40	1.010	1.020E-03	1.126E-03	1.073E-03	89	4.095	2.137E-05	4.916E-05	3.527E-05
41	1.050	8.653E-04	9.636E-04	9.145E-04	90	4.185	3.518E-05	6.431E-05	4.974E-05
42	1.090	7.177E-04	8.079E-04	7.628E-04	91	4.275	2.549E-05	5.350E-05	3.949E-05
43	1.130	6.305E-04	7.148E-04	6.727E-04	92	4.365	1.885E-05	4.653E-05	3.269E-05
44	1.170	5.323E-04	6.103E-04	5.713E-04	93	4.455	1.930E-06	2.948E-05	1.570E-05
45	1.210	5.289E-04	6.044E-04	5.666E-04	94	4.550	-2.760E-05	-1.489E-06	-1.454E-05
46	1.250	5.219E-04	6.224E-04	5.721E-04	95	4.650	-3.058E-05	-3.380E-06	-1.698E-05
47	1.295	5.603E-04	6.327E-04	5.965E-04	96	4.750	-8.684E-06	1.316E-05	2.240E-06
48	1.345	4.740E-04	5.504E-04	5.122E-04	97	4.850	1.136E-05	2.705E-05	1.920E-05
49	1.395	5.257E-04	6.037E-04	5.647E-04	98	4.950	2.085E-05	3.309E-05	2.697E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 350 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	9.357E-03	1.926E-02	1.431E-02	50	1.445	3.118E-04	3.696E-04	3.407E-04
2	0.111	8.148E-03	2.105E-02	1.460E-02	51	1.495	2.833E-04	3.372E-04	3.102E-04
3	0.117	3.370E-03	1.657E-02	9.968E-03	52	1.545	1.746E-04	2.226E-04	1.986E-04
4	0.125	5.696E-05	7.561E-03	3.809E-03	53	1.595	1.229E-04	1.714E-04	1.471E-04
5	0.135	3.641E-04	3.290E-03	1.827E-03	54	1.645	1.510E-04	2.003E-04	1.757E-04
6	0.145	2.103E-04	5.291E-03	2.750E-03	55	1.695	2.072E-04	2.580E-04	2.326E-04
7	0.155	1.926E-03	4.248E-03	3.087E-03	56	1.745	1.920E-04	2.423E-04	2.172E-04
8	0.165	3.138E-03	3.759E-03	3.449E-03	57	1.800	1.524E-04	2.015E-04	1.770E-04
9	0.175	3.339E-03	4.472E-03	3.906E-03	58	1.860	1.512E-04	2.018E-04	1.765E-04
10	0.185	3.247E-03	3.717E-03	3.482E-03	59	1.920	7.715E-05	1.241E-04	1.006E-04
11	0.200	2.865E-03	3.102E-03	2.984E-03	60	1.980	7.940E-05	1.220E-04	1.007E-04
12	0.220	2.109E-03	2.329E-03	2.219E-03	61	2.040	8.748E-05	1.332E-04	1.104E-04
13	0.240	1.961E-03	2.142E-03	2.051E-03	62	2.100	6.752E-05	1.133E-04	9.041E-05
14	0.260	1.861E-03	2.013E-03	1.937E-03	63	2.160	8.337E-05	1.285E-04	1.059E-04
15	0.280	1.675E-03	1.812E-03	1.744E-03	64	2.220	7.998E-05	1.243E-04	1.021E-04
16	0.300	1.629E-03	1.759E-03	1.694E-03	65	2.280	6.823E-05	1.136E-04	9.093E-05
17	0.320	1.510E-03	1.636E-03	1.573E-03	66	2.340	5.738E-05	1.034E-04	8.039E-05
18	0.340	1.220E-03	1.342E-03	1.281E-03	67	2.405	6.765E-05	1.177E-04	9.266E-05
19	0.360	1.070E-03	1.192E-03	1.131E-03	68	2.475	5.546E-05	9.953E-05	7.750E-05
20	0.380	1.135E-03	1.259E-03	1.197E-03	69	2.545	8.085E-05	1.263E-04	1.036E-04
21	0.400	1.531E-03	1.667E-03	1.599E-03	70	2.615	8.440E-05	1.292E-04	1.068E-04
22	0.420	2.083E-03	2.223E-03	2.153E-03	71	2.685	6.769E-05	1.105E-04	8.909E-05
23	0.445	2.995E-03	3.138E-03	3.066E-03	72	2.755	5.986E-05	1.015E-04	8.067E-05
24	0.475	2.440E-03	2.568E-03	2.504E-03	73	2.825	3.960E-05	8.066E-05	6.013E-05
25	0.505	1.170E-03	1.276E-03	1.223E-03	74	2.895	2.646E-05	6.862E-05	4.754E-05
26	0.535	7.367E-04	8.335E-04	7.851E-04	75	2.965	-1.832E-05	1.880E-05	2.396E-07
27	0.565	1.159E-03	1.261E-03	1.210E-03	76	3.035	-3.598E-05	1.769E-06	-1.711E-05
28	0.595	1.348E-03	1.451E-03	1.400E-03	77	3.110	-3.834E-05	-3.117E-06	-2.073E-05
29	0.625	9.684E-04	1.067E-03	1.018E-03	78	3.190	-5.416E-05	-2.065E-05	-3.740E-05
30	0.655	1.135E-03	1.235E-03	1.185E-03	79	3.270	-8.951E-06	2.553E-05	8.288E-06
31	0.685	1.400E-03	1.502E-03	1.451E-03	80	3.350	4.571E-05	8.259E-05	6.415E-05
32	0.715	1.345E-03	1.443E-03	1.394E-03	81	3.430	3.907E-05	7.230E-05	5.569E-05
33	0.745	1.071E-03	1.162E-03	1.117E-03	82	3.510	3.209E-05	6.166E-05	4.688E-05
34	0.775	7.579E-04	8.430E-04	8.004E-04	83	3.590	3.987E-05	7.081E-05	5.534E-05
35	0.810	8.210E-04	9.100E-04	8.655E-04	84	3.670	3.108E-05	5.774E-05	4.441E-05
36	0.850	1.007E-03	1.098E-03	1.052E-03	85	3.750	6.976E-06	3.083E-05	1.890E-05
37	0.890	1.131E-03	1.224E-03	1.177E-03	86	3.830	-1.051E-05	1.064E-05	6.683E-08
38	0.930	1.057E-03	1.149E-03	1.103E-03	87	3.915	-1.003E-05	1.096E-05	4.679E-07
39	0.970	1.030E-03	1.118E-03	1.074E-03	88	4.005	-3.840E-06	1.658E-05	6.372E-06
40	1.010	8.805E-04	9.652E-04	9.228E-04	89	4.095	4.558E-06	2.305E-05	1.380E-05
41	1.050	7.453E-04	8.230E-04	7.841E-04	90	4.185	1.755E-05	3.612E-05	2.684E-05
42	1.090	5.253E-04	5.943E-04	5.598E-04	91	4.275	1.807E-05	3.637E-05	2.722E-05
43	1.130	4.633E-04	5.275E-04	4.954E-04	92	4.365	1.324E-05	2.928E-05	2.126E-05
44	1.170	4.180E-04	4.792E-04	4.486E-04	93	4.455	7.989E-06	2.328E-05	1.563E-05
45	1.210	4.116E-04	4.705E-04	4.410E-04	94	4.550	-3.009E-06	1.042E-05	3.707E-06
46	1.250	4.788E-04	5.590E-04	5.189E-04	95	4.650	-8.510E-06	5.074E-06	-1.718E-06
47	1.295	4.770E-04	5.339E-04	5.054E-04	96	4.750	-3.251E-06	7.745E-06	2.247E-06
48	1.345	4.125E-04	4.716E-04	4.420E-04	97	4.850	4.580E-06	1.189E-05	8.237E-06
49	1.395	3.115E-04	3.694E-04	3.405E-04	98	4.950	9.184E-06	1.439E-05	1.179E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 450 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.848E-03	1.803E-02	1.344E-02	50	1.445	2.390E-04	2.887E-04	2.638E-04
2	0.111	7.726E-03	1.977E-02	1.375E-02	51	1.495	1.430E-04	1.884E-04	1.657E-04
3	0.117	3.296E-03	1.553E-02	9.412E-03	52	1.545	1.191E-04	1.615E-04	1.403E-04
4	0.125	1.275E-04	7.089E-03	3.608E-03	53	1.595	1.038E-04	1.473E-04	1.256E-04
5	0.135	3.794E-04	3.057E-03	1.718E-03	54	1.645	7.864E-05	1.208E-04	9.974E-05
6	0.145	2.551E-04	4.911E-03	2.583E-03	55	1.695	1.074E-04	1.503E-04	1.289E-04
7	0.155	1.815E-03	3.940E-03	2.877E-03	56	1.745	1.289E-04	1.731E-04	1.510E-04
8	0.165	2.835E-03	3.414E-03	3.125E-03	57	1.800	1.063E-04	1.496E-04	1.279E-04
9	0.175	2.943E-03	3.993E-03	3.468E-03	58	1.860	7.547E-05	1.186E-04	9.703E-05
10	0.185	2.851E-03	3.288E-03	3.069E-03	59	1.920	7.102E-05	1.146E-04	9.279E-05
11	0.200	2.522E-03	2.744E-03	2.633E-03	60	1.980	1.022E-04	1.427E-04	1.224E-04
12	0.220	1.847E-03	2.053E-03	1.950E-03	61	2.040	1.249E-04	1.679E-04	1.464E-04
13	0.240	1.697E-03	1.867E-03	1.782E-03	62	2.100	8.297E-05	1.241E-04	1.035E-04
14	0.260	1.656E-03	1.799E-03	1.727E-03	63	2.160	8.958E-05	1.313E-04	1.104E-04
15	0.280	1.523E-03	1.653E-03	1.588E-03	64	2.220	8.387E-05	1.222E-04	1.030E-04
16	0.300	1.492E-03	1.615E-03	1.553E-03	65	2.280	3.292E-05	6.992E-05	5.142E-05
17	0.320	1.357E-03	1.475E-03	1.416E-03	66	2.340	3.759E-05	7.630E-05	5.695E-05
18	0.340	1.068E-03	1.182E-03	1.125E-03	67	2.405	2.471E-05	6.514E-05	4.493E-05
19	0.360	9.214E-04	1.035E-03	9.781E-04	68	2.475	1.271E-05	4.966E-05	3.118E-05
20	0.380	9.301E-04	1.044E-03	9.872E-04	69	2.545	5.579E-05	9.439E-05	7.509E-05
21	0.400	1.224E-03	1.350E-03	1.287E-03	70	2.615	5.580E-05	9.305E-05	7.442E-05
22	0.420	1.857E-03	1.989E-03	1.923E-03	71	2.685	3.571E-05	7.189E-05	5.380E-05
23	0.445	2.739E-03	2.874E-03	2.807E-03	72	2.755	3.292E-05	6.661E-05	4.976E-05
24	0.475	2.225E-03	2.345E-03	2.285E-03	73	2.825	2.802E-05	6.202E-05	4.502E-05
25	0.505	1.112E-03	1.212E-03	1.162E-03	74	2.895	3.538E-05	7.132E-05	5.335E-05
26	0.535	6.366E-04	7.254E-04	6.810E-04	75	2.965	1.167E-05	4.395E-05	2.781E-05
27	0.565	9.031E-04	9.964E-04	9.497E-04	76	3.035	-1.251E-05	1.866E-05	3.074E-06
28	0.595	1.046E-03	1.139E-03	1.092E-03	77	3.110	-1.149E-05	1.740E-05	2.956E-06
29	0.625	8.106E-04	9.013E-04	8.559E-04	78	3.190	-2.992E-05	-2.820E-06	-1.637E-05
30	0.655	9.948E-04	1.087E-03	1.041E-03	79	3.270	-1.158E-05	1.642E-05	2.418E-06
31	0.685	1.127E-03	1.219E-03	1.173E-03	80	3.350	1.154E-05	3.816E-05	2.485E-05
32	0.715	9.958E-04	1.083E-03	1.039E-03	81	3.430	6.881E-06	3.191E-05	1.939E-05
33	0.745	8.004E-04	8.826E-04	8.415E-04	82	3.510	1.731E-05	4.079E-05	2.905E-05
34	0.775	6.883E-04	7.676E-04	7.279E-04	83	3.590	3.101E-05	5.574E-05	4.338E-05
35	0.810	6.694E-04	7.504E-04	7.099E-04	84	3.670	2.266E-05	4.568E-05	3.417E-05
36	0.850	8.813E-04	9.663E-04	9.238E-04	85	3.750	4.986E-06	2.351E-05	1.425E-05
37	0.890	1.004E-03	1.091E-03	1.047E-03	86	3.830	-6.791E-06	1.144E-05	2.325E-06
38	0.930	1.018E-03	1.104E-03	1.061E-03	87	3.915	-1.196E-05	4.555E-06	-3.702E-06
39	0.970	8.156E-04	8.947E-04	8.551E-04	88	4.005	-8.833E-06	7.013E-06	-9.099E-07
40	1.010	6.874E-04	7.638E-04	7.256E-04	89	4.095	-9.275E-07	1.454E-05	6.806E-06
41	1.050	6.211E-04	6.919E-04	6.565E-04	90	4.185	8.635E-06	2.475E-05	1.669E-05
42	1.090	4.888E-04	5.519E-04	5.204E-04	91	4.275	1.226E-05	2.755E-05	1.991E-05
43	1.130	3.470E-04	4.041E-04	3.756E-04	92	4.365	8.571E-06	2.196E-05	1.526E-05
44	1.170	2.927E-04	3.458E-04	3.193E-04	93	4.455	1.568E-06	1.398E-05	7.776E-06
45	1.210	3.571E-04	4.107E-04	3.839E-04	94	4.550	-4.991E-06	7.329E-06	1.169E-06
46	1.250	4.089E-04	4.821E-04	4.455E-04	95	4.650	-6.871E-06	5.269E-06	-8.008E-07
47	1.295	4.015E-04	4.527E-04	4.271E-04	96	4.750	-3.773E-06	5.437E-06	8.323E-07
48	1.345	3.062E-04	3.581E-04	3.322E-04	97	4.850	1.517E-06	7.604E-06	4.560E-06
49	1.395	2.723E-04	3.247E-04	2.985E-04	98	4.950	5.042E-06	9.706E-06	7.374E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 550 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.192E-03	1.635E-02	1.227E-02	50	1.445	1.806E-04	2.120E-04	1.963E-04
2	0.111	7.123E-03	1.790E-02	1.251E-02	51	1.495	1.288E-04	1.570E-04	1.429E-04
3	0.117	3.157E-03	1.395E-02	8.551E-03	52	1.545	1.024E-04	1.286E-04	1.155E-04
4	0.125	2.198E-04	6.391E-03	3.306E-03	53	1.595	8.135E-05	1.082E-04	9.478E-05
5	0.135	4.440E-04	2.697E-03	1.570E-03	54	1.645	7.148E-05	9.753E-05	8.451E-05
6	0.145	2.890E-04	4.236E-03	2.262E-03	55	1.695	1.017E-04	1.287E-04	1.152E-04
7	0.155	1.620E-03	3.427E-03	2.524E-03	56	1.745	1.064E-04	1.336E-04	1.200E-04
8	0.165	2.613E-03	3.018E-03	2.815E-03	57	1.800	8.391E-05	1.104E-04	9.715E-05
9	0.175	2.786E-03	3.559E-03	3.172E-03	58	1.860	6.350E-05	8.951E-05	7.651E-05
10	0.185	2.690E-03	3.005E-03	2.847E-03	59	1.920	7.551E-05	1.030E-04	8.928E-05
11	0.200	2.365E-03	2.512E-03	2.439E-03	60	1.980	7.741E-05	1.020E-04	8.971E-05
12	0.220	1.637E-03	1.767E-03	1.702E-03	61	2.040	7.560E-05	1.012E-04	8.841E-05
13	0.240	1.450E-03	1.555E-03	1.503E-03	62	2.100	4.062E-05	6.484E-05	5.273E-05
14	0.260	1.423E-03	1.513E-03	1.468E-03	63	2.160	7.489E-05	1.012E-04	8.803E-05
15	0.280	1.270E-03	1.352E-03	1.311E-03	64	2.220	8.704E-05	1.117E-04	9.938E-05
16	0.300	1.222E-03	1.299E-03	1.261E-03	65	2.280	6.824E-05	9.246E-05	8.035E-05
17	0.320	1.184E-03	1.259E-03	1.221E-03	66	2.340	3.236E-05	5.505E-05	4.371E-05
18	0.340	9.253E-04	9.977E-04	9.615E-04	67	2.405	3.266E-05	5.647E-05	4.456E-05
19	0.360	7.903E-04	8.621E-04	8.262E-04	68	2.475	3.537E-05	5.809E-05	4.673E-05
20	0.380	7.696E-04	8.414E-04	8.055E-04	69	2.545	4.460E-05	6.781E-05	5.620E-05
21	0.400	9.501E-04	1.028E-03	9.893E-04	70	2.615	5.579E-05	7.866E-05	6.723E-05
22	0.420	1.479E-03	1.563E-03	1.521E-03	71	2.685	2.791E-05	4.935E-05	3.863E-05
23	0.445	2.458E-03	2.545E-03	2.502E-03	72	2.755	2.496E-05	4.475E-05	3.485E-05
24	0.475	2.024E-03	2.102E-03	2.063E-03	73	2.825	1.353E-05	3.192E-05	2.272E-05
25	0.505	9.505E-04	1.014E-03	9.821E-04	74	2.895	-4.114E-06	1.438E-05	5.134E-06
26	0.535	5.526E-04	6.088E-04	5.807E-04	75	2.965	-5.209E-07	1.796E-05	8.719E-06
27	0.565	7.370E-04	7.957E-04	7.663E-04	76	3.035	-6.129E-06	1.209E-05	2.981E-06
28	0.595	9.002E-04	9.595E-04	9.299E-04	77	3.110	-6.413E-06	1.020E-05	1.891E-06
29	0.625	6.902E-04	7.479E-04	7.191E-04	78	3.190	8.309E-06	2.579E-05	1.705E-05
30	0.655	9.194E-04	9.781E-04	9.487E-04	79	3.270	2.332E-06	1.912E-05	1.073E-05
31	0.685	9.433E-04	1.001E-03	9.722E-04	80	3.350	-6.308E-07	1.441E-05	6.888E-06
32	0.715	7.868E-04	8.408E-04	8.138E-04	81	3.430	8.288E-06	2.346E-05	1.587E-05
33	0.745	6.751E-04	7.268E-04	7.010E-04	82	3.510	1.309E-05	2.718E-05	2.014E-05
34	0.775	5.727E-04	6.220E-04	5.973E-04	83	3.590	7.798E-06	2.064E-05	1.422E-05
35	0.810	5.377E-04	5.879E-04	5.628E-04	84	3.670	6.183E-06	1.823E-05	1.221E-05
36	0.850	6.778E-04	7.300E-04	7.039E-04	85	3.750	-1.745E-06	8.248E-06	3.251E-06
37	0.890	8.136E-04	8.680E-04	8.408E-04	86	3.830	-5.533E-06	4.156E-06	-6.881E-07
38	0.930	8.580E-04	9.118E-04	8.849E-04	87	3.915	4.558E-06	1.395E-05	9.255E-06
39	0.970	6.735E-04	7.232E-04	6.984E-04	88	4.005	9.938E-06	1.947E-05	1.471E-05
40	1.010	5.834E-04	6.310E-04	6.072E-04	89	4.095	6.617E-06	1.402E-05	1.032E-05
41	1.050	5.430E-04	5.873E-04	5.651E-04	90	4.185	8.818E-06	1.633E-05	1.257E-05
42	1.090	3.675E-04	4.059E-04	3.867E-04	91	4.275	9.005E-06	1.665E-05	1.283E-05
43	1.130	2.638E-04	2.983E-04	2.811E-04	92	4.365	3.714E-06	1.044E-05	7.077E-06
44	1.170	2.225E-04	2.552E-04	2.388E-04	93	4.455	-1.246E-06	4.897E-06	1.825E-06
45	1.210	2.812E-04	3.143E-04	2.977E-04	94	4.550	-4.540E-06	1.161E-06	-1.689E-06
46	1.250	3.368E-04	3.812E-04	3.590E-04	95	4.650	-4.276E-06	1.371E-06	-1.453E-06
47	1.295	3.069E-04	3.383E-04	3.226E-04	96	4.750	-1.078E-06	3.556E-06	1.239E-06
48	1.345	2.358E-04	2.673E-04	2.515E-04	97	4.850	1.369E-06	4.721E-06	3.045E-06
49	1.395	1.821E-04	2.130E-04	1.976E-04	98	4.950	2.164E-06	4.755E-06	3.460E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 750 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.313E-03	1.451E-02	1.091E-02	50	1.445	1.608E-04	1.891E-04	1.749E-04
2	0.111	6.380E-03	1.593E-02	1.116E-02	51	1.495	1.199E-04	1.457E-04	1.328E-04
3	0.117	2.911E-03	1.243E-02	7.671E-03	52	1.545	7.885E-05	1.025E-04	9.066E-05
4	0.125	2.802E-04	5.731E-03	3.006E-03	53	1.595	5.745E-05	8.041E-05	6.893E-05
5	0.135	3.819E-04	2.341E-03	1.362E-03	54	1.645	5.830E-05	8.167E-05	6.999E-05
6	0.145	2.060E-04	3.643E-03	1.925E-03	55	1.695	6.355E-05	8.648E-05	7.502E-05
7	0.155	1.467E-03	3.038E-03	2.252E-03	56	1.745	6.605E-05	8.957E-05	7.781E-05
8	0.165	2.328E-03	2.691E-03	2.509E-03	57	1.800	7.206E-05	9.573E-05	8.390E-05
9	0.175	2.431E-03	3.117E-03	2.774E-03	58	1.860	3.967E-05	6.222E-05	5.094E-05
10	0.185	2.372E-03	2.654E-03	2.513E-03	59	1.920	5.157E-05	7.474E-05	6.316E-05
11	0.200	1.969E-03	2.103E-03	2.036E-03	60	1.980	4.748E-05	6.888E-05	5.818E-05
12	0.220	1.341E-03	1.461E-03	1.401E-03	61	2.040	7.341E-05	9.637E-05	8.489E-05
13	0.240	1.231E-03	1.329E-03	1.280E-03	62	2.100	4.357E-05	6.527E-05	5.442E-05
14	0.260	1.215E-03	1.298E-03	1.256E-03	63	2.160	4.902E-05	7.109E-05	6.006E-05
15	0.280	1.085E-03	1.161E-03	1.123E-03	64	2.220	6.562E-05	8.729E-05	7.645E-05
16	0.300	1.043E-03	1.114E-03	1.078E-03	65	2.280	4.419E-05	6.415E-05	5.417E-05
17	0.320	9.960E-04	1.065E-03	1.031E-03	66	2.340	1.992E-05	3.911E-05	2.951E-05
18	0.340	8.142E-04	8.812E-04	8.477E-04	67	2.405	2.055E-05	4.095E-05	3.075E-05
19	0.360	6.970E-04	7.629E-04	7.299E-04	68	2.475	2.435E-05	4.344E-05	3.389E-05
20	0.380	6.489E-04	7.140E-04	6.815E-04	69	2.545	3.508E-05	5.444E-05	4.476E-05
21	0.400	7.256E-04	7.960E-04	7.608E-04	70	2.615	4.580E-05	6.554E-05	5.567E-05
22	0.420	1.091E-03	1.166E-03	1.128E-03	71	2.685	2.999E-05	4.846E-05	3.923E-05
23	0.445	2.104E-03	2.185E-03	2.145E-03	72	2.755	1.524E-05	3.119E-05	2.322E-05
24	0.475	1.808E-03	1.880E-03	1.844E-03	73	2.825	9.854E-06	2.528E-05	1.757E-05
25	0.505	7.704E-04	8.276E-04	7.990E-04	74	2.895	7.065E-06	2.321E-05	1.514E-05
26	0.535	4.880E-04	5.392E-04	5.136E-04	75	2.965	4.419E-06	1.925E-05	1.184E-05
27	0.565	6.110E-04	6.644E-04	6.377E-04	76	3.035	-9.084E-06	4.791E-06	-2.147E-06
28	0.595	7.386E-04	7.921E-04	7.654E-04	77	3.110	-1.297E-05	-1.325E-07	-6.550E-06
29	0.625	5.883E-04	6.405E-04	6.144E-04	78	3.190	-1.305E-05	1.229E-07	-6.461E-06
30	0.655	6.961E-04	7.483E-04	7.222E-04	79	3.270	-2.958E-06	1.072E-05	3.883E-06
31	0.685	7.520E-04	8.040E-04	7.780E-04	80	3.350	1.672E-06	1.403E-05	7.850E-06
32	0.715	6.427E-04	6.912E-04	6.669E-04	81	3.430	-4.513E-08	1.144E-05	5.699E-06
33	0.745	5.157E-04	5.617E-04	5.387E-04	82	3.510	6.868E-06	1.746E-05	1.216E-05
34	0.775	4.399E-04	4.835E-04	4.617E-04	83	3.590	1.274E-05	2.396E-05	1.835E-05
35	0.810	3.883E-04	4.327E-04	4.105E-04	84	3.670	1.185E-05	2.201E-05	1.693E-05
36	0.850	4.876E-04	5.337E-04	5.106E-04	85	3.750	5.735E-06	1.409E-05	9.913E-06
37	0.890	6.828E-04	7.321E-04	7.075E-04	86	3.830	-7.424E-07	7.378E-06	3.318E-06
38	0.930	6.734E-04	7.217E-04	6.975E-04	87	3.915	-3.148E-06	4.192E-06	5.220E-07
39	0.970	4.935E-04	5.373E-04	5.154E-04	88	4.005	-5.792E-07	6.861E-06	3.141E-06
40	1.010	4.586E-04	5.018E-04	4.802E-04	89	4.095	2.855E-06	9.547E-06	6.201E-06
41	1.050	4.677E-04	5.084E-04	4.881E-04	90	4.185	2.951E-06	1.053E-05	6.742E-06
42	1.090	2.817E-04	3.157E-04	2.987E-04	91	4.275	6.260E-07	8.868E-06	4.747E-06
43	1.130	1.927E-04	2.234E-04	2.080E-04	92	4.365	-1.421E-06	6.660E-06	2.620E-06
44	1.170	1.845E-04	2.142E-04	1.994E-04	93	4.455	-3.830E-06	3.116E-06	-3.571E-07
45	1.210	2.105E-04	2.399E-04	2.252E-04	94	4.550	-6.680E-06	1.881E-07	-3.246E-06
46	1.250	2.661E-04	3.065E-04	2.863E-04	95	4.650	-6.624E-06	1.362E-06	-2.631E-06
47	1.295	2.564E-04	2.846E-04	2.705E-04	96	4.750	-3.262E-06	3.328E-06	3.321E-08
48	1.345	1.763E-04	2.045E-04	1.904E-04	97	4.850	5.502E-07	4.470E-06	2.510E-06
49	1.395	1.589E-04	1.876E-04	1.732E-04	98	4.950	2.079E-06	5.275E-06	3.677E-06



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 950 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.269E-03	1.230E-02	9.282E-03	50	1.445	1.528E-04	1.710E-04	1.619E-04
2	0.111	5.494E-03	1.354E-02	9.515E-03	51	1.495	1.100E-04	1.261E-04	1.180E-04
3	0.117	2.574E-03	1.051E-02	6.542E-03	52	1.545	5.259E-05	6.635E-05	5.947E-05
4	0.125	2.510E-04	4.807E-03	2.529E-03	53	1.595	3.328E-05	4.717E-05	4.023E-05
5	0.135	3.419E-04	1.931E-03	1.137E-03	54	1.645	3.289E-05	4.653E-05	3.971E-05
6	0.145	2.524E-04	3.051E-03	1.652E-03	55	1.695	4.887E-05	6.288E-05	5.588E-05
7	0.155	1.244E-03	2.529E-03	1.886E-03	56	1.745	4.942E-05	6.382E-05	5.662E-05
8	0.165	1.949E-03	2.209E-03	2.079E-03	57	1.800	4.860E-05	6.281E-05	5.571E-05
9	0.175	2.067E-03	2.577E-03	2.322E-03	58	1.860	4.818E-05	6.244E-05	5.531E-05
10	0.185	1.986E-03	2.194E-03	2.090E-03	59	1.920	4.329E-05	5.741E-05	5.035E-05
11	0.200	1.692E-03	1.784E-03	1.738E-03	60	1.980	3.997E-05	5.303E-05	4.650E-05
12	0.220	1.140E-03	1.215E-03	1.177E-03	61	2.040	5.276E-05	6.635E-05	5.956E-05
13	0.240	9.882E-04	1.049E-03	1.019E-03	62	2.100	3.250E-05	4.565E-05	3.907E-05
14	0.260	9.938E-04	1.046E-03	1.020E-03	63	2.160	3.610E-05	4.981E-05	4.295E-05
15	0.280	8.964E-04	9.436E-04	9.200E-04	64	2.220	5.939E-05	7.278E-05	6.608E-05
16	0.300	8.684E-04	9.131E-04	8.907E-04	65	2.280	4.505E-05	5.753E-05	5.129E-05
17	0.320	8.153E-04	8.588E-04	8.370E-04	66	2.340	2.292E-05	3.454E-05	2.873E-05
18	0.340	6.181E-04	6.595E-04	6.388E-04	67	2.405	1.755E-05	2.950E-05	2.353E-05
19	0.360	5.352E-04	5.761E-04	5.557E-04	68	2.475	1.940E-05	3.060E-05	2.500E-05
20	0.380	5.051E-04	5.457E-04	5.254E-04	69	2.545	2.473E-05	3.613E-05	3.043E-05
21	0.400	5.679E-04	6.117E-04	5.898E-04	70	2.615	3.574E-05	4.791E-05	4.182E-05
22	0.420	9.223E-04	9.699E-04	9.461E-04	71	2.685	2.743E-05	3.846E-05	3.295E-05
23	0.445	1.749E-03	1.800E-03	1.774E-03	72	2.755	1.263E-05	2.117E-05	1.690E-05
24	0.475	1.507E-03	1.552E-03	1.529E-03	73	2.825	5.359E-06	1.349E-05	9.423E-06
25	0.505	6.666E-04	7.029E-04	6.847E-04	74	2.895	3.259E-06	1.155E-05	7.407E-06
26	0.535	4.146E-04	4.468E-04	4.307E-04	75	2.965	2.487E-07	8.358E-06	4.304E-06
27	0.565	4.665E-04	4.994E-04	4.830E-04	76	3.035	-4.473E-06	2.837E-06	-8.183E-07
28	0.595	5.387E-04	5.716E-04	5.552E-04	77	3.110	-2.303E-06	5.098E-06	1.397E-06
29	0.625	4.837E-04	5.166E-04	5.001E-04	78	3.190	-2.064E-06	4.892E-06	1.414E-06
30	0.655	6.203E-04	6.536E-04	6.369E-04	79	3.270	-2.240E-06	4.095E-06	9.276E-07
31	0.685	6.294E-04	6.619E-04	6.457E-04	80	3.350	4.274E-08	5.952E-06	2.997E-06
32	0.715	4.612E-04	4.908E-04	4.760E-04	81	3.430	1.824E-06	7.907E-06	4.865E-06
33	0.745	4.023E-04	4.307E-04	4.165E-04	82	3.510	4.882E-06	1.076E-05	7.820E-06
34	0.775	3.400E-04	3.669E-04	3.534E-04	83	3.590	9.988E-06	1.581E-05	1.290E-05
35	0.810	3.084E-04	3.358E-04	3.221E-04	84	3.670	7.737E-06	1.289E-05	1.031E-05
36	0.850	3.581E-04	3.863E-04	3.722E-04	85	3.750	1.448E-06	5.313E-06	3.381E-06
37	0.890	5.260E-04	5.567E-04	5.413E-04	86	3.830	-1.235E-06	2.222E-06	4.937E-07
38	0.930	5.687E-04	5.992E-04	5.839E-04	87	3.915	-9.596E-08	3.505E-06	1.704E-06
39	0.970	4.134E-04	4.411E-04	4.273E-04	88	4.005	1.432E-06	4.770E-06	3.101E-06
40	1.010	3.469E-04	3.734E-04	3.602E-04	89	4.095	1.490E-06	4.567E-06	3.029E-06
41	1.050	3.607E-04	3.859E-04	3.733E-04	90	4.185	6.589E-07	3.486E-06	2.072E-06
42	1.090	2.487E-04	2.702E-04	2.595E-04	91	4.275	2.977E-07	2.803E-06	1.550E-06
43	1.130	1.552E-04	1.741E-04	1.646E-04	92	4.365	9.097E-08	2.519E-06	1.305E-06
44	1.170	1.174E-04	1.352E-04	1.263E-04	93	4.455	-2.120E-08	2.147E-06	1.063E-06
45	1.210	1.646E-04	1.828E-04	1.737E-04	94	4.550	-1.152E-07	1.707E-06	7.961E-07
46	1.250	2.311E-04	2.562E-04	2.437E-04	95	4.650	-1.077E-07	1.249E-06	5.705E-07
47	1.295	1.999E-04	2.170E-04	2.085E-04	96	4.750	6.121E-08	1.083E-06	5.721E-07
48	1.345	1.225E-04	1.396E-04	1.311E-04	97	4.850	1.173E-07	1.039E-06	5.780E-07
49	1.395	1.345E-04	1.527E-04	1.436E-04	98	4.950	1.946E-07	7.581E-07	4.763E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1350 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	5.066E-03	9.972E-03	7.519E-03	50	1.445	1.343E-04	1.513E-04	1.428E-04
2	0.111	4.546E-03	1.111E-02	7.826E-03	51	1.495	8.358E-05	9.811E-05	9.084E-05
3	0.117	2.203E-03	8.671E-03	5.437E-03	52	1.545	4.739E-05	6.006E-05	5.372E-05
4	0.125	2.053E-04	3.917E-03	2.061E-03	53	1.595	3.397E-05	4.677E-05	4.037E-05
5	0.135	2.443E-04	1.534E-03	8.893E-04	54	1.645	3.055E-05	4.292E-05	3.673E-05
6	0.145	2.519E-04	2.525E-03	1.389E-03	55	1.695	3.545E-05	4.784E-05	4.165E-05
7	0.155	1.009E-03	2.052E-03	1.530E-03	56	1.745	3.059E-05	4.301E-05	3.680E-05
8	0.165	1.565E-03	1.784E-03	1.675E-03	57	1.800	3.576E-05	4.839E-05	4.208E-05
9	0.175	1.690E-03	2.115E-03	1.903E-03	58	1.860	2.941E-05	4.175E-05	3.558E-05
10	0.185	1.546E-03	1.718E-03	1.632E-03	59	1.920	2.930E-05	4.154E-05	3.542E-05
11	0.200	1.334E-03	1.411E-03	1.372E-03	60	1.980	2.981E-05	4.168E-05	3.575E-05
12	0.220	9.006E-04	9.674E-04	9.340E-04	61	2.040	4.085E-05	5.306E-05	4.695E-05
13	0.240	7.698E-04	8.242E-04	7.970E-04	62	2.100	2.882E-05	4.096E-05	3.489E-05
14	0.260	7.517E-04	7.979E-04	7.748E-04	63	2.160	2.587E-05	3.786E-05	3.186E-05
15	0.280	6.924E-04	7.344E-04	7.134E-04	64	2.220	4.834E-05	6.047E-05	5.441E-05
16	0.300	6.502E-04	6.897E-04	6.699E-04	65	2.280	3.624E-05	4.731E-05	4.177E-05
17	0.320	6.144E-04	6.528E-04	6.336E-04	66	2.340	1.546E-05	2.551E-05	2.049E-05
18	0.340	4.802E-04	5.172E-04	4.987E-04	67	2.405	1.144E-05	2.166E-05	1.655E-05
19	0.360	4.181E-04	4.545E-04	4.363E-04	68	2.475	1.637E-05	2.621E-05	2.129E-05
20	0.380	3.736E-04	4.094E-04	3.915E-04	69	2.545	2.604E-05	3.641E-05	3.122E-05
21	0.400	4.273E-04	4.662E-04	4.468E-04	70	2.615	3.347E-05	4.410E-05	3.878E-05
22	0.420	6.944E-04	7.366E-04	7.155E-04	71	2.685	1.598E-05	2.515E-05	2.056E-05
23	0.445	1.348E-03	1.394E-03	1.371E-03	72	2.755	6.508E-06	1.420E-05	1.035E-05
24	0.475	1.268E-03	1.310E-03	1.289E-03	73	2.825	4.368E-06	1.115E-05	7.757E-06
25	0.505	5.757E-04	6.087E-04	5.922E-04	74	2.895	1.239E-06	8.312E-06	4.776E-06
26	0.535	3.326E-04	3.614E-04	3.470E-04	75	2.965	-3.352E-06	2.661E-06	-3.458E-07
27	0.565	3.510E-04	3.801E-04	3.655E-04	76	3.035	-4.419E-06	1.425E-06	-1.497E-06
28	0.595	4.055E-04	4.347E-04	4.201E-04	77	3.110	-1.758E-06	4.083E-06	1.163E-06
29	0.625	3.710E-04	4.003E-04	3.857E-04	78	3.190	-2.125E-07	6.108E-06	2.948E-06
30	0.655	5.206E-04	5.507E-04	5.357E-04	79	3.270	-1.387E-06	3.657E-06	1.135E-06
31	0.685	5.008E-04	5.297E-04	5.153E-04	80	3.350	6.211E-07	5.909E-06	3.265E-06
32	0.715	3.389E-04	3.648E-04	3.519E-04	81	3.430	8.597E-07	5.589E-06	3.225E-06
33	0.745	2.831E-04	3.079E-04	2.955E-04	82	3.510	3.724E-06	8.388E-06	6.056E-06
34	0.775	2.810E-04	3.052E-04	2.931E-04	83	3.590	3.221E-06	7.714E-06	5.468E-06
35	0.810	2.364E-04	2.606E-04	2.485E-04	84	3.670	2.299E-06	5.911E-06	4.105E-06
36	0.850	2.675E-04	2.924E-04	2.799E-04	85	3.750	3.175E-06	6.764E-06	4.969E-06
37	0.890	4.080E-04	4.352E-04	4.216E-04	86	3.830	1.119E-06	4.097E-06	2.608E-06
38	0.930	4.342E-04	4.612E-04	4.477E-04	87	3.915	-2.196E-07	2.382E-06	1.081E-06
39	0.970	3.144E-04	3.389E-04	3.266E-04	88	4.005	1.118E-06	3.769E-06	2.444E-06
40	1.010	2.552E-04	2.787E-04	2.669E-04	89	4.095	1.518E-06	3.989E-06	2.754E-06
41	1.050	2.876E-04	3.102E-04	2.989E-04	90	4.185	7.676E-07	3.022E-06	1.895E-06
42	1.090	1.825E-04	2.013E-04	1.919E-04	91	4.275	-2.650E-07	1.973E-06	8.539E-07
43	1.130	9.972E-05	1.159E-04	1.078E-04	92	4.365	-9.468E-07	1.104E-06	7.837E-08
44	1.170	8.190E-05	9.758E-05	8.974E-05	93	4.455	-1.504E-06	4.152E-07	-5.442E-07
45	1.210	9.819E-05	1.137E-04	1.059E-04	94	4.550	-1.930E-06	-7.061E-08	-1.000E-06
46	1.250	1.582E-04	1.801E-04	1.692E-04	95	4.650	-1.706E-06	2.403E-07	-7.329E-07
47	1.295	1.454E-04	1.605E-04	1.530E-04	96	4.750	-8.538E-07	8.036E-07	-2.506E-08
48	1.345	8.225E-05	9.755E-05	8.990E-05	97	4.850	6.236E-08	1.160E-06	6.113E-07
49	1.395	1.110E-04	1.276E-04	1.193E-04	98	4.950	4.662E-07	1.328E-06	8.972E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1750 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.106E-03	8.093E-03	6.099E-03	50	1.445	1.339E-04	1.504E-04	1.421E-04
2	0.111	3.684E-03	9.018E-03	6.351E-03	51	1.495	8.109E-05	9.486E-05	8.798E-05
3	0.117	1.799E-03	7.060E-03	4.430E-03	52	1.545	4.327E-05	5.514E-05	4.920E-05
4	0.125	1.969E-04	3.216E-03	1.706E-03	53	1.595	2.562E-05	3.719E-05	3.140E-05
5	0.135	1.852E-04	1.232E-03	7.084E-04	54	1.645	1.631E-05	2.732E-05	2.182E-05
6	0.145	1.527E-04	1.997E-03	1.075E-03	55	1.695	3.287E-05	4.465E-05	3.876E-05
7	0.155	8.246E-04	1.667E-03	1.246E-03	56	1.745	3.785E-05	4.982E-05	4.383E-05
8	0.165	1.281E-03	1.468E-03	1.374E-03	57	1.800	2.723E-05	3.853E-05	3.288E-05
9	0.175	1.356E-03	1.714E-03	1.535E-03	58	1.860	2.349E-05	3.485E-05	2.917E-05
10	0.185	1.280E-03	1.426E-03	1.353E-03	59	1.920	2.682E-05	3.819E-05	3.251E-05
11	0.200	1.093E-03	1.161E-03	1.127E-03	60	1.980	1.895E-05	2.953E-05	2.424E-05
12	0.220	7.063E-04	7.658E-04	7.361E-04	61	2.040	2.787E-05	3.906E-05	3.347E-05
13	0.240	5.540E-04	6.025E-04	5.783E-04	62	2.100	2.333E-05	3.430E-05	2.882E-05
14	0.260	5.648E-04	6.063E-04	5.855E-04	63	2.160	1.546E-05	2.660E-05	2.103E-05
15	0.280	5.582E-04	5.963E-04	5.772E-04	64	2.220	3.084E-05	4.176E-05	3.630E-05
16	0.300	5.392E-04	5.752E-04	5.572E-04	65	2.280	3.649E-05	4.727E-05	4.188E-05
17	0.320	4.899E-04	5.247E-04	5.073E-04	66	2.340	2.115E-05	3.084E-05	2.599E-05
18	0.340	3.863E-04	4.198E-04	4.031E-04	67	2.405	1.263E-05	2.184E-05	1.724E-05
19	0.360	3.391E-04	3.721E-04	3.556E-04	68	2.475	1.618E-05	2.519E-05	2.068E-05
20	0.380	2.990E-04	3.313E-04	3.152E-04	69	2.545	1.576E-05	2.475E-05	2.025E-05
21	0.400	3.104E-04	3.450E-04	3.277E-04	70	2.615	2.753E-05	3.707E-05	3.230E-05
22	0.420	5.187E-04	5.566E-04	5.377E-04	71	2.685	2.246E-05	3.143E-05	2.695E-05
23	0.445	1.116E-03	1.158E-03	1.137E-03	72	2.755	5.684E-06	1.184E-05	8.764E-06
24	0.475	1.050E-03	1.088E-03	1.069E-03	73	2.825	4.690E-07	5.916E-06	3.192E-06
25	0.505	4.595E-04	4.894E-04	4.745E-04	74	2.895	-1.857E-06	3.649E-06	8.960E-07
26	0.535	2.739E-04	3.001E-04	2.870E-04	75	2.965	-2.907E-06	2.161E-06	-3.729E-07
27	0.565	2.970E-04	3.236E-04	3.103E-04	76	3.035	-4.352E-06	2.274E-07	-2.062E-06
28	0.595	3.049E-04	3.310E-04	3.179E-04	77	3.110	-2.214E-06	2.580E-06	1.832E-07
29	0.625	2.875E-04	3.139E-04	3.007E-04	78	3.190	3.449E-07	5.432E-06	2.889E-06
30	0.655	3.972E-04	4.241E-04	4.107E-04	79	3.270	-6.878E-07	3.494E-06	1.403E-06
31	0.685	4.122E-04	4.385E-04	4.253E-04	80	3.350	1.300E-06	5.487E-06	3.393E-06
32	0.715	2.744E-04	2.979E-04	2.861E-04	81	3.430	2.197E-06	6.279E-06	4.238E-06
33	0.745	2.244E-04	2.469E-04	2.356E-04	82	3.510	1.913E-06	5.905E-06	3.909E-06
34	0.775	2.206E-04	2.425E-04	2.316E-04	83	3.590	2.180E-06	5.822E-06	4.001E-06
35	0.810	1.864E-04	2.083E-04	1.974E-04	84	3.670	1.318E-06	4.671E-06	2.995E-06
36	0.850	2.104E-04	2.329E-04	2.217E-04	85	3.750	1.158E-07	2.707E-06	1.412E-06
37	0.890	3.191E-04	3.437E-04	3.314E-04	86	3.830	-5.332E-07	1.712E-06	5.896E-07
38	0.930	3.399E-04	3.645E-04	3.522E-04	87	3.915	-3.006E-07	1.827E-06	7.630E-07
39	0.970	2.550E-04	2.774E-04	2.662E-04	88	4.005	6.905E-07	2.830E-06	1.760E-06
40	1.010	2.171E-04	2.387E-04	2.279E-04	89	4.095	1.165E-06	3.440E-06	2.302E-06
41	1.050	2.196E-04	2.400E-04	2.298E-04	90	4.185	6.977E-07	2.645E-06	1.672E-06
42	1.090	1.418E-04	1.590E-04	1.504E-04	91	4.275	-3.549E-07	1.347E-06	4.961E-07
43	1.130	7.949E-05	9.448E-05	8.698E-05	92	4.365	-9.257E-07	5.260E-07	-1.999E-07
44	1.170	6.238E-05	7.652E-05	6.945E-05	93	4.455	-1.093E-06	1.952E-07	-4.487E-07
45	1.210	6.775E-05	8.159E-05	7.467E-05	94	4.550	-1.051E-06	1.656E-07	-4.429E-07
46	1.250	1.036E-04	1.231E-04	1.134E-04	95	4.650	-7.520E-07	4.918E-07	-1.301E-07
47	1.295	1.042E-04	1.177E-04	1.110E-04	96	4.750	-3.307E-07	7.411E-07	2.052E-07
48	1.345	6.773E-05	8.194E-05	7.483E-05	97	4.850	5.904E-08	7.807E-07	4.199E-07
49	1.395	9.147E-05	1.071E-04	9.931E-05	98	4.950	2.626E-07	7.511E-07	5.069E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2150 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.262E-03	6.410E-03	4.836E-03	50	1.445	1.066E-04	1.204E-04	1.135E-04
2	0.111	2.899E-03	7.112E-03	5.006E-03	51	1.495	8.807E-05	1.002E-04	9.414E-05
3	0.117	1.391E-03	5.547E-03	3.469E-03	52	1.545	4.580E-05	5.565E-05	5.073E-05
4	0.125	1.394E-04	2.523E-03	1.331E-03	53	1.595	1.762E-05	2.690E-05	2.226E-05
5	0.135	1.597E-04	9.936E-04	5.767E-04	54	1.645	1.215E-05	2.095E-05	1.655E-05
6	0.145	1.335E-04	1.602E-03	8.676E-04	55	1.695	1.327E-05	2.208E-05	1.768E-05
7	0.155	6.465E-04	1.317E-03	9.819E-04	56	1.745	2.189E-05	3.136E-05	2.662E-05
8	0.165	1.006E-03	1.155E-03	1.081E-03	57	1.800	2.740E-05	3.691E-05	3.216E-05
9	0.175	1.070E-03	1.356E-03	1.213E-03	58	1.860	2.445E-05	3.388E-05	2.916E-05
10	0.185	1.001E-03	1.118E-03	1.060E-03	59	1.920	2.624E-05	3.573E-05	3.099E-05
11	0.200	8.484E-04	9.033E-04	8.758E-04	60	1.980	2.536E-05	3.431E-05	2.983E-05
12	0.220	5.592E-04	6.072E-04	5.832E-04	61	2.040	1.698E-05	2.559E-05	2.128E-05
13	0.240	4.403E-04	4.793E-04	4.598E-04	62	2.100	1.413E-05	2.304E-05	1.858E-05
14	0.260	4.414E-04	4.747E-04	4.580E-04	63	2.160	8.321E-06	1.709E-05	1.271E-05
15	0.280	4.327E-04	4.630E-04	4.479E-04	64	2.220	2.192E-05	3.063E-05	2.628E-05
16	0.300	4.221E-04	4.508E-04	4.365E-04	65	2.280	2.854E-05	3.746E-05	3.300E-05
17	0.320	3.814E-04	4.093E-04	3.954E-04	66	2.340	1.561E-05	2.340E-05	1.950E-05
18	0.340	2.918E-04	3.185E-04	3.051E-04	67	2.405	1.010E-05	1.777E-05	1.393E-05
19	0.360	2.577E-04	2.842E-04	2.709E-04	68	2.475	1.262E-05	2.024E-05	1.643E-05
20	0.380	2.462E-04	2.723E-04	2.593E-04	69	2.545	1.379E-05	2.116E-05	1.747E-05
21	0.400	2.655E-04	2.937E-04	2.796E-04	70	2.615	2.307E-05	3.137E-05	2.722E-05
22	0.420	4.299E-04	4.605E-04	4.452E-04	71	2.685	1.412E-05	2.145E-05	1.778E-05
23	0.445	8.737E-04	9.069E-04	8.903E-04	72	2.755	5.744E-06	1.135E-05	8.548E-06
24	0.475	8.344E-04	8.648E-04	8.496E-04	73	2.825	2.364E-07	4.758E-06	2.497E-06
25	0.505	3.641E-04	3.882E-04	3.762E-04	74	2.895	-1.975E-06	2.630E-06	3.274E-07
26	0.535	2.248E-04	2.460E-04	2.354E-04	75	2.965	4.054E-07	4.946E-06	2.676E-06
27	0.565	2.229E-04	2.442E-04	2.335E-04	76	3.035	-5.435E-07	3.847E-06	1.652E-06
28	0.595	2.218E-04	2.426E-04	2.322E-04	77	3.110	-1.862E-06	2.321E-06	2.298E-06
29	0.625	2.124E-04	2.335E-04	2.230E-04	78	3.190	-1.741E-06	2.228E-06	2.434E-07
30	0.655	3.400E-04	3.620E-04	3.510E-04	79	3.270	-4.975E-07	3.430E-06	1.466E-06
31	0.685	3.345E-04	3.558E-04	3.451E-04	80	3.350	9.457E-08	3.860E-06	1.977E-06
32	0.715	2.249E-04	2.440E-04	2.344E-04	81	3.430	-1.517E-07	3.431E-06	1.640E-06
33	0.745	1.895E-04	2.079E-04	1.987E-04	82	3.510	1.138E-06	4.511E-06	2.824E-06
34	0.775	1.709E-04	1.885E-04	1.797E-04	83	3.590	1.418E-06	4.713E-06	3.065E-06
35	0.810	1.428E-04	1.605E-04	1.517E-04	84	3.670	1.392E-06	4.489E-06	2.941E-06
36	0.850	1.889E-04	2.076E-04	1.982E-04	85	3.750	6.988E-07	3.432E-06	2.065E-06
37	0.890	2.757E-04	2.960E-04	2.859E-04	86	3.830	-7.787E-07	2.224E-06	7.228E-07
38	0.930	2.832E-04	3.033E-04	2.932E-04	87	3.915	-4.343E-07	2.224E-06	8.949E-07
39	0.970	2.022E-04	2.204E-04	2.113E-04	88	4.005	1.442E-07	2.824E-06	1.484E-06
40	1.010	1.641E-04	1.814E-04	1.728E-04	89	4.095	-4.890E-07	2.259E-06	8.851E-07
41	1.050	1.697E-04	1.860E-04	1.779E-04	90	4.185	-7.265E-07	1.860E-06	5.668E-07
42	1.090	1.134E-04	1.275E-04	1.205E-04	91	4.275	-8.546E-07	1.752E-06	4.488E-07
43	1.130	6.762E-05	7.998E-05	7.380E-05	92	4.365	-1.233E-06	1.143E-06	-4.516E-08
44	1.170	4.981E-05	6.137E-05	5.559E-05	93	4.455	-1.489E-06	7.797E-07	-3.548E-07
45	1.210	6.269E-05	7.396E-05	6.833E-05	94	4.550	-1.615E-06	7.857E-07	-4.147E-07
46	1.250	7.899E-05	9.445E-05	8.672E-05	95	4.650	-1.291E-06	9.009E-07	-1.949E-07
47	1.295	6.001E-05	7.027E-05	6.514E-05	96	4.750	-5.697E-07	1.133E-06	2.817E-07
48	1.345	4.540E-05	5.680E-05	5.110E-05	97	4.850	2.077E-07	1.271E-06	7.394E-07
49	1.395	7.463E-05	8.764E-05	8.113E-05	98	4.950	5.294E-07	1.342E-06	9.356E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2650 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.520E-03	5.008E-03	3.764E-03	50	1.445	1.147E-04	1.283E-04	1.215E-04
2	0.111	2.250E-03	5.560E-03	3.905E-03	51	1.495	7.798E-05	8.919E-05	8.359E-05
3	0.117	1.077E-03	4.371E-03	2.724E-03	52	1.545	3.525E-05	4.437E-05	3.981E-05
4	0.125	1.252E-04	2.011E-03	1.068E-03	53	1.595	1.571E-05	2.415E-05	1.993E-05
5	0.135	1.272E-04	7.981E-04	4.626E-04	54	1.645	1.476E-05	2.315E-05	1.896E-05
6	0.145	8.708E-05	1.265E-03	6.762E-04	55	1.695	8.945E-06	1.713E-05	1.304E-05
7	0.155	5.142E-04	1.052E-03	7.830E-04	56	1.745	1.571E-05	2.422E-05	1.996E-05
8	0.165	7.988E-04	9.291E-04	8.639E-04	57	1.800	2.008E-05	2.870E-05	2.439E-05
9	0.175	8.305E-04	1.073E-03	9.518E-04	58	1.860	1.634E-05	2.484E-05	2.059E-05
10	0.185	7.903E-04	8.902E-04	8.402E-04	59	1.920	1.503E-05	2.359E-05	1.931E-05
11	0.200	6.862E-04	7.348E-04	7.105E-04	60	1.980	1.245E-05	2.049E-05	1.647E-05
12	0.220	4.535E-04	4.968E-04	4.751E-04	61	2.040	1.716E-05	2.536E-05	2.126E-05
13	0.240	3.328E-04	3.679E-04	3.504E-04	62	2.100	5.770E-06	1.376E-05	9.765E-06
14	0.260	3.255E-04	3.553E-04	3.404E-04	63	2.160	6.868E-06	1.516E-05	1.102E-05
15	0.280	3.335E-04	3.607E-04	3.471E-04	64	2.220	2.737E-05	3.607E-05	3.172E-05
16	0.300	3.270E-04	3.528E-04	3.399E-04	65	2.280	1.965E-05	2.752E-05	2.359E-05
17	0.320	2.885E-04	3.134E-04	3.010E-04	66	2.340	1.066E-05	1.789E-05	1.428E-05
18	0.340	2.086E-04	2.324E-04	2.205E-04	67	2.405	1.100E-05	1.853E-05	1.477E-05
19	0.360	1.829E-04	2.065E-04	1.947E-04	68	2.475	1.077E-05	1.756E-05	1.417E-05
20	0.380	1.865E-04	2.100E-04	1.982E-04	69	2.545	1.358E-05	2.083E-05	1.720E-05
21	0.400	2.117E-04	2.372E-04	2.244E-04	70	2.615	1.556E-05	2.286E-05	1.921E-05
22	0.420	3.351E-04	3.626E-04	3.489E-04	71	2.685	1.036E-05	1.718E-05	1.377E-05
23	0.445	6.963E-04	7.262E-04	7.112E-04	72	2.755	4.529E-06	9.687E-06	7.108E-06
24	0.475	6.557E-04	6.830E-04	6.693E-04	73	2.825	2.432E-06	6.508E-06	4.470E-06
25	0.505	2.863E-04	3.081E-04	2.972E-04	74	2.895	2.139E-06	6.244E-06	4.191E-06
26	0.535	1.703E-04	1.895E-04	1.799E-04	75	2.965	1.801E-07	3.905E-06	2.043E-06
27	0.565	1.681E-04	1.874E-04	1.778E-04	76	3.035	4.031E-07	4.217E-06	2.310E-06
28	0.595	1.775E-04	1.965E-04	1.870E-04	77	3.110	4.923E-07	4.422E-06	2.457E-06
29	0.625	1.703E-04	1.895E-04	1.799E-04	78	3.190	-1.379E-06	1.916E-06	2.685E-07
30	0.655	2.501E-04	2.697E-04	2.599E-04	79	3.270	-1.363E-06	1.685E-06	1.609E-07
31	0.685	2.572E-04	2.764E-04	2.668E-04	80	3.350	-1.509E-06	1.471E-06	-1.884E-08
32	0.715	1.708E-04	1.880E-04	1.794E-04	81	3.430	-1.824E-06	1.247E-06	-2.886E-07
33	0.745	1.514E-04	1.681E-04	1.598E-04	82	3.510	-7.470E-07	2.044E-06	6.483E-07
34	0.775	1.371E-04	1.533E-04	1.452E-04	83	3.590	2.337E-07	3.244E-06	1.739E-06
35	0.810	1.114E-04	1.277E-04	1.195E-04	84	3.670	9.678E-07	3.933E-06	2.450E-06
36	0.850	1.568E-04	1.741E-04	1.655E-04	85	3.750	1.159E-06	3.689E-06	2.424E-06
37	0.890	2.473E-04	2.663E-04	2.568E-04	86	3.830	7.158E-10	2.302E-06	1.151E-06
38	0.930	2.247E-04	2.430E-04	2.338E-04	87	3.915	-7.104E-07	1.236E-06	2.630E-07
39	0.970	1.429E-04	1.592E-04	1.511E-04	88	4.005	-2.487E-07	1.628E-06	6.895E-07
40	1.010	1.361E-04	1.521E-04	1.441E-04	89	4.095	5.169E-08	1.882E-06	9.668E-07
41	1.050	1.209E-04	1.355E-04	1.282E-04	90	4.185	-2.426E-07	1.513E-06	6.352E-07
42	1.090	7.674E-05	8.937E-05	8.306E-05	91	4.275	-6.332E-07	1.032E-06	1.994E-07
43	1.130	4.862E-05	6.018E-05	5.440E-05	92	4.365	-8.192E-07	7.101E-07	-5.455E-08
44	1.170	4.482E-05	5.582E-05	5.032E-05	93	4.455	-7.079E-07	5.389E-07	-8.451E-08
45	1.210	5.105E-05	6.160E-05	5.632E-05	94	4.550	-3.651E-07	6.311E-07	1.330E-07
46	1.250	5.620E-05	7.026E-05	6.323E-05	95	4.650	9.795E-08	8.630E-07	4.805E-07
47	1.295	4.994E-05	5.956E-05	5.475E-05	96	4.750	2.579E-07	9.806E-07	6.192E-07
48	1.345	3.672E-05	4.760E-05	4.216E-05	97	4.850	1.197E-07	7.343E-07	4.270E-07
49	1.395	7.591E-05	8.862E-05	8.226E-05	98	4.950	4.571E-08	3.415E-07	1.936E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3150 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.887E-03	3.804E-03	2.845E-03	50	1.445	9.315E-05	1.046E-04	9.886E-05
2	0.111	1.709E-03	4.239E-03	2.974E-03	51	1.495	5.937E-05	6.868E-05	6.402E-05
3	0.117	8.125E-04	3.357E-03	2.085E-03	52	1.545	2.903E-05	3.680E-05	3.292E-05
4	0.125	8.467E-05	1.538E-03	8.115E-04	53	1.595	1.519E-05	2.251E-05	1.885E-05
5	0.135	9.122E-05	6.206E-04	3.559E-04	54	1.645	1.259E-05	1.967E-05	1.613E-05
6	0.145	8.551E-05	1.012E-03	5.490E-04	55	1.695	1.106E-05	1.789E-05	1.448E-05
7	0.155	4.078E-04	8.312E-04	6.195E-04	56	1.745	1.591E-05	2.304E-05	1.947E-05
8	0.165	6.122E-04	7.173E-04	6.647E-04	57	1.800	1.138E-05	1.836E-05	1.487E-05
9	0.175	6.368E-04	8.309E-04	7.338E-04	58	1.860	1.281E-05	1.991E-05	1.636E-05
10	0.185	5.946E-04	6.748E-04	6.347E-04	59	1.920	1.588E-05	2.308E-05	1.948E-05
11	0.200	5.128E-04	5.522E-04	5.325E-04	60	1.980	1.178E-05	1.846E-05	1.512E-05
12	0.220	3.321E-04	3.675E-04	3.498E-04	61	2.040	1.094E-05	1.763E-05	1.429E-05
13	0.240	2.440E-04	2.727E-04	2.584E-04	62	2.100	6.869E-06	1.368E-05	1.028E-05
14	0.260	2.322E-04	2.564E-04	2.443E-04	63	2.160	1.119E-05	1.830E-05	1.475E-05
15	0.280	2.386E-04	2.607E-04	2.497E-04	64	2.220	1.683E-05	2.368E-05	2.026E-05
16	0.300	2.577E-04	2.789E-04	2.683E-04	65	2.280	1.561E-05	2.209E-05	1.885E-05
17	0.320	2.263E-04	2.469E-04	2.366E-04	66	2.340	1.270E-05	1.899E-05	1.584E-05
18	0.340	1.728E-04	1.926E-04	1.827E-04	67	2.405	8.589E-06	1.452E-05	1.156E-05
19	0.360	1.507E-04	1.703E-04	1.605E-04	68	2.475	9.038E-06	1.473E-05	1.189E-05
20	0.380	1.420E-04	1.614E-04	1.517E-04	69	2.545	7.374E-06	1.318E-05	1.028E-05
21	0.400	1.783E-04	1.995E-04	1.889E-04	70	2.615	1.430E-05	2.052E-05	1.741E-05
22	0.420	2.776E-04	3.004E-04	2.890E-04	71	2.685	6.631E-06	1.194E-05	9.285E-06
23	0.445	5.456E-04	5.701E-04	5.579E-04	72	2.755	-2.071E-06	1.887E-06	-9.216E-08
24	0.475	5.116E-04	5.340E-04	5.228E-04	73	2.825	-1.491E-06	1.804E-06	1.562E-07
25	0.505	2.276E-04	2.457E-04	2.366E-04	74	2.895	-6.144E-07	2.948E-06	1.167E-06
26	0.535	1.412E-04	1.573E-04	1.493E-04	75	2.965	-1.034E-06	2.179E-06	5.726E-07
27	0.565	1.314E-04	1.474E-04	1.394E-04	76	3.035	9.934E-07	4.370E-06	2.682E-06
28	0.595	1.334E-04	1.492E-04	1.413E-04	77	3.110	1.049E-06	4.152E-06	2.600E-06
29	0.625	1.479E-04	1.640E-04	1.560E-04	78	3.190	-4.984E-07	2.405E-06	9.533E-07
30	0.655	2.093E-04	2.257E-04	2.175E-04	79	3.270	5.818E-07	3.679E-06	2.130E-06
31	0.685	1.921E-04	2.077E-04	1.999E-04	80	3.350	8.012E-07	3.647E-06	2.224E-06
32	0.715	1.231E-04	1.371E-04	1.301E-04	81	3.430	5.493E-07	3.190E-06	1.870E-06
33	0.745	1.238E-04	1.380E-04	1.309E-04	82	3.510	6.954E-07	3.023E-06	1.859E-06
34	0.775	1.209E-04	1.347E-04	1.278E-04	83	3.590	-6.042E-07	1.747E-06	5.716E-07
35	0.810	1.031E-04	1.171E-04	1.101E-04	84	3.670	-1.222E-06	8.094E-07	-2.065E-07
36	0.850	1.454E-04	1.603E-04	1.528E-04	85	3.750	-9.124E-07	8.806E-07	-1.587E-08
37	0.890	2.129E-04	2.289E-04	2.209E-04	86	3.830	-3.942E-07	1.399E-06	5.023E-07
38	0.930	1.738E-04	1.889E-04	1.813E-04	87	3.915	1.648E-07	1.986E-06	1.076E-06
39	0.970	1.065E-04	1.200E-04	1.133E-04	88	4.005	2.969E-07	1.714E-06	1.005E-06
40	1.010	9.981E-05	1.131E-04	1.065E-04	89	4.095	3.431E-07	1.626E-06	9.845E-07
41	1.050	1.020E-04	1.144E-04	1.082E-04	90	4.185	3.430E-07	1.789E-06	1.066E-06
42	1.090	7.000E-05	8.082E-05	7.541E-05	91	4.275	1.089E-07	1.161E-06	6.352E-07
43	1.130	4.092E-05	5.060E-05	4.576E-05	92	4.365	-2.131E-07	5.956E-07	1.913E-07
44	1.170	3.496E-05	4.411E-05	3.954E-05	93	4.455	-4.328E-07	2.059E-07	-1.134E-07
45	1.210	3.715E-05	4.579E-05	4.147E-05	94	4.550	-6.350E-07	6.322E-09	-3.143E-07
46	1.250	4.328E-05	5.487E-05	4.907E-05	95	4.650	-6.388E-07	1.262E-07	-2.563E-07
47	1.295	3.511E-05	4.306E-05	3.909E-05	96	4.750	-3.581E-07	2.540E-07	-5.206E-08
48	1.345	2.982E-05	3.905E-05	3.443E-05	97	4.850	-2.355E-09	3.373E-07	1.675E-07
49	1.395	6.073E-05	7.140E-05	6.606E-05	98	4.950	1.413E-07	4.353E-07	2.883E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3750 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.388E-03	2.841E-03	2.115E-03	50	1.445	7.901E-05	8.993E-05	8.447E-05
2	0.111	1.264E-03	3.166E-03	2.215E-03	51	1.495	5.583E-05	6.493E-05	6.038E-05
3	0.117	5.883E-04	2.522E-03	1.555E-03	52	1.545	2.252E-05	2.980E-05	2.616E-05
4	0.125	5.458E-05	1.157E-03	6.056E-04	53	1.595	9.801E-06	1.647E-05	1.314E-05
5	0.135	6.455E-05	4.795E-04	2.720E-04	54	1.645	5.309E-06	1.183E-05	8.572E-06
6	0.145	6.158E-05	7.845E-04	4.230E-04	55	1.695	1.977E-06	8.187E-06	5.082E-06
7	0.155	3.014E-04	6.313E-04	4.664E-04	56	1.745	7.158E-06	1.383E-05	1.049E-05
8	0.165	4.591E-04	5.508E-04	5.049E-04	57	1.800	1.069E-05	1.760E-05	1.414E-05
9	0.175	4.871E-04	6.517E-04	5.694E-04	58	1.860	1.706E-05	2.411E-05	2.058E-05
10	0.185	4.542E-04	5.228E-04	4.885E-04	59	1.920	1.217E-05	1.909E-05	1.563E-05
11	0.200	3.897E-04	4.248E-04	4.072E-04	60	1.980	6.302E-06	1.257E-05	9.437E-06
12	0.220	2.519E-04	2.844E-04	2.682E-04	61	2.040	7.662E-06	1.411E-05	1.088E-05
13	0.240	1.935E-04	2.199E-04	2.067E-04	62	2.100	1.402E-06	7.736E-06	4.569E-06
14	0.260	1.745E-04	1.964E-04	1.854E-04	63	2.160	7.820E-06	1.492E-05	1.137E-05
15	0.280	1.828E-04	2.027E-04	1.928E-04	64	2.220	1.464E-05	2.157E-05	1.810E-05
16	0.300	2.039E-04	2.231E-04	2.135E-04	65	2.280	1.103E-05	1.752E-05	1.427E-05
17	0.320	1.761E-04	1.947E-04	1.854E-04	66	2.340	6.413E-06	1.255E-05	9.483E-06
18	0.340	1.220E-04	1.398E-04	1.309E-04	67	2.405	6.314E-06	1.274E-05	9.529E-06
19	0.360	1.071E-04	1.248E-04	1.159E-04	68	2.475	1.101E-05	1.763E-05	1.432E-05
20	0.380	1.180E-04	1.357E-04	1.269E-04	69	2.545	1.067E-05	1.732E-05	1.399E-05
21	0.400	1.449E-04	1.642E-04	1.545E-04	70	2.615	1.054E-05	1.751E-05	1.403E-05
22	0.420	2.183E-04	2.388E-04	2.285E-04	71	2.685	7.537E-06	1.443E-05	1.098E-05
23	0.445	4.114E-04	4.331E-04	4.222E-04	72	2.755	2.769E-06	8.695E-06	5.732E-06
24	0.475	3.742E-04	3.941E-04	3.842E-04	73	2.825	-1.659E-06	3.338E-06	8.393E-07
25	0.505	1.611E-04	1.774E-04	1.693E-04	74	2.895	-2.357E-06	2.711E-06	1.773E-07
26	0.535	1.259E-04	1.408E-04	1.333E-04	75	2.965	-2.744E-06	1.891E-06	-4.269E-07
27	0.565	1.034E-04	1.181E-04	1.108E-04	76	3.035	-4.242E-06	2.952E-07	-1.973E-06
28	0.595	9.593E-05	1.103E-04	1.031E-04	77	3.110	-4.187E-06	8.822E-07	-1.652E-06
29	0.625	1.208E-04	1.356E-04	1.282E-04	78	3.190	-3.366E-06	2.065E-06	-6.503E-07
30	0.655	1.612E-04	1.760E-04	1.686E-04	79	3.270	-3.075E-06	2.234E-06	-4.210E-07
31	0.685	1.489E-04	1.630E-04	1.560E-04	80	3.350	-2.084E-06	2.929E-06	4.224E-07
32	0.715	1.039E-04	1.169E-04	1.104E-04	81	3.430	-5.629E-08	4.777E-06	2.360E-06
33	0.745	8.896E-05	1.016E-04	9.529E-05	82	3.510	2.204E-06	6.625E-06	4.415E-06
34	0.775	8.256E-05	9.496E-05	8.876E-05	83	3.590	1.748E-06	6.201E-06	3.975E-06
35	0.810	8.043E-05	9.341E-05	8.692E-05	84	3.670	-1.046E-08	4.884E-06	2.437E-06
36	0.850	1.328E-04	1.468E-04	1.398E-04	85	3.750	-1.426E-06	3.991E-06	1.283E-06
37	0.890	1.776E-04	1.925E-04	1.850E-04	86	3.830	-2.461E-06	3.385E-06	4.617E-07
38	0.930	1.456E-04	1.597E-04	1.526E-04	87	3.915	-3.138E-06	2.923E-06	-1.074E-07
39	0.970	8.476E-05	9.732E-05	9.104E-05	88	4.005	-3.566E-06	2.952E-06	-3.073E-07
40	1.010	7.471E-05	8.675E-05	8.073E-05	89	4.095	-3.441E-06	3.236E-06	-1.028E-07
41	1.050	7.530E-05	8.664E-05	8.097E-05	90	4.185	-3.257E-06	4.144E-06	4.439E-07
42	1.090	4.792E-05	5.774E-05	5.283E-05	91	4.275	-3.749E-06	4.534E-06	3.925E-07
43	1.130	3.545E-05	4.462E-05	4.004E-05	92	4.365	-4.740E-06	3.344E-06	-6.978E-07
44	1.170	2.376E-05	3.211E-05	2.794E-05	93	4.455	-5.723E-06	1.853E-06	-1.935E-06
45	1.210	2.656E-05	3.450E-05	3.053E-05	94	4.550	-6.100E-06	1.717E-06	-2.191E-06
46	1.250	2.353E-05	3.401E-05	2.877E-05	95	4.650	-4.749E-06	2.748E-06	-1.001E-06
47	1.295	2.321E-05	3.050E-05	2.686E-05	96	4.750	-2.221E-06	3.985E-06	8.821E-07
48	1.345	2.904E-05	3.807E-05	3.356E-05	97	4.850	3.976E-07	4.559E-06	2.479E-06
49	1.395	5.512E-05	6.551E-05	6.031E-05	98	4.950	1.098E-06	4.661E-06	2.880E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 4350 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	9.835E-04	2.031E-03	1.507E-03	50	1.445	7.020E-05	7.909E-05	7.465E-05
2	0.111	8.791E-04	2.240E-03	1.560E-03	51	1.495	4.334E-05	5.066E-05	4.700E-05
3	0.117	3.868E-04	1.786E-03	1.086E-03	52	1.545	2.238E-05	2.835E-05	2.537E-05
4	0.125	3.243E-05	8.277E-04	4.301E-04	53	1.595	9.430E-06	1.497E-05	1.220E-05
5	0.135	4.978E-05	3.590E-04	2.044E-04	54	1.645	3.039E-06	8.257E-06	5.648E-06
6	0.145	3.789E-05	5.746E-04	3.062E-04	55	1.695	8.812E-06	1.409E-05	1.145E-05
7	0.155	2.282E-04	4.733E-04	3.507E-04	56	1.745	9.873E-06	1.530E-05	1.259E-05
8	0.165	3.452E-04	4.153E-04	3.803E-04	57	1.800	1.139E-05	1.692E-05	1.415E-05
9	0.175	3.431E-04	4.679E-04	4.055E-04	58	1.860	1.261E-05	1.810E-05	1.536E-05
10	0.185	3.165E-04	3.686E-04	3.426E-04	59	1.920	8.575E-06	1.390E-05	1.124E-05
11	0.200	2.742E-04	3.011E-04	2.877E-04	60	1.980	6.812E-06	1.177E-05	9.291E-06
12	0.220	1.871E-04	2.121E-04	1.996E-04	61	2.040	2.125E-06	7.105E-06	4.615E-06
13	0.240	1.288E-04	1.490E-04	1.389E-04	62	2.100	7.215E-06	1.252E-05	9.868E-06
14	0.260	1.154E-04	1.323E-04	1.239E-04	63	2.160	2.347E-06	7.669E-06	5.008E-06
15	0.280	1.342E-04	1.496E-04	1.419E-04	64	2.220	6.997E-06	1.215E-05	9.573E-06
16	0.300	1.506E-04	1.654E-04	1.580E-04	65	2.280	1.151E-05	1.676E-05	1.413E-05
17	0.320	1.352E-04	1.498E-04	1.425E-04	66	2.340	5.807E-06	1.066E-05	8.234E-06
18	0.340	9.446E-05	1.084E-04	1.014E-04	67	2.405	8.389E-06	1.349E-05	1.094E-05
19	0.360	7.518E-05	8.891E-05	8.204E-05	68	2.475	7.166E-06	1.167E-05	9.420E-06
20	0.380	8.479E-05	9.856E-05	9.168E-05	69	2.545	7.045E-06	1.195E-05	9.497E-06
21	0.400	1.209E-04	1.360E-04	1.285E-04	70	2.615	1.068E-05	1.602E-05	1.335E-05
22	0.420	1.724E-04	1.883E-04	1.803E-04	71	2.685	7.974E-06	1.300E-05	1.049E-05
23	0.445	3.030E-04	3.196E-04	3.113E-04	72	2.755	1.073E-06	5.073E-06	3.073E-06
24	0.475	2.783E-04	2.936E-04	2.859E-04	73	2.825	-6.275E-08	3.383E-06	1.660E-06
25	0.505	1.225E-04	1.353E-04	1.289E-04	74	2.895	-9.825E-07	2.375E-06	6.963E-07
26	0.535	9.242E-05	1.042E-04	9.832E-05	75	2.965	-2.013E-06	9.573E-07	-5.277E-07
27	0.565	7.861E-05	9.033E-05	8.447E-05	76	3.035	-1.042E-06	2.154E-06	5.561E-07
28	0.595	8.340E-05	9.500E-05	8.920E-05	77	3.110	-1.856E-06	1.167E-06	-3.446E-07
29	0.625	8.576E-05	9.736E-05	9.156E-05	78	3.190	-2.727E-06	4.984E-07	-1.114E-06
30	0.655	1.221E-04	1.336E-04	1.278E-04	79	3.270	-1.222E-06	2.120E-06	4.486E-07
31	0.685	1.133E-04	1.244E-04	1.188E-04	80	3.350	-4.653E-07	2.787E-06	1.161E-06
32	0.715	6.515E-05	7.517E-05	7.016E-05	81	3.430	-5.507E-07	2.466E-06	9.576E-07
33	0.745	7.669E-05	8.704E-05	8.187E-05	82	3.510	1.727E-07	2.736E-06	1.454E-06
34	0.775	7.764E-05	8.784E-05	8.274E-05	83	3.590	-6.652E-08	2.453E-06	1.193E-06
35	0.810	6.870E-05	7.926E-05	7.398E-05	84	3.670	-5.251E-07	2.128E-06	8.014E-07
36	0.850	1.175E-04	1.290E-04	1.232E-04	85	3.750	-2.369E-07	2.312E-06	1.038E-06
37	0.890	1.657E-04	1.779E-04	1.718E-04	86	3.830	-4.020E-07	2.417E-06	1.008E-06
38	0.930	1.204E-04	1.317E-04	1.261E-04	87	3.915	-8.794E-07	2.150E-06	6.352E-07
39	0.970	6.099E-05	7.089E-05	6.594E-05	88	4.005	-7.665E-07	2.277E-06	7.553E-07
40	1.010	5.596E-05	6.567E-05	6.082E-05	89	4.095	-5.563E-07	2.588E-06	1.016E-06
41	1.050	6.034E-05	6.943E-05	6.488E-05	90	4.185	-8.481E-07	2.766E-06	9.591E-07
42	1.090	4.411E-05	5.227E-05	4.819E-05	91	4.275	-1.612E-06	2.373E-06	3.809E-07
43	1.130	3.195E-05	3.944E-05	3.570E-05	92	4.365	-2.566E-06	1.433E-06	-5.669E-07
44	1.170	2.588E-05	3.284E-05	2.936E-05	93	4.455	-3.263E-06	3.450E-07	-1.459E-06
45	1.210	2.045E-05	2.673E-05	2.359E-05	94	4.550	-3.629E-06	1.351E-07	-1.747E-06
46	1.250	1.953E-05	2.804E-05	2.378E-05	95	4.650	-3.028E-06	9.480E-07	-1.040E-06
47	1.295	1.845E-05	2.427E-05	2.136E-05	96	4.750	-1.548E-06	1.820E-06	1.358E-07
48	1.345	1.836E-05	2.550E-05	2.193E-05	97	4.850	1.086E-07	2.289E-06	1.199E-06
49	1.395	4.712E-05	5.559E-05	5.136E-05	98	4.950	7.288E-07	2.534E-06	1.631E-06



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5150 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.571E-04	1.415E-03	1.036E-03	50	1.445	5.448E-05	6.284E-05	5.866E-05
2	0.111	6.111E-04	1.579E-03	1.095E-03	51	1.495	3.611E-05	4.308E-05	3.960E-05
3	0.117	2.692E-04	1.287E-03	7.781E-04	52	1.545	1.469E-05	2.019E-05	1.744E-05
4	0.125	2.042E-05	5.973E-04	3.089E-04	53	1.595	7.424E-06	1.274E-05	1.008E-05
5	0.135	2.601E-05	2.593E-04	1.426E-04	54	1.645	2.981E-06	8.038E-06	5.510E-06
6	0.145	2.406E-05	4.266E-04	2.253E-04	55	1.695	3.671E-06	8.539E-06	6.105E-06
7	0.155	1.557E-04	3.391E-04	2.474E-04	56	1.745	9.857E-06	1.509E-05	1.247E-05
8	0.165	2.375E-04	2.994E-04	2.684E-04	57	1.800	9.479E-06	1.462E-05	1.205E-05
9	0.175	2.483E-04	3.531E-04	3.007E-04	58	1.860	8.416E-06	1.369E-05	1.105E-05
10	0.185	2.289E-04	2.733E-04	2.511E-04	59	1.920	1.064E-05	1.599E-05	1.332E-05
11	0.200	1.998E-04	2.240E-04	2.119E-04	60	1.980	5.540E-06	1.033E-05	7.936E-06
12	0.220	1.290E-04	1.521E-04	1.405E-04	61	2.040	3.437E-06	8.286E-06	5.861E-06
13	0.240	9.152E-05	1.104E-04	1.010E-04	62	2.100	4.074E-06	9.286E-06	6.680E-06
14	0.260	9.365E-05	1.094E-04	1.015E-04	63	2.160	6.800E-06	1.198E-05	9.389E-06
15	0.280	1.127E-04	1.270E-04	1.199E-04	64	2.220	6.520E-06	1.147E-05	8.994E-06
16	0.300	1.215E-04	1.352E-04	1.284E-04	65	2.280	4.950E-06	9.753E-06	7.352E-06
17	0.320	1.093E-04	1.228E-04	1.160E-04	66	2.340	5.941E-06	1.052E-05	8.229E-06
18	0.340	8.058E-05	9.354E-05	8.706E-05	67	2.405	7.694E-06	1.256E-05	1.013E-05
19	0.360	6.485E-05	7.752E-05	7.119E-05	68	2.475	1.056E-05	1.523E-05	1.290E-05
20	0.380	6.584E-05	7.831E-05	7.207E-05	69	2.545	9.125E-06	1.364E-05	1.138E-05
21	0.400	8.422E-05	9.767E-05	9.094E-05	70	2.615	7.665E-06	1.258E-05	1.012E-05
22	0.420	1.211E-04	1.351E-04	1.281E-04	71	2.685	2.501E-06	6.759E-06	4.630E-06
23	0.445	2.060E-04	2.206E-04	2.133E-04	72	2.755	-3.926E-08	3.498E-06	1.729E-06
24	0.475	1.939E-04	2.074E-04	2.007E-04	73	2.825	3.661E-07	3.215E-06	1.790E-06
25	0.505	8.331E-05	9.487E-05	8.909E-05	74	2.895	-2.262E-07	2.393E-06	1.083E-06
26	0.535	6.820E-05	7.902E-05	7.361E-05	75	2.965	-8.694E-07	1.808E-06	4.694E-07
27	0.565	6.910E-05	8.008E-05	7.459E-05	76	3.035	-8.329E-07	1.723E-06	4.448E-07
28	0.595	6.322E-05	7.398E-05	6.860E-05	77	3.110	-2.407E-07	2.423E-06	1.091E-06
29	0.625	7.436E-05	8.518E-05	7.977E-05	78	3.190	-2.674E-07	2.232E-06	9.823E-07
30	0.655	9.538E-05	1.059E-04	1.007E-04	79	3.270	-8.824E-07	1.436E-06	2.769E-07
31	0.685	8.389E-05	9.394E-05	8.892E-05	80	3.350	-9.180E-07	2.271E-06	6.764E-07
32	0.715	5.440E-05	6.367E-05	5.904E-05	81	3.430	-6.259E-07	2.132E-06	7.531E-07
33	0.745	5.650E-05	6.593E-05	6.122E-05	82	3.510	-4.412E-07	1.671E-06	6.147E-07
34	0.775	5.285E-05	6.214E-05	5.750E-05	83	3.590	-1.558E-07	1.775E-06	8.095E-07
35	0.810	5.295E-05	6.273E-05	5.784E-05	84	3.670	-6.561E-07	1.353E-06	3.484E-07
36	0.850	1.003E-04	1.111E-04	1.057E-04	85	3.750	-1.201E-06	7.852E-07	-2.078E-07
37	0.890	1.340E-04	1.453E-04	1.397E-04	86	3.830	-1.433E-06	9.072E-07	-2.628E-07
38	0.930	9.071E-05	1.012E-04	9.595E-05	87	3.915	-9.619E-07	1.304E-06	1.708E-07
39	0.970	4.841E-05	5.781E-05	5.311E-05	88	4.005	-2.919E-07	1.793E-06	7.504E-07
40	1.010	5.069E-05	5.989E-05	5.529E-05	89	4.095	1.213E-07	1.949E-06	1.035E-06
41	1.050	4.879E-05	5.720E-05	5.299E-05	90	4.185	2.894E-07	2.183E-06	1.236E-06
42	1.090	3.159E-05	3.907E-05	3.533E-05	91	4.275	1.744E-08	2.034E-06	1.026E-06
43	1.130	2.421E-05	3.122E-05	2.772E-05	92	4.365	-8.784E-07	1.153E-06	1.372E-07
44	1.170	1.851E-05	2.493E-05	2.172E-05	93	4.455	-1.788E-06	9.350E-08	-8.471E-07
45	1.210	1.781E-05	2.373E-05	2.077E-05	94	4.550	-2.128E-06	-4.137E-07	-1.271E-06
46	1.250	1.089E-05	1.861E-05	1.475E-05	95	4.650	-1.560E-06	-1.400E-07	-8.500E-07
47	1.295	1.061E-05	1.598E-05	1.329E-05	96	4.750	-6.233E-07	7.224E-07	4.954E-08
48	1.345	1.610E-05	2.283E-05	1.947E-05	97	4.850	1.591E-07	1.343E-06	7.511E-07
49	1.395	3.475E-05	4.270E-05	3.872E-05	98	4.950	4.961E-07	1.321E-06	9.086E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.253E-04	9.647E-04	6.950E-04	50	1.445	4.136E-05	4.828E-05	4.482E-05
2	0.111	4.021E-04	1.078E-03	7.401E-04	51	1.495	2.769E-05	3.355E-05	3.062E-05
3	0.117	1.730E-04	9.008E-04	5.369E-04	52	1.545	1.260E-05	1.728E-05	1.494E-05
4	0.125	2.247E-05	4.335E-04	2.280E-04	53	1.595	6.120E-06	1.049E-05	8.304E-06
5	0.135	2.175E-05	1.956E-04	1.087E-04	54	1.645	3.710E-06	7.996E-06	5.853E-06
6	0.145	9.838E-06	3.080E-04	1.589E-04	55	1.695	5.144E-06	9.294E-06	7.219E-06
7	0.155	1.135E-04	2.489E-04	1.812E-04	56	1.745	7.493E-06	1.177E-05	9.632E-06
8	0.165	1.676E-04	2.170E-04	1.923E-04	57	1.800	8.843E-06	1.311E-05	1.098E-05
9	0.175	1.642E-04	2.461E-04	2.051E-04	58	1.860	9.583E-06	1.395E-05	1.177E-05
10	0.185	1.585E-04	1.933E-04	1.759E-04	59	1.920	5.763E-06	1.002E-05	7.890E-06
11	0.200	1.368E-04	1.563E-04	1.466E-04	60	1.980	5.186E-06	9.142E-06	7.164E-06
12	0.220	8.956E-05	1.085E-04	9.903E-05	61	2.040	2.303E-06	6.254E-06	4.278E-06
13	0.240	5.948E-05	7.496E-05	6.722E-05	62	2.100	1.428E-06	5.468E-06	3.448E-06
14	0.260	6.182E-05	7.463E-05	6.822E-05	63	2.160	4.322E-06	8.731E-06	6.527E-06
15	0.280	7.846E-05	9.003E-05	8.425E-05	64	2.220	5.419E-06	9.469E-06	7.444E-06
16	0.300	1.006E-04	1.118E-04	1.062E-04	65	2.280	4.947E-06	8.866E-06	6.907E-06
17	0.320	9.389E-05	1.050E-04	9.946E-05	66	2.340	3.987E-06	7.713E-06	5.850E-06
18	0.340	5.742E-05	6.798E-05	6.270E-05	67	2.405	5.857E-06	9.759E-06	7.808E-06
19	0.360	3.553E-05	4.569E-05	4.061E-05	68	2.475	7.905E-06	1.161E-05	9.760E-06
20	0.380	5.000E-05	6.017E-05	5.508E-05	69	2.545	5.329E-06	8.989E-06	7.159E-06
21	0.400	7.538E-05	8.647E-05	8.092E-05	70	2.615	6.280E-06	1.021E-05	8.243E-06
22	0.420	8.982E-05	1.010E-04	9.540E-05	71	2.685	3.373E-06	7.165E-06	5.269E-06
23	0.445	1.409E-04	1.524E-04	1.466E-04	72	2.755	9.459E-07	2.807E-06	1.404E-06
24	0.475	1.325E-04	1.433E-04	1.379E-04	73	2.825	-4.660E-07	1.704E-06	6.189E-07
25	0.505	5.737E-05	6.680E-05	6.209E-05	74	2.895	-5.593E-07	1.266E-06	3.531E-07
26	0.535	5.330E-05	6.233E-05	5.782E-05	75	2.965	-6.101E-07	1.237E-06	3.136E-07
27	0.565	6.110E-05	7.037E-05	6.573E-05	76	3.035	6.802E-08	1.856E-06	9.621E-07
28	0.595	4.943E-05	5.842E-05	5.393E-05	77	3.110	1.264E-07	2.064E-06	1.095E-06
29	0.625	4.993E-05	5.868E-05	5.431E-05	78	3.190	-7.700E-07	1.140E-06	1.850E-07
30	0.655	7.163E-05	8.022E-05	7.593E-05	79	3.270	-7.601E-07	1.029E-06	1.346E-07
31	0.685	5.049E-05	5.844E-05	5.447E-05	80	3.350	-5.692E-07	1.052E-06	2.416E-07
32	0.715	3.628E-05	4.384E-05	4.006E-05	81	3.430	-3.757E-07	1.331E-06	4.774E-07
33	0.745	3.804E-05	4.577E-05	4.190E-05	82	3.510	-4.122E-07	1.181E-06	3.844E-07
34	0.775	3.975E-05	4.745E-05	4.360E-05	83	3.590	-3.055E-07	1.106E-06	4.001E-07
35	0.810	3.917E-05	4.737E-05	4.327E-05	84	3.670	-2.663E-07	1.314E-06	5.238E-07
36	0.850	8.732E-05	9.646E-05	9.189E-05	85	3.750	4.070E-08	1.324E-06	6.823E-07
37	0.890	1.240E-04	1.338E-04	1.289E-04	86	3.830	8.185E-08	1.506E-06	7.939E-07
38	0.930	8.248E-05	9.144E-05	8.696E-05	87	3.915	-2.610E-07	1.247E-06	4.930E-07
39	0.970	3.905E-05	4.693E-05	4.299E-05	88	4.005	-6.151E-07	8.165E-07	1.007E-07
40	1.010	3.091E-05	3.849E-05	3.470E-05	89	4.095	-6.462E-07	5.397E-07	-5.324E-08
41	1.050	4.201E-05	4.917E-05	4.559E-05	90	4.185	-6.476E-07	4.704E-07	-8.857E-08
42	1.090	2.850E-05	3.484E-05	3.167E-05	91	4.275	-5.276E-07	7.007E-07	8.658E-08
43	1.130	1.762E-05	2.349E-05	2.055E-05	92	4.365	-4.623E-07	9.166E-07	2.271E-07
44	1.170	1.905E-05	2.459E-05	2.182E-05	93	4.455	-5.204E-07	6.615E-07	7.054E-08
45	1.210	1.349E-05	1.841E-05	1.595E-05	94	4.550	-5.894E-07	3.471E-07	-1.211E-07
46	1.250	8.188E-06	1.463E-05	1.141E-05	95	4.650	-4.775E-07	4.329E-07	-2.231E-08
47	1.295	7.017E-06	1.151E-05	9.263E-06	96	4.750	-2.041E-07	5.744E-07	1.851E-07
48	1.345	1.187E-05	1.756E-05	1.472E-05	97	4.850	7.269E-08	5.591E-07	3.159E-07
49	1.395	3.426E-05	4.115E-05	3.770E-05	98	4.950	1.894E-07	5.161E-07	3.528E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 6950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.706E-04	6.447E-04	4.577E-04	50	1.445	3.542E-05	4.209E-05	3.876E-05
2	0.111	2.496E-04	7.144E-04	4.820E-04	51	1.495	2.247E-05	2.803E-05	2.525E-05
3	0.117	9.284E-05	5.998E-04	3.463E-04	52	1.545	9.032E-06	1.345E-05	1.124E-05
4	0.125	6.311E-06	2.903E-04	1.483E-04	53	1.595	3.432E-06	7.609E-06	5.521E-06
5	0.135	1.206E-05	1.454E-04	7.871E-05	54	1.645	3.647E-06	7.760E-06	5.703E-06
6	0.145	3.314E-06	2.290E-04	1.162E-04	55	1.695	1.280E-06	5.044E-06	3.162E-06
7	0.155	8.236E-05	1.847E-04	1.335E-04	56	1.745	4.116E-06	8.061E-06	6.088E-06
8	0.165	1.209E-04	1.654E-04	1.431E-04	57	1.800	5.113E-06	9.198E-06	7.156E-06
9	0.175	1.111E-04	1.824E-04	1.467E-04	58	1.860	8.718E-06	1.295E-05	1.083E-05
10	0.185	1.053E-04	1.362E-04	1.208E-04	59	1.920	6.364E-06	1.038E-05	8.373E-06
11	0.200	9.566E-05	1.135E-04	1.046E-04	60	1.980	3.086E-06	6.789E-06	4.937E-06
12	0.220	6.577E-05	8.360E-05	7.468E-05	61	2.040	2.506E-06	6.405E-06	4.455E-06
13	0.240	4.175E-05	5.629E-05	4.902E-05	62	2.100	5.940E-06	1.006E-05	7.999E-06
14	0.260	3.860E-05	5.046E-05	4.453E-05	63	2.160	2.383E-06	6.423E-06	4.403E-06
15	0.280	5.501E-05	6.565E-05	6.033E-05	64	2.220	4.535E-06	8.450E-06	6.492E-06
16	0.300	7.984E-05	9.030E-05	8.507E-05	65	2.280	5.907E-06	9.733E-06	7.820E-06
17	0.320	7.690E-05	8.734E-05	8.212E-05	66	2.340	3.733E-06	7.245E-06	5.489E-06
18	0.340	4.533E-05	5.521E-05	5.027E-05	67	2.405	3.762E-06	7.305E-06	5.534E-06
19	0.360	2.832E-05	3.781E-05	3.306E-05	68	2.475	4.938E-06	8.251E-06	6.594E-06
20	0.380	3.655E-05	4.591E-05	4.123E-05	69	2.545	3.866E-06	7.424E-06	5.645E-06
21	0.400	5.332E-05	6.344E-05	5.838E-05	70	2.615	5.311E-06	9.125E-06	7.218E-06
22	0.420	7.232E-05	8.251E-05	7.742E-05	71	2.685	2.613E-06	6.284E-06	4.449E-06
23	0.445	9.480E-05	1.050E-04	9.989E-05	72	2.755	-8.053E-07	1.933E-06	5.637E-07
24	0.475	8.007E-05	8.965E-05	8.486E-05	73	2.825	-1.212E-06	7.885E-07	-2.120E-07
25	0.505	4.346E-05	5.228E-05	4.787E-05	74	2.895	-7.631E-07	1.091E-06	1.638E-07
26	0.535	4.504E-05	5.356E-05	4.930E-05	75	2.965	-5.891E-08	1.770E-06	8.554E-07
27	0.565	4.048E-05	4.910E-05	4.479E-05	76	3.035	3.861E-07	2.308E-06	1.347E-06
28	0.595	3.764E-05	4.610E-05	4.187E-05	77	3.110	2.071E-07	1.969E-06	1.088E-06
29	0.625	4.552E-05	5.389E-05	4.970E-05	78	3.190	-4.827E-07	1.287E-06	4.023E-07
30	0.655	5.218E-05	6.011E-05	5.614E-05	79	3.270	-1.156E-06	4.098E-07	-3.730E-07
31	0.685	4.159E-05	4.907E-05	4.533E-05	80	3.350	-8.677E-07	6.622E-07	-1.027E-07
32	0.715	2.243E-05	2.945E-05	2.594E-05	81	3.430	-4.698E-07	1.154E-06	3.420E-07
33	0.745	3.644E-05	4.385E-05	4.014E-05	82	3.510	-1.752E-07	1.271E-06	5.480E-07
34	0.775	2.896E-05	3.616E-05	3.256E-05	83	3.590	-1.824E-07	1.428E-06	6.227E-07
35	0.810	2.383E-05	3.143E-05	2.763E-05	84	3.670	-3.392E-07	1.133E-06	3.967E-07
36	0.850	7.581E-05	8.457E-05	8.019E-05	85	3.750	-2.617E-07	1.049E-06	3.937E-07
37	0.890	1.082E-04	1.175E-04	1.129E-04	86	3.830	-3.089E-07	9.562E-07	3.236E-07
38	0.930	6.811E-05	7.666E-05	7.239E-05	87	3.915	-6.306E-07	6.737E-07	2.152E-08
39	0.970	3.023E-05	3.775E-05	3.399E-05	88	4.005	-6.005E-07	6.818E-07	4.066E-08
40	1.010	2.473E-05	3.201E-05	2.837E-05	89	4.095	-2.255E-07	1.092E-06	4.332E-07
41	1.050	2.839E-05	3.508E-05	3.173E-05	90	4.185	-1.037E-07	1.244E-06	5.701E-07
42	1.090	2.998E-05	3.625E-05	3.312E-05	91	4.275	-3.546E-07	9.885E-07	3.169E-07
43	1.130	1.679E-05	2.243E-05	1.961E-05	92	4.365	-6.313E-07	7.185E-07	4.360E-08
44	1.170	1.004E-05	1.514E-05	1.259E-05	93	4.455	-9.070E-07	3.634E-07	-2.718E-07
45	1.210	1.118E-05	1.586E-05	1.352E-05	94	4.550	-1.123E-06	9.706E-08	-5.128E-07
46	1.250	8.522E-06	1.487E-05	1.169E-05	95	4.650	-9.886E-07	2.677E-07	-3.605E-07
47	1.295	5.072E-06	9.305E-06	7.189E-06	96	4.750	-4.994E-07	5.489E-07	2.476E-08
48	1.345	1.143E-05	1.698E-05	1.421E-05	97	4.850	3.211E-08	7.359E-07	3.840E-07
49	1.395	3.222E-05	3.888E-05	3.555E-05	98	4.950	2.683E-07	8.127E-07	5.405E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 7950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.603E-04	4.009E-04	2.806E-04	50	1.445	2.631E-05	3.084E-05	2.857E-05
2	0.111	1.458E-04	4.435E-04	2.947E-04	51	1.495	1.287E-05	1.659E-05	1.473E-05
3	0.117	4.969E-05	3.772E-04	2.134E-04	52	1.545	6.681E-06	9.768E-06	8.225E-06
4	0.125	4.896E-06	1.878E-04	9.633E-05	53	1.595	3.546E-06	6.382E-06	4.964E-06
5	0.135	7.779E-06	9.626E-05	5.202E-05	54	1.645	5.985E-07	3.334E-06	1.966E-06
6	0.145	-3.902E-06	1.455E-04	7.082E-05	55	1.695	1.444E-06	4.084E-06	2.764E-06
7	0.155	5.387E-05	1.216E-04	8.773E-05	56	1.745	4.328E-06	7.022E-06	5.675E-06
8	0.165	8.054E-05	1.100E-04	9.526E-05	57	1.800	6.873E-06	9.680E-06	8.276E-06
9	0.175	6.830E-05	1.158E-04	9.206E-05	58	1.860	8.545E-06	1.137E-05	9.956E-06
10	0.185	6.703E-05	8.754E-05	7.729E-05	59	1.920	7.197E-06	9.994E-06	8.596E-06
11	0.200	5.949E-05	7.140E-05	6.544E-05	60	1.980	3.013E-06	5.507E-06	4.260E-06
12	0.220	4.309E-05	5.521E-05	4.915E-05	61	2.040	1.529E-06	4.105E-06	2.817E-06
13	0.240	2.921E-05	3.914E-05	3.417E-05	62	2.100	2.071E-06	4.734E-06	3.402E-06
14	0.260	2.836E-05	3.636E-05	3.236E-05	63	2.160	1.593E-06	4.398E-06	2.995E-06
15	0.280	4.264E-05	4.974E-05	4.619E-05	64	2.220	2.978E-06	5.616E-06	4.297E-06
16	0.300	6.982E-05	7.682E-05	7.332E-05	65	2.280	2.108E-06	4.633E-06	3.370E-06
17	0.320	6.886E-05	7.588E-05	7.237E-05	66	2.340	1.947E-06	4.392E-06	3.169E-06
18	0.340	3.313E-05	3.973E-05	3.643E-05	67	2.405	5.306E-06	7.975E-06	6.640E-06
19	0.360	1.763E-05	2.390E-05	2.077E-05	68	2.475	5.863E-06	8.269E-06	7.066E-06
20	0.380	3.161E-05	3.782E-05	3.471E-05	69	2.545	4.861E-06	7.462E-06	6.161E-06
21	0.400	4.742E-05	5.405E-05	5.073E-05	70	2.615	2.917E-06	5.567E-06	4.242E-06
22	0.420	5.354E-05	6.002E-05	5.678E-05	71	2.685	1.039E-06	3.701E-06	2.370E-06
23	0.445	5.863E-05	6.498E-05	6.181E-05	72	2.755	2.155E-07	2.237E-06	1.226E-06
24	0.475	4.780E-05	5.386E-05	5.083E-05	73	2.825	2.987E-07	1.832E-06	1.065E-06
25	0.505	2.470E-05	3.045E-05	2.757E-05	74	2.895	5.499E-08	1.481E-06	7.681E-07
26	0.535	3.428E-05	3.996E-05	3.712E-05	75	2.965	-3.642E-07	1.015E-06	3.254E-07
27	0.565	3.747E-05	4.332E-05	4.039E-05	76	3.035	-1.561E-07	1.174E-06	5.087E-07
28	0.595	2.422E-05	2.985E-05	2.703E-05	77	3.110	-2.871E-07	1.032E-06	3.723E-07
29	0.625	2.792E-05	3.337E-05	3.064E-05	78	3.190	-7.161E-07	5.451E-07	-8.549E-08
30	0.655	4.404E-05	4.932E-05	4.668E-05	79	3.270	-8.457E-07	4.992E-07	-1.733E-07
31	0.685	3.328E-05	3.822E-05	3.575E-05	80	3.350	-6.563E-07	6.594E-07	1.556E-09
32	0.715	1.848E-05	2.317E-05	2.082E-05	81	3.430	-5.115E-07	1.242E-06	3.650E-07
33	0.745	1.954E-05	2.434E-05	2.194E-05	82	3.510	-1.477E-07	1.113E-06	4.824E-07
34	0.775	1.895E-05	2.376E-05	2.136E-05	83	3.590	-6.618E-08	1.073E-06	5.034E-07
35	0.810	2.329E-05	2.844E-05	2.587E-05	84	3.670	5.799E-08	1.252E-06	6.549E-07
36	0.850	6.240E-05	6.817E-05	6.528E-05	85	3.750	-5.209E-08	9.900E-07	4.689E-07
37	0.890	8.018E-05	8.628E-05	8.323E-05	86	3.830	-3.201E-07	7.923E-07	2.361E-07
38	0.930	5.401E-05	5.981E-05	5.691E-05	87	3.915	-4.130E-07	7.925E-07	1.898E-07
39	0.970	2.289E-05	2.808E-05	2.548E-05	88	4.005	-5.281E-07	5.113E-07	-8.394E-09
40	1.010	1.989E-05	2.479E-05	2.234E-05	89	4.095	-5.749E-07	4.019E-07	-8.650E-08
41	1.050	2.180E-05	2.625E-05	2.402E-05	90	4.185	-3.964E-07	5.509E-07	7.726E-08
42	1.090	1.663E-05	2.069E-05	1.866E-05	91	4.275	-3.175E-07	7.859E-07	2.342E-07
43	1.130	1.366E-05	1.752E-05	1.559E-05	92	4.365	-2.436E-07	8.690E-07	3.127E-07
44	1.170	1.130E-05	1.483E-05	1.306E-05	93	4.455	-3.399E-07	6.584E-07	1.592E-07
45	1.210	8.028E-06	1.118E-05	9.605E-06	94	4.550	-6.758E-07	2.650E-07	-2.054E-07
46	1.250	3.620E-06	7.842E-06	5.731E-06	95	4.650	-7.515E-07	1.377E-07	-3.069E-07
47	1.295	6.970E-06	9.989E-06	8.480E-06	96	4.750	-4.560E-07	2.855E-07	-8.527E-08
48	1.345	1.004E-05	1.386E-05	1.195E-05	97	4.850	-1.644E-08	4.743E-07	2.289E-07
49	1.395	2.560E-05	3.016E-05	2.788E-05	98	4.950	2.295E-07	6.045E-07	4.170E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 9950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.564E-05	2.493E-04	1.675E-04	50	1.445	1.933E-05	2.367E-05	2.150E-05
2	0.111	8.382E-05	2.831E-04	1.835E-04	51	1.495	9.179E-06	1.274E-05	1.096E-05
3	0.117	2.811E-05	2.520E-04	1.401E-04	52	1.545	4.423E-06	7.318E-06	5.871E-06
4	0.125	4.998E-06	1.292E-04	6.707E-05	53	1.595	2.524E-06	5.266E-06	3.895E-06
5	0.135	3.256E-06	6.851E-05	3.588E-05	54	1.645	6.213E-07	3.239E-06	1.930E-06
6	0.145	-5.952E-06	1.030E-04	4.853E-05	55	1.695	1.561E-06	4.068E-06	2.815E-06
7	0.155	3.145E-05	8.043E-05	5.594E-05	56	1.745	4.372E-06	6.952E-06	5.662E-06
8	0.165	4.759E-05	7.405E-05	6.082E-05	57	1.800	4.543E-06	7.081E-06	5.812E-06
9	0.175	4.106E-05	8.280E-05	6.193E-05	58	1.860	5.470E-06	8.100E-06	6.785E-06
10	0.185	4.186E-05	6.018E-05	5.102E-05	59	1.920	3.730E-06	6.302E-06	5.016E-06
11	0.200	3.937E-05	5.047E-05	4.492E-05	60	1.980	2.332E-06	4.717E-06	3.525E-06
12	0.220	2.792E-05	3.948E-05	3.370E-05	61	2.040	2.451E-06	4.935E-06	3.693E-06
13	0.240	2.020E-05	2.975E-05	2.498E-05	62	2.100	8.449E-07	3.384E-06	2.114E-06
14	0.260	1.626E-05	2.386E-05	2.006E-05	63	2.160	-2.538E-08	2.565E-06	1.270E-06
15	0.280	3.073E-05	3.742E-05	3.407E-05	64	2.220	2.403E-06	4.928E-06	3.665E-06
16	0.300	6.172E-05	6.842E-05	6.507E-05	65	2.280	1.400E-06	3.843E-06	2.622E-06
17	0.320	6.567E-05	7.245E-05	6.906E-05	66	2.340	1.411E-06	3.723E-06	2.567E-06
18	0.340	3.241E-05	3.874E-05	3.558E-05	67	2.405	4.379E-06	6.873E-06	5.626E-06
19	0.360	1.189E-05	1.773E-05	1.481E-05	68	2.475	5.938E-06	8.239E-06	7.088E-06
20	0.380	1.648E-05	2.208E-05	1.928E-05	69	2.545	3.571E-06	5.946E-06	4.759E-06
21	0.400	2.864E-05	3.461E-05	3.162E-05	70	2.615	2.306E-06	4.855E-06	3.581E-06
22	0.420	2.927E-05	3.502E-05	3.214E-05	71	2.685	1.080E-07	2.644E-06	1.376E-06
23	0.445	2.808E-05	3.370E-05	3.089E-05	72	2.755	-7.749E-07	1.324E-06	2.747E-07
24	0.475	2.171E-05	2.718E-05	2.445E-05	73	2.825	-1.611E-07	1.364E-06	6.015E-07
25	0.505	1.592E-05	2.131E-05	1.861E-05	74	2.895	-2.952E-07	9.638E-07	3.343E-07
26	0.535	2.427E-05	2.962E-05	2.694E-05	75	2.965	-4.474E-07	8.068E-07	1.797E-07
27	0.565	2.499E-05	3.048E-05	2.773E-05	76	3.035	-3.264E-07	8.855E-07	2.796E-07
28	0.595	1.585E-05	2.119E-05	1.852E-05	77	3.110	-3.981E-07	8.662E-07	2.341E-07
29	0.625	2.260E-05	2.775E-05	2.518E-05	78	3.190	-5.715E-07	6.696E-07	4.901E-08
30	0.655	3.053E-05	3.538E-05	3.295E-05	79	3.270	-1.006E-06	2.308E-07	-3.875E-07
31	0.685	1.950E-05	2.404E-05	2.177E-05	80	3.350	-9.426E-07	2.681E-07	-3.372E-07
32	0.715	1.054E-05	1.492E-05	1.273E-05	81	3.430	-7.512E-07	6.815E-07	-3.486E-08
33	0.745	1.503E-05	1.962E-05	1.733E-05	82	3.510	-4.329E-07	7.469E-07	1.570E-07
34	0.775	1.395E-05	1.846E-05	1.621E-05	83	3.590	-3.244E-07	7.115E-07	1.935E-07
35	0.810	1.271E-05	1.747E-05	1.509E-05	84	3.670	-2.104E-07	9.049E-07	3.472E-07
36	0.850	4.294E-05	4.826E-05	4.560E-05	85	3.750	2.879E-09	1.064E-06	5.334E-07
37	0.890	6.141E-05	6.716E-05	6.429E-05	86	3.830	-6.767E-08	1.163E-06	5.475E-07
38	0.930	4.160E-05	4.715E-05	4.438E-05	87	3.915	-5.268E-08	1.071E-06	5.091E-07
39	0.970	1.787E-05	2.287E-05	2.037E-05	88	4.005	-7.104E-08	8.692E-07	3.991E-07
40	1.010	1.221E-05	1.691E-05	1.456E-05	89	4.095	-2.111E-07	6.875E-07	2.382E-07
41	1.050	1.560E-05	1.980E-05	1.770E-05	90	4.185	-3.754E-07	5.733E-07	9.896E-08
42	1.090	1.479E-05	1.870E-05	1.674E-05	91	4.275	-5.256E-07	4.288E-07	-4.838E-08
43	1.130	9.791E-06	1.346E-05	1.163E-05	92	4.365	-6.058E-07	3.070E-07	-1.494E-07
44	1.170	8.201E-06	1.157E-05	9.885E-06	93	4.455	-6.435E-07	1.728E-07	-2.354E-07
45	1.210	6.900E-06	9.920E-06	8.410E-06	94	4.550	-6.375E-07	1.566E-07	-2.405E-07
46	1.250	4.197E-06	8.296E-06	6.247E-06	95	4.650	-4.954E-07	3.869E-07	-5.425E-08
47	1.295	4.902E-06	7.749E-06	6.325E-06	96	4.750	-2.031E-07	4.779E-07	1.374E-07
48	1.345	7.178E-06	1.081E-05	8.994E-06	97	4.850	5.197E-08	4.897E-07	2.708E-07
49	1.395	1.935E-05	2.371E-05	2.153E-05	98	4.950	1.753E-07	4.947E-07	3.350E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 11950 SEC

COUNTING TIME : 3000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	5.515E-05	1.754E-04	1.153E-04	50	1.445	1.409E-05	1.761E-05	1.585E-05
2	0.111	5.579E-05	2.012E-04	1.285E-04	51	1.495	4.034E-06	6.887E-06	5.460E-06
3	0.117	1.854E-05	1.834E-04	1.010E-04	52	1.545	1.643E-06	3.967E-06	2.805E-06
4	0.125	5.701E-06	9.693E-05	5.132E-05	53	1.595	3.486E-06	5.776E-06	4.631E-06
5	0.135	2.508E-06	5.194E-05	2.722E-05	54	1.645	1.007E-06	3.140E-06	2.074E-06
6	0.145	-7.318E-06	7.494E-05	3.381E-05	55	1.695	1.696E-07	2.134E-06	1.152E-06
7	0.155	2.075E-05	5.734E-05	3.904E-05	56	1.745	2.326E-06	4.303E-06	3.314E-06
8	0.165	3.076E-05	5.170E-05	4.123E-05	57	1.800	2.392E-06	4.399E-06	3.396E-06
9	0.175	2.197E-05	5.488E-05	3.843E-05	58	1.860	4.156E-06	6.199E-06	5.177E-06
10	0.185	2.245E-05	3.698E-05	2.971E-05	59	1.920	2.711E-06	4.756E-06	3.733E-06
11	0.200	2.344E-05	3.242E-05	2.793E-05	60	1.980	1.848E-06	3.735E-06	2.792E-06
12	0.220	2.005E-05	2.956E-05	2.480E-05	61	2.040	1.951E-06	3.929E-06	2.940E-06
13	0.240	1.718E-05	2.513E-05	2.115E-05	62	2.100	2.150E-06	4.216E-06	3.183E-06
14	0.260	1.476E-05	2.106E-05	1.791E-05	63	2.160	1.470E-06	3.697E-06	2.583E-06
15	0.280	2.488E-05	3.031E-05	2.759E-05	64	2.220	1.030E-06	3.007E-06	2.018E-06
16	0.300	5.932E-05	6.478E-05	6.205E-05	65	2.280	1.913E-06	3.885E-06	2.899E-06
17	0.320	6.504E-05	7.061E-05	6.782E-05	66	2.340	9.354E-07	2.772E-06	1.854E-06
18	0.340	2.896E-05	3.412E-05	3.154E-05	67	2.405	3.340E-06	5.308E-06	4.324E-06
19	0.360	7.748E-06	1.247E-05	1.011E-05	68	2.475	3.801E-06	5.549E-06	4.675E-06
20	0.380	1.449E-05	1.901E-05	1.675E-05	69	2.545	7.372E-07	2.527E-06	1.632E-06
21	0.400	2.454E-05	2.929E-05	2.691E-05	70	2.615	1.250E-06	3.347E-06	2.298E-06
22	0.420	2.483E-05	2.939E-05	2.711E-05	71	2.685	7.204E-07	2.805E-06	1.762E-06
23	0.445	1.654E-05	2.093E-05	1.874E-05	72	2.755	-3.572E-07	1.134E-06	3.885E-07
24	0.475	1.154E-05	1.586E-05	1.370E-05	73	2.825	-1.741E-07	9.939E-07	4.099E-07
25	0.505	1.306E-05	1.742E-05	1.524E-05	74	2.895	-2.047E-07	8.600E-07	3.276E-07
26	0.535	1.927E-05	2.358E-05	2.142E-05	75	2.965	-2.501E-07	6.937E-07	2.218E-07
27	0.565	2.118E-05	2.564E-05	2.341E-05	76	3.035	-7.578E-08	9.195E-07	4.219E-07
28	0.595	1.359E-05	1.794E-05	1.576E-05	77	3.110	-2.777E-07	6.317E-07	1.770E-07
29	0.625	1.594E-05	2.001E-05	1.797E-05	78	3.190	-7.213E-07	2.065E-07	-2.574E-07
30	0.655	2.273E-05	2.652E-05	2.463E-05	79	3.270	-7.343E-07	2.601E-07	-2.371E-07
31	0.685	1.478E-05	1.838E-05	1.658E-05	80	3.350	-3.767E-07	5.003E-07	6.182E-08
32	0.715	8.378E-06	1.193E-05	1.015E-05	81	3.430	-3.158E-07	6.126E-07	1.484E-07
33	0.745	1.051E-05	1.420E-05	1.235E-05	82	3.510	-2.576E-07	6.566E-07	1.995E-07
34	0.775	1.331E-05	1.698E-05	1.515E-05	83	3.590	-1.689E-07	7.807E-07	3.059E-07
35	0.810	8.564E-06	1.232E-05	1.044E-05	84	3.670	-2.207E-07	6.799E-07	2.296E-07
36	0.850	2.848E-05	3.257E-05	3.052E-05	85	3.750	-3.165E-07	4.898E-07	8.668E-08
37	0.890	3.540E-05	3.976E-05	3.758E-05	86	3.830	-4.187E-07	4.657E-07	2.350E-08
38	0.930	2.813E-05	3.260E-05	3.036E-05	87	3.915	-5.321E-07	4.201E-07	-5.602E-08
39	0.970	1.082E-05	1.492E-05	1.287E-05	88	4.005	-5.887E-07	4.217E-07	-8.350E-08
40	1.010	8.779E-06	1.263E-05	1.070E-05	89	4.095	-3.691E-07	6.139E-07	1.224E-07
41	1.050	1.323E-05	1.664E-05	1.494E-05	90	4.185	-9.032E-08	8.081E-07	3.589E-07
42	1.090	1.029E-05	1.341E-05	1.185E-05	91	4.275	-8.193E-08	8.730E-07	3.956E-07
43	1.130	5.509E-06	8.458E-06	6.983E-06	92	4.365	-2.510E-07	7.332E-07	2.411E-07
44	1.170	6.573E-06	9.316E-06	7.944E-06	93	4.455	-5.193E-07	4.104E-07	-5.445E-08
45	1.210	5.107E-06	7.533E-06	6.320E-06	94	4.550	-7.738E-07	6.921E-08	-3.523E-07
46	1.250	3.045E-06	6.380E-06	4.712E-06	95	4.650	-7.646E-07	1.730E-08	-3.737E-07
47	1.295	4.150E-06	6.481E-06	5.316E-06	96	4.750	-4.492E-07	2.046E-07	-1.223E-07
48	1.345	6.342E-06	9.306E-06	7.824E-06	97	4.850	3.765E-09	4.363E-07	2.201E-07
49	1.395	1.647E-05	2.004E-05	1.826E-05	98	4.950	2.430E-07	5.948E-07	4.189E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>232</sup>Th BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 14950 SEC

COUNTING TIME : 3000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.352E-05	1.419E-04	9.270E-05	50	1.445	1.014E-05	1.354E-05	1.184E-05
2	0.111	4.706E-05	1.658E-04	1.064E-04	51	1.495	2.779E-06	5.543E-06	4.161E-06
3	0.117	1.757E-05	1.524E-04	8.496E-05	52	1.545	-1.073E-08	2.143E-06	1.066E-06
4	0.125	3.867E-06	7.832E-05	4.109E-05	53	1.595	-3.764E-07	1.710E-06	6.667E-07
5	0.135	-1.041E-06	4.004E-05	1.950E-05	54	1.645	-1.027E-06	9.596E-07	-3.381E-08
6	0.145	-6.973E-06	6.111E-05	2.707E-05	55	1.695	6.974E-07	2.598E-06	1.648E-06
7	0.155	1.383E-05	4.412E-05	2.897E-05	56	1.745	2.494E-06	4.392E-06	3.443E-06
8	0.165	2.108E-05	4.019E-05	3.064E-05	57	1.800	2.235E-06	4.122E-06	3.179E-06
9	0.175	1.658E-05	4.616E-05	3.137E-05	58	1.860	3.716E-06	5.681E-06	4.698E-06
10	0.185	1.611E-05	2.944E-05	2.277E-05	59	1.920	2.694E-06	4.635E-06	3.664E-06
11	0.200	1.572E-05	2.425E-05	1.998E-05	60	1.980	1.217E-06	2.979E-06	2.098E-06
12	0.220	1.029E-05	1.944E-05	1.486E-05	61	2.040	1.367E-06	3.220E-06	2.294E-06
13	0.240	1.362E-05	2.143E-05	1.752E-05	62	2.100	1.094E-06	3.047E-06	2.071E-06
14	0.260	1.244E-05	1.863E-05	1.554E-05	63	2.160	-4.952E-07	1.556E-06	5.306E-07
15	0.280	2.221E-05	2.754E-05	2.488E-05	64	2.220	-2.479E-07	1.632E-06	6.922E-07
16	0.300	5.689E-05	6.226E-05	5.958E-05	65	2.280	8.300E-07	2.644E-06	1.737E-06
17	0.320	6.127E-05	6.674E-05	6.400E-05	66	2.340	4.977E-07	2.255E-06	1.376E-06
18	0.340	2.723E-05	3.230E-05	2.976E-05	67	2.405	2.192E-06	4.041E-06	3.116E-06
19	0.360	7.865E-06	1.247E-05	1.017E-05	68	2.475	3.167E-06	4.831E-06	3.999E-06
20	0.380	9.417E-06	1.372E-05	1.157E-05	69	2.545	1.381E-06	3.148E-06	2.265E-06
21	0.400	1.542E-05	1.993E-05	1.768E-05	70	2.615	1.689E-06	3.692E-06	2.690E-06
22	0.420	1.615E-05	2.050E-05	1.832E-05	71	2.685	2.905E-07	2.032E-06	1.161E-06
23	0.445	9.365E-06	1.356E-05	1.146E-05	72	2.755	-7.209E-07	2.598E-07	-2.305E-07
24	0.475	3.729E-06	7.890E-06	5.810E-06	73	2.825	-5.387E-07	3.227E-07	-1.080E-07
25	0.505	9.499E-06	1.377E-05	1.163E-05	74	2.895	-4.049E-07	4.045E-07	-1.827E-10
26	0.535	1.805E-05	2.231E-05	2.018E-05	75	2.965	-5.613E-07	1.772E-07	-1.921E-07
27	0.565	1.970E-05	2.409E-05	2.190E-05	76	3.035	-4.972E-07	2.576E-07	-1.198E-07
28	0.595	6.681E-06	1.089E-05	8.785E-06	77	3.110	-3.147E-07	4.994E-07	9.237E-08
29	0.625	9.451E-06	1.335E-05	1.140E-05	78	3.190	-2.061E-07	6.522E-07	2.231E-07
30	0.655	1.623E-05	1.986E-05	1.805E-05	79	3.270	-1.663E-08	7.615E-07	3.725E-07
31	0.685	1.152E-05	1.500E-05	1.326E-05	80	3.350	7.135E-08	8.005E-07	4.359E-07
32	0.715	5.741E-06	9.183E-06	7.462E-06	81	3.430	-6.262E-08	6.320E-07	2.847E-07
33	0.745	7.088E-06	1.068E-05	8.882E-06	82	3.510	-1.632E-07	5.063E-07	1.715E-07
34	0.775	8.331E-06	1.186E-05	1.010E-05	83	3.590	-2.382E-07	4.306E-07	9.618E-08
35	0.810	6.624E-06	1.025E-05	8.436E-06	84	3.670	-2.839E-07	4.008E-07	5.845E-08
36	0.850	1.680E-05	2.063E-05	1.871E-05	85	3.750	-2.621E-07	3.997E-07	6.880E-08
37	0.890	2.323E-05	2.741E-05	2.532E-05	86	3.830	-2.639E-07	4.087E-07	7.243E-08
38	0.930	2.081E-05	2.519E-05	2.300E-05	87	3.915	-2.795E-07	4.027E-07	6.163E-08
39	0.970	9.189E-06	1.324E-05	1.122E-05	88	4.005	-3.518E-07	3.531E-07	6.692E-10
40	1.010	5.398E-06	9.160E-06	7.279E-06	89	4.095	-4.102E-07	2.854E-07	-6.239E-08
41	1.050	8.746E-06	1.203E-05	1.039E-05	90	4.185	-4.618E-07	2.845E-07	-8.867E-08
42	1.090	8.400E-06	1.144E-05	9.920E-06	91	4.275	-5.721E-07	1.959E-07	-1.881E-07
43	1.130	5.258E-06	8.146E-06	6.702E-06	92	4.365	-5.855E-07	6.655E-08	-2.595E-07
44	1.170	4.865E-06	7.510E-06	6.187E-06	93	4.455	-4.438E-07	1.785E-07	-1.326E-07
45	1.210	4.371E-06	6.736E-06	5.554E-06	94	4.550	-1.279E-07	4.132E-07	1.426E-07
46	1.250	2.599E-06	5.865E-06	4.232E-06	95	4.650	8.225E-08	5.759E-07	3.291E-07
47	1.295	4.813E-06	7.083E-06	5.948E-06	96	4.750	1.344E-07	5.341E-07	3.342E-07
48	1.345	6.537E-06	9.460E-06	7.998E-06	97	4.850	1.334E-07	3.866E-07	2.600E-07
49	1.395	9.688E-06	1.311E-05	1.140E-05	98	4.950	7.680E-08	2.401E-07	1.584E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 17950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.149E-05	1.284E-04	8.496E-05	50	1.445	7.201E-06	1.022E-05	8.712E-06
2	0.111	4.533E-05	1.507E-04	9.801E-05	51	1.495	1.250E-06	3.710E-06	2.480E-06
3	0.117	1.845E-05	1.373E-04	7.789E-05	52	1.545	4.809E-07	2.443E-06	1.462E-06
4	0.125	3.388E-06	6.920E-05	3.629E-05	53	1.595	1.185E-06	3.047E-06	2.116E-06
5	0.135	-1.027E-06	3.422E-05	1.660E-05	54	1.645	-6.559E-07	1.085E-06	2.143E-07
6	0.145	-5.009E-06	5.354E-05	2.426E-05	55	1.695	-4.501E-07	1.184E-06	3.671E-07
7	0.155	1.152E-05	3.758E-05	2.455E-05	56	1.745	1.236E-06	2.838E-06	2.037E-06
8	0.165	1.674E-05	3.316E-05	2.495E-05	57	1.800	1.424E-06	3.067E-06	2.246E-06
9	0.175	1.219E-05	3.754E-05	2.486E-05	58	1.860	1.765E-06	3.431E-06	2.598E-06
10	0.185	1.000E-05	2.151E-05	1.576E-05	59	1.920	1.825E-06	3.485E-06	2.655E-06
11	0.200	1.095E-05	1.843E-05	1.469E-05	60	1.980	1.117E-06	2.639E-06	1.878E-06
12	0.220	8.815E-06	1.688E-05	1.285E-05	61	2.040	6.461E-07	2.258E-06	1.452E-06
13	0.240	1.225E-05	1.920E-05	1.572E-05	62	2.100	1.464E-07	1.802E-06	9.742E-07
14	0.260	9.574E-06	1.507E-05	1.232E-05	63	2.160	1.405E-07	1.957E-06	1.049E-06
15	0.280	1.998E-05	2.467E-05	2.233E-05	64	2.220	-1.342E-07	1.530E-06	6.981E-07
16	0.300	5.488E-05	5.960E-05	5.724E-05	65	2.280	8.456E-07	2.438E-06	1.642E-06
17	0.320	6.011E-05	6.495E-05	6.253E-05	66	2.340	7.790E-07	2.341E-06	1.560E-06
18	0.340	2.594E-05	3.045E-05	2.820E-05	67	2.405	1.135E-06	2.700E-06	1.918E-06
19	0.360	4.714E-06	8.773E-06	6.744E-06	68	2.475	2.081E-06	3.513E-06	2.797E-06
20	0.380	5.722E-06	9.472E-06	7.597E-06	69	2.545	2.158E-07	1.851E-06	1.033E-06
21	0.400	1.005E-05	1.397E-05	1.201E-05	70	2.615	1.766E-07	1.990E-06	1.083E-06
22	0.420	9.721E-06	1.350E-05	1.161E-05	71	2.685	6.096E-08	1.631E-06	8.460E-07
23	0.445	5.261E-06	8.966E-06	7.113E-06	72	2.755	-1.916E-07	8.604E-07	3.344E-07
24	0.475	2.902E-06	6.611E-06	4.756E-06	73	2.825	-7.783E-08	8.265E-07	3.744E-07
25	0.505	6.542E-06	1.033E-05	8.435E-06	74	2.895	-1.518E-07	6.979E-07	2.730E-07
26	0.535	1.710E-05	2.088E-05	1.899E-05	75	2.965	-2.954E-07	5.225E-07	1.135E-07
27	0.565	1.734E-05	2.124E-05	1.929E-05	76	3.035	-4.608E-07	3.234E-07	-6.869E-08
28	0.595	7.313E-06	1.108E-05	9.199E-06	77	3.110	-8.228E-07	3.195E-08	-3.954E-07
29	0.625	7.261E-06	1.068E-05	8.971E-06	78	3.190	-9.772E-07	-5.925E-08	-5.182E-07
30	0.655	1.290E-05	1.605E-05	1.447E-05	79	3.270	-8.073E-07	1.090E-07	-3.492E-07
31	0.685	1.057E-05	1.364E-05	1.210E-05	80	3.350	-5.706E-07	2.883E-07	-1.412E-07
32	0.715	5.888E-06	8.944E-06	7.416E-06	81	3.430	-3.480E-07	4.769E-07	6.444E-08
33	0.745	6.136E-06	9.312E-06	7.724E-06	82	3.510	-2.181E-07	6.225E-07	2.022E-07
34	0.775	6.257E-06	9.362E-06	7.809E-06	83	3.590	-4.867E-08	7.501E-07	3.507E-07
35	0.810	4.487E-06	7.647E-06	6.067E-06	84	3.670	1.993E-08	8.788E-07	4.494E-07
36	0.850	9.662E-06	1.295E-05	1.131E-05	85	3.750	-5.744E-08	6.295E-07	2.861E-07
37	0.890	1.481E-05	1.842E-05	1.661E-05	86	3.830	-2.775E-07	3.835E-07	5.301E-08
38	0.930	1.059E-05	1.442E-05	1.250E-05	87	3.915	-3.548E-07	2.927E-07	-3.107E-08
39	0.970	6.004E-06	9.639E-06	7.821E-06	88	4.005	-2.972E-07	4.422E-07	7.250E-08
40	1.010	3.751E-06	7.102E-06	5.426E-06	89	4.095	-7.276E-08	6.561E-07	2.917E-07
41	1.050	5.046E-06	7.906E-06	6.476E-06	90	4.185	-4.306E-08	8.304E-07	3.937E-07
42	1.090	6.499E-06	9.176E-06	7.837E-06	91	4.275	-2.209E-07	7.371E-07	2.581E-07
43	1.130	3.452E-06	6.005E-06	4.729E-06	92	4.365	-4.402E-07	4.244E-07	-7.901E-09
44	1.170	2.641E-06	4.955E-06	3.798E-06	93	4.455	-7.383E-07	6.447E-08	-3.369E-07
45	1.210	2.855E-06	4.931E-06	3.893E-06	94	4.550	-1.040E-06	-1.024E-07	-5.711E-07
46	1.250	1.364E-06	4.207E-06	2.785E-06	95	4.650	-9.258E-07	6.293E-08	-4.314E-07
47	1.295	2.359E-06	4.355E-06	3.357E-06	96	4.750	-4.408E-07	3.375E-07	-5.164E-08
48	1.345	4.296E-06	6.856E-06	5.576E-06	97	4.850	7.163E-08	5.347E-07	3.032E-07
49	1.395	1.034E-05	1.342E-05	1.188E-05	98	4.950	2.167E-07	6.798E-07	4.483E-07



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{232}\text{Th}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 21950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.794E-05	1.164E-04	7.716E-05	50	1.445	5.642E-06	8.622E-06	7.132E-06
2	0.111	4.300E-05	1.383E-04	9.065E-05	51	1.495	1.404E-06	3.817E-06	2.610E-06
3	0.117	2.017E-05	1.265E-04	7.335E-05	52	1.545	-4.121E-07	1.476E-06	5.322E-07
4	0.125	4.707E-06	6.411E-05	3.441E-05	53	1.595	-2.098E-07	1.525E-06	6.578E-07
5	0.135	-2.467E-06	2.672E-05	1.213E-05	54	1.645	-1.279E-07	1.584E-06	7.283E-07
6	0.145	-9.668E-06	3.898E-05	1.465E-05	55	1.695	-5.521E-07	1.073E-06	2.605E-07
7	0.155	4.247E-06	2.590E-05	1.507E-05	56	1.745	2.213E-08	1.507E-06	7.646E-07
8	0.165	1.010E-05	2.495E-05	1.753E-05	57	1.800	4.071E-07	1.978E-06	1.193E-06
9	0.175	8.146E-06	3.069E-05	1.942E-05	58	1.860	8.960E-07	2.493E-06	1.695E-06
10	0.185	8.284E-06	1.883E-05	1.355E-05	59	1.920	9.416E-07	2.518E-06	1.730E-06
11	0.200	8.805E-06	1.594E-05	1.237E-05	60	1.980	2.194E-07	1.709E-06	9.643E-07
12	0.220	5.710E-06	1.348E-05	9.593E-06	61	2.040	-5.991E-08	1.494E-06	7.168E-07
13	0.240	1.077E-05	1.760E-05	1.419E-05	62	2.100	8.919E-07	2.566E-06	1.729E-06
14	0.260	1.135E-05	1.682E-05	1.409E-05	63	2.160	2.280E-07	2.046E-06	1.137E-06
15	0.280	2.052E-05	2.519E-05	2.285E-05	64	2.220	4.584E-07	2.170E-06	1.314E-06
16	0.300	5.245E-05	5.714E-05	5.480E-05	65	2.280	1.120E-06	2.725E-06	1.922E-06
17	0.320	5.841E-05	6.322E-05	6.081E-05	66	2.340	7.190E-07	2.200E-06	1.459E-06
18	0.340	2.711E-05	3.162E-05	2.936E-05	67	2.405	9.872E-07	2.530E-06	1.759E-06
19	0.360	7.048E-06	1.110E-05	9.075E-06	68	2.475	1.114E-06	2.541E-06	1.827E-06
20	0.380	5.087E-06	8.787E-06	6.937E-06	69	2.545	1.972E-07	1.752E-06	9.744E-07
21	0.400	6.735E-06	1.056E-05	8.648E-06	70	2.615	-1.855E-07	8.763E-07	3.454E-07
22	0.420	6.674E-06	1.040E-05	8.539E-06	71	2.685	-5.058E-07	5.306E-07	1.239E-08
23	0.445	2.784E-06	6.458E-06	4.621E-06	72	2.755	-5.355E-07	3.270E-07	-1.042E-07
24	0.475	1.563E-06	5.257E-06	3.410E-06	73	2.825	-5.643E-07	3.472E-07	-1.086E-07
25	0.505	4.952E-06	8.718E-06	6.835E-06	74	2.895	-4.692E-07	4.767E-07	3.754E-09
26	0.535	1.301E-05	1.675E-05	1.488E-05	75	2.965	-3.989E-07	1.107E-06	3.543E-07
27	0.565	1.455E-05	1.843E-05	1.649E-05	76	3.035	-2.657E-07	9.087E-07	3.215E-07
28	0.595	5.041E-06	8.784E-06	6.913E-06	77	3.110	-4.963E-07	2.505E-07	-1.229E-07
29	0.625	3.072E-06	6.429E-06	4.751E-06	78	3.190	-4.779E-07	2.595E-07	-1.092E-07
30	0.655	1.085E-05	1.396E-05	1.241E-05	79	3.270	-2.895E-07	5.591E-07	1.348E-07
31	0.685	9.434E-06	1.248E-05	1.095E-05	80	3.350	-2.156E-07	5.776E-07	1.810E-07
32	0.715	3.811E-06	6.825E-06	5.318E-06	81	3.430	-2.817E-07	8.097E-07	2.640E-07
33	0.745	6.224E-06	9.393E-06	7.809E-06	82	3.510	-2.946E-07	7.055E-07	2.055E-07
34	0.775	6.756E-06	9.852E-06	8.304E-06	83	3.590	-3.453E-07	3.541E-07	4.381E-09
35	0.810	2.592E-06	5.696E-06	4.144E-06	84	3.670	-4.350E-07	2.521E-07	-9.143E-08
36	0.850	5.906E-06	9.115E-06	7.511E-06	85	3.750	-3.956E-07	1.914E-07	-1.021E-07
37	0.890	6.632E-06	1.016E-05	8.395E-06	86	3.830	-3.227E-07	2.682E-07	-2.726E-08
38	0.930	1.015E-05	1.401E-05	1.208E-05	87	3.915	-2.177E-07	5.117E-07	1.470E-07
39	0.970	4.229E-06	7.843E-06	6.036E-06	88	4.005	-5.784E-08	6.862E-07	3.142E-07
40	1.010	2.374E-06	5.711E-06	4.043E-06	89	4.095	3.588E-08	7.400E-07	3.879E-07
41	1.050	3.995E-06	6.817E-06	5.406E-06	90	4.185	-4.618E-08	5.678E-07	2.608E-07
42	1.090	4.057E-06	6.678E-06	5.367E-06	91	4.275	-3.291E-07	2.829E-07	-2.308E-08
43	1.130	2.212E-06	4.728E-06	3.470E-06	92	4.365	-4.819E-07	9.048E-08	-1.957E-07
44	1.170	1.905E-06	4.196E-06	3.050E-06	93	4.455	-5.106E-07	2.917E-08	-2.407E-07
45	1.210	1.944E-06	3.995E-06	2.969E-06	94	4.550	-3.922E-07	4.843E-08	-1.719E-07
46	1.250	1.500E-06	4.287E-06	2.893E-06	95	4.650	-1.907E-07	2.488E-07	2.904E-08
47	1.295	2.035E-06	4.005E-06	3.020E-06	96	4.750	-2.424E-08	3.866E-07	1.812E-07
48	1.345	3.380E-06	5.885E-06	4.632E-06	97	4.850	6.660E-08	3.621E-07	2.143E-07
49	1.395	6.429E-06	9.418E-06	7.923E-06	98	4.950	8.767E-08	2.713E-07	1.795E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 115 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.807E-03	5.242E-03	4.025E-03	50	1.445	1.970E-03	2.238E-03	2.104E-03
2	0.111	1.141E-03	2.441E-03	1.791E-03	51	1.495	1.286E-03	1.512E-03	1.399E-03
3	0.117	-5.965E-04	3.931E-03	1.667E-03	52	1.545	8.383E-04	1.045E-03	9.418E-04
4	0.125	1.544E-03	3.506E-03	2.525E-03	53	1.595	7.185E-04	9.258E-04	8.222E-04
5	0.135	7.267E-05	3.175E-03	1.624E-03	54	1.645	4.246E-04	6.108E-04	5.177E-04
6	0.145	-1.930E-04	4.305E-03	2.056E-03	55	1.695	4.086E-04	5.938E-04	5.012E-04
7	0.155	8.770E-04	3.002E-03	1.939E-03	56	1.745	3.929E-04	5.844E-04	4.886E-04
8	0.165	1.628E-03	3.005E-03	2.316E-03	57	1.800	4.007E-04	5.995E-04	5.001E-04
9	0.175	1.829E-03	3.954E-03	2.892E-03	58	1.860	3.949E-04	5.994E-04	4.971E-04
10	0.185	2.455E-03	3.401E-03	2.928E-03	59	1.920	4.100E-04	6.141E-04	5.121E-04
11	0.200	3.381E-03	3.975E-03	3.678E-03	60	1.980	3.465E-04	5.235E-04	4.350E-04
12	0.220	3.024E-03	3.607E-03	3.315E-03	61	2.040	3.154E-04	5.047E-04	4.101E-04
13	0.240	1.639E-03	2.103E-03	1.871E-03	62	2.100	2.821E-04	4.657E-04	3.739E-04
14	0.260	1.396E-03	1.794E-03	1.595E-03	63	2.160	1.502E-04	3.281E-04	2.392E-04
15	0.280	2.241E-03	2.627E-03	2.434E-03	64	2.220	2.100E-04	3.825E-04	2.962E-04
16	0.300	2.168E-03	2.536E-03	2.352E-03	65	2.280	2.641E-04	4.489E-04	3.565E-04
17	0.320	2.100E-03	2.464E-03	2.282E-03	66	2.340	1.321E-04	3.214E-04	2.268E-04
18	0.340	1.963E-03	2.326E-03	2.145E-03	67	2.405	2.022E-04	4.051E-04	3.037E-04
19	0.360	2.072E-03	2.451E-03	2.261E-03	68	2.475	1.223E-04	3.130E-04	2.176E-04
20	0.380	2.705E-03	3.095E-03	2.900E-03	69	2.545	2.519E-04	4.401E-04	3.460E-04
21	0.400	3.229E-03	3.635E-03	3.432E-03	70	2.615	2.065E-04	3.858E-04	2.961E-04
22	0.420	2.697E-03	3.067E-03	2.882E-03	71	2.685	1.435E-05	1.888E-04	1.016E-04
23	0.445	2.155E-03	2.500E-03	2.328E-03	72	2.755	8.758E-05	2.545E-04	1.710E-04
24	0.475	1.888E-03	2.219E-03	2.054E-03	73	2.825	1.596E-04	3.441E-04	2.519E-04
25	0.505	1.589E-03	1.911E-03	1.750E-03	74	2.895	1.283E-04	3.212E-04	2.247E-04
26	0.535	1.853E-03	2.173E-03	2.013E-03	75	2.965	5.822E-05	2.390E-04	1.486E-04
27	0.565	2.587E-03	2.922E-03	2.754E-03	76	3.035	-4.488E-05	1.301E-04	4.264E-05
28	0.595	2.625E-03	2.949E-03	2.787E-03	77	3.110	-7.834E-05	9.077E-05	6.216E-06
29	0.625	1.689E-03	1.985E-03	1.837E-03	78	3.190	-1.423E-04	2.088E-05	-6.069E-05
30	0.655	9.408E-04	1.213E-03	1.077E-03	79	3.270	-5.867E-05	1.006E-04	2.096E-05
31	0.685	1.250E-03	1.533E-03	1.391E-03	80	3.350	1.340E-06	1.606E-04	8.096E-05
32	0.715	1.907E-03	2.203E-03	2.055E-03	81	3.430	-1.203E-05	1.260E-04	5.700E-05
33	0.745	1.769E-03	2.060E-03	1.915E-03	82	3.510	9.831E-05	2.409E-04	1.696E-04
34	0.775	1.115E-03	1.389E-03	1.252E-03	83	3.590	1.479E-04	2.892E-04	2.185E-04
35	0.810	1.540E-03	1.840E-03	1.690E-03	84	3.670	1.404E-04	2.660E-04	2.032E-04
36	0.850	2.434E-03	2.750E-03	2.592E-03	85	3.750	9.581E-05	2.115E-04	1.537E-04
37	0.890	2.003E-03	2.305E-03	2.154E-03	86	3.830	-1.762E-05	8.964E-05	3.601E-05
38	0.930	1.597E-03	1.889E-03	1.743E-03	87	3.915	-2.252E-05	8.060E-05	2.904E-05
39	0.970	1.729E-03	2.017E-03	1.873E-03	88	4.005	-1.004E-05	8.811E-05	3.903E-05
40	1.010	1.492E-03	1.782E-03	1.637E-03	89	4.095	2.240E-05	1.119E-04	6.712E-05
41	1.050	1.075E-03	1.337E-03	1.206E-03	90	4.185	8.824E-05	1.814E-04	1.348E-04
42	1.090	1.143E-03	1.404E-03	1.273E-03	91	4.275	6.500E-05	1.518E-04	1.084E-04
43	1.130	1.264E-03	1.516E-03	1.390E-03	92	4.365	1.723E-05	1.051E-04	6.114E-05
44	1.170	1.168E-03	1.404E-03	1.286E-03	93	4.455	-9.631E-06	7.797E-05	3.417E-05
45	1.210	1.042E-03	1.261E-03	1.151E-03	94	4.550	-5.413E-05	2.102E-05	-1.656E-05
46	1.250	8.262E-04	1.116E-03	9.709E-04	95	4.650	-6.030E-05	9.094E-06	-2.560E-05
47	1.295	8.514E-04	1.054E-03	9.526E-04	96	4.750	-1.333E-05	4.652E-05	1.659E-05
48	1.345	1.138E-03	1.380E-03	1.259E-03	97	4.850	3.774E-05	8.721E-05	6.248E-05
49	1.395	1.468E-03	1.726E-03	1.597E-03	98	4.950	6.512E-05	9.745E-05	8.129E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 195 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.202E-03	2.708E-03	1.955E-03	50	1.445	9.965E-04	1.158E-03	1.077E-03
2	0.111	4.941E-04	1.288E-03	8.908E-04	51	1.495	7.176E-04	8.599E-04	7.887E-04
3	0.117	-3.721E-04	2.461E-03	1.044E-03	52	1.545	5.106E-04	6.402E-04	5.754E-04
4	0.125	5.765E-04	1.761E-03	1.169E-03	53	1.595	2.871E-04	4.109E-04	3.490E-04
5	0.135	-3.545E-04	1.706E-03	6.759E-04	54	1.645	2.733E-04	3.935E-04	3.334E-04
6	0.145	2.412E-04	3.223E-03	1.732E-03	55	1.695	3.703E-04	4.962E-04	4.332E-04
7	0.155	5.515E-04	1.961E-03	1.256E-03	56	1.745	2.738E-04	3.925E-04	3.332E-04
8	0.165	1.046E-03	1.996E-03	1.521E-03	57	1.800	2.537E-04	3.777E-04	3.157E-04
9	0.175	1.536E-03	2.991E-03	2.264E-03	58	1.860	1.821E-04	3.074E-04	2.447E-04
10	0.185	1.740E-03	2.389E-03	2.064E-03	59	1.920	2.166E-04	3.385E-04	2.775E-04
11	0.200	2.269E-03	2.679E-03	2.474E-03	60	1.980	2.256E-04	3.441E-04	2.848E-04
12	0.220	2.137E-03	2.548E-03	2.343E-03	61	2.040	2.979E-04	4.187E-04	3.583E-04
13	0.240	1.558E-03	1.890E-03	1.724E-03	62	2.100	1.573E-04	2.740E-04	2.156E-04
14	0.260	1.402E-03	1.683E-03	1.543E-03	63	2.160	1.179E-04	2.284E-04	1.731E-04
15	0.280	1.746E-03	2.012E-03	1.879E-03	64	2.220	8.872E-05	1.927E-04	1.407E-04
16	0.300	1.603E-03	1.851E-03	1.727E-03	65	2.280	4.067E-05	1.435E-04	9.206E-05
17	0.320	1.333E-03	1.571E-03	1.452E-03	66	2.340	4.165E-05	1.585E-04	1.001E-04
18	0.340	1.138E-03	1.371E-03	1.255E-03	67	2.405	-2.151E-05	9.346E-05	3.598E-05
19	0.360	1.132E-03	1.372E-03	1.252E-03	68	2.475	8.941E-05	2.074E-04	1.484E-04
20	0.380	1.276E-03	1.520E-03	1.398E-03	69	2.545	2.091E-04	3.317E-04	2.704E-04
21	0.400	1.699E-03	1.960E-03	1.829E-03	70	2.615	2.852E-04	4.160E-04	3.506E-04
22	0.420	1.918E-03	2.171E-03	2.045E-03	71	2.685	-3.868E-05	7.719E-05	1.926E-05
23	0.445	1.813E-03	2.054E-03	1.933E-03	72	2.755	-1.192E-04	1.480E-05	-5.222E-05
24	0.475	1.373E-03	1.597E-03	1.485E-03	73	2.825	5.975E-05	1.843E-04	1.220E-04
25	0.505	1.196E-03	1.411E-03	1.304E-03	74	2.895	9.171E-05	2.174E-04	1.546E-04
26	0.535	9.962E-04	1.202E-03	1.099E-03	75	2.965	3.136E-05	1.442E-04	8.776E-05
27	0.565	1.524E-03	1.743E-03	1.633E-03	76	3.035	-5.754E-05	5.008E-05	-3.728E-06
28	0.595	1.618E-03	1.832E-03	1.725E-03	77	3.110	-6.338E-05	4.055E-05	-1.142E-05
29	0.625	1.143E-03	1.343E-03	1.243E-03	78	3.190	-5.498E-05	6.658E-05	5.797E-06
30	0.655	7.397E-04	9.251E-04	8.324E-04	79	3.270	-5.171E-05	6.406E-05	6.177E-06
31	0.685	9.980E-04	1.190E-03	1.094E-03	80	3.350	-1.872E-05	8.670E-05	3.399E-05
32	0.715	1.236E-03	1.430E-03	1.333E-03	81	3.430	1.967E-05	1.133E-04	6.647E-05
33	0.745	9.352E-04	1.123E-03	1.029E-03	82	3.510	4.798E-05	1.314E-04	8.971E-05
34	0.775	9.211E-04	1.109E-03	1.015E-03	83	3.590	1.000E-04	1.908E-04	1.454E-04
35	0.810	1.236E-03	1.442E-03	1.339E-03	84	3.670	7.487E-05	1.589E-04	1.169E-04
36	0.850	1.868E-03	2.084E-03	1.976E-03	85	3.750	5.047E-06	7.557E-05	4.031E-05
37	0.890	1.518E-03	1.721E-03	1.619E-03	86	3.830	1.411E-06	6.906E-05	3.524E-05
38	0.930	1.422E-03	1.623E-03	1.522E-03	87	3.915	-2.314E-05	3.835E-05	7.601E-06
39	0.970	1.202E-03	1.391E-03	1.296E-03	88	4.005	-3.068E-05	2.711E-05	-1.781E-06
40	1.010	1.068E-03	1.257E-03	1.162E-03	89	4.095	1.539E-05	7.436E-05	4.488E-05
41	1.050	9.182E-04	1.094E-03	1.006E-03	90	4.185	4.150E-05	1.164E-04	7.897E-05
42	1.090	8.324E-04	9.994E-04	9.159E-04	91	4.275	4.210E-05	1.261E-04	8.409E-05
43	1.130	7.114E-04	8.662E-04	7.888E-04	92	4.365	1.008E-05	8.382E-05	4.695E-05
44	1.170	6.652E-04	8.114E-04	7.383E-04	93	4.455	-3.174E-05	2.903E-05	-1.351E-06
45	1.210	5.687E-04	7.069E-04	6.378E-04	94	4.550	-7.356E-05	6.968E-06	-3.330E-05
46	1.250	5.710E-04	7.559E-04	6.635E-04	95	4.650	-7.632E-05	2.019E-05	-2.806E-05
47	1.295	6.405E-04	7.733E-04	7.069E-04	96	4.750	-3.961E-05	3.555E-05	-2.028E-06
48	1.345	5.831E-04	7.285E-04	6.558E-04	97	4.850	9.866E-06	5.089E-05	3.038E-05
49	1.395	8.255E-04	9.838E-04	9.046E-04	98	4.950	2.956E-05	6.966E-05	4.961E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 315 SEC

COUNTING TIME : 80 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.953E-04	7.792E-04	2.919E-04	50	1.445	3.916E-04	4.896E-04	4.406E-04
2	0.111	6.561E-04	1.173E-03	9.148E-04	51	1.495	4.051E-04	5.007E-04	4.529E-04
3	0.117	1.053E-03	2.895E-03	1.974E-03	52	1.545	2.969E-04	3.828E-04	3.398E-04
4	0.125	-1.809E-04	5.877E-04	2.034E-04	53	1.595	1.664E-04	2.519E-04	2.091E-04
5	0.135	-8.903E-04	4.950E-04	-1.976E-04	54	1.645	1.775E-04	2.607E-04	2.191E-04
6	0.145	1.206E-03	3.208E-03	2.207E-03	55	1.695	2.252E-04	3.094E-04	2.673E-04
7	0.155	-2.024E-04	7.438E-04	2.707E-04	56	1.745	1.717E-04	2.533E-04	2.125E-04
8	0.165	6.377E-04	1.296E-03	9.667E-04	57	1.800	1.261E-04	2.053E-04	1.657E-04
9	0.175	1.174E-03	2.175E-03	1.675E-03	58	1.860	8.804E-05	1.683E-04	1.282E-04
10	0.185	1.140E-03	1.588E-03	1.364E-03	59	1.920	5.035E-05	1.276E-04	8.897E-05
11	0.200	1.584E-03	1.869E-03	1.727E-03	60	1.980	1.245E-04	2.002E-04	1.623E-04
12	0.220	1.174E-03	1.458E-03	1.316E-03	61	2.040	7.625E-05	1.555E-04	1.159E-04
13	0.240	9.655E-04	1.199E-03	1.082E-03	62	2.100	1.782E-04	2.668E-04	2.225E-04
14	0.260	9.034E-04	1.103E-03	1.003E-03	63	2.160	1.171E-04	1.983E-04	1.577E-04
15	0.280	1.235E-03	1.426E-03	1.330E-03	64	2.220	1.142E-04	1.895E-04	1.519E-04
16	0.300	1.195E-03	1.375E-03	1.285E-03	65	2.280	1.046E-04	1.768E-04	1.407E-04
17	0.320	1.021E-03	1.193E-03	1.107E-03	66	2.340	4.461E-06	7.480E-05	3.963E-05
18	0.340	7.985E-04	9.639E-04	8.812E-04	67	2.405	2.033E-05	9.623E-05	5.828E-05
19	0.360	7.218E-04	8.891E-04	8.055E-04	68	2.475	1.760E-06	7.109E-05	3.642E-05
20	0.380	6.970E-04	8.635E-04	7.802E-04	69	2.545	1.076E-04	1.859E-04	1.468E-04
21	0.400	9.013E-04	1.080E-03	9.905E-04	70	2.615	2.306E-04	3.204E-04	2.755E-04
22	0.420	1.161E-03	1.338E-03	1.249E-03	71	2.685	5.142E-05	1.286E-04	8.999E-05
23	0.445	1.181E-03	1.351E-03	1.266E-03	72	2.755	-6.411E-05	9.696E-06	-2.721E-05
24	0.475	8.841E-04	1.042E-03	9.631E-04	73	2.825	-2.030E-05	4.738E-05	1.354E-05
25	0.505	7.486E-04	8.999E-04	8.243E-04	74	2.895	-4.813E-06	6.702E-05	3.110E-05
26	0.535	5.479E-04	6.911E-04	6.195E-04	75	2.965	-4.224E-05	2.481E-05	-8.714E-06
27	0.565	1.009E-03	1.163E-03	1.086E-03	76	3.035	-5.623E-05	7.066E-06	-2.458E-05
28	0.595	1.016E-03	1.166E-03	1.091E-03	77	3.110	-1.199E-05	5.176E-05	1.989E-05
29	0.625	5.910E-04	7.275E-04	6.592E-04	78	3.190	-2.697E-05	3.383E-05	3.428E-06
30	0.655	4.477E-04	5.787E-04	5.132E-04	79	3.270	-4.761E-05	1.425E-05	-1.668E-05
31	0.685	5.673E-04	7.032E-04	6.353E-04	80	3.350	4.415E-05	1.044E-04	7.427E-05
32	0.715	1.001E-03	1.145E-03	1.073E-03	81	3.430	7.234E-05	1.295E-04	1.009E-04
33	0.745	7.922E-04	9.288E-04	8.605E-04	82	3.510	2.693E-05	7.949E-05	5.321E-05
34	0.775	4.599E-04	5.879E-04	5.239E-04	83	3.590	2.212E-05	7.473E-05	4.842E-05
35	0.810	8.726E-04	1.020E-03	9.461E-04	84	3.670	8.375E-06	5.429E-05	3.133E-05
36	0.850	1.246E-03	1.400E-03	1.323E-03	85	3.750	-1.686E-05	2.459E-05	3.863E-06
37	0.890	1.278E-03	1.430E-03	1.354E-03	86	3.830	-9.944E-06	3.113E-05	1.059E-05
38	0.930	1.079E-03	1.224E-03	1.152E-03	87	3.915	-3.716E-06	4.005E-05	1.816E-05
39	0.970	9.383E-04	1.075E-03	1.007E-03	88	4.005	6.741E-06	4.894E-05	2.784E-05
40	1.010	7.895E-04	9.236E-04	8.566E-04	89	4.095	2.036E-05	6.170E-05	4.103E-05
41	1.050	7.496E-04	8.753E-04	8.124E-04	90	4.185	1.790E-05	5.553E-05	3.672E-05
42	1.090	4.800E-04	5.921E-04	5.360E-04	91	4.275	-7.702E-06	3.645E-05	1.437E-05
43	1.130	5.072E-04	6.145E-04	5.609E-04	92	4.365	-3.263E-05	1.239E-05	-1.012E-05
44	1.170	4.310E-04	5.302E-04	4.806E-04	93	4.455	-3.624E-05	2.784E-06	-1.673E-05
45	1.210	3.746E-04	4.684E-04	4.215E-04	94	4.550	-2.473E-05	5.636E-06	-9.548E-06
46	1.250	4.040E-04	5.349E-04	4.695E-04	95	4.650	-2.660E-06	2.455E-05	1.095E-05
47	1.295	4.457E-04	5.364E-04	4.910E-04	96	4.750	1.365E-05	4.506E-05	2.935E-05
48	1.345	4.302E-04	5.277E-04	4.789E-04	97	4.850	1.833E-05	3.870E-05	2.851E-05
49	1.395	3.432E-04	4.386E-04	3.909E-04	98	4.950	1.452E-05	2.521E-05	1.987E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 495 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.460E-04	8.041E-04	4.751E-04	50	1.445	2.620E-04	3.320E-04	2.970E-04
2	0.111	2.385E-04	6.116E-04	4.250E-04	51	1.495	1.801E-04	2.436E-04	2.119E-04
3	0.117	-2.273E-04	1.027E-03	3.999E-04	52	1.545	6.346E-05	1.163E-04	8.988E-05
4	0.125	1.399E-04	6.680E-04	4.040E-04	53	1.595	5.886E-05	1.182E-04	8.851E-05
5	0.135	-5.528E-05	9.689E-04	4.568E-04	54	1.645	7.788E-05	1.394E-04	1.086E-04
6	0.145	1.720E-05	1.487E-03	7.522E-04	55	1.695	1.796E-04	2.452E-04	2.124E-04
7	0.155	3.956E-04	1.088E-03	7.417E-04	56	1.745	1.164E-04	1.783E-04	1.473E-04
8	0.165	6.471E-04	1.140E-03	8.936E-04	57	1.800	6.481E-05	1.225E-04	9.367E-05
9	0.175	8.162E-04	1.565E-03	1.190E-03	58	1.860	6.825E-05	1.294E-04	9.883E-05
10	0.185	8.836E-04	1.221E-03	1.052E-03	59	1.920	5.241E-05	1.217E-04	8.707E-05
11	0.200	1.087E-03	1.297E-03	1.192E-03	60	1.980	7.246E-05	1.301E-04	1.013E-04
12	0.220	7.344E-04	9.430E-04	8.387E-04	61	2.040	7.930E-05	1.426E-04	1.109E-04
13	0.240	5.689E-04	7.403E-04	6.546E-04	62	2.100	1.344E-04	2.009E-04	1.677E-04
14	0.260	5.626E-04	7.105E-04	6.366E-04	63	2.160	1.079E-04	1.760E-04	1.419E-04
15	0.280	9.178E-04	1.063E-03	9.906E-04	64	2.220	7.114E-05	1.318E-04	1.015E-04
16	0.300	9.437E-04	1.082E-03	1.013E-03	65	2.280	4.060E-05	1.144E-04	7.748E-05
17	0.320	8.232E-04	9.553E-04	8.892E-04	66	2.340	3.727E-05	9.482E-05	6.604E-05
18	0.340	5.985E-04	7.238E-04	6.611E-04	67	2.405	-6.869E-05	6.583E-05	-1.427E-06
19	0.360	4.724E-04	5.957E-04	5.340E-04	68	2.475	6.525E-06	6.713E-05	3.683E-05
20	0.380	3.902E-04	5.117E-04	4.510E-04	69	2.545	8.977E-05	1.469E-04	1.183E-04
21	0.400	5.872E-04	7.196E-04	6.534E-04	70	2.615	8.312E-05	1.442E-04	1.136E-04
22	0.420	7.624E-04	8.942E-04	8.283E-04	71	2.685	-3.454E-07	6.589E-05	3.277E-05
23	0.445	8.532E-04	9.807E-04	9.170E-04	72	2.755	-7.397E-05	3.055E-05	-2.171E-05
24	0.475	6.038E-04	7.210E-04	6.624E-04	73	2.825	-2.890E-05	2.715E-05	-8.765E-07
25	0.505	4.162E-04	5.257E-04	4.709E-04	74	2.895	6.460E-06	5.005E-05	2.826E-05
26	0.535	3.387E-04	4.443E-04	3.915E-04	75	2.965	2.250E-06	4.286E-05	2.256E-05
27	0.565	6.829E-04	7.984E-04	7.406E-04	76	3.035	-1.190E-05	2.956E-05	8.830E-06
28	0.595	7.623E-04	8.762E-04	8.193E-04	77	3.110	-2.425E-05	1.384E-05	-5.203E-06
29	0.625	4.769E-04	5.827E-04	5.298E-04	78	3.190	-1.551E-05	2.164E-05	3.063E-06
30	0.655	3.961E-04	4.969E-04	4.465E-04	79	3.270	-1.166E-05	2.528E-05	6.811E-06
31	0.685	3.891E-04	4.901E-04	4.396E-04	80	3.350	-5.124E-06	2.942E-05	1.215E-05
32	0.715	5.560E-04	6.596E-04	6.078E-04	81	3.430	1.143E-06	3.418E-05	1.766E-05
33	0.745	5.393E-04	6.422E-04	5.908E-04	82	3.510	8.604E-06	4.088E-05	2.474E-05
34	0.775	4.346E-04	5.331E-04	4.839E-04	83	3.590	1.952E-05	5.160E-05	3.556E-05
35	0.810	4.922E-04	5.989E-04	5.455E-04	84	3.670	1.627E-05	4.479E-05	3.053E-05
36	0.850	8.580E-04	9.737E-04	9.159E-04	85	3.750	3.886E-06	2.917E-05	1.653E-05
37	0.890	9.853E-04	1.103E-03	1.044E-03	86	3.830	-8.557E-06	1.517E-05	3.309E-06
38	0.930	8.675E-04	9.789E-04	9.232E-04	87	3.915	-1.121E-05	1.090E-05	-1.545E-07
39	0.970	6.477E-04	7.489E-04	6.983E-04	88	4.005	-5.921E-06	1.448E-05	4.280E-06
40	1.010	5.998E-04	7.035E-04	6.516E-04	89	4.095	-9.129E-08	1.787E-05	8.888E-06
41	1.050	5.836E-04	6.802E-04	6.319E-04	90	4.185	5.104E-06	2.400E-05	1.455E-05
42	1.090	5.257E-04	6.145E-04	5.701E-04	91	4.275	1.066E-05	2.931E-05	1.998E-05
43	1.130	3.171E-04	3.921E-04	3.546E-04	92	4.365	9.572E-06	2.695E-05	1.826E-05
44	1.170	2.238E-04	2.932E-04	2.585E-04	93	4.455	-1.638E-07	1.466E-05	7.249E-06
45	1.210	2.647E-04	3.361E-04	3.004E-04	94	4.550	-9.587E-06	3.753E-06	-2.917E-06
46	1.250	3.362E-04	4.341E-04	3.851E-04	95	4.650	-1.060E-05	1.416E-06	-4.593E-06
47	1.295	3.639E-04	4.326E-04	3.983E-04	96	4.750	-5.341E-06	3.844E-06	-7.486E-07
48	1.345	2.128E-04	2.799E-04	2.464E-04	97	4.850	8.348E-07	7.506E-06	4.170E-06
49	1.395	1.823E-04	2.512E-04	2.167E-04	98	4.950	3.555E-06	9.420E-06	6.487E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 795 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.327E-05	4.376E-04	2.255E-04	50	1.445	1.854E-04	2.256E-04	2.055E-04
2	0.111	1.837E-04	4.131E-04	2.984E-04	51	1.495	1.200E-04	1.553E-04	1.376E-04
3	0.117	-8.771E-05	7.268E-04	3.196E-04	52	1.545	9.675E-05	1.298E-04	1.133E-04
4	0.125	1.181E-04	4.558E-04	2.870E-04	53	1.595	5.078E-05	8.220E-05	6.649E-05
5	0.135	1.690E-05	6.721E-04	3.445E-04	54	1.645	1.983E-05	4.914E-05	3.448E-05
6	0.145	3.782E-05	9.783E-04	5.080E-04	55	1.695	3.255E-05	6.405E-05	4.830E-05
7	0.155	2.664E-04	7.142E-04	4.903E-04	56	1.745	7.456E-05	1.084E-04	9.149E-05
8	0.165	4.813E-04	7.694E-04	6.253E-04	57	1.800	3.750E-05	6.685E-05	5.218E-05
9	0.175	6.267E-04	1.071E-03	8.487E-04	58	1.860	2.463E-05	5.784E-05	4.124E-05
10	0.185	7.106E-04	9.085E-04	8.095E-04	59	1.920	4.359E-05	7.680E-05	6.020E-05
11	0.200	7.811E-04	9.017E-04	8.414E-04	60	1.980	5.403E-05	8.849E-05	7.126E-05
12	0.220	5.435E-04	6.617E-04	6.026E-04	61	2.040	4.833E-05	8.022E-05	6.427E-05
13	0.240	3.912E-04	4.871E-04	4.392E-04	62	2.100	6.086E-05	9.543E-05	7.814E-05
14	0.260	3.554E-04	4.378E-04	3.966E-04	63	2.160	5.396E-05	8.616E-05	7.006E-05
15	0.280	5.588E-04	6.395E-04	5.992E-04	64	2.220	6.094E-05	9.249E-05	7.671E-05
16	0.300	6.606E-04	7.398E-04	7.002E-04	65	2.280	3.275E-05	6.193E-05	4.734E-05
17	0.320	6.374E-04	7.145E-04	6.760E-04	66	2.340	1.615E-05	5.100E-05	3.358E-05
18	0.340	4.623E-04	5.345E-04	4.984E-04	67	2.405	5.433E-06	3.545E-05	2.044E-05
19	0.360	3.330E-04	4.027E-04	3.679E-04	68	2.475	3.362E-05	6.932E-05	5.147E-05
20	0.380	2.611E-04	3.290E-04	2.951E-04	69	2.545	8.169E-05	1.125E-04	9.707E-05
21	0.400	3.784E-04	4.521E-04	4.152E-04	70	2.615	7.090E-05	1.032E-04	8.707E-05
22	0.420	4.977E-04	5.714E-04	5.345E-04	71	2.685	1.085E-05	4.564E-05	2.824E-05
23	0.445	5.348E-04	6.061E-04	5.704E-04	72	2.755	-1.985E-05	1.470E-05	-2.575E-06
24	0.475	4.362E-04	5.030E-04	4.696E-04	73	2.825	-1.156E-05	7.038E-06	-2.262E-06
25	0.505	3.011E-04	3.636E-04	3.323E-04	74	2.895	-5.042E-06	1.357E-05	4.264E-06
26	0.535	2.758E-04	3.366E-04	3.062E-04	75	2.965	-5.838E-06	1.246E-05	3.309E-06
27	0.565	4.786E-04	5.436E-04	5.111E-04	76	3.035	-6.302E-06	1.156E-05	2.629E-06
28	0.595	3.806E-04	4.415E-04	4.110E-04	77	3.110	-3.235E-06	1.524E-05	6.000E-06
29	0.625	2.487E-04	3.064E-04	2.776E-04	78	3.190	-1.665E-06	1.642E-05	7.378E-06
30	0.655	2.448E-04	3.005E-04	2.727E-04	79	3.270	-3.630E-06	1.495E-05	5.660E-06
31	0.685	1.930E-04	2.471E-04	2.201E-04	80	3.350	2.412E-06	1.811E-05	1.026E-05
32	0.715	2.147E-04	2.685E-04	2.416E-04	81	3.430	1.782E-06	1.617E-05	8.974E-06
33	0.745	2.802E-04	3.365E-04	3.083E-04	82	3.510	-9.443E-07	1.299E-05	6.024E-06
34	0.775	2.424E-04	2.968E-04	2.696E-04	83	3.590	3.933E-06	1.676E-05	1.035E-05
35	0.810	2.781E-04	3.373E-04	3.077E-04	84	3.670	7.656E-06	2.126E-05	1.446E-05
36	0.850	5.449E-04	6.103E-04	5.776E-04	85	3.750	6.378E-06	1.733E-05	1.185E-05
37	0.890	6.353E-04	7.022E-04	6.687E-04	86	3.830	4.928E-07	1.045E-05	5.473E-06
38	0.930	6.102E-04	6.747E-04	6.424E-04	87	3.915	-4.224E-06	5.662E-06	7.190E-07
39	0.970	4.890E-04	5.493E-04	5.192E-04	88	4.005	-2.595E-06	6.769E-06	2.087E-06
40	1.010	3.968E-04	4.544E-04	4.256E-04	89	4.095	-4.138E-07	8.476E-06	4.031E-06
41	1.050	4.191E-04	4.748E-04	4.469E-04	90	4.185	-2.237E-06	5.415E-06	1.589E-06
42	1.090	3.068E-04	3.549E-04	3.309E-04	91	4.275	-3.366E-06	4.306E-06	4.704E-07
43	1.130	2.210E-04	2.646E-04	2.428E-04	92	4.365	-2.403E-06	5.731E-06	1.664E-06
44	1.170	1.624E-04	2.025E-04	1.824E-04	93	4.455	-2.310E-06	5.084E-06	1.387E-06
45	1.210	2.371E-04	2.789E-04	2.580E-04	94	4.550	-2.110E-06	3.270E-06	5.799E-07
46	1.250	2.762E-04	3.327E-04	3.044E-04	95	4.650	-6.034E-07	3.936E-06	1.666E-06
47	1.295	2.422E-04	2.805E-04	2.614E-04	96	4.750	9.671E-07	5.138E-06	3.053E-06
48	1.345	1.652E-04	2.033E-04	1.842E-04	97	4.850	1.503E-06	4.487E-06	2.995E-06
49	1.395	1.417E-04	1.794E-04	1.605E-04	98	4.950	1.052E-06	2.969E-06	2.011E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1395 SEC

COUNTING TIME : 400 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	6.497E-05	3.101E-04	1.875E-04	50 1.445	1.351E-04	1.573E-04	1.462E-04
2 0.111	1.206E-04	2.496E-04	1.851E-04	51 1.495	8.120E-05	1.006E-04	9.092E-05
3 0.117	-8.258E-05	3.880E-04	1.527E-04	52 1.545	5.168E-05	6.915E-05	6.041E-05
4 0.125	3.932E-05	2.313E-04	1.353E-04	53 1.595	3.787E-05	5.541E-05	4.664E-05
5 0.135	1.211E-05	3.906E-04	2.014E-04	54 1.645	-1.471E-06	1.337E-05	5.950E-06
6 0.145	3.946E-05	5.798E-04	3.096E-04	55 1.695	2.097E-05	3.771E-05	2.934E-05
7 0.155	2.101E-04	4.709E-04	3.405E-04	56 1.745	1.943E-05	3.616E-05	2.780E-05
8 0.165	3.227E-04	4.751E-04	3.989E-04	57 1.800	3.479E-05	5.267E-05	4.373E-05
9 0.175	3.550E-04	5.914E-04	4.732E-04	58 1.860	5.163E-05	7.049E-05	6.106E-05
10 0.185	4.164E-04	5.211E-04	4.687E-04	59 1.920	4.838E-05	7.038E-05	5.938E-05
11 0.200	4.577E-04	5.206E-04	4.891E-04	60 1.980	3.905E-05	5.619E-05	4.762E-05
12 0.220	2.706E-04	3.310E-04	3.008E-04	61 2.040	2.495E-05	4.332E-05	3.414E-05
13 0.240	1.515E-04	2.009E-04	1.762E-04	62 2.100	3.155E-05	5.069E-05	4.112E-05
14 0.260	1.831E-04	2.271E-04	2.051E-04	63 2.160	2.216E-05	4.511E-05	3.363E-05
15 0.280	3.890E-04	4.343E-04	4.117E-04	64 2.220	2.340E-05	4.036E-05	3.188E-05
16 0.300	5.090E-04	5.543E-04	5.316E-04	65 2.280	4.783E-06	2.097E-05	1.288E-05
17 0.320	4.505E-04	4.935E-04	4.720E-04	66 2.340	-7.969E-06	1.228E-05	2.154E-06
18 0.340	2.770E-04	3.160E-04	2.965E-04	67 2.405	-1.915E-05	2.064E-05	7.448E-07
19 0.360	1.803E-04	2.172E-04	1.987E-04	68 2.475	3.021E-06	2.419E-05	1.360E-05
20 0.380	1.598E-04	1.960E-04	1.779E-04	69 2.545	4.853E-05	6.554E-05	5.704E-05
21 0.400	2.091E-04	2.479E-04	2.285E-04	70 2.615	5.856E-05	7.541E-05	6.699E-05
22 0.420	2.686E-04	3.074E-04	2.880E-04	71 2.685	1.403E-05	2.910E-05	2.157E-05
23 0.445	3.065E-04	3.447E-04	3.256E-04	72 2.755	-1.259E-05	4.548E-06	-4.021E-06
24 0.475	2.637E-04	2.994E-04	2.816E-04	73 2.825	-2.758E-06	8.060E-06	2.651E-06
25 0.505	1.666E-04	1.998E-04	1.832E-04	74 2.895	2.483E-06	1.294E-05	7.710E-06
26 0.535	1.869E-04	2.199E-04	2.034E-04	75 2.965	-8.418E-07	8.944E-06	4.051E-06
27 0.565	2.916E-04	3.261E-04	3.089E-04	76 3.035	-2.261E-06	5.970E-06	1.855E-06
28 0.595	1.371E-04	1.673E-04	1.522E-04	77 3.110	-6.423E-06	2.260E-06	-2.082E-06
29 0.625	1.080E-04	1.377E-04	1.228E-04	78 3.190	-3.119E-06	4.495E-06	6.883E-07
30 0.655	1.808E-04	2.120E-04	1.964E-04	79 3.270	1.134E-06	9.450E-06	5.292E-06
31 0.685	1.377E-04	1.677E-04	1.527E-04	80 3.350	-2.451E-06	4.425E-06	9.869E-07
32 0.715	1.566E-04	1.865E-04	1.716E-04	81 3.430	-3.759E-06	3.206E-06	-2.763E-07
33 0.745	1.818E-04	2.125E-04	1.972E-04	82 3.510	-2.203E-06	4.183E-06	9.899E-07
34 0.775	1.664E-04	1.957E-04	1.810E-04	83 3.590	-7.715E-07	5.596E-06	2.412E-06
35 0.810	1.431E-04	1.736E-04	1.584E-04	84 3.670	1.847E-06	8.408E-06	5.128E-06
36 0.850	2.517E-04	2.849E-04	2.683E-04	85 3.750	2.046E-06	7.743E-06	4.894E-06
37 0.890	3.443E-04	3.798E-04	3.621E-04	86 3.830	-7.197E-07	5.433E-06	2.357E-06
38 0.930	3.711E-04	4.065E-04	3.888E-04	87 3.915	-7.216E-07	4.872E-06	2.075E-06
39 0.970	3.181E-04	3.509E-04	3.345E-04	88 4.005	8.789E-07	6.674E-06	3.777E-06
40 1.010	2.409E-04	2.726E-04	2.568E-04	89 4.095	1.137E-06	6.511E-06	3.824E-06
41 1.050	2.829E-04	3.136E-04	2.982E-04	90 4.185	-1.381E-06	4.816E-06	1.717E-06
42 1.090	1.696E-04	1.951E-04	1.823E-04	91 4.275	-3.401E-06	2.749E-06	-3.260E-07
43 1.130	1.150E-04	1.371E-04	1.261E-04	92 4.365	-4.365E-06	1.399E-06	-1.483E-06
44 1.170	8.844E-05	1.099E-04	9.916E-05	93 4.455	-5.201E-06	1.579E-07	-2.522E-06
45 1.210	9.047E-05	1.112E-04	1.008E-04	94 4.550	-4.970E-06	1.275E-07	-2.421E-06
46 1.250	1.500E-04	1.798E-04	1.649E-04	95 4.650	-3.539E-06	2.118E-06	-7.109E-07
47 1.295	1.360E-04	1.562E-04	1.461E-04	96 4.750	-1.341E-06	2.933E-06	7.960E-07
48 1.345	6.163E-05	8.100E-05	7.132E-05	97 4.850	5.179E-07	3.423E-06	1.971E-06
49 1.395	8.538E-05	1.072E-04	9.629E-05	98 4.950	1.499E-06	3.695E-06	2.597E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2195 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.413E-06	1.641E-04	8.276E-05	50	1.445	9.113E-05	1.082E-04	9.966E-05
2	0.111	2.289E-04	3.166E-04	2.728E-04	51	1.495	6.994E-05	8.516E-05	7.755E-05
3	0.117	8.435E-05	3.954E-04	2.399E-04	52	1.545	4.414E-05	5.741E-05	5.077E-05
4	0.125	-4.766E-05	8.083E-05	1.658E-05	53	1.595	2.064E-05	3.304E-05	2.684E-05
5	0.135	-3.281E-05	2.148E-04	9.102E-05	54	1.645	7.802E-06	2.002E-05	1.391E-05
6	0.145	9.793E-05	4.511E-04	2.745E-04	55	1.695	2.061E-05	3.351E-05	2.706E-05
7	0.155	1.171E-04	2.882E-04	2.026E-04	56	1.745	2.150E-05	3.409E-05	2.780E-05
8	0.165	1.852E-04	2.897E-04	2.375E-04	57	1.800	1.507E-05	2.775E-05	2.141E-05
9	0.175	2.470E-04	4.074E-04	3.272E-04	58	1.860	3.494E-05	4.864E-05	4.179E-05
10	0.185	2.335E-04	3.051E-04	2.693E-04	59	1.920	2.028E-05	3.939E-05	2.984E-05
11	0.200	2.644E-04	3.075E-04	2.859E-04	60	1.980	2.004E-05	3.422E-05	2.713E-05
12	0.220	1.392E-04	1.806E-04	1.599E-04	61	2.040	4.357E-06	1.840E-05	1.138E-05
13	0.240	6.208E-05	9.603E-05	7.905E-05	62	2.100	4.516E-07	1.517E-05	7.812E-06
14	0.260	8.888E-05	1.196E-04	1.042E-04	63	2.160	1.914E-05	3.870E-05	2.892E-05
15	0.280	2.411E-04	2.734E-04	2.573E-04	64	2.220	1.395E-05	2.900E-05	2.148E-05
16	0.300	3.315E-04	3.642E-04	3.478E-04	65	2.280	7.776E-06	2.447E-05	1.613E-05
17	0.320	2.902E-04	3.211E-04	3.056E-04	66	2.340	7.087E-06	2.112E-05	1.410E-05
18	0.340	1.609E-04	1.882E-04	1.745E-04	67	2.405	-3.184E-05	1.366E-05	-9.088E-06
19	0.360	8.187E-05	1.073E-04	9.457E-05	68	2.475	-1.044E-06	2.650E-05	1.273E-05
20	0.380	8.043E-05	1.057E-04	9.308E-05	69	2.545	3.718E-05	5.108E-05	4.413E-05
21	0.400	1.219E-04	1.496E-04	1.358E-04	70	2.615	3.940E-05	5.288E-05	4.614E-05
22	0.420	1.587E-04	1.865E-04	1.726E-04	71	2.685	2.446E-06	1.517E-05	8.808E-06
23	0.445	2.070E-04	2.349E-04	2.210E-04	72	2.755	-1.000E-05	4.156E-06	-2.924E-06
24	0.475	1.656E-04	1.912E-04	1.784E-04	73	2.825	-1.491E-06	7.385E-06	2.947E-06
25	0.505	9.642E-05	1.202E-04	1.083E-04	74	2.895	-2.551E-06	6.053E-06	1.751E-06
26	0.535	1.264E-04	1.503E-04	1.384E-04	75	2.965	-3.422E-06	5.031E-06	8.047E-07
27	0.565	1.585E-04	1.827E-04	1.706E-04	76	3.035	-2.620E-06	5.771E-06	1.576E-06
28	0.595	7.582E-05	9.727E-05	8.654E-05	77	3.110	-2.987E-06	5.083E-06	1.048E-06
29	0.625	7.604E-05	9.792E-05	8.698E-05	78	3.190	-4.743E-06	3.159E-06	-7.921E-07
30	0.655	1.246E-04	1.471E-04	1.359E-04	79	3.270	-5.184E-06	2.477E-06	-1.353E-06
31	0.685	6.421E-05	8.501E-05	7.461E-05	80	3.350	-3.146E-06	4.467E-06	6.605E-07
32	0.715	5.794E-05	7.847E-05	6.820E-05	81	3.430	-2.575E-06	5.868E-06	1.646E-06
33	0.745	1.357E-04	1.586E-04	1.472E-04	82	3.510	-1.523E-06	7.058E-06	2.767E-06
34	0.775	1.278E-04	1.495E-04	1.387E-04	83	3.590	2.267E-06	8.538E-06	5.403E-06
35	0.810	8.421E-05	1.060E-04	9.510E-05	84	3.670	2.303E-06	8.433E-06	5.368E-06
36	0.850	1.619E-04	1.862E-04	1.740E-04	85	3.750	-8.154E-07	5.653E-06	2.419E-06
37	0.890	2.613E-04	2.878E-04	2.745E-04	86	3.830	-2.968E-06	4.260E-06	6.457E-07
38	0.930	2.478E-04	2.734E-04	2.606E-04	87	3.915	-3.073E-06	3.813E-06	3.699E-07
39	0.970	1.795E-04	2.027E-04	1.911E-04	88	4.005	-3.101E-06	4.169E-06	5.344E-07
40	1.010	1.734E-04	1.967E-04	1.850E-04	89	4.095	-2.392E-06	5.016E-06	1.312E-06
41	1.050	1.712E-04	1.933E-04	1.822E-04	90	4.185	-2.042E-06	5.970E-06	1.964E-06
42	1.090	1.137E-04	1.322E-04	1.230E-04	91	4.275	-3.105E-06	6.009E-06	1.452E-06
43	1.130	6.859E-05	8.497E-05	7.678E-05	92	4.365	-4.624E-06	3.966E-06	-3.291E-07
44	1.170	5.385E-05	6.926E-05	6.155E-05	93	4.455	-6.256E-06	1.314E-06	-2.471E-06
45	1.210	6.394E-05	7.931E-05	7.162E-05	94	4.550	-7.558E-06	7.197E-07	-3.419E-06
46	1.250	6.320E-05	8.304E-05	7.312E-05	95	4.650	-6.379E-06	2.039E-06	-2.170E-06
47	1.295	7.094E-05	8.551E-05	7.822E-05	96	4.750	-3.279E-06	3.759E-06	2.400E-07
48	1.345	3.255E-05	4.604E-05	3.930E-05	97	4.850	3.207E-07	4.783E-06	2.552E-06
49	1.395	4.228E-05	5.846E-05	5.037E-05	98	4.950	1.643E-06	5.378E-06	3.510E-06



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3195 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.674E-05	3.845E-04	2.256E-04	50	1.445	7.676E-05	9.087E-05	8.382E-05
2	0.111	2.376E-05	4.071E-04	2.154E-04	51	1.495	6.842E-05	8.089E-05	7.466E-05
3	0.117	-8.798E-05	3.749E-04	1.435E-04	52	1.545	2.865E-05	3.930E-05	3.398E-05
4	0.125	-5.400E-05	1.856E-04	6.582E-05	53	1.595	2.706E-05	3.838E-05	3.272E-05
5	0.135	-1.755E-06	1.788E-04	8.853E-05	54	1.645	1.006E-05	2.026E-05	1.516E-05
6	0.145	2.868E-05	3.146E-04	1.716E-04	55	1.695	-1.625E-05	-6.950E-07	-8.474E-06
7	0.155	1.082E-04	2.426E-04	1.754E-04	56	1.745	-6.155E-06	3.650E-06	-1.252E-06
8	0.165	1.569E-04	2.281E-04	1.925E-04	57	1.800	4.400E-06	1.598E-05	1.019E-05
9	0.175	1.680E-04	2.761E-04	2.221E-04	58	1.860	9.230E-06	2.576E-05	1.750E-05
10	0.185	1.596E-04	2.077E-04	1.836E-04	59	1.920	9.003E-06	2.755E-05	1.828E-05
11	0.200	1.625E-04	1.913E-04	1.769E-04	60	1.980	7.823E-06	2.189E-05	1.486E-05
12	0.220	2.375E-05	5.001E-05	3.688E-05	61	2.040	1.805E-05	3.573E-05	2.689E-05
13	0.240	-1.880E-05	3.973E-06	-7.414E-06	62	2.100	9.742E-06	2.727E-05	1.850E-05
14	0.260	4.362E-05	6.563E-05	5.463E-05	63	2.160	-4.705E-06	1.217E-05	3.731E-06
15	0.280	1.225E-04	1.454E-04	1.339E-04	64	2.220	1.075E-05	2.923E-05	1.999E-05
16	0.300	1.858E-04	2.093E-04	1.976E-04	65	2.280	3.185E-07	2.218E-05	1.125E-05
17	0.320	1.944E-04	2.176E-04	2.060E-04	66	2.340	-3.111E-05	1.735E-05	-6.881E-06
18	0.340	1.063E-04	1.269E-04	1.166E-04	67	2.405	-2.151E-05	3.186E-05	5.175E-06
19	0.360	5.734E-05	7.652E-05	6.693E-05	68	2.475	2.525E-06	2.876E-05	1.564E-05
20	0.380	6.250E-05	8.185E-05	7.217E-05	69	2.545	2.793E-05	3.954E-05	3.373E-05
21	0.400	9.785E-05	1.192E-04	1.085E-04	70	2.615	2.903E-05	4.131E-05	3.517E-05
22	0.420	1.157E-04	1.368E-04	1.262E-04	71	2.685	-8.362E-07	1.768E-05	8.422E-06
23	0.445	1.362E-04	1.570E-04	1.466E-04	72	2.755	-2.764E-06	1.002E-05	3.626E-06
24	0.475	9.884E-05	1.177E-04	1.082E-04	73	2.825	-2.580E-06	8.669E-06	3.044E-06
25	0.505	4.724E-05	6.465E-05	5.594E-05	74	2.895	-1.908E-06	7.459E-06	2.776E-06
26	0.535	9.890E-05	1.172E-04	1.080E-04	75	2.965	-1.214E-06	8.477E-06	3.632E-06
27	0.565	1.059E-04	1.236E-04	1.147E-04	76	3.035	-4.595E-06	4.004E-06	-2.952E-07
28	0.595	3.602E-06	1.797E-05	1.078E-05	77	3.110	-9.141E-06	-9.418E-09	-4.575E-06
29	0.625	1.626E-05	3.137E-05	2.382E-05	78	3.190	-8.609E-06	1.220E-06	-3.694E-06
30	0.655	9.801E-05	1.155E-04	1.068E-04	79	3.270	-6.754E-06	3.688E-06	-1.533E-06
31	0.685	3.751E-05	5.294E-05	4.522E-05	80	3.350	-6.611E-06	5.179E-06	-7.159E-07
32	0.715	3.791E-05	5.301E-05	4.546E-05	81	3.430	-4.829E-06	6.361E-06	7.660E-07
33	0.745	6.700E-05	8.368E-05	7.534E-05	82	3.510	-2.502E-06	8.046E-06	2.772E-06
34	0.775	7.946E-05	9.582E-05	8.764E-05	83	3.590	-3.633E-07	8.395E-06	4.016E-06
35	0.810	7.711E-05	9.451E-05	8.581E-05	84	3.670	-7.310E-07	8.207E-06	3.738E-06
36	0.850	1.082E-04	1.268E-04	1.175E-04	85	3.750	-2.484E-06	6.936E-06	2.226E-06
37	0.890	1.943E-04	2.151E-04	2.047E-04	86	3.830	-3.892E-06	6.012E-06	1.060E-06
38	0.930	1.746E-04	1.941E-04	1.844E-04	87	3.915	-4.201E-06	5.619E-06	7.090E-07
39	0.970	1.217E-04	1.393E-04	1.305E-04	88	4.005	-4.254E-06	6.013E-06	8.794E-07
40	1.010	1.032E-04	1.206E-04	1.119E-04	89	4.095	-3.271E-06	7.168E-06	1.949E-06
41	1.050	1.045E-04	1.206E-04	1.125E-04	90	4.185	-2.929E-06	8.284E-06	2.677E-06
42	1.090	5.280E-05	6.625E-05	5.952E-05	91	4.275	-4.041E-06	7.700E-06	1.829E-06
43	1.130	3.263E-05	4.485E-05	3.874E-05	92	4.365	-5.920E-06	5.591E-06	-1.646E-07
44	1.170	3.309E-05	4.533E-05	3.921E-05	93	4.455	-8.115E-06	2.710E-06	-2.702E-06
45	1.210	3.248E-05	4.393E-05	3.821E-05	94	4.550	-9.609E-06	1.205E-06	-4.202E-06
46	1.250	4.753E-05	6.353E-05	5.553E-05	95	4.650	-8.369E-06	2.655E-06	-2.857E-06
47	1.295	3.335E-05	4.452E-05	3.893E-05	96	4.750	-4.508E-06	4.705E-06	9.848E-08
48	1.345	8.911E-06	2.056E-05	1.474E-05	97	4.850	-5.766E-08	6.077E-06	3.010E-06
49	1.395	6.496E-05	8.008E-05	7.252E-05	98	4.950	1.970E-06	6.801E-06	4.386E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 17 SEC

COUNTING TIME : 8 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.774E-02	6.761E-02	5.768E-02	50	1.445	7.633E-03	8.785E-03	8.209E-03
2	0.111	1.019E-02	2.002E-02	1.510E-02	51	1.495	5.207E-03	6.240E-03	5.724E-03
3	0.117	-2.223E-02	1.277E-02	-4.729E-03	52	1.545	4.260E-03	5.250E-03	4.755E-03
4	0.125	3.732E-02	5.344E-02	4.538E-02	53	1.595	4.596E-03	5.636E-03	5.116E-03
5	0.135	2.529E-02	4.656E-02	3.593E-02	54	1.645	3.663E-03	4.639E-03	4.151E-03
6	0.145	-1.368E-02	1.721E-02	1.762E-03	55	1.695	3.282E-03	4.238E-03	3.760E-03
7	0.155	1.847E-02	3.343E-02	2.595E-02	56	1.745	3.258E-03	4.252E-03	3.755E-03
8	0.165	1.257E-02	1.933E-02	1.595E-02	57	1.800	3.787E-03	4.790E-03	4.289E-03
9	0.175	7.998E-03	1.876E-02	1.338E-02	58	1.860	1.824E-03	2.791E-03	2.307E-03
10	0.185	1.586E-02	2.053E-02	1.819E-02	59	1.920	1.792E-03	2.762E-03	2.277E-03
11	0.200	1.793E-02	2.073E-02	1.933E-02	60	1.980	2.753E-03	3.673E-03	3.213E-03
12	0.220	1.680E-02	1.953E-02	1.816E-02	61	2.040	2.438E-03	3.373E-03	2.905E-03
13	0.240	1.110E-02	1.331E-02	1.220E-02	62	2.100	2.129E-03	3.044E-03	2.587E-03
14	0.260	1.130E-02	1.318E-02	1.224E-02	63	2.160	1.979E-03	2.891E-03	2.435E-03
15	0.280	1.174E-02	1.347E-02	1.261E-02	64	2.220	9.383E-04	1.766E-03	1.352E-03
16	0.300	8.516E-03	1.010E-02	9.308E-03	65	2.280	6.733E-04	1.552E-03	1.113E-03
17	0.320	6.843E-03	8.393E-03	7.618E-03	66	2.340	5.869E-04	1.529E-03	1.058E-03
18	0.340	9.205E-03	1.084E-02	1.002E-02	67	2.405	5.047E-04	1.507E-03	1.006E-03
19	0.360	1.326E-02	1.504E-02	1.415E-02	68	2.475	1.283E-03	2.268E-03	1.776E-03
20	0.380	1.789E-02	1.973E-02	1.881E-02	69	2.545	1.812E-03	2.824E-03	2.318E-03
21	0.400	1.760E-02	1.944E-02	1.852E-02	70	2.615	1.666E-03	2.667E-03	2.166E-03
22	0.420	1.343E-02	1.509E-02	1.426E-02	71	2.685	8.030E-04	1.840E-03	1.322E-03
23	0.445	1.066E-02	1.223E-02	1.144E-02	72	2.755	1.329E-03	2.400E-03	1.865E-03
24	0.475	9.678E-03	1.122E-02	1.045E-02	73	2.825	1.604E-03	2.663E-03	2.134E-03
25	0.505	1.468E-02	1.630E-02	1.549E-02	74	2.895	1.499E-03	2.565E-03	2.032E-03
26	0.535	1.671E-02	1.831E-02	1.751E-02	75	2.965	6.588E-04	1.648E-03	1.153E-03
27	0.565	1.486E-02	1.641E-02	1.564E-02	76	3.035	-2.978E-04	7.467E-04	2.245E-04
28	0.595	1.370E-02	1.517E-02	1.444E-02	77	3.110	-1.306E-03	-3.421E-04	-8.239E-04
29	0.625	1.049E-02	1.189E-02	1.119E-02	78	3.190	-9.680E-04	1.334E-04	-4.173E-04
30	0.655	7.764E-03	9.066E-03	8.415E-03	79	3.270	-5.955E-04	4.592E-04	-6.815E-05
31	0.685	8.626E-03	9.942E-03	9.284E-03	80	3.350	-4.442E-04	4.753E-04	1.557E-05
32	0.715	8.285E-03	9.591E-03	8.938E-03	81	3.430	-6.974E-05	8.197E-04	3.750E-04
33	0.745	8.449E-03	9.772E-03	9.111E-03	82	3.510	1.840E-04	9.419E-04	5.629E-04
34	0.775	9.580E-03	1.092E-02	1.025E-02	83	3.590	6.620E-04	1.393E-03	1.028E-03
35	0.810	9.626E-03	1.098E-02	1.030E-02	84	3.670	1.059E-03	1.740E-03	1.399E-03
36	0.850	9.315E-03	1.065E-02	9.980E-03	85	3.750	9.005E-04	1.506E-03	1.203E-03
37	0.890	8.259E-03	9.565E-03	8.912E-03	86	3.830	5.349E-04	1.173E-03	8.538E-04
38	0.930	7.974E-03	9.285E-03	8.629E-03	87	3.915	4.489E-04	1.059E-03	7.542E-04
39	0.970	7.855E-03	9.147E-03	8.501E-03	88	4.005	3.042E-04	9.600E-04	6.321E-04
40	1.010	8.607E-03	9.941E-03	9.274E-03	89	4.095	2.263E-04	1.012E-03	6.190E-04
41	1.050	7.272E-03	8.533E-03	7.903E-03	90	4.185	1.112E-04	1.103E-03	6.073E-04
42	1.090	7.664E-03	8.903E-03	8.284E-03	91	4.275	-3.747E-05	9.568E-04	4.597E-04
43	1.130	8.337E-03	9.537E-03	8.937E-03	92	4.365	-3.251E-04	5.577E-04	1.163E-04
44	1.170	7.254E-03	8.365E-03	7.809E-03	93	4.455	-1.019E-03	5.444E-05	-4.823E-04
45	1.210	7.067E-03	8.127E-03	7.597E-03	94	4.550	-1.441E-03	-2.079E-04	-8.245E-04
46	1.250	5.581E-03	6.948E-03	6.265E-03	95	4.650	-1.112E-03	6.901E-05	-5.214E-04
47	1.295	5.428E-03	6.410E-03	5.919E-03	96	4.750	-4.171E-04	4.382E-04	1.055E-05
48	1.345	6.054E-03	7.141E-03	6.597E-03	97	4.850	1.999E-04	8.892E-04	5.446E-04
49	1.395	6.248E-03	7.355E-03	6.801E-03	98	4.950	5.010E-04	1.161E-03	8.312E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 35 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.541E-02	3.665E-02	3.103E-02	50	1.445	6.259E-03	7.100E-03	6.680E-03
2	0.111	4.894E-03	1.061E-02	7.751E-03	51	1.495	4.236E-03	4.973E-03	4.604E-03
3	0.117	-1.274E-02	7.362E-03	-2.689E-03	52	1.545	3.461E-03	4.150E-03	3.805E-03
4	0.125	1.884E-02	2.801E-02	2.342E-02	53	1.595	2.879E-03	3.575E-03	3.227E-03
5	0.135	1.197E-02	2.437E-02	1.817E-02	54	1.645	1.921E-03	2.557E-03	2.239E-03
6	0.145	-8.331E-03	9.660E-03	6.644E-04	55	1.695	1.646E-03	2.264E-03	1.955E-03
7	0.155	8.962E-03	1.762E-02	1.329E-02	56	1.745	1.652E-03	2.296E-03	1.974E-03
8	0.165	5.919E-03	1.047E-02	8.193E-03	57	1.800	1.963E-03	2.637E-03	2.300E-03
9	0.175	4.042E-03	1.121E-02	7.624E-03	58	1.860	1.287E-03	1.938E-03	1.613E-03
10	0.185	9.561E-03	1.270E-02	1.113E-02	59	1.920	1.458E-03	2.131E-03	1.794E-03
11	0.200	1.181E-02	1.373E-02	1.277E-02	60	1.980	1.026E-03	1.620E-03	1.323E-03
12	0.220	1.093E-02	1.279E-02	1.186E-02	61	2.040	1.189E-03	1.800E-03	1.495E-03
13	0.240	6.543E-03	8.039E-03	7.291E-03	62	2.100	9.095E-04	1.533E-03	1.221E-03
14	0.260	6.230E-03	7.504E-03	6.867E-03	63	2.160	6.395E-04	1.257E-03	9.482E-04
15	0.280	6.693E-03	7.868E-03	7.281E-03	64	2.220	6.344E-04	1.220E-03	9.270E-04
16	0.300	5.222E-03	6.305E-03	5.763E-03	65	2.280	6.610E-04	1.274E-03	9.673E-04
17	0.320	4.070E-03	5.130E-03	4.600E-03	66	2.340	7.569E-04	1.409E-03	1.083E-03
18	0.340	5.693E-03	6.812E-03	6.253E-03	67	2.405	6.968E-04	1.389E-03	1.043E-03
19	0.360	7.779E-03	8.995E-03	8.387E-03	68	2.475	5.610E-04	1.202E-03	8.816E-04
20	0.380	1.089E-02	1.216E-02	1.152E-02	69	2.545	3.810E-04	9.748E-04	6.779E-04
21	0.400	1.219E-02	1.349E-02	1.284E-02	70	2.615	8.629E-04	1.495E-03	1.179E-03
22	0.420	9.448E-03	1.061E-02	1.003E-02	71	2.685	7.196E-04	1.329E-03	1.024E-03
23	0.445	6.822E-03	7.892E-03	7.357E-03	72	2.755	9.388E-04	1.536E-03	1.238E-03
24	0.475	5.396E-03	6.422E-03	5.909E-03	73	2.825	1.008E-03	1.638E-03	1.323E-03
25	0.505	6.723E-03	7.777E-03	7.250E-03	74	2.895	5.486E-04	1.136E-03	8.423E-04
26	0.535	9.682E-03	1.076E-02	1.022E-02	75	2.965	3.705E-04	9.476E-04	6.591E-04
27	0.565	9.192E-03	1.026E-02	9.724E-03	76	3.035	1.547E-04	7.346E-04	4.446E-04
28	0.595	8.744E-03	9.757E-03	9.251E-03	77	3.110	6.285E-05	5.986E-04	3.307E-04
29	0.625	6.422E-03	7.374E-03	6.898E-03	78	3.190	-1.349E-04	3.929E-04	1.290E-04
30	0.655	4.736E-03	5.626E-03	5.181E-03	79	3.270	-2.183E-04	2.967E-04	3.915E-05
31	0.685	4.896E-03	5.790E-03	5.343E-03	80	3.350	-9.824E-05	3.583E-04	1.301E-04
32	0.715	5.815E-03	6.724E-03	6.270E-03	81	3.430	2.043E-04	6.782E-04	4.413E-04
33	0.745	4.848E-03	5.742E-03	5.295E-03	82	3.510	1.825E-04	5.935E-04	3.880E-04
34	0.775	5.082E-03	5.970E-03	5.526E-03	83	3.590	8.803E-05	5.095E-04	2.988E-04
35	0.810	5.459E-03	6.378E-03	5.919E-03	84	3.670	2.279E-04	6.230E-04	4.255E-04
36	0.850	5.338E-03	6.242E-03	5.790E-03	85	3.750	2.506E-04	6.051E-04	4.278E-04
37	0.890	4.592E-03	5.486E-03	5.039E-03	86	3.830	-3.988E-05	3.192E-04	1.397E-04
38	0.930	4.759E-03	5.660E-03	5.209E-03	87	3.915	-1.294E-04	1.889E-04	2.973E-05
39	0.970	4.849E-03	5.738E-03	5.293E-03	88	4.005	5.129E-05	3.705E-04	2.109E-04
40	1.010	4.247E-03	5.142E-03	4.695E-03	89	4.095	2.433E-04	5.191E-04	3.812E-04
41	1.050	3.643E-03	4.489E-03	4.066E-03	90	4.185	3.400E-04	6.451E-04	4.925E-04
42	1.090	3.928E-03	4.769E-03	4.348E-03	91	4.275	2.607E-04	5.401E-04	4.004E-04
43	1.130	5.033E-03	5.862E-03	5.447E-03	92	4.365	1.448E-04	4.113E-04	2.781E-04
44	1.170	4.374E-03	5.145E-03	4.760E-03	93	4.455	-7.334E-05	1.830E-04	5.481E-05
45	1.210	4.083E-03	4.805E-03	4.444E-03	94	4.550	-2.531E-04	-2.793E-05	-1.405E-04
46	1.250	3.589E-03	4.540E-03	4.064E-03	95	4.650	-2.015E-04	4.086E-05	-8.034E-05
47	1.295	3.103E-03	3.770E-03	3.436E-03	96	4.750	-8.615E-06	1.876E-04	8.947E-05
48	1.345	4.163E-03	4.935E-03	4.549E-03	97	4.850	1.799E-04	3.181E-04	2.490E-04
49	1.395	4.891E-03	5.706E-03	5.299E-03	98	4.950	2.431E-04	3.434E-04	2.932E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 55 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.347E-02	1.994E-02	1.670E-02	50	1.445	4.294E-03	4.769E-03	4.532E-03
2	0.111	2.803E-03	6.028E-03	4.415E-03	51	1.495	3.426E-03	3.856E-03	3.641E-03
3	0.117	-6.592E-03	5.008E-03	-7.923E-04	52	1.545	2.120E-03	2.500E-03	2.310E-03
4	0.125	9.649E-03	1.490E-02	1.228E-02	53	1.595	1.718E-03	2.105E-03	1.911E-03
5	0.135	5.829E-03	1.301E-02	9.419E-03	54	1.645	1.585E-03	1.953E-03	1.769E-03
6	0.145	-4.492E-03	5.930E-03	7.190E-04	55	1.695	1.279E-03	1.626E-03	1.453E-03
7	0.155	4.282E-03	9.309E-03	6.795E-03	56	1.745	1.059E-03	1.413E-03	1.236E-03
8	0.165	3.457E-03	6.029E-03	4.743E-03	57	1.800	9.977E-04	1.363E-03	1.181E-03
9	0.175	3.109E-03	7.184E-03	5.147E-03	58	1.860	9.994E-04	1.371E-03	1.185E-03
10	0.185	6.142E-03	7.921E-03	7.031E-03	59	1.920	6.513E-04	1.017E-03	8.344E-04
11	0.200	7.946E-03	9.031E-03	8.489E-03	60	1.980	7.616E-04	1.097E-03	9.294E-04
12	0.220	7.718E-03	8.774E-03	8.246E-03	61	2.040	9.151E-04	1.271E-03	1.093E-03
13	0.240	4.657E-03	5.493E-03	5.075E-03	62	2.100	8.570E-04	1.208E-03	1.033E-03
14	0.260	3.735E-03	4.437E-03	4.086E-03	63	2.160	5.600E-04	9.040E-04	7.320E-04
15	0.280	4.510E-03	5.171E-03	4.841E-03	64	2.220	3.609E-04	6.827E-04	5.218E-04
16	0.300	3.892E-03	4.510E-03	4.201E-03	65	2.280	7.159E-04	1.071E-03	8.935E-04
17	0.320	3.278E-03	3.884E-03	3.581E-03	66	2.340	4.202E-04	7.654E-04	5.928E-04
18	0.340	3.743E-03	4.372E-03	4.058E-03	67	2.405	5.226E-04	9.195E-04	7.211E-04
19	0.360	5.337E-03	6.025E-03	5.681E-03	68	2.475	4.104E-04	7.664E-04	5.884E-04
20	0.380	7.951E-03	8.678E-03	8.315E-03	69	2.545	6.113E-04	9.655E-04	7.884E-04
21	0.400	8.796E-03	9.538E-03	9.167E-03	70	2.615	6.372E-04	9.884E-04	8.128E-04
22	0.420	6.793E-03	7.447E-03	7.120E-03	71	2.685	3.763E-04	7.200E-04	5.481E-04
23	0.445	4.342E-03	4.933E-03	4.637E-03	72	2.755	4.609E-04	7.880E-04	6.245E-04
24	0.475	3.223E-03	3.788E-03	3.505E-03	73	2.825	3.498E-04	6.781E-04	5.140E-04
25	0.505	4.143E-03	4.722E-03	4.432E-03	74	2.895	4.775E-04	8.396E-04	6.585E-04
26	0.535	5.584E-03	6.174E-03	5.879E-03	75	2.965	3.363E-04	6.670E-04	5.017E-04
27	0.565	5.876E-03	6.471E-03	6.174E-03	76	3.035	-4.661E-05	2.847E-04	1.191E-04
28	0.595	5.697E-03	6.266E-03	5.981E-03	77	3.110	-7.519E-05	2.263E-04	7.557E-05
29	0.625	4.249E-03	4.786E-03	4.518E-03	78	3.190	-1.362E-05	3.120E-04	1.492E-04
30	0.655	2.910E-03	3.406E-03	3.158E-03	79	3.270	-1.623E-04	1.343E-04	-1.400E-05
31	0.685	3.285E-03	3.788E-03	3.536E-03	80	3.350	-2.863E-05	2.652E-04	1.183E-04
32	0.715	3.447E-03	3.948E-03	3.697E-03	81	3.430	2.569E-05	2.804E-04	1.531E-04
33	0.745	3.352E-03	3.855E-03	3.603E-03	82	3.510	1.307E-04	3.764E-04	2.535E-04
34	0.775	2.909E-03	3.401E-03	3.155E-03	83	3.590	2.794E-04	5.233E-04	4.014E-04
35	0.810	3.577E-03	4.104E-03	3.840E-03	84	3.670	2.470E-04	4.679E-04	3.575E-04
36	0.850	4.811E-03	5.351E-03	5.081E-03	85	3.750	1.118E-04	3.147E-04	2.133E-04
37	0.890	3.800E-03	4.320E-03	4.060E-03	86	3.830	1.676E-04	3.727E-04	2.702E-04
38	0.930	3.615E-03	4.130E-03	3.872E-03	87	3.915	6.053E-05	2.617E-04	1.611E-04
39	0.970	3.352E-03	3.851E-03	3.601E-03	88	4.005	-6.608E-05	1.051E-04	1.953E-05
40	1.010	2.758E-03	3.261E-03	3.010E-03	89	4.095	8.868E-05	2.608E-04	1.747E-04
41	1.050	2.657E-03	3.142E-03	2.899E-03	90	4.185	2.291E-04	4.172E-04	3.231E-04
42	1.090	3.061E-03	3.541E-03	3.301E-03	91	4.275	2.163E-04	4.012E-04	3.088E-04
43	1.130	3.150E-03	3.605E-03	3.377E-03	92	4.365	1.001E-04	2.759E-04	1.880E-04
44	1.170	2.624E-03	3.045E-03	2.835E-03	93	4.455	-1.647E-05	1.529E-04	6.821E-05
45	1.210	1.918E-03	2.309E-03	2.113E-03	94	4.550	-1.524E-04	3.461E-06	-7.446E-05
46	1.250	2.248E-03	2.787E-03	2.518E-03	95	4.650	-1.951E-04	-2.981E-05	-1.125E-04
47	1.295	2.815E-03	3.207E-03	3.011E-03	96	4.750	-8.409E-05	5.135E-05	-1.637E-05
48	1.345	2.436E-03	2.855E-03	2.646E-03	97	4.850	6.550E-05	1.630E-04	1.142E-04
49	1.395	2.868E-03	3.319E-03	3.093E-03	98	4.950	1.565E-04	2.268E-04	1.917E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 95 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.819E-03	1.046E-02	8.639E-03	50	1.445	2.793E-03	3.171E-03	2.982E-03
2	0.111	9.943E-04	2.950E-03	1.972E-03	51	1.495	1.775E-03	2.100E-03	1.937E-03
3	0.117	-3.858E-03	2.864E-03	-4.972E-04	52	1.545	1.070E-03	1.359E-03	1.215E-03
4	0.125	4.057E-03	7.020E-03	5.538E-03	53	1.595	1.035E-03	1.339E-03	1.187E-03
5	0.135	1.823E-03	6.298E-03	4.060E-03	54	1.645	6.972E-04	9.741E-04	8.357E-04
6	0.145	-2.643E-03	3.855E-03	6.059E-04	55	1.695	6.515E-04	9.267E-04	7.891E-04
7	0.155	2.147E-03	5.205E-03	3.676E-03	56	1.745	7.811E-04	1.069E-03	9.251E-04
8	0.165	2.164E-03	4.131E-03	3.147E-03	57	1.800	5.663E-04	8.441E-04	7.052E-04
9	0.175	2.200E-03	5.245E-03	3.722E-03	58	1.860	5.786E-04	8.717E-04	7.252E-04
10	0.185	3.617E-03	4.972E-03	4.294E-03	59	1.920	5.335E-04	8.308E-04	6.821E-04
11	0.200	4.525E-03	5.373E-03	4.949E-03	60	1.980	6.769E-04	9.467E-04	8.118E-04
12	0.220	4.390E-03	5.236E-03	4.813E-03	61	2.040	5.650E-04	8.364E-04	7.007E-04
13	0.240	2.985E-03	3.662E-03	3.324E-03	62	2.100	4.611E-04	7.373E-04	5.992E-04
14	0.260	2.413E-03	2.982E-03	2.698E-03	63	2.160	3.924E-04	6.646E-04	5.285E-04
15	0.280	2.942E-03	3.474E-03	3.208E-03	64	2.220	3.204E-04	5.724E-04	4.464E-04
16	0.300	2.507E-03	3.003E-03	2.755E-03	65	2.280	1.648E-04	4.156E-04	2.902E-04
17	0.320	2.106E-03	2.593E-03	2.349E-03	66	2.340	1.336E-04	4.000E-04	2.668E-04
18	0.340	2.487E-03	2.991E-03	2.739E-03	67	2.405	9.790E-05	3.887E-04	2.433E-04
19	0.360	3.344E-03	3.889E-03	3.617E-03	68	2.475	1.745E-04	4.518E-04	3.131E-04
20	0.380	4.577E-03	5.142E-03	4.859E-03	69	2.545	2.867E-04	5.541E-04	4.204E-04
21	0.400	4.833E-03	5.411E-03	5.122E-03	70	2.615	4.909E-04	7.754E-04	6.331E-04
22	0.420	4.056E-03	4.578E-03	4.317E-03	71	2.685	3.614E-04	6.224E-04	4.919E-04
23	0.445	3.158E-03	3.641E-03	3.399E-03	72	2.755	3.407E-04	5.989E-04	4.698E-04
24	0.475	2.350E-03	2.805E-03	2.577E-03	73	2.825	2.005E-04	4.694E-04	3.349E-04
25	0.505	2.375E-03	2.828E-03	2.602E-03	74	2.895	1.835E-04	4.384E-04	3.110E-04
26	0.535	2.953E-03	3.408E-03	3.181E-03	75	2.965	9.447E-05	3.649E-04	2.297E-04
27	0.565	3.454E-03	3.922E-03	3.688E-03	76	3.035	-3.599E-05	2.196E-04	9.183E-05
28	0.595	3.901E-03	4.361E-03	4.131E-03	77	3.110	-1.120E-04	1.243E-04	6.116E-05
29	0.625	2.606E-03	3.032E-03	2.819E-03	78	3.190	-2.067E-04	2.539E-05	-9.064E-06
30	0.655	1.761E-03	2.153E-03	1.957E-03	79	3.270	-1.094E-04	1.274E-04	8.988E-06
31	0.685	2.047E-03	2.448E-03	2.247E-03	80	3.350	-1.530E-04	5.680E-05	-4.808E-05
32	0.715	2.322E-03	2.726E-03	2.524E-03	81	3.430	-1.159E-06	2.104E-04	1.046E-04
33	0.745	2.314E-03	2.719E-03	2.517E-03	82	3.510	8.193E-05	2.729E-04	1.774E-04
34	0.775	1.758E-03	2.147E-03	1.953E-03	83	3.590	2.102E-04	4.180E-04	3.141E-04
35	0.810	2.324E-03	2.743E-03	2.534E-03	84	3.670	2.397E-04	4.161E-04	3.279E-04
36	0.850	3.115E-03	3.548E-03	3.332E-03	85	3.750	1.385E-04	2.991E-04	2.188E-04
37	0.890	2.255E-03	2.661E-03	2.458E-03	86	3.830	4.228E-05	1.952E-04	1.187E-04
38	0.930	2.406E-03	2.821E-03	2.614E-03	87	3.915	3.137E-05	1.878E-04	1.096E-04
39	0.970	2.079E-03	2.476E-03	2.278E-03	88	4.005	6.332E-05	2.027E-04	1.330E-04
40	1.010	2.069E-03	2.474E-03	2.272E-03	89	4.095	6.059E-05	1.866E-04	1.236E-04
41	1.050	1.442E-03	1.816E-03	1.629E-03	90	4.185	7.740E-05	2.090E-04	1.432E-04
42	1.090	1.723E-03	2.093E-03	1.908E-03	91	4.275	8.393E-05	2.113E-04	1.476E-04
43	1.130	1.776E-03	2.131E-03	1.953E-03	92	4.365	2.782E-05	1.487E-04	8.826E-05
44	1.170	1.520E-03	1.847E-03	1.683E-03	93	4.455	-6.361E-05	5.225E-05	-5.680E-06
45	1.210	1.306E-03	1.616E-03	1.461E-03	94	4.550	-1.222E-04	-1.246E-05	-6.732E-05
46	1.250	1.269E-03	1.692E-03	1.481E-03	95	4.650	-1.032E-04	9.957E-06	-4.661E-05
47	1.295	1.703E-03	2.009E-03	1.856E-03	96	4.750	-1.994E-05	6.887E-05	2.447E-05
48	1.345	1.606E-03	1.945E-03	1.776E-03	97	4.850	7.499E-05	1.339E-04	1.044E-04
49	1.395	1.986E-03	2.348E-03	2.167E-03	98	4.950	1.143E-04	1.604E-04	1.373E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 155 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.539E-03	4.522E-03	3.531E-03	50	1.445	1.394E-03	1.586E-03	1.490E-03
2	0.111	7.030E-04	1.723E-03	1.213E-03	51	1.495	1.096E-03	1.268E-03	1.182E-03
3	0.117	-1.126E-03	2.578E-03	7.262E-04	52	1.545	7.304E-04	8.853E-04	8.078E-04
4	0.125	1.314E-03	2.890E-03	2.102E-03	53	1.595	5.228E-04	6.729E-04	5.978E-04
5	0.135	3.200E-04	2.863E-03	1.592E-03	54	1.645	4.179E-04	5.589E-04	4.884E-04
6	0.145	-5.480E-04	3.139E-03	1.296E-03	55	1.695	3.995E-04	5.403E-04	4.699E-04
7	0.155	9.293E-04	2.684E-03	1.807E-03	56	1.745	3.835E-04	5.271E-04	4.553E-04
8	0.165	1.535E-03	2.612E-03	2.073E-03	57	1.800	3.271E-04	4.665E-04	3.968E-04
9	0.175	1.520E-03	3.193E-03	2.356E-03	58	1.860	2.316E-04	3.774E-04	3.045E-04
10	0.185	2.227E-03	2.966E-03	2.596E-03	59	1.920	1.704E-04	3.095E-04	2.400E-04
11	0.200	2.751E-03	3.211E-03	2.981E-03	60	1.980	2.180E-04	3.536E-04	2.858E-04
12	0.220	2.584E-03	3.043E-03	2.814E-03	61	2.040	3.222E-04	4.663E-04	3.943E-04
13	0.240	1.796E-03	2.165E-03	1.981E-03	62	2.100	2.346E-04	3.759E-04	3.052E-04
14	0.260	1.574E-03	1.887E-03	1.730E-03	63	2.160	8.514E-05	2.143E-04	1.497E-04
15	0.280	2.018E-03	2.315E-03	2.167E-03	64	2.220	2.531E-04	3.887E-04	3.209E-04
16	0.300	2.045E-03	2.329E-03	2.187E-03	65	2.280	1.727E-04	3.050E-04	2.388E-04
17	0.320	1.912E-03	2.191E-03	2.051E-03	66	2.340	1.596E-04	2.972E-04	2.284E-04
18	0.340	1.783E-03	2.060E-03	1.921E-03	67	2.405	7.618E-05	2.226E-04	1.494E-04
19	0.360	1.693E-03	1.976E-03	1.834E-03	68	2.475	1.027E-04	2.443E-04	1.735E-04
20	0.380	2.052E-03	2.341E-03	2.196E-03	69	2.545	2.349E-04	3.764E-04	3.056E-04
21	0.400	2.663E-03	2.971E-03	2.817E-03	70	2.615	4.261E-04	5.732E-04	4.997E-04
22	0.420	2.537E-03	2.825E-03	2.681E-03	71	2.685	1.408E-04	2.625E-04	2.016E-04
23	0.445	2.195E-03	2.465E-03	2.330E-03	72	2.755	1.277E-05	1.350E-04	7.389E-05
24	0.475	1.803E-03	2.055E-03	1.929E-03	73	2.825	-1.155E-05	1.195E-04	5.876E-05
25	0.505	1.134E-03	1.371E-03	1.253E-03	74	2.895	1.599E-05	1.498E-04	8.287E-05
26	0.535	1.323E-03	1.559E-03	1.441E-03	75	2.965	-1.688E-06	1.299E-04	6.412E-05
27	0.565	2.083E-03	2.336E-03	2.209E-03	76	3.035	-3.849E-07	1.339E-04	6.675E-05
28	0.595	2.330E-03	2.578E-03	2.454E-03	77	3.110	-3.053E-05	8.934E-05	2.941E-05
29	0.625	1.504E-03	1.731E-03	1.618E-03	78	3.190	-9.762E-05	3.054E-05	-3.354E-05
30	0.655	8.007E-04	1.007E-03	9.036E-04	79	3.270	-4.507E-05	8.531E-05	2.012E-05
31	0.685	1.003E-03	1.216E-03	1.109E-03	80	3.350	3.550E-05	1.558E-04	9.566E-05
32	0.715	1.773E-03	1.999E-03	1.886E-03	81	3.430	6.839E-05	1.851E-04	1.268E-04
33	0.745	1.387E-03	1.605E-03	1.496E-03	82	3.510	4.891E-05	1.503E-04	9.963E-05
34	0.775	1.089E-03	1.299E-03	1.194E-03	83	3.590	4.507E-05	1.465E-04	9.578E-05
35	0.810	1.467E-03	1.698E-03	1.583E-03	84	3.670	3.375E-05	1.273E-04	8.050E-05
36	0.850	2.238E-03	2.480E-03	2.359E-03	85	3.750	3.876E-05	1.250E-04	8.190E-05
37	0.890	1.960E-03	2.194E-03	2.077E-03	86	3.830	3.651E-05	1.220E-04	7.925E-05
38	0.930	1.730E-03	1.955E-03	1.843E-03	87	3.915	-1.461E-05	6.486E-05	2.512E-05
39	0.970	1.486E-03	1.702E-03	1.594E-03	88	4.005	-2.028E-05	5.409E-05	1.691E-05
40	1.010	1.297E-03	1.512E-03	1.405E-03	89	4.095	3.305E-05	1.026E-04	6.783E-05
41	1.050	1.260E-03	1.466E-03	1.363E-03	90	4.185	8.288E-05	1.592E-04	1.211E-04
42	1.090	1.074E-03	1.267E-03	1.170E-03	91	4.275	6.718E-05	1.433E-04	1.053E-04
43	1.130	8.955E-04	1.073E-03	9.841E-04	92	4.365	3.369E-05	1.032E-04	6.846E-05
44	1.170	8.099E-04	9.770E-04	8.935E-04	93	4.455	4.258E-06	6.969E-05	3.698E-05
45	1.210	6.560E-04	8.143E-04	7.351E-04	94	4.550	-5.030E-05	1.279E-05	-1.875E-05
46	1.250	6.471E-04	8.567E-04	7.519E-04	95	4.650	-6.419E-05	8.832E-06	-2.768E-05
47	1.295	8.255E-04	9.803E-04	9.029E-04	96	4.750	-2.317E-05	3.630E-05	6.565E-06
48	1.345	6.900E-04	8.570E-04	7.735E-04	97	4.850	2.555E-05	6.310E-05	4.433E-05
49	1.395	1.066E-03	1.248E-03	1.157E-03	98	4.950	5.322E-05	8.147E-05	6.735E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 255 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.227E-03	2.423E-03	1.825E-03	50	1.445	7.384E-04	8.521E-04	7.953E-04
2	0.111	9.477E-05	7.051E-04	3.999E-04	51	1.495	4.572E-04	5.544E-04	5.058E-04
3	0.117	-9.816E-04	1.280E-03	1.491E-04	52	1.545	2.906E-04	3.790E-04	3.348E-04
4	0.125	7.143E-04	1.646E-03	1.180E-03	53	1.595	1.956E-04	2.850E-04	2.403E-04
5	0.135	1.353E-04	1.781E-03	9.583E-04	54	1.645	2.446E-04	3.327E-04	2.887E-04
6	0.145	-2.754E-04	2.104E-03	9.145E-04	55	1.695	2.694E-04	3.579E-04	3.136E-04
7	0.155	6.911E-04	1.824E-03	1.257E-03	56	1.745	2.084E-04	2.939E-04	2.512E-04
8	0.165	1.004E-03	1.716E-03	1.360E-03	57	1.800	1.432E-04	2.278E-04	1.855E-04
9	0.175	1.127E-03	2.231E-03	1.679E-03	58	1.860	8.631E-05	1.733E-04	1.298E-04
10	0.185	1.419E-03	1.907E-03	1.663E-03	59	1.920	1.750E-04	2.666E-04	2.208E-04
11	0.200	1.811E-03	2.117E-03	1.964E-03	60	1.980	2.073E-04	2.915E-04	2.494E-04
12	0.220	1.613E-03	1.921E-03	1.767E-03	61	2.040	2.054E-04	2.915E-04	2.485E-04
13	0.240	1.425E-03	1.677E-03	1.551E-03	62	2.100	1.844E-04	2.738E-04	2.291E-04
14	0.260	1.267E-03	1.478E-03	1.373E-03	63	2.160	1.099E-04	1.914E-04	1.506E-04
15	0.280	1.333E-03	1.529E-03	1.431E-03	64	2.220	1.643E-04	2.421E-04	2.032E-04
16	0.300	1.287E-03	1.471E-03	1.379E-03	65	2.280	1.371E-04	2.157E-04	1.764E-04
17	0.320	1.279E-03	1.460E-03	1.370E-03	66	2.340	7.532E-05	1.555E-04	1.154E-04
18	0.340	1.122E-03	1.300E-03	1.211E-03	67	2.405	3.729E-05	1.196E-04	7.843E-05
19	0.360	9.489E-04	1.127E-03	1.038E-03	68	2.475	-2.026E-06	7.353E-05	3.575E-05
20	0.380	9.906E-04	1.169E-03	1.080E-03	69	2.545	1.150E-04	1.967E-04	1.558E-04
21	0.400	1.275E-03	1.465E-03	1.370E-03	70	2.615	2.124E-04	2.964E-04	2.544E-04
22	0.420	1.392E-03	1.576E-03	1.484E-03	71	2.685	3.949E-05	1.097E-04	7.458E-05
23	0.445	1.442E-03	1.619E-03	1.531E-03	72	2.755	-5.624E-05	5.043E-06	-2.560E-05
24	0.475	1.123E-03	1.288E-03	1.206E-03	73	2.825	-1.076E-05	6.214E-05	2.569E-05
25	0.505	8.272E-04	9.828E-04	9.050E-04	74	2.895	7.015E-07	7.749E-05	3.910E-05
26	0.535	7.149E-04	8.652E-04	7.901E-04	75	2.965	2.589E-05	1.027E-04	6.428E-05
27	0.565	1.129E-03	1.288E-03	1.209E-03	76	3.035	4.558E-06	7.931E-05	4.193E-05
28	0.595	1.466E-03	1.627E-03	1.546E-03	77	3.110	-2.330E-05	4.356E-05	1.013E-05
29	0.625	7.530E-04	8.976E-04	8.253E-04	78	3.190	-2.943E-05	3.636E-05	3.467E-06
30	0.655	6.407E-04	7.795E-04	7.101E-04	79	3.270	-4.028E-06	5.979E-05	2.788E-05
31	0.685	7.614E-04	9.046E-04	8.330E-04	80	3.350	4.381E-05	1.087E-04	7.623E-05
32	0.715	1.126E-03	1.275E-03	1.200E-03	81	3.430	6.009E-05	1.228E-04	9.143E-05
33	0.745	1.029E-03	1.175E-03	1.102E-03	82	3.510	3.148E-05	8.720E-05	5.934E-05
34	0.775	8.310E-04	9.708E-04	9.009E-04	83	3.590	3.054E-05	8.487E-05	5.770E-05
35	0.810	9.735E-04	1.124E-03	1.049E-03	84	3.670	2.082E-05	6.890E-05	4.486E-05
36	0.850	1.553E-03	1.715E-03	1.634E-03	85	3.750	-3.655E-06	4.402E-05	2.018E-05
37	0.890	1.537E-03	1.695E-03	1.616E-03	86	3.830	-2.318E-05	1.817E-05	-2.508E-06
38	0.930	1.387E-03	1.539E-03	1.463E-03	87	3.915	-1.623E-05	2.641E-05	5.087E-06
39	0.970	1.025E-03	1.165E-03	1.095E-03	88	4.005	2.074E-06	4.144E-05	2.176E-05
40	1.010	9.104E-04	1.050E-03	9.801E-04	89	4.095	2.698E-06	3.950E-05	2.110E-05
41	1.050	9.470E-04	1.081E-03	1.014E-03	90	4.185	2.844E-05	6.271E-05	4.558E-05
42	1.090	7.275E-04	8.485E-04	7.880E-04	91	4.275	4.124E-05	7.812E-05	5.968E-05
43	1.130	5.108E-04	6.178E-04	5.643E-04	92	4.365	1.822E-05	5.037E-05	3.430E-05
44	1.170	4.109E-04	5.126E-04	4.618E-04	93	4.455	-6.764E-07	2.875E-05	1.404E-05
45	1.210	4.637E-04	5.639E-04	5.138E-04	94	4.550	-1.341E-05	1.574E-05	1.163E-06
46	1.250	4.874E-04	6.222E-04	5.548E-04	95	4.650	-1.832E-05	8.604E-06	-4.856E-06
47	1.295	5.242E-04	6.191E-04	5.716E-04	96	4.750	-6.604E-06	1.464E-05	4.017E-06
48	1.345	4.077E-04	5.083E-04	4.580E-04	97	4.850	9.807E-06	2.491E-05	1.736E-05
49	1.395	5.610E-04	6.698E-04	6.154E-04	98	4.950	1.729E-05	2.880E-05	2.305E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>233</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 395 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.988E-04	9.821E-04	5.904E-04	50	1.445	3.379E-04	4.015E-04	3.697E-04
2	0.111	2.750E-04	6.623E-04	4.686E-04	51	1.495	2.778E-04	3.359E-04	3.068E-04
3	0.117	1.839E-04	1.672E-03	9.279E-04	52	1.545	1.958E-04	2.500E-04	2.229E-04
4	0.125	1.289E-04	7.368E-04	4.329E-04	53	1.595	1.291E-04	1.823E-04	1.557E-04
5	0.135	-3.504E-04	7.383E-04	1.939E-04	54	1.645	1.381E-04	1.915E-04	1.648E-04
6	0.145	5.449E-04	2.118E-03	1.331E-03	55	1.695	1.477E-04	2.006E-04	1.741E-04
7	0.155	1.503E-04	9.062E-04	5.282E-04	56	1.745	1.679E-04	2.229E-04	1.954E-04
8	0.165	6.806E-04	1.131E-03	9.060E-04	57	1.800	1.522E-04	2.051E-04	1.787E-04
9	0.175	9.359E-04	1.637E-03	1.287E-03	58	1.860	6.340E-05	1.148E-04	8.908E-05
10	0.185	9.727E-04	1.282E-03	1.127E-03	59	1.920	5.442E-05	1.064E-04	8.040E-05
11	0.200	1.239E-03	1.431E-03	1.335E-03	60	1.980	9.350E-05	1.417E-04	1.176E-04
12	0.220	1.029E-03	1.222E-03	1.126E-03	61	2.040	7.280E-05	1.227E-04	9.773E-05
13	0.240	9.058E-04	1.064E-03	9.850E-04	62	2.100	7.649E-05	1.288E-04	1.026E-04
14	0.260	8.521E-04	9.866E-04	9.193E-04	63	2.160	9.910E-05	1.503E-04	1.247E-04
15	0.280	1.039E-03	1.166E-03	1.103E-03	64	2.220	1.390E-04	1.877E-04	1.634E-04
16	0.300	1.065E-03	1.186E-03	1.125E-03	65	2.280	4.991E-05	9.440E-05	7.215E-05
17	0.320	9.903E-04	1.108E-03	1.049E-03	66	2.340	6.392E-05	1.129E-04	8.840E-05
18	0.340	7.932E-04	9.061E-04	8.496E-04	67	2.405	6.251E-05	1.137E-04	8.809E-05
19	0.360	5.916E-04	7.022E-04	6.469E-04	68	2.475	3.308E-06	4.616E-05	2.474E-05
20	0.380	5.440E-04	6.530E-04	5.985E-04	69	2.545	7.019E-05	1.193E-04	9.472E-05
21	0.400	7.015E-04	8.182E-04	7.599E-04	70	2.615	1.344E-04	1.826E-04	1.585E-04
22	0.420	8.687E-04	9.842E-04	9.265E-04	71	2.685	2.985E-05	7.001E-05	4.993E-05
23	0.445	9.930E-04	1.106E-03	1.049E-03	72	2.755	-2.718E-05	9.576E-06	-8.803E-06
24	0.475	7.707E-04	8.751E-04	8.229E-04	73	2.825	-1.429E-05	2.656E-05	6.136E-06
25	0.505	4.951E-04	5.920E-04	5.436E-04	74	2.895	1.273E-05	5.628E-05	3.450E-05
26	0.535	4.130E-04	5.069E-04	4.599E-04	75	2.965	1.708E-05	6.008E-05	3.858E-05
27	0.565	8.132E-04	9.161E-04	8.647E-04	76	3.035	-2.532E-05	1.496E-05	-5.178E-06
28	0.595	9.547E-04	1.057E-03	1.006E-03	77	3.110	-1.963E-05	1.692E-05	-1.357E-06
29	0.625	6.855E-04	7.817E-04	7.336E-04	78	3.190	9.960E-07	3.945E-05	2.023E-05
30	0.655	4.507E-04	5.395E-04	4.951E-04	79	3.270	6.626E-07	3.903E-05	1.985E-05
31	0.685	4.891E-04	5.786E-04	5.339E-04	80	3.350	1.448E-05	4.905E-05	3.177E-05
32	0.715	6.942E-04	7.867E-04	7.405E-04	81	3.430	2.867E-05	6.367E-05	4.617E-05
33	0.745	6.069E-04	6.978E-04	6.524E-04	82	3.510	1.795E-05	4.929E-05	3.362E-05
34	0.775	5.837E-04	6.737E-04	6.287E-04	83	3.590	1.901E-05	4.957E-05	3.429E-05
35	0.810	7.299E-04	8.276E-04	7.787E-04	84	3.670	1.927E-05	4.801E-05	3.364E-05
36	0.850	1.075E-03	1.177E-03	1.126E-03	85	3.750	1.114E-06	2.707E-05	1.409E-05
37	0.890	1.062E-03	1.164E-03	1.113E-03	86	3.830	-1.262E-05	1.209E-05	-2.652E-07
38	0.930	1.063E-03	1.163E-03	1.113E-03	87	3.915	-1.515E-05	7.360E-06	-3.893E-06
39	0.970	7.873E-04	8.774E-04	8.323E-04	88	4.005	-6.646E-06	1.494E-05	4.149E-06
40	1.010	6.835E-04	7.721E-04	7.278E-04	89	4.095	-1.675E-06	1.927E-05	8.797E-06
41	1.050	6.175E-04	7.016E-04	6.595E-04	90	4.185	9.915E-06	2.998E-05	1.995E-05
42	1.090	5.563E-04	6.325E-04	5.944E-04	91	4.275	1.997E-05	4.088E-05	3.043E-05
43	1.130	3.722E-04	4.399E-04	4.061E-04	92	4.365	1.251E-05	3.131E-05	2.191E-05
44	1.170	2.827E-04	3.451E-04	3.139E-04	93	4.455	1.083E-06	1.809E-05	9.584E-06
45	1.210	3.245E-04	3.873E-04	3.559E-04	94	4.550	-4.783E-06	1.154E-05	3.377E-06
46	1.250	3.858E-04	4.716E-04	4.287E-04	95	4.650	-6.179E-06	9.336E-06	1.578E-06
47	1.295	4.064E-04	4.671E-04	4.368E-04	96	4.750	-9.075E-07	1.158E-05	5.339E-06
48	1.345	2.855E-04	3.473E-04	3.164E-04	97	4.850	4.679E-06	1.320E-05	8.941E-06
49	1.395	3.414E-04	4.061E-04	3.738E-04	98	4.950	6.230E-06	1.279E-05	9.508E-06



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>233</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 595 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-2.158E-04	3.009E-04	4.253E-05	50	1.445	2.027E-04	2.379E-04	2.203E-04
2	0.111	3.128E-04	5.586E-04	4.357E-04	51	1.495	1.693E-04	2.018E-04	1.855E-04
3	0.117	7.201E-04	1.705E-03	1.213E-03	52	1.545	1.181E-04	1.478E-04	1.329E-04
4	0.125	-1.519E-04	2.468E-04	4.742E-05	53	1.595	7.937E-05	1.091E-04	9.425E-05
5	0.135	-5.963E-04	1.222E-04	-2.371E-04	54	1.645	7.898E-05	1.087E-04	9.386E-05
6	0.145	9.396E-04	1.973E-03	1.456E-03	55	1.695	1.120E-04	1.422E-04	1.271E-04
7	0.155	-9.799E-05	4.065E-04	1.543E-04	56	1.745	1.147E-04	1.450E-04	1.298E-04
8	0.165	5.640E-04	8.316E-04	6.978E-04	57	1.800	6.976E-05	9.785E-05	8.381E-05
9	0.175	8.544E-04	1.274E-03	1.064E-03	58	1.860	1.621E-05	4.471E-05	3.046E-05
10	0.185	7.503E-04	9.338E-04	8.421E-04	59	1.920	7.033E-05	1.002E-04	8.525E-05
11	0.200	8.888E-04	1.001E-03	9.448E-04	60	1.980	3.289E-05	5.915E-05	4.602E-05
12	0.220	7.388E-04	8.513E-04	7.950E-04	61	2.040	6.373E-05	9.304E-05	7.838E-05
13	0.240	6.603E-04	7.528E-04	7.066E-04	62	2.100	6.516E-05	9.477E-05	7.997E-05
14	0.260	6.331E-04	7.118E-04	6.725E-04	63	2.160	2.155E-05	4.816E-05	3.486E-05
15	0.280	7.475E-04	8.221E-04	7.848E-04	64	2.220	7.945E-05	1.085E-04	9.398E-05
16	0.300	8.456E-04	9.178E-04	8.817E-04	65	2.280	8.840E-05	1.156E-04	1.020E-04
17	0.320	7.997E-04	8.699E-04	8.348E-04	66	2.340	5.437E-05	8.161E-05	6.799E-05
18	0.340	5.451E-04	6.103E-04	5.777E-04	67	2.405	1.735E-05	4.351E-05	3.043E-05
19	0.360	4.178E-04	4.815E-04	4.496E-04	68	2.475	1.937E-05	4.326E-05	3.131E-05
20	0.380	4.045E-04	4.676E-04	4.361E-04	69	2.545	5.977E-05	8.751E-05	7.364E-05
21	0.400	4.701E-04	5.370E-04	5.035E-04	70	2.615	1.236E-04	1.530E-04	1.383E-04
22	0.420	6.020E-04	6.689E-04	6.355E-04	71	2.685	5.773E-05	8.099E-05	6.936E-05
23	0.445	7.222E-04	7.883E-04	7.553E-04	72	2.755	-1.916E-05	2.916E-06	-8.124E-06
24	0.475	5.903E-04	6.517E-04	6.210E-04	73	2.825	-1.844E-05	6.491E-09	-9.218E-06
25	0.505	3.857E-04	4.425E-04	4.141E-04	74	2.895	6.181E-06	2.686E-05	1.652E-05
26	0.535	3.097E-04	3.641E-04	3.369E-04	75	2.965	5.211E-07	2.103E-05	1.077E-05
27	0.565	5.077E-04	5.659E-04	5.368E-04	76	3.035	-4.303E-06	1.436E-05	5.028E-06
28	0.595	5.990E-04	6.568E-04	6.279E-04	77	3.110	-1.230E-05	4.355E-06	-3.974E-06
29	0.625	3.814E-04	4.354E-04	4.084E-04	78	3.190	-4.970E-06	1.226E-05	3.642E-06
30	0.655	2.930E-04	3.438E-04	3.184E-04	79	3.270	2.377E-06	1.978E-05	1.108E-05
31	0.685	2.935E-04	3.444E-04	3.189E-04	80	3.350	9.457E-06	2.525E-05	1.735E-05
32	0.715	3.990E-04	4.510E-04	4.250E-04	81	3.430	1.877E-05	3.522E-05	2.700E-05
33	0.745	3.663E-04	4.175E-04	3.919E-04	82	3.510	6.946E-06	2.025E-05	1.360E-05
34	0.775	3.228E-04	3.728E-04	3.478E-04	83	3.590	9.649E-06	2.282E-05	1.623E-05
35	0.810	3.978E-04	4.521E-04	4.249E-04	84	3.670	9.405E-06	2.075E-05	1.508E-05
36	0.850	6.573E-04	7.161E-04	6.867E-04	85	3.750	6.406E-06	1.712E-05	1.176E-05
37	0.890	7.847E-04	8.453E-04	8.150E-04	86	3.830	6.194E-07	9.897E-06	5.258E-06
38	0.930	7.774E-04	8.365E-04	8.069E-04	87	3.915	-3.830E-06	5.207E-06	6.885E-07
39	0.970	6.145E-04	6.686E-04	6.415E-04	88	4.005	9.753E-07	9.614E-06	5.295E-06
40	1.010	4.941E-04	5.465E-04	5.203E-04	89	4.095	2.847E-06	1.101E-05	6.931E-06
41	1.050	5.170E-04	5.674E-04	5.422E-04	90	4.185	2.059E-06	9.368E-06	5.713E-06
42	1.090	3.929E-04	4.371E-04	4.150E-04	91	4.275	1.756E-06	9.318E-06	5.537E-06
43	1.130	2.683E-04	3.075E-04	2.879E-04	92	4.365	1.084E-06	8.478E-06	4.781E-06
44	1.170	2.631E-04	3.013E-04	2.822E-04	93	4.455	-2.881E-07	6.322E-06	3.017E-06
45	1.210	2.607E-04	2.977E-04	2.792E-04	94	4.550	-3.776E-06	2.539E-06	-6.186E-07
46	1.250	3.394E-04	3.904E-04	3.649E-04	95	4.650	-5.389E-06	1.108E-06	-2.141E-06
47	1.295	3.214E-04	3.570E-04	3.392E-04	96	4.750	-2.568E-06	2.702E-06	6.718E-08
48	1.345	2.156E-04	2.502E-04	2.329E-04	97	4.850	8.654E-07	4.263E-06	2.564E-06
49	1.395	1.919E-04	2.266E-04	2.092E-04	98	4.950	2.251E-06	4.951E-06	3.601E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 995 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-7.596E-05	2.381E-04	8.107E-05	50	1.445	1.561E-04	1.765E-04	1.663E-04
2	0.111	6.094E-05	2.073E-04	1.341E-04	51	1.495	1.184E-04	1.370E-04	1.277E-04
3	0.117	1.783E-04	7.840E-04	4.812E-04	52	1.545	8.227E-05	9.905E-05	9.066E-05
4	0.125	3.905E-05	2.786E-04	1.588E-04	53	1.595	4.755E-05	6.394E-05	5.575E-05
5	0.135	-1.814E-04	2.774E-04	4.796E-05	54	1.645	4.462E-05	6.083E-05	5.273E-05
6	0.145	4.589E-04	1.116E-03	7.876E-04	55	1.695	5.980E-05	7.609E-05	6.794E-05
7	0.155	7.807E-05	4.017E-04	2.399E-04	56	1.745	6.789E-05	8.502E-05	7.646E-05
8	0.165	4.036E-04	5.506E-04	4.771E-04	57	1.800	6.552E-05	8.220E-05	7.386E-05
9	0.175	5.354E-04	7.688E-04	6.521E-04	58	1.860	2.167E-05	3.703E-05	2.935E-05
10	0.185	5.111E-04	6.124E-04	5.617E-04	59	1.920	3.893E-05	5.562E-05	4.728E-05
11	0.200	6.023E-04	6.630E-04	6.326E-04	60	1.980	3.907E-05	5.463E-05	4.685E-05
12	0.220	4.365E-04	4.960E-04	4.663E-04	61	2.040	3.664E-05	5.286E-05	4.475E-05
13	0.240	3.387E-04	3.874E-04	3.630E-04	62	2.100	5.208E-05	6.869E-05	6.039E-05
14	0.260	3.225E-04	3.645E-04	3.435E-04	63	2.160	1.349E-05	2.772E-05	2.060E-05
15	0.280	4.934E-04	5.350E-04	5.142E-04	64	2.220	5.036E-05	6.534E-05	5.785E-05
16	0.300	6.334E-04	6.748E-04	6.541E-04	65	2.280	6.047E-05	7.703E-05	6.875E-05
17	0.320	5.833E-04	6.235E-04	6.034E-04	66	2.340	3.576E-05	4.978E-05	4.277E-05
18	0.340	3.729E-04	4.094E-04	3.912E-04	67	2.405	1.741E-05	3.710E-05	2.725E-05
19	0.360	2.622E-04	2.971E-04	2.797E-04	68	2.475	2.089E-05	3.400E-05	2.745E-05
20	0.380	2.305E-04	2.648E-04	2.477E-04	69	2.545	7.174E-05	8.656E-05	7.915E-05
21	0.400	2.777E-04	3.141E-04	2.959E-04	70	2.615	7.689E-05	9.021E-05	8.355E-05
22	0.420	3.426E-04	3.789E-04	3.608E-04	71	2.685	1.212E-05	2.098E-05	1.655E-05
23	0.445	4.333E-04	4.694E-04	4.514E-04	72	2.755	-1.711E-05	-2.851E-06	-9.979E-06
24	0.475	3.549E-04	3.885E-04	3.717E-04	73	2.825	-1.197E-05	-2.081E-06	-7.027E-06
25	0.505	2.433E-04	2.748E-04	2.590E-04	74	2.895	-4.191E-06	3.820E-06	-1.851E-07
26	0.535	2.611E-04	2.923E-04	2.767E-04	75	2.965	1.500E-06	9.870E-06	5.685E-06
27	0.565	3.113E-04	3.432E-04	3.272E-04	76	3.035	-3.189E-06	4.569E-06	6.900E-07
28	0.595	3.149E-04	3.460E-04	3.305E-04	77	3.110	-4.053E-06	3.237E-06	-4.080E-07
29	0.625	2.194E-04	2.491E-04	2.342E-04	78	3.190	-1.033E-06	6.544E-06	2.756E-06
30	0.655	2.355E-04	2.646E-04	2.500E-04	79	3.270	-7.627E-07	6.298E-06	2.768E-06
31	0.685	1.644E-04	1.919E-04	1.782E-04	80	3.350	2.524E-06	9.058E-06	5.791E-06
32	0.715	2.004E-04	2.281E-04	2.142E-04	81	3.430	1.935E-06	8.331E-06	5.133E-06
33	0.745	1.785E-04	2.059E-04	1.922E-04	82	3.510	2.653E-06	8.144E-06	5.398E-06
34	0.775	1.888E-04	2.161E-04	2.025E-04	83	3.590	5.133E-06	1.050E-05	7.815E-06
35	0.810	2.023E-04	2.313E-04	2.168E-04	84	3.670	5.476E-06	1.095E-05	8.215E-06
36	0.850	3.711E-04	4.031E-04	3.871E-04	85	3.750	3.357E-06	7.994E-06	5.676E-06
37	0.890	4.825E-04	5.165E-04	4.995E-04	86	3.830	2.086E-07	5.164E-06	2.686E-06
38	0.930	5.584E-04	5.925E-04	5.754E-04	87	3.915	3.137E-07	4.286E-06	2.300E-06
39	0.970	4.133E-04	4.440E-04	4.286E-04	88	4.005	3.528E-09	3.943E-06	1.973E-06
40	1.010	3.312E-04	3.607E-04	3.460E-04	89	4.095	-1.113E-07	3.091E-06	1.490E-06
41	1.050	3.454E-04	3.738E-04	3.596E-04	90	4.185	-6.114E-07	2.682E-06	1.035E-06
42	1.090	2.473E-04	2.718E-04	2.596E-04	91	4.275	-1.513E-06	2.156E-06	3.220E-07
43	1.130	1.591E-04	1.802E-04	1.696E-04	92	4.365	-1.947E-06	1.757E-06	-9.529E-08
44	1.170	1.319E-04	1.523E-04	1.421E-04	93	4.455	-2.317E-06	9.062E-07	-7.056E-07
45	1.210	1.359E-04	1.559E-04	1.459E-04	94	4.550	-2.234E-06	4.701E-07	-8.822E-07
46	1.250	2.084E-04	2.367E-04	2.226E-04	95	4.650	-1.365E-06	1.372E-06	3.930E-09
47	1.295	2.085E-04	2.284E-04	2.184E-04	96	4.750	-4.215E-07	2.084E-06	8.312E-07
48	1.345	1.200E-04	1.389E-04	1.295E-04	97	4.850	4.365E-07	2.091E-06	1.264E-06
49	1.395	1.143E-04	1.336E-04	1.240E-04	98	4.950	7.901E-07	1.852E-06	1.321E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1795 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.938E-05	2.591E-04	1.643E-04	50	1.445	1.244E-04	1.418E-04	1.331E-04
2	0.111	-7.450E-05	1.492E-05	-2.979E-05	51	1.495	1.126E-04	1.286E-04	1.206E-04
3	0.117	-2.347E-04	1.357E-04	-4.950E-05	52	1.545	4.536E-05	5.804E-05	5.170E-05
4	0.125	1.207E-04	2.621E-04	1.914E-04	53	1.595	2.007E-05	3.210E-05	2.609E-05
5	0.135	7.590E-05	3.764E-04	2.261E-04	54	1.645	1.994E-05	3.261E-05	2.627E-05
6	0.145	-1.176E-05	4.176E-04	2.029E-04	55	1.695	2.503E-05	3.683E-05	3.093E-05
7	0.155	2.101E-04	4.204E-04	3.153E-04	56	1.745	4.095E-05	5.437E-05	4.766E-05
8	0.165	2.701E-04	3.832E-04	3.266E-04	57	1.800	3.399E-05	4.663E-05	4.031E-05
9	0.175	2.733E-04	4.497E-04	3.615E-04	58	1.860	1.885E-05	3.112E-05	2.499E-05
10	0.185	2.927E-04	3.701E-04	3.314E-04	59	1.920	3.793E-05	5.231E-05	4.512E-05
11	0.200	3.214E-04	3.684E-04	3.449E-04	60	1.980	8.831E-06	1.965E-05	1.424E-05
12	0.220	2.545E-04	3.010E-04	2.778E-04	61	2.040	-3.810E-06	7.768E-06	1.979E-06
13	0.240	1.802E-04	2.181E-04	1.991E-04	62	2.100	2.307E-05	3.643E-05	2.975E-05
14	0.260	1.788E-04	2.118E-04	1.953E-04	63	2.160	9.050E-07	1.293E-05	6.918E-06
15	0.280	2.975E-04	3.303E-04	3.139E-04	64	2.220	1.969E-05	3.143E-05	2.556E-05
16	0.300	3.953E-04	4.282E-04	4.117E-04	65	2.280	2.957E-05	4.232E-05	3.594E-05
17	0.320	3.541E-04	3.856E-04	3.698E-04	66	2.340	1.151E-05	2.262E-05	1.707E-05
18	0.340	2.197E-04	2.483E-04	2.340E-04	67	2.405	-6.682E-06	1.553E-05	4.423E-06
19	0.360	1.586E-04	1.861E-04	1.723E-04	68	2.475	1.183E-05	2.287E-05	1.735E-05
20	0.380	1.565E-04	1.836E-04	1.701E-04	69	2.545	4.555E-05	5.882E-05	5.219E-05
21	0.400	1.699E-04	1.983E-04	1.841E-04	70	2.615	6.395E-05	7.613E-05	7.004E-05
22	0.420	1.865E-04	2.146E-04	2.005E-04	71	2.685	2.302E-05	3.208E-05	2.755E-05
23	0.445	2.769E-04	3.054E-04	2.911E-04	72	2.755	-8.068E-06	2.172E-06	-2.948E-06
24	0.475	1.968E-04	2.230E-04	2.099E-04	73	2.825	-8.436E-06	-3.977E-07	-4.417E-06
25	0.505	1.593E-04	1.841E-04	1.717E-04	74	2.895	-4.898E-06	9.945E-07	-1.952E-06
26	0.535	1.530E-04	1.770E-04	1.650E-04	75	2.965	-4.798E-06	9.956E-07	-1.901E-06
27	0.565	1.620E-04	1.858E-04	1.739E-04	76	3.035	-5.694E-06	-1.075E-07	-2.901E-06
28	0.595	1.070E-04	1.291E-04	1.180E-04	77	3.110	-6.483E-06	-2.788E-07	-3.381E-06
29	0.625	9.760E-05	1.199E-04	1.088E-04	78	3.190	-3.666E-06	2.625E-06	-5.203E-07
30	0.655	1.598E-04	1.831E-04	1.715E-04	79	3.270	1.052E-06	7.108E-06	4.080E-06
31	0.685	1.246E-04	1.469E-04	1.358E-04	80	3.350	1.473E-06	6.466E-06	3.970E-06
32	0.715	1.209E-04	1.426E-04	1.317E-04	81	3.430	4.565E-07	7.138E-06	3.797E-06
33	0.745	1.269E-04	1.487E-04	1.378E-04	82	3.510	2.224E-06	6.619E-06	4.422E-06
34	0.775	1.161E-04	1.373E-04	1.267E-04	83	3.590	3.128E-06	7.371E-06	5.249E-06
35	0.810	1.094E-04	1.316E-04	1.205E-04	84	3.670	3.808E-06	8.268E-06	6.038E-06
36	0.850	1.998E-04	2.243E-04	2.120E-04	85	3.750	2.217E-06	5.634E-06	3.925E-06
37	0.890	2.835E-04	3.099E-04	2.967E-04	86	3.830	2.880E-07	3.349E-06	1.818E-06
38	0.930	3.130E-04	3.391E-04	3.260E-04	87	3.915	-3.343E-07	2.559E-06	1.112E-06
39	0.970	2.322E-04	2.558E-04	2.440E-04	88	4.005	-1.065E-06	2.029E-06	4.820E-07
40	1.010	1.956E-04	2.187E-04	2.071E-04	89	4.095	-1.901E-06	1.335E-06	-2.829E-07
41	1.050	2.083E-04	2.305E-04	2.194E-04	90	4.185	-2.389E-06	7.245E-07	-8.324E-07
42	1.090	1.371E-04	1.560E-04	1.466E-04	91	4.275	-2.660E-06	3.809E-07	-1.140E-06
43	1.130	9.124E-05	1.079E-04	9.960E-05	92	4.365	-2.200E-06	4.603E-07	-8.700E-07
44	1.170	7.692E-05	9.287E-05	8.489E-05	93	4.455	-1.373E-06	1.187E-06	-9.305E-08
45	1.210	8.733E-05	1.030E-04	9.518E-05	94	4.550	-6.402E-07	2.131E-06	7.455E-07
46	1.250	1.110E-04	1.320E-04	1.215E-04	95	4.650	1.932E-08	2.315E-06	1.167E-06
47	1.295	7.871E-05	9.269E-05	8.570E-05	96	4.750	2.310E-07	1.838E-06	1.035E-06
48	1.345	4.520E-05	5.935E-05	5.228E-05	97	4.850	3.023E-07	1.208E-06	7.550E-07
49	1.395	7.900E-05	9.597E-05	8.748E-05	98	4.950	3.553E-07	8.589E-07	6.071E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2695 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.124E-04	2.486E-04	1.805E-04	50	1.445	1.101E-04	1.238E-04	1.170E-04
2	0.111	-5.847E-05	7.766E-06	-2.535E-05	51	1.495	7.725E-05	8.903E-05	8.314E-05
3	0.117	-2.217E-04	4.208E-05	-8.980E-05	52	1.545	4.563E-05	5.579E-05	5.071E-05
4	0.125	1.319E-04	2.350E-04	1.834E-04	53	1.595	1.886E-05	2.749E-05	2.318E-05
5	0.135	1.053E-04	3.135E-04	2.094E-04	54	1.645	1.400E-05	2.268E-05	1.834E-05
6	0.145	-6.702E-05	2.306E-04	8.177E-05	55	1.695	1.629E-05	2.461E-05	2.045E-05
7	0.155	1.709E-04	3.167E-04	2.438E-04	56	1.745	1.610E-05	2.547E-05	2.079E-05
8	0.165	1.757E-04	2.548E-04	2.153E-04	57	1.800	1.103E-05	1.950E-05	1.526E-05
9	0.175	1.728E-04	2.954E-04	2.341E-04	58	1.860	2.597E-06	1.108E-05	6.840E-06
10	0.185	2.032E-04	2.572E-04	2.302E-04	59	1.920	4.211E-06	1.353E-05	8.871E-06
11	0.200	2.364E-04	2.692E-04	2.528E-04	60	1.980	9.281E-07	9.042E-06	4.985E-06
12	0.220	1.542E-04	1.853E-04	1.697E-04	61	2.040	-4.589E-06	4.241E-06	-1.737E-07
13	0.240	6.034E-05	8.543E-05	7.289E-05	62	2.100	7.454E-06	1.688E-05	1.217E-05
14	0.260	7.054E-05	9.298E-05	8.176E-05	63	2.160	-1.417E-06	7.874E-06	3.228E-06
15	0.280	1.753E-04	1.986E-04	1.869E-04	64	2.220	9.078E-06	1.803E-05	1.355E-05
16	0.300	2.606E-04	2.844E-04	2.725E-04	65	2.280	1.300E-05	2.328E-05	1.814E-05
17	0.320	2.296E-04	2.525E-04	2.410E-04	66	2.340	5.597E-06	1.547E-05	1.053E-05
18	0.340	1.240E-04	1.441E-04	1.340E-04	67	2.405	1.198E-05	2.704E-05	1.951E-05
19	0.360	6.926E-05	8.830E-05	7.878E-05	68	2.475	4.243E-06	1.367E-05	8.956E-06
20	0.380	7.726E-05	9.644E-05	8.685E-05	69	2.545	3.665E-05	4.695E-05	4.180E-05
21	0.400	1.082E-04	1.291E-04	1.186E-04	70	2.615	3.777E-05	4.779E-05	4.278E-05
22	0.420	1.238E-04	1.445E-04	1.341E-04	71	2.685	5.083E-06	1.371E-05	9.396E-06
23	0.445	1.726E-04	1.937E-04	1.831E-04	72	2.755	2.180E-06	1.009E-05	6.134E-06
24	0.475	1.612E-04	1.810E-04	1.711E-04	73	2.825	-3.704E-07	8.575E-06	4.102E-06
25	0.505	8.924E-05	1.074E-04	9.831E-05	74	2.895	-2.501E-06	3.984E-06	7.416E-07
26	0.535	1.311E-04	1.495E-04	1.403E-04	75	2.965	-2.508E-06	3.666E-06	5.791E-07
27	0.565	1.093E-04	1.268E-04	1.180E-04	76	3.035	-4.643E-06	2.337E-06	-1.153E-06
28	0.595	6.957E-05	8.576E-05	7.766E-05	77	3.110	-4.847E-06	1.522E-06	-1.663E-06
29	0.625	6.420E-05	8.057E-05	7.239E-05	78	3.190	-4.525E-06	2.194E-06	-1.165E-06
30	0.655	9.856E-05	1.154E-04	1.070E-04	79	3.270	-3.712E-06	3.414E-06	-1.491E-07
31	0.685	6.737E-05	8.341E-05	7.539E-05	80	3.350	-1.851E-06	4.235E-06	1.192E-06
32	0.715	9.230E-05	1.085E-04	1.004E-04	81	3.430	-7.126E-07	4.320E-06	1.804E-06
33	0.745	8.958E-05	1.057E-04	9.765E-05	82	3.510	3.534E-07	4.940E-06	2.647E-06
34	0.775	7.224E-05	8.757E-05	7.990E-05	83	3.590	2.346E-07	4.990E-06	2.612E-06
35	0.810	7.845E-05	9.500E-05	8.673E-05	84	3.670	5.787E-08	4.782E-06	2.420E-06
36	0.850	1.420E-04	1.604E-04	1.512E-04	85	3.750	8.145E-08	4.515E-06	2.298E-06
37	0.890	2.156E-04	2.355E-04	2.255E-04	86	3.830	-7.580E-07	3.909E-06	1.576E-06
38	0.930	2.201E-04	2.396E-04	2.298E-04	87	3.915	-1.531E-06	3.640E-06	1.055E-06
39	0.970	1.519E-04	1.689E-04	1.604E-04	88	4.005	-1.551E-06	4.845E-06	1.647E-06
40	1.010	1.216E-04	1.382E-04	1.299E-04	89	4.095	-5.883E-07	5.947E-06	2.680E-06
41	1.050	1.127E-04	1.283E-04	1.205E-04	90	4.185	-1.071E-06	6.461E-06	2.695E-06
42	1.090	8.716E-05	1.010E-04	9.407E-05	91	4.275	-3.197E-06	5.326E-06	1.064E-06
43	1.130	5.700E-05	6.921E-05	6.311E-05	92	4.365	-5.859E-06	2.845E-06	-1.507E-06
44	1.170	4.820E-05	5.974E-05	5.397E-05	93	4.455	-8.275E-06	2.158E-08	-4.127E-06
45	1.210	4.816E-05	5.920E-05	5.368E-05	94	4.550	-9.419E-06	-7.592E-07	-5.089E-06
46	1.250	4.854E-05	6.310E-05	5.582E-05	95	4.650	-7.455E-06	1.414E-06	-3.020E-06
47	1.295	4.748E-05	5.759E-05	5.253E-05	96	4.750	-3.621E-06	4.141E-06	2.600E-07
48	1.345	3.671E-05	4.784E-05	4.228E-05	97	4.850	2.955E-07	5.442E-06	2.869E-06
49	1.395	7.124E-05	8.416E-05	7.770E-05	98	4.950	1.515E-06	5.927E-06	3.721E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3795 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.206E-05	1.670E-04	1.246E-04	50	1.445	6.911E-05	7.955E-05	7.433E-05
2	0.111	-8.458E-05	-4.256E-05	-6.357E-05	51	1.495	5.558E-05	6.489E-05	6.024E-05
3	0.117	-2.384E-04	-6.932E-05	-1.539E-04	52	1.545	3.585E-05	4.366E-05	3.975E-05
4	0.125	9.955E-05	1.629E-04	1.312E-04	53	1.595	1.734E-05	2.532E-05	2.133E-05
5	0.135	1.294E-04	2.806E-04	2.050E-04	54	1.645	1.754E-05	2.533E-05	2.143E-05
6	0.145	-1.049E-04	1.105E-04	2.795E-06	55	1.695	1.112E-05	1.817E-05	1.465E-05
7	0.155	1.759E-04	2.814E-04	2.287E-04	56	1.745	5.917E-06	1.264E-05	9.280E-06
8	0.165	1.404E-04	2.012E-04	1.708E-04	57	1.800	1.018E-05	1.725E-05	1.372E-05
9	0.175	9.359E-05	1.874E-04	1.405E-04	58	1.860	1.054E-05	1.831E-05	1.442E-05
10	0.185	1.163E-04	1.577E-04	1.370E-04	59	1.920	6.080E-06	1.365E-05	9.864E-06
11	0.200	1.155E-04	1.407E-04	1.281E-04	60	1.980	4.343E-06	1.226E-05	8.300E-06
12	0.220	1.050E-04	1.303E-04	1.176E-04	61	2.040	-6.856E-06	1.005E-07	-3.378E-06
13	0.240	8.172E-05	1.023E-04	9.201E-05	62	2.100	-4.641E-06	3.506E-06	-5.673E-07
14	0.260	6.301E-05	8.029E-05	7.165E-05	63	2.160	-1.741E-06	7.448E-06	2.854E-06
15	0.280	9.583E-05	1.127E-04	1.043E-04	64	2.220	5.859E-07	1.155E-05	6.070E-06
16	0.300	1.442E-04	1.612E-04	1.527E-04	65	2.280	-1.536E-06	6.233E-06	2.348E-06
17	0.320	1.190E-04	1.352E-04	1.271E-04	66	2.340	7.465E-06	1.887E-05	1.317E-05
18	0.340	6.486E-05	7.943E-05	7.215E-05	67	2.405	-1.144E-06	1.164E-05	5.247E-06
19	0.360	3.554E-05	4.969E-05	4.261E-05	68	2.475	1.077E-07	8.086E-06	4.097E-06
20	0.380	5.204E-05	6.678E-05	5.941E-05	69	2.545	1.858E-05	2.744E-05	2.301E-05
21	0.400	9.739E-05	1.141E-04	1.057E-04	70	2.615	2.226E-05	3.072E-05	2.649E-05
22	0.420	1.096E-04	1.259E-04	1.177E-04	71	2.685	1.261E-05	3.307E-05	2.284E-05
23	0.445	1.196E-04	1.354E-04	1.275E-04	72	2.755	8.974E-06	1.858E-05	1.378E-05
24	0.475	9.744E-05	1.122E-04	1.048E-04	73	2.825	-9.886E-07	6.219E-06	2.615E-06
25	0.505	6.051E-05	7.425E-05	6.738E-05	74	2.895	-1.578E-06	3.053E-06	7.375E-07
26	0.535	8.659E-05	1.004E-04	9.347E-05	75	2.965	-1.084E-06	3.654E-06	1.285E-06
27	0.565	6.867E-05	8.181E-05	7.524E-05	76	3.035	-2.754E-06	1.195E-06	-7.793E-07
28	0.595	4.541E-05	5.755E-05	5.148E-05	77	3.110	-4.178E-06	2.395E-06	-8.915E-07
29	0.625	2.795E-05	3.990E-05	3.393E-05	78	3.190	-8.847E-07	4.166E-06	1.640E-06
30	0.655	7.335E-05	8.621E-05	7.978E-05	79	3.270	5.415E-08	3.760E-06	1.907E-06
31	0.685	4.736E-05	5.945E-05	5.340E-05	80	3.350	-1.304E-06	1.988E-06	3.423E-07
32	0.715	4.587E-05	5.755E-05	5.171E-05	81	3.430	-1.546E-06	1.643E-06	4.876E-08
33	0.745	5.985E-05	7.230E-05	6.608E-05	82	3.510	-9.440E-07	1.823E-06	4.394E-07
34	0.775	7.114E-05	8.344E-05	7.729E-05	83	3.590	-1.710E-07	2.460E-06	1.145E-06
35	0.810	5.943E-05	7.233E-05	6.588E-05	84	3.670	5.133E-07	3.349E-06	1.931E-06
36	0.850	1.091E-04	1.233E-04	1.162E-04	85	3.750	1.113E-07	2.970E-06	1.540E-06
37	0.890	1.573E-04	1.726E-04	1.649E-04	86	3.830	-6.033E-07	2.297E-06	8.470E-07
38	0.930	1.412E-04	1.556E-04	1.484E-04	87	3.915	-6.984E-07	2.366E-06	8.336E-07
39	0.970	9.355E-05	1.063E-04	9.990E-05	88	4.005	-9.718E-07	2.222E-06	6.250E-07
40	1.010	8.434E-05	9.673E-05	9.053E-05	89	4.095	-1.123E-06	2.008E-06	4.425E-07
41	1.050	7.297E-05	8.439E-05	7.868E-05	90	4.185	-1.179E-06	2.102E-06	4.613E-07
42	1.090	5.244E-05	6.275E-05	5.760E-05	91	4.275	-1.512E-06	1.982E-06	2.349E-07
43	1.130	3.169E-05	4.081E-05	3.625E-05	92	4.365	-2.087E-06	1.648E-06	-2.193E-07
44	1.170	3.937E-05	4.864E-05	4.400E-05	93	4.455	-2.589E-06	8.764E-07	-8.563E-07
45	1.210	3.125E-05	3.946E-05	3.535E-05	94	4.550	-2.846E-06	3.827E-07	-1.231E-06
46	1.250	2.321E-05	3.322E-05	2.821E-05	95	4.650	-2.382E-06	8.902E-07	-7.459E-07
47	1.295	1.282E-05	1.972E-05	1.627E-05	96	4.750	-1.277E-06	1.633E-06	1.784E-07
48	1.345	1.428E-05	2.263E-05	1.845E-05	97	4.850	7.641E-08	2.001E-06	1.039E-06
49	1.395	5.235E-05	6.249E-05	5.742E-05	98	4.950	7.314E-07	2.060E-06	1.396E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>233</sup>U BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 150 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.358E-03	-2.893E-04	-8.237E-04	50	1.445	1.103E-03	1.153E-03	1.128E-03
2	0.111	1.736E-03	2.348E-03	2.042E-03	51	1.495	7.864E-04	8.299E-04	8.082E-04
3	0.117	5.392E-03	7.251E-03	6.321E-03	52	1.545	5.444E-04	5.837E-04	5.640E-04
4	0.125	-1.292E-03	-3.148E-04	-8.034E-04	53	1.595	4.122E-04	4.516E-04	4.319E-04
5	0.135	-2.869E-03	-1.391E-03	-2.130E-03	54	1.645	3.455E-04	3.830E-04	3.643E-04
6	0.145	5.101E-03	7.068E-03	6.084E-03	55	1.695	3.877E-04	4.250E-04	4.063E-04
7	0.155	-1.397E-03	-3.899E-04	-8.934E-04	56	1.745	3.540E-04	3.919E-04	3.730E-04
8	0.165	1.296E-03	1.647E-03	1.471E-03	57	1.800	2.816E-04	3.184E-04	3.000E-04
9	0.175	2.380E-03	2.956E-03	2.668E-03	58	1.860	2.257E-04	2.636E-04	2.446E-04
10	0.185	1.751E-03	1.999E-03	1.875E-03	59	1.920	2.300E-04	2.678E-04	2.489E-04
11	0.200	2.153E-03	2.295E-03	2.224E-03	60	1.980	2.558E-04	2.907E-04	2.733E-04
12	0.220	1.722E-03	1.855E-03	1.788E-03	61	2.040	2.677E-04	3.039E-04	2.858E-04
13	0.240	1.560E-03	1.668E-03	1.614E-03	62	2.100	2.154E-04	2.511E-04	2.333E-04
14	0.260	1.601E-03	1.694E-03	1.648E-03	63	2.160	1.930E-04	2.284E-04	2.107E-04
15	0.280	1.757E-03	1.843E-03	1.800E-03	64	2.220	2.023E-04	2.368E-04	2.195E-04
16	0.300	1.683E-03	1.762E-03	1.723E-03	65	2.280	1.865E-04	2.211E-04	2.038E-04
17	0.320	1.442E-03	1.516E-03	1.479E-03	66	2.340	1.312E-04	1.671E-04	1.491E-04
18	0.340	1.310E-03	1.384E-03	1.347E-03	67	2.405	9.885E-05	1.377E-04	1.183E-04
19	0.360	1.373E-03	1.448E-03	1.411E-03	68	2.475	1.107E-04	1.480E-04	1.293E-04
20	0.380	1.535E-03	1.611E-03	1.573E-03	69	2.545	1.467E-04	1.826E-04	1.647E-04
21	0.400	1.816E-03	1.896E-03	1.856E-03	70	2.615	2.044E-04	2.418E-04	2.231E-04
22	0.420	1.836E-03	1.913E-03	1.874E-03	71	2.685	1.338E-04	1.701E-04	1.519E-04
23	0.445	1.792E-03	1.866E-03	1.829E-03	72	2.755	1.093E-04	1.435E-04	1.264E-04
24	0.475	1.389E-03	1.457E-03	1.423E-03	73	2.825	1.113E-04	1.478E-04	1.296E-04
25	0.505	1.049E-03	1.114E-03	1.081E-03	74	2.895	9.311E-05	1.294E-04	1.112E-04
26	0.535	1.063E-03	1.127E-03	1.095E-03	75	2.965	7.288E-05	1.086E-04	9.073E-05
27	0.565	1.607E-03	1.675E-03	1.641E-03	76	3.035	2.548E-05	6.118E-05	4.333E-05
28	0.595	1.897E-03	1.965E-03	1.931E-03	77	3.110	4.490E-06	3.706E-05	2.077E-05
29	0.625	1.236E-03	1.299E-03	1.267E-03	78	3.190	3.177E-06	3.848E-05	2.083E-05
30	0.655	8.542E-04	9.128E-04	8.835E-04	79	3.270	-2.430E-06	3.085E-05	1.421E-05
31	0.685	1.049E-03	1.109E-03	1.079E-03	80	3.350	4.374E-05	7.699E-05	6.037E-05
32	0.715	1.387E-03	1.449E-03	1.418E-03	81	3.430	8.757E-05	1.168E-04	1.022E-04
33	0.745	1.171E-03	1.231E-03	1.201E-03	82	3.510	8.349E-05	1.102E-04	9.683E-05
34	0.775	1.049E-03	1.108E-03	1.079E-03	83	3.590	7.063E-05	9.636E-05	8.349E-05
35	0.810	1.432E-03	1.496E-03	1.464E-03	84	3.670	8.066E-05	1.052E-04	9.295E-05
36	0.850	1.932E-03	1.999E-03	1.966E-03	85	3.750	-6.113E-05	8.396E-05	7.254E-05
37	0.890	1.726E-03	1.791E-03	1.759E-03	86	3.830	2.879E-05	4.967E-05	3.923E-05
38	0.930	1.521E-03	1.583E-03	1.552E-03	87	3.915	1.566E-05	3.526E-05	2.546E-05
39	0.970	1.354E-03	1.414E-03	1.384E-03	88	4.005	1.775E-05	3.575E-05	2.675E-05
40	1.010	1.159E-03	1.218E-03	1.188E-03	89	4.095	3.516E-05	5.123E-05	4.320E-05
41	1.050	1.074E-03	1.130E-03	1.102E-03	90	4.185	5.591E-05	7.471E-05	6.531E-05
42	1.090	9.148E-04	9.668E-04	9.408E-04	91	4.275	5.363E-05	7.206E-05	6.284E-05
43	1.130	8.229E-04	8.717E-04	8.473E-04	92	4.365	3.418E-05	5.138E-05	4.278E-05
44	1.170	7.184E-04	7.643E-04	7.414E-04	93	4.455	1.585E-05	2.946E-05	2.266E-05
45	1.210	7.083E-04	7.524E-04	7.304E-04	94	4.550	-2.927E-06	1.226E-05	4.665E-06
46	1.250	7.575E-04	8.150E-04	7.863E-04	95	4.650	-3.174E-06	1.592E-05	6.372E-06
47	1.295	7.673E-04	8.097E-04	7.885E-04	96	4.750	1.253E-05	2.799E-05	2.026E-05
48	1.345	7.074E-04	7.527E-04	7.301E-04	97	4.850	-2.762E-05	3.588E-05	3.175E-05
49	1.395	8.973E-04	9.451E-04	9.212E-04	98	4.950	3.144E-05	3.779E-05	3.461E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 210 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.876E-03	-1.006E-03	-1.441E-03	50	1.445	7.519E-04	7.932E-04	7.725E-04
2	0.111	1.560E-03	2.040E-03	1.800E-03	51	1.495	5.385E-04	5.751E-04	5.568E-04
3	0.117	5.413E-03	6.954E-03	6.183E-03	52	1.545	3.771E-04	4.106E-04	3.939E-04
4	0.125	-1.519E-03	-7.525E-04	-1.136E-03	53	1.595	2.954E-04	3.289E-04	3.121E-04
5	0.135	-3.043E-03	-1.850E-03	-2.447E-03	54	1.645	2.432E-04	2.753E-04	2.592E-04
6	0.145	5.147E-03	6.755E-03	5.951E-03	55	1.695	2.703E-04	3.023E-04	2.863E-04
7	0.155	-1.598E-03	-7.808E-04	-1.190E-03	56	1.745	2.614E-04	2.941E-04	2.778E-04
8	0.165	1.072E-03	1.355E-03	1.213E-03	57	1.800	2.231E-04	2.551E-04	2.391E-04
9	0.175	2.089E-03	2.553E-03	2.321E-03	58	1.860	1.792E-04	2.118E-04	1.955E-04
10	0.185	1.402E-03	1.602E-03	1.502E-03	59	1.920	1.751E-04	2.079E-04	1.915E-04
11	0.200	1.720E-03	1.834E-03	1.777E-03	60	1.980	1.915E-04	2.213E-04	2.064E-04
12	0.220	1.375E-03	1.484E-03	1.430E-03	61	2.040	1.968E-04	2.280E-04	2.124E-04
13	0.240	1.313E-03	1.402E-03	1.357E-03	62	2.100	1.514E-04	1.820E-04	1.667E-04
14	0.260	1.331E-03	1.406E-03	1.369E-03	63	2.160	1.589E-04	1.898E-04	1.744E-04
15	0.280	1.434E-03	1.504E-03	1.469E-03	64	2.220	1.621E-04	1.920E-04	1.770E-04
16	0.300	1.381E-03	1.448E-03	1.414E-03	65	2.280	1.149E-04	1.437E-04	1.293E-04
17	0.320	1.195E-03	1.260E-03	1.227E-03	66	2.340	1.081E-04	1.392E-04	1.237E-04
18	0.340	1.032E-03	1.096E-03	1.064E-03	67	2.405	9.823E-05	1.314E-04	1.148E-04
19	0.360	9.956E-04	1.061E-03	1.028E-03	68	2.475	6.048E-05	9.152E-05	7.600E-05
20	0.380	1.063E-03	1.129E-03	1.096E-03	69	2.545	1.359E-04	1.670E-04	1.515E-04
21	0.400	1.297E-03	1.366E-03	1.331E-03	70	2.615	1.467E-04	1.784E-04	1.626E-04
22	0.420	1.456E-03	1.524E-03	1.490E-03	71	2.685	1.206E-04	1.510E-04	1.358E-04
23	0.445	1.529E-03	1.595E-03	1.562E-03	72	2.755	8.714E-05	1.158E-04	1.015E-04
24	0.475	1.151E-03	1.212E-03	1.181E-03	73	2.825	7.196E-05	1.020E-04	8.696E-05
25	0.505	7.867E-04	8.436E-04	8.151E-04	74	2.895	3.808E-05	6.705E-05	5.257E-05
26	0.535	7.327E-04	7.884E-04	7.605E-04	75	2.965	3.695E-05	6.618E-05	5.156E-05
27	0.565	1.271E-03	1.331E-03	1.301E-03	76	3.035	-4.479E-06	2.469E-05	1.011E-05
28	0.595	1.480E-03	1.540E-03	1.510E-03	77	3.110	1.161E-05	3.923E-05	2.542E-05
29	0.625	9.319E-04	9.869E-04	9.594E-04	78	3.190	-9.706E-06	1.824E-05	4.269E-06
30	0.655	6.304E-04	6.818E-04	6.561E-04	79	3.270	6.029E-06	3.380E-05	1.992E-05
31	0.685	8.312E-04	8.843E-04	8.577E-04	80	3.350	3.247E-05	5.899E-05	4.573E-05
32	0.715	1.110E-03	1.164E-03	1.137E-03	81	3.430	6.770E-05	9.122E-05	7.946E-05
33	0.745	1.001E-03	1.054E-03	1.028E-03	82	3.510	5.929E-05	8.169E-05	7.049E-05
34	0.775	8.365E-04	8.890E-04	8.628E-04	83	3.590	5.290E-05	7.371E-05	6.330E-05
35	0.810	1.155E-03	1.212E-03	1.184E-03	84	3.670	6.197E-05	8.189E-05	7.193E-05
36	0.850	1.654E-03	1.714E-03	1.684E-03	85	3.750	3.842E-05	5.651E-05	4.747E-05
37	0.890	1.469E-03	1.527E-03	1.498E-03	86	3.830	1.515E-05	3.226E-05	2.370E-05
38	0.930	1.348E-03	1.404E-03	1.376E-03	87	3.915	1.009E-07	1.577E-05	7.935E-06
39	0.970	1.131E-03	1.184E-03	1.157E-03	88	4.005	-3.450E-06	1.052E-05	3.534E-06
40	1.010	9.530E-04	1.004E-03	9.786E-04	89	4.095	1.914E-05	3.229E-05	2.572E-05
41	1.050	8.972E-04	9.462E-04	9.217E-04	90	4.185	4.324E-05	5.769E-05	5.047E-05
42	1.090	7.540E-04	7.995E-04	7.768E-04	91	4.275	4.766E-05	6.149E-05	5.458E-05
43	1.130	6.558E-04	6.981E-04	6.770E-04	92	4.365	3.493E-05	4.747E-05	4.120E-05
44	1.170	6.138E-04	6.540E-04	6.339E-04	93	4.455	1.688E-05	2.720E-05	2.204E-05
45	1.210	6.077E-04	6.463E-04	6.270E-04	94	4.550	-3.047E-06	7.905E-06	2.429E-06
46	1.250	6.001E-04	6.494E-04	6.247E-04	95	4.650	-9.917E-06	2.797E-06	-3.560E-06
47	1.295	5.821E-04	6.185E-04	6.003E-04	96	4.750	-1.456E-06	8.632E-06	3.588E-06
48	1.345	5.276E-04	5.659E-04	5.467E-04	97	4.850	1.295E-05	1.850E-05	1.573E-05
49	1.395	5.839E-04	6.237E-04	6.038E-04	98	4.950	2.085E-05	2.534E-05	2.309E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 750 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-9.409E-04	-6.443E-04	-7.926E-04	50	1.445	1.887E-04	2.000E-04	1.944E-04
2	0.111	5.147E-04	6.877E-04	6.012E-04	51	1.495	1.391E-04	1.494E-04	1.442E-04
3	0.117	2.292E-03	2.812E-03	2.552E-03	52	1.545	9.455E-05	1.040E-04	9.927E-05
4	0.125	-6.477E-04	-3.705E-04	-5.091E-04	53	1.595	6.912E-05	7.852E-05	7.382E-05
5	0.135	-1.412E-03	-9.487E-04	-1.180E-03	54	1.645	6.426E-05	7.341E-05	6.883E-05
6	0.145	2.439E-03	3.049E-03	2.744E-03	55	1.695	8.384E-05	9.325E-05	8.854E-05
7	0.155	-7.227E-04	-4.064E-04	-5.646E-04	56	1.745	9.080E-05	1.004E-04	9.562E-05
8	0.165	5.072E-04	6.174E-04	5.623E-04	57	1.800	8.095E-05	9.039E-05	8.567E-05
9	0.175	1.000E-03	1.180E-03	1.090E-03	58	1.860	6.728E-05	7.653E-05	7.190E-05
10	0.185	6.298E-04	7.075E-04	6.687E-04	59	1.920	5.816E-05	6.735E-05	6.275E-05
11	0.200	7.283E-04	7.726E-04	7.505E-04	60	1.980	6.045E-05	6.899E-05	6.472E-05
12	0.220	4.784E-04	5.201E-04	4.992E-04	61	2.040	7.621E-05	8.522E-05	8.072E-05
13	0.240	5.225E-04	5.577E-04	5.401E-04	62	2.100	5.363E-05	6.222E-05	5.792E-05
14	0.260	5.892E-04	6.201E-04	6.047E-04	63	2.160	4.584E-05	5.435E-05	5.010E-05
15	0.280	6.545E-04	6.837E-04	6.691E-04	64	2.220	7.139E-05	7.972E-05	7.556E-05
16	0.300	7.483E-04	7.766E-04	7.624E-04	65	2.280	6.658E-05	7.470E-05	7.064E-05
17	0.320	6.842E-04	7.099E-04	6.971E-04	66	2.340	3.330E-05	4.090E-05	3.710E-05
18	0.340	4.634E-04	4.849E-04	4.741E-04	67	2.405	2.288E-05	3.077E-05	2.682E-05
19	0.360	3.405E-04	3.609E-04	3.507E-04	68	2.475	2.270E-05	3.016E-05	2.643E-05
20	0.380	3.102E-04	3.303E-04	3.202E-04	69	2.545	4.585E-05	5.374E-05	4.980E-05
21	0.400	3.989E-04	4.203E-04	4.096E-04	70	2.615	6.914E-05	7.721E-05	7.317E-05
22	0.420	5.091E-04	5.305E-04	5.198E-04	71	2.685	3.415E-05	4.111E-05	3.763E-05
23	0.445	5.833E-04	6.043E-04	5.938E-04	72	2.755	5.980E-06	1.151E-05	8.747E-06
24	0.475	4.484E-04	4.677E-04	4.580E-04	73	2.825	8.269E-06	1.412E-05	1.119E-05
25	0.505	2.861E-04	3.041E-04	2.951E-04	74	2.895	6.833E-06	1.281E-05	9.823E-06
26	0.535	2.862E-04	3.039E-04	2.950E-04	75	2.965	5.851E-07	6.325E-06	3.455E-06
27	0.565	4.245E-04	4.433E-04	4.339E-04	76	3.035	-2.447E-06	3.356E-06	4.546E-07
28	0.595	4.769E-04	4.955E-04	4.862E-04	77	3.110	-9.488E-07	4.535E-06	1.793E-06
29	0.625	3.606E-04	3.784E-04	3.695E-04	78	3.190	1.526E-06	6.960E-06	4.243E-06
30	0.655	3.010E-04	3.178E-04	3.094E-04	79	3.270	2.044E-06	7.303E-06	4.673E-06
31	0.685	2.547E-04	2.711E-04	2.629E-04	80	3.350	3.774E-06	8.448E-06	6.111E-06
32	0.715	2.854E-04	3.017E-04	2.935E-04	81	3.430	9.837E-06	1.439E-05	1.211E-05
33	0.745	2.841E-04	3.003E-04	2.922E-04	82	3.510	8.634E-06	1.257E-05	1.060E-05
34	0.775	2.907E-04	3.071E-04	2.989E-04	83	3.590	1.129E-05	1.512E-05	1.320E-05
35	0.810	3.623E-04	3.799E-04	3.711E-04	84	3.670	1.400E-05	1.769E-05	1.584E-05
36	0.850	5.260E-04	5.447E-04	5.353E-04	85	3.750	8.285E-06	1.137E-05	9.825E-06
37	0.890	6.435E-04	6.631E-04	6.533E-04	86	3.830	1.710E-06	4.293E-06	3.001E-06
38	0.930	6.625E-04	6.816E-04	6.720E-04	87	3.915	9.094E-07	3.279E-06	2.094E-06
39	0.970	4.920E-04	5.095E-04	5.007E-04	88	4.005	1.180E-06	3.422E-06	2.301E-06
40	1.010	4.309E-04	4.478E-04	4.394E-04	89	4.095	1.303E-07	1.892E-06	1.011E-06
41	1.050	4.566E-04	4.729E-04	4.647E-04	90	4.185	2.154E-06	3.996E-06	3.075E-06
42	1.090	3.147E-04	3.287E-04	3.217E-04	91	4.275	3.868E-06	5.732E-06	4.800E-06
43	1.130	2.254E-04	2.380E-04	2.317E-04	92	4.365	3.170E-06	4.714E-06	3.942E-06
44	1.170	1.952E-04	2.073E-04	2.013E-04	93	4.455	1.687E-06	3.068E-06	2.378E-06
45	1.210	2.312E-04	2.432E-04	2.372E-04	94	4.550	4.285E-07	1.644E-06	1.036E-06
46	1.250	2.871E-04	3.029E-04	2.950E-04	95	4.650	-2.085E-07	9.822E-07	3.869E-07
47	1.295	2.412E-04	2.524E-04	2.468E-04	96	4.750	-6.184E-08	8.044E-07	3.713E-07
48	1.345	1.707E-04	1.817E-04	1.762E-04	97	4.850	4.176E-07	1.028E-06	7.230E-07
49	1.395	1.730E-04	1.843E-04	1.786E-04	98	4.950	7.321E-07	1.199E-06	9.656E-07



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 950 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-8.201E-04	-5.963E-04	-7.082E-04	50	1.445	1.661E-04	1.732E-04	1.696E-04
2	0.111	4.277E-04	5.618E-04	4.948E-04	51	1.495	1.185E-04	1.248E-04	1.216E-04
3	0.117	1.976E-03	2.352E-03	2.164E-03	52	1.545	8.189E-05	8.771E-05	8.480E-05
4	0.125	-5.568E-04	-3.421E-04	-4.495E-04	53	1.595	5.247E-05	5.814E-05	5.531E-05
5	0.135	-1.212E-03	-8.562E-04	-1.034E-03	54	1.645	5.177E-05	5.737E-05	5.457E-05
6	0.145	2.105E-03	2.574E-03	2.340E-03	55	1.695	5.971E-05	6.530E-05	6.250E-05
7	0.155	-6.387E-04	-3.956E-04	-5.171E-04	56	1.745	6.638E-05	7.220E-05	6.929E-05
8	0.165	3.926E-04	4.772E-04	4.349E-04	57	1.800	5.651E-05	6.211E-05	5.931E-05
9	0.175	8.202E-04	9.586E-04	8.894E-04	58	1.860	4.897E-05	5.457E-05	5.177E-05
10	0.185	4.751E-04	5.348E-04	5.050E-04	59	1.920	4.466E-05	5.021E-05	4.743E-05
11	0.200	5.658E-04	5.997E-04	5.828E-04	60	1.980	4.680E-05	5.202E-05	4.941E-05
12	0.220	3.533E-04	3.849E-04	3.691E-04	61	2.040	5.797E-05	6.339E-05	6.068E-05
13	0.240	3.846E-04	4.114E-04	3.980E-04	62	2.100	4.485E-05	5.017E-05	4.751E-05
14	0.260	4.405E-04	4.643E-04	4.524E-04	63	2.160	4.007E-05	4.529E-05	4.268E-05
15	0.280	5.337E-04	5.569E-04	5.453E-04	64	2.220	6.434E-05	6.947E-05	6.690E-05
16	0.300	6.475E-04	6.706E-04	6.591E-04	65	2.280	5.360E-05	5.843E-05	5.602E-05
17	0.320	5.841E-04	6.048E-04	5.944E-04	66	2.340	2.877E-05	3.332E-05	3.105E-05
18	0.340	3.665E-04	3.830E-04	3.747E-04	67	2.405	2.106E-05	2.573E-05	2.339E-05
19	0.360	2.583E-04	2.728E-04	2.655E-04	68	2.475	1.987E-05	2.421E-05	2.204E-05
20	0.380	2.441E-04	2.581E-04	2.511E-04	69	2.545	3.212E-05	3.672E-05	3.442E-05
21	0.400	2.918E-04	3.068E-04	2.993E-04	70	2.615	5.679E-05	6.162E-05	5.921E-05
22	0.420	3.654E-04	3.805E-04	3.729E-04	71	2.685	2.760E-05	3.160E-05	2.960E-05
23	0.445	4.453E-04	4.601E-04	4.527E-04	72	2.755	1.211E-06	4.076E-06	2.644E-06
24	0.475	3.463E-04	3.590E-04	3.526E-04	73	2.825	5.925E-06	9.138E-06	7.531E-06
25	0.505	2.342E-04	2.454E-04	2.398E-04	74	2.895	4.792E-06	8.107E-06	6.449E-06
26	0.535	2.372E-04	2.481E-04	2.426E-04	75	2.965	2.242E-06	5.441E-06	3.842E-06
27	0.565	3.148E-04	3.263E-04	3.205E-04	76	3.035	1.502E-06	4.736E-06	3.119E-06
28	0.595	3.384E-04	3.497E-04	3.441E-04	77	3.110	2.383E-06	5.487E-06	3.935E-06
29	0.625	2.776E-04	2.885E-04	2.830E-04	78	3.190	9.024E-07	3.816E-06	2.359E-06
30	0.655	2.454E-04	2.558E-04	2.506E-04	79	3.270	7.280E-07	3.393E-06	2.060E-06
31	0.685	1.866E-04	1.965E-04	1.916E-04	80	3.350	3.294E-06	5.812E-06	4.553E-06
32	0.715	1.949E-04	2.048E-04	1.998E-04	81	3.430	4.161E-06	6.375E-06	5.268E-06
33	0.745	2.152E-04	2.252E-04	2.202E-04	82	3.510	5.344E-06	7.459E-06	6.401E-06
34	0.775	2.176E-04	2.276E-04	2.226E-04	83	3.590	7.912E-06	9.870E-06	8.891E-06
35	0.810	2.533E-04	2.639E-04	2.586E-04	84	3.670	9.781E-06	1.169E-05	1.074E-05
36	0.850	3.869E-04	3.983E-04	3.926E-04	85	3.750	6.254E-06	7.835E-06	7.045E-06
37	0.890	5.069E-04	5.190E-04	5.130E-04	86	3.830	1.904E-06	3.087E-06	2.495E-06
38	0.930	5.545E-04	5.665E-04	5.605E-04	87	3.915	7.062E-07	1.771E-06	1.239E-06
39	0.970	3.974E-04	4.082E-04	4.028E-04	88	4.005	1.065E-06	2.026E-06	1.545E-06
40	1.010	3.516E-04	3.621E-04	3.568E-04	89	4.095	9.439E-07	1.784E-06	1.364E-06
41	1.050	3.777E-04	3.879E-04	3.828E-04	90	4.185	1.002E-06	1.754E-06	1.378E-06
42	1.090	2.454E-04	2.540E-04	2.497E-04	91	4.275	1.371E-06	2.173E-06	1.772E-06
43	1.130	1.613E-04	1.688E-04	1.650E-04	92	4.365	1.016E-06	1.669E-06	1.342E-06
44	1.170	1.471E-04	1.544E-04	1.508E-04	93	4.455	3.485E-07	9.219E-07	6.352E-07
45	1.210	1.702E-04	1.775E-04	1.739E-04	94	4.550	-3.357E-08	4.703E-07	2.183E-07
46	1.250	2.203E-04	2.300E-04	2.252E-04	95	4.650	-1.275E-07	3.827E-07	1.276E-07
47	1.295	1.954E-04	2.023E-04	1.988E-04	96	4.750	-2.560E-08	3.604E-07	1.674E-07
48	1.345	1.265E-04	1.332E-04	1.298E-04	97	4.850	1.417E-07	3.987E-07	2.702E-07
49	1.395	1.427E-04	1.497E-04	1.462E-04	98	4.950	2.513E-07	4.610E-07	3.562E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1350 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-5.337E-04	-3.628E-04	-4.483E-04	50	1.445	1.535E-04	1.600E-04	1.567E-04
2	0.111	2.696E-04	3.717E-04	3.206E-04	51	1.495	1.010E-04	1.066E-04	1.038E-04
3	0.117	1.300E-03	1.590E-03	1.445E-03	52	1.545	5.603E-05	6.093E-05	5.848E-05
4	0.125	-3.375E-04	-1.738E-04	-2.557E-04	53	1.595	3.781E-05	4.272E-05	4.027E-05
5	0.135	-8.053E-04	-5.303E-04	-6.678E-04	54	1.645	3.195E-05	3.666E-05	3.430E-05
6	0.145	1.448E-03	1.809E-03	1.628E-03	55	1.695	4.220E-05	4.702E-05	4.461E-05
7	0.155	-3.968E-04	-2.087E-04	-3.027E-04	56	1.745	4.829E-05	5.331E-05	5.080E-05
8	0.165	2.992E-04	3.630E-04	3.311E-04	57	1.800	4.307E-05	4.796E-05	4.552E-05
9	0.175	6.208E-04	7.253E-04	6.731E-04	58	1.860	3.844E-05	4.329E-05	4.086E-05
10	0.185	3.641E-04	4.092E-04	3.866E-04	59	1.920	3.053E-05	3.527E-05	3.290E-05
11	0.200	4.399E-04	4.654E-04	4.527E-04	60	1.980	3.532E-05	3.991E-05	3.762E-05
12	0.220	2.650E-04	2.884E-04	2.767E-04	61	2.040	4.126E-05	4.590E-05	4.358E-05
13	0.240	2.759E-04	2.956E-04	2.857E-04	62	2.100	3.746E-05	4.215E-05	3.980E-05
14	0.260	3.038E-04	3.213E-04	3.125E-04	63	2.160	2.860E-05	3.308E-05	3.084E-05
15	0.280	4.172E-04	4.351E-04	4.262E-04	64	2.220	4.975E-05	5.419E-05	5.197E-05
16	0.300	5.288E-04	5.469E-04	5.379E-04	65	2.280	4.141E-05	4.558E-05	4.349E-05
17	0.320	4.637E-04	4.797E-04	4.717E-04	66	2.340	1.967E-05	2.345E-05	2.156E-05
18	0.340	2.751E-04	2.876E-04	2.813E-04	67	2.405	1.347E-05	1.733E-05	1.540E-05
19	0.360	1.920E-04	2.030E-04	1.975E-04	68	2.475	1.608E-05	1.976E-05	1.792E-05
20	0.380	1.781E-04	1.888E-04	1.835E-04	69	2.545	2.667E-05	3.059E-05	2.863E-05
21	0.400	2.254E-04	2.368E-04	2.311E-04	70	2.615	4.530E-05	4.938E-05	4.734E-05
22	0.420	2.865E-04	2.983E-04	2.924E-04	71	2.685	2.120E-05	2.433E-05	2.277E-05
23	0.445	3.484E-04	3.600E-04	3.542E-04	72	2.755	-2.090E-06	1.571E-07	-9.664E-07
24	0.475	2.810E-04	2.915E-04	2.863E-04	73	2.825	1.217E-06	3.701E-06	2.459E-06
25	0.505	1.789E-04	1.885E-04	1.837E-04	74	2.895	2.951E-06	5.611E-06	4.281E-06
26	0.535	1.929E-04	2.024E-04	1.976E-04	75	2.965	2.070E-06	4.603E-06	3.337E-06
27	0.565	2.290E-04	2.387E-04	2.339E-04	76	3.035	1.170E-06	3.610E-06	2.390E-06
28	0.595	2.186E-04	2.281E-04	2.233E-04	77	3.110	1.151E-06	3.621E-06	2.386E-06
29	0.625	2.018E-04	2.113E-04	2.065E-04	78	3.190	7.201E-07	3.044E-06	1.882E-06
30	0.655	1.978E-04	2.069E-04	2.024E-04	79	3.270	7.942E-07	2.889E-06	1.842E-06
31	0.685	1.470E-04	1.556E-04	1.513E-04	80	3.350	1.053E-06	2.950E-06	2.001E-06
32	0.715	1.398E-04	1.483E-04	1.440E-04	81	3.430	1.674E-06	3.387E-06	2.530E-06
33	0.745	1.706E-04	1.793E-04	1.749E-04	82	3.510	2.854E-06	4.477E-06	3.666E-06
34	0.775	1.725E-04	1.811E-04	1.768E-04	83	3.590	3.763E-06	5.305E-06	4.534E-06
35	0.810	1.746E-04	1.836E-04	1.791E-04	84	3.670	4.989E-06	6.460E-06	5.725E-06
36	0.850	2.781E-04	2.879E-04	2.830E-04	85	3.750	3.852E-06	5.064E-06	4.458E-06
37	0.890	3.813E-04	3.919E-04	3.866E-04	86	3.830	1.225E-06	2.127E-06	1.676E-06
38	0.930	4.078E-04	4.182E-04	4.130E-04	87	3.915	6.116E-07	1.420E-06	1.016E-06
39	0.970	2.969E-04	3.063E-04	3.016E-04	88	4.005	1.271E-06	2.100E-06	1.685E-06
40	1.010	2.744E-04	2.836E-04	2.790E-04	89	4.095	1.177E-06	1.893E-06	1.535E-06
41	1.050	2.801E-04	2.889E-04	2.845E-04	90	4.185	7.960E-07	1.454E-06	1.125E-06
42	1.090	1.740E-04	1.814E-04	1.777E-04	91	4.275	4.405E-07	1.093E-06	7.668E-07
43	1.130	1.199E-04	1.264E-04	1.231E-04	92	4.365	1.925E-07	7.370E-07	4.648E-07
44	1.170	1.062E-04	1.126E-04	1.094E-04	93	4.455	-5.837E-08	4.657E-07	2.037E-07
45	1.210	1.249E-04	1.312E-04	1.280E-04	94	4.550	-4.529E-07	1.517E-07	-1.506E-07
46	1.250	1.690E-04	1.773E-04	1.732E-04	95	4.650	-6.212E-07	9.801E-09	-3.057E-07
47	1.295	1.371E-04	1.430E-04	1.400E-04	96	4.750	-3.781E-07	9.402E-08	-1.420E-07
48	1.345	9.333E-05	9.924E-05	9.629E-05	97	4.850	1.860E-08	2.679E-07	1.433E-07
49	1.395	1.150E-04	1.212E-04	1.181E-04	98	4.950	1.886E-07	4.704E-07	3.295E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1750 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-4.391E-04	-2.983E-04	-3.687E-04	50	1.445	1.355E-04	1.415E-04	1.385E-04
2	0.111	2.142E-04	2.967E-04	2.554E-04	51	1.495	9.813E-05	1.034E-04	1.007E-04
3	0.117	1.047E-03	1.295E-03	1.171E-03	52	1.545	4.629E-05	5.069E-05	4.849E-05
4	0.125	-2.682E-04	-1.357E-04	-2.020E-04	53	1.595	3.200E-05	3.640E-05	3.420E-05
5	0.135	-6.534E-04	-4.247E-04	-5.391E-04	54	1.645	2.741E-05	3.159E-05	2.950E-05
6	0.145	1.200E-03	1.501E-03	1.351E-03	55	1.695	3.355E-05	3.781E-05	3.568E-05
7	0.155	-3.153E-04	-1.592E-04	-2.373E-04	56	1.745	3.518E-05	3.955E-05	3.736E-05
8	0.165	2.533E-04	3.034E-04	2.784E-04	57	1.800	3.015E-05	3.438E-05	3.226E-05
9	0.175	4.953E-04	5.782E-04	5.367E-04	58	1.860	2.895E-05	3.326E-05	3.110E-05
10	0.185	2.843E-04	3.199E-04	3.021E-04	59	1.920	2.646E-05	3.073E-05	2.860E-05
11	0.200	3.478E-04	3.676E-04	3.577E-04	60	1.980	2.285E-05	2.682E-05	2.483E-05
12	0.220	2.170E-04	2.349E-04	2.260E-04	61	2.040	3.064E-05	3.478E-05	3.271E-05
13	0.240	1.931E-04	2.078E-04	2.004E-04	62	2.100	2.171E-05	2.576E-05	2.373E-05
14	0.260	2.087E-04	2.219E-04	2.153E-04	63	2.160	2.017E-05	2.416E-05	2.216E-05
15	0.280	3.245E-04	3.385E-04	3.315E-04	64	2.220	4.036E-05	4.438E-05	4.237E-05
16	0.300	4.272E-04	4.418E-04	4.345E-04	65	2.280	3.279E-05	3.649E-05	3.464E-05
17	0.320	3.730E-04	3.859E-04	3.795E-04	66	2.340	1.756E-05	2.097E-05	1.926E-05
18	0.340	2.169E-04	2.270E-04	2.220E-04	67	2.405	1.543E-05	1.898E-05	1.721E-05
19	0.360	1.487E-04	1.582E-04	1.535E-04	68	2.475	1.218E-05	1.541E-05	1.379E-05
20	0.380	1.395E-04	1.489E-04	1.442E-04	69	2.545	2.573E-05	2.934E-05	2.754E-05
21	0.400	1.766E-04	1.867E-04	1.816E-04	70	2.615	4.033E-05	4.401E-05	4.217E-05
22	0.420	2.280E-04	2.382E-04	2.331E-04	71	2.685	1.627E-05	1.882E-05	1.755E-05
23	0.445	2.879E-04	2.981E-04	2.930E-04	72	2.755	-1.865E-06	-3.948E-08	-9.522E-07
24	0.475	2.416E-04	2.510E-04	2.463E-04	73	2.825	-1.752E-06	1.959E-07	-7.779E-07
25	0.505	1.439E-04	1.525E-04	1.482E-04	74	2.895	1.425E-06	3.603E-06	2.514E-06
26	0.535	1.522E-04	1.606E-04	1.564E-04	75	2.965	8.527E-07	2.918E-06	1.885E-06
27	0.565	1.798E-04	1.885E-04	1.842E-04	76	3.035	1.248E-06	3.260E-06	2.254E-06
28	0.595	1.570E-04	1.653E-04	1.611E-04	77	3.110	6.750E-07	2.676E-06	1.675E-06
29	0.625	1.547E-04	1.631E-04	1.589E-04	78	3.190	-8.505E-08	1.780E-06	8.473E-07
30	0.655	1.686E-04	1.768E-04	1.727E-04	79	3.270	4.607E-07	2.174E-06	1.317E-06
31	0.685	1.192E-04	1.269E-04	1.231E-04	80	3.350	1.497E-06	3.160E-06	2.329E-06
32	0.715	1.041E-04	1.116E-04	1.079E-04	81	3.430	1.489E-06	2.888E-06	2.189E-06
33	0.745	1.292E-04	1.369E-04	1.331E-04	82	3.510	1.454E-06	2.787E-06	2.120E-06
34	0.775	1.420E-04	1.497E-04	1.459E-04	83	3.590	2.266E-06	3.511E-06	2.888E-06
35	0.810	1.337E-04	1.417E-04	1.377E-04	84	3.670	3.175E-06	4.370E-06	3.772E-06
36	0.850	2.238E-04	2.326E-04	2.282E-04	85	3.750	2.619E-06	3.645E-06	3.132E-06
37	0.890	3.178E-04	3.273E-04	3.225E-04	86	3.830	1.066E-06	1.937E-06	1.501E-06
38	0.930	3.228E-04	3.320E-04	3.274E-04	87	3.915	2.808E-07	1.060E-06	6.703E-07
39	0.970	2.380E-04	2.464E-04	2.422E-04	88	4.005	3.325E-07	1.078E-06	7.050E-07
40	1.010	2.084E-04	2.165E-04	2.124E-04	89	4.095	5.351E-07	1.239E-06	8.872E-07
41	1.050	2.199E-04	2.277E-04	2.238E-04	90	4.185	3.298E-07	9.604E-07	6.451E-07
42	1.090	1.358E-04	1.424E-04	1.391E-04	91	4.275	-1.665E-08	6.145E-07	2.989E-07
43	1.130	8.914E-05	9.494E-05	9.204E-05	92	4.365	-1.637E-07	5.065E-07	1.714E-07
44	1.170	8.163E-05	8.727E-05	8.445E-05	93	4.455	-2.770E-07	4.013E-07	6.213E-08
45	1.210	8.701E-05	9.248E-05	8.975E-05	94	4.550	-3.994E-07	1.765E-07	-1.114E-07
46	1.250	1.156E-04	1.229E-04	1.193E-04	95	4.650	-3.904E-07	1.053E-07	-1.426E-07
47	1.295	1.013E-04	1.064E-04	1.039E-04	96	4.750	-2.182E-07	1.904E-07	-1.393E-08
48	1.345	6.756E-05	7.282E-05	7.019E-05	97	4.850	1.250E-08	3.046E-07	1.586E-07
49	1.395	1.008E-04	1.066E-04	1.037E-04	98	4.950	1.416E-07	3.662E-07	2.539E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2150 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-4.382E-04	-3.272E-04	-3.827E-04	50	1.445	1.202E-04	1.251E-04	1.227E-04
2	0.111	1.931E-04	2.584E-04	2.257E-04	51	1.495	8.459E-05	8.890E-05	8.675E-05
3	0.117	9.867E-04	1.181E-03	1.084E-03	52	1.545	4.652E-05	5.016E-05	4.834E-05
4	0.125	-2.649E-04	-1.599E-04	-2.124E-04	53	1.595	2.711E-05	3.064E-05	2.888E-05
5	0.135	-6.240E-04	-4.406E-04	-5.323E-04	54	1.645	1.837E-05	2.171E-05	2.004E-05
6	0.145	1.122E-03	1.363E-03	1.243E-03	55	1.695	2.368E-05	2.701E-05	2.535E-05
7	0.155	-3.237E-04	-1.983E-04	-2.610E-04	56	1.745	2.611E-05	2.972E-05	2.791E-05
8	0.165	2.048E-04	2.443E-04	2.246E-04	57	1.800	2.566E-05	2.916E-05	2.741E-05
9	0.175	4.174E-04	4.829E-04	4.501E-04	58	1.860	2.428E-05	2.772E-05	2.600E-05
10	0.185	2.205E-04	2.486E-04	2.346E-04	59	1.920	2.137E-05	2.474E-05	2.305E-05
11	0.200	2.815E-04	2.971E-04	2.893E-04	60	1.980	1.932E-05	2.253E-05	2.093E-05
12	0.220	1.728E-04	1.865E-04	1.796E-04	61	2.040	2.218E-05	2.547E-05	2.383E-05
13	0.240	1.375E-04	1.487E-04	1.431E-04	62	2.100	1.683E-05	2.010E-05	1.847E-05
14	0.260	1.456E-04	1.557E-04	1.506E-04	63	2.160	1.585E-05	1.909E-05	1.747E-05
15	0.280	2.568E-04	2.679E-04	2.624E-04	64	2.220	3.027E-05	3.353E-05	3.190E-05
16	0.300	3.444E-04	3.561E-04	3.502E-04	65	2.280	2.705E-05	3.027E-05	2.866E-05
17	0.320	2.962E-04	3.064E-04	3.013E-04	66	2.340	1.317E-05	1.588E-05	1.452E-05
18	0.340	1.692E-04	1.772E-04	1.732E-04	67	2.405	1.038E-05	1.320E-05	1.179E-05
19	0.360	1.124E-04	1.200E-04	1.162E-04	68	2.475	1.173E-05	1.433E-05	1.303E-05
20	0.380	1.139E-04	1.215E-04	1.177E-04	69	2.545	2.092E-05	2.388E-05	2.240E-05
21	0.400	1.459E-04	1.540E-04	1.500E-04	70	2.615	3.756E-05	4.053E-05	3.905E-05
22	0.420	1.793E-04	1.874E-04	1.834E-04	71	2.685	1.262E-05	1.471E-05	1.367E-05
23	0.445	2.355E-04	2.437E-04	2.396E-04	72	2.755	-5.490E-06	-2.034E-06	-3.762E-06
24	0.475	1.953E-04	2.028E-04	1.991E-04	73	2.825	-9.533E-07	5.726E-07	-1.904E-07
25	0.505	1.202E-04	1.271E-04	1.237E-04	74	2.895	1.379E-06	3.100E-06	2.239E-06
26	0.535	1.345E-04	1.414E-04	1.379E-04	75	2.965	1.577E-06	3.227E-06	2.402E-06
27	0.565	1.449E-04	1.518E-04	1.484E-04	76	3.035	5.185E-07	2.057E-06	1.288E-06
28	0.595	1.072E-04	1.137E-04	1.105E-04	77	3.110	4.514E-07	1.976E-06	1.214E-06
29	0.625	1.174E-04	1.241E-04	1.208E-04	78	3.190	-1.009E-07	1.325E-06	6.120E-07
30	0.655	1.413E-04	1.479E-04	1.446E-04	79	3.270	3.054E-07	1.669E-06	9.871E-07
31	0.685	9.551E-05	1.017E-04	9.860E-05	80	3.350	9.050E-08	1.312E-06	7.010E-07
32	0.715	8.538E-05	9.140E-05	8.839E-05	81	3.430	3.490E-07	1.400E-06	8.744E-07
33	0.745	1.177E-04	1.239E-04	1.208E-04	82	3.510	1.199E-06	2.209E-06	1.704E-06
34	0.775	1.201E-04	1.264E-04	1.232E-04	83	3.590	1.746E-06	2.695E-06	2.220E-06
35	0.810	1.083E-04	1.147E-04	1.115E-04	84	3.670	2.488E-06	3.401E-06	2.945E-06
36	0.850	1.840E-04	1.911E-04	1.875E-04	85	3.750	1.961E-06	2.715E-06	2.338E-06
37	0.890	2.575E-04	2.651E-04	2.613E-04	86	3.830	9.518E-07	1.538E-06	1.245E-06
38	0.930	2.632E-04	2.705E-04	2.668E-04	87	3.915	6.770E-07	1.187E-06	9.321E-07
39	0.970	1.833E-04	1.899E-04	1.866E-04	88	4.005	6.251E-07	1.128E-06	8.767E-07
40	1.010	1.656E-04	1.721E-04	1.688E-04	89	4.095	4.858E-07	9.212E-07	7.035E-07
41	1.050	1.658E-04	1.720E-04	1.689E-04	90	4.185	2.844E-07	7.064E-07	4.954E-07
42	1.090	1.100E-04	1.153E-04	1.127E-04	91	4.275	1.735E-08	4.443E-07	2.308E-07
43	1.130	7.737E-05	8.210E-05	7.973E-05	92	4.365	-1.523E-07	2.490E-07	4.834E-08
44	1.170	6.405E-05	6.851E-05	6.628E-05	93	4.455	-2.805E-07	9.185E-08	-9.433E-08
45	1.210	6.452E-05	6.884E-05	6.668E-05	94	4.550	-4.400E-07	-2.972E-08	-2.348E-07
46	1.250	7.985E-05	8.552E-05	8.268E-05	95	4.650	-4.169E-07	1.191E-08	-2.025E-07
47	1.295	7.258E-05	7.662E-05	7.460E-05	96	4.750	-2.105E-07	1.430E-07	-3.375E-08
48	1.345	5.128E-05	5.550E-05	5.339E-05	97	4.850	2.799E-08	2.423E-07	1.352E-07
49	1.395	8.608E-05	9.081E-05	8.844E-05	98	4.950	1.154E-07	3.112E-07	2.133E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2650 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-3.853E-04	-2.937E-04	-3.395E-04	50	1.445	1.047E-04	1.092E-04	1.069E-04
2	0.111	1.434E-04	1.954E-04	1.694E-04	51	1.495	7.726E-05	8.127E-05	7.926E-05
3	0.117	8.200E-04	9.867E-04	9.033E-04	52	1.545	3.719E-05	4.043E-05	3.881E-05
4	0.125	-2.177E-04	-1.340E-04	-1.758E-04	53	1.595	2.013E-05	2.324E-05	2.168E-05
5	0.135	-5.474E-04	-3.935E-04	-4.705E-04	54	1.645	1.370E-05	1.669E-05	1.519E-05
6	0.145	9.838E-04	1.187E-03	1.085E-03	55	1.695	1.619E-05	1.914E-05	1.767E-05
7	0.155	-2.772E-04	-1.718E-04	-2.245E-04	56	1.745	1.941E-05	2.264E-05	2.102E-05
8	0.165	1.636E-04	1.956E-04	1.796E-04	57	1.800	2.230E-05	2.550E-05	2.390E-05
9	0.175	3.488E-04	4.021E-04	3.755E-04	58	1.860	2.013E-05	2.320E-05	2.166E-05
10	0.185	1.642E-04	1.872E-04	1.757E-04	59	1.920	1.512E-05	1.814E-05	1.663E-05
11	0.200	2.257E-04	2.382E-04	2.319E-04	60	1.980	1.395E-05	1.682E-05	1.538E-05
12	0.220	1.403E-04	1.513E-04	1.458E-04	61	2.040	1.668E-05	1.967E-05	1.817E-05
13	0.240	1.076E-04	1.166E-04	1.121E-04	62	2.100	1.342E-05	1.634E-05	1.488E-05
14	0.260	1.076E-04	1.156E-04	1.116E-04	63	2.160	1.140E-05	1.436E-05	1.288E-05
15	0.280	1.929E-04	2.015E-04	1.972E-04	64	2.220	2.134E-05	2.427E-05	2.281E-05
16	0.300	2.660E-04	2.751E-04	2.705E-04	65	2.280	2.207E-05	2.523E-05	2.365E-05
17	0.320	2.320E-04	2.402E-04	2.361E-04	66	2.340	1.154E-05	1.401E-05	1.278E-05
18	0.340	1.306E-04	1.377E-04	1.342E-04	67	2.405	1.024E-05	1.292E-05	1.158E-05
19	0.360	8.380E-05	9.057E-05	8.719E-05	68	2.475	8.522E-06	1.097E-05	9.748E-06
20	0.380	8.951E-05	9.631E-05	9.291E-05	69	2.545	1.675E-05	1.950E-05	1.812E-05
21	0.400	1.191E-04	1.264E-04	1.227E-04	70	2.615	2.845E-05	3.120E-05	2.983E-05
22	0.420	1.438E-04	1.511E-04	1.474E-04	71	2.685	1.324E-05	1.548E-05	1.436E-05
23	0.445	1.928E-04	2.003E-04	1.965E-04	72	2.755	-3.680E-06	7.346E-06	-1.803E-06
24	0.475	1.687E-04	1.756E-04	1.721E-04	73	2.825	-2.401E-06	-6.817E-07	-1.541E-06
25	0.505	9.139E-05	9.762E-05	9.450E-05	74	2.895	2.645E-07	1.862E-06	1.063E-06
26	0.535	1.031E-04	1.092E-04	1.061E-04	75	2.965	1.453E-06	2.973E-06	2.213E-06
27	0.565	1.155E-04	1.217E-04	1.186E-04	76	3.035	1.244E-06	2.699E-06	1.971E-06
28	0.595	8.487E-05	9.073E-05	8.780E-05	77	3.110	4.657E-07	1.910E-06	1.188E-06
29	0.625	9.705E-05	1.031E-04	1.001E-04	78	3.190	1.679E-08	1.273E-06	6.449E-07
30	0.655	1.197E-04	1.257E-04	1.227E-04	79	3.270	1.818E-07	1.450E-06	8.159E-07
31	0.685	7.608E-05	8.163E-05	7.886E-05	80	3.350	6.498E-07	1.788E-06	1.219E-06
32	0.715	7.049E-05	7.594E-05	7.322E-05	81	3.430	1.449E-06	2.530E-06	1.989E-06
33	0.745	1.014E-04	1.071E-04	1.043E-04	82	3.510	1.477E-06	2.504E-06	1.990E-06
34	0.775	1.088E-04	1.145E-04	1.117E-04	83	3.590	8.220E-07	1.677E-06	1.249E-06
35	0.810	9.148E-05	9.736E-05	9.442E-05	84	3.670	1.468E-06	2.345E-06	1.907E-06
36	0.850	1.652E-04	1.717E-04	1.684E-04	85	3.750	1.041E-06	1.798E-06	1.419E-06
37	0.890	2.237E-04	2.306E-04	2.272E-04	86	3.830	8.736E-10	6.819E-07	3.414E-07
38	0.930	2.114E-04	2.180E-04	2.147E-04	87	3.915	-8.371E-08	6.101E-07	2.632E-07
39	0.970	1.409E-04	1.468E-04	1.439E-04	88	4.005	1.270E-07	8.819E-07	5.045E-07
40	1.010	1.257E-04	1.313E-04	1.285E-04	89	4.095	3.004E-07	9.726E-07	6.365E-07
41	1.050	1.310E-04	1.365E-04	1.337E-04	90	4.185	1.446E-07	9.055E-07	5.251E-07
42	1.090	7.979E-05	8.443E-05	8.211E-05	91	4.275	-2.014E-07	6.267E-07	2.126E-07
43	1.130	5.337E-05	5.753E-05	5.545E-05	92	4.365	-4.391E-07	4.029E-07	-1.811E-08
44	1.170	5.251E-05	5.655E-05	5.453E-05	93	4.455	-6.106E-07	1.848E-07	-2.129E-07
45	1.210	5.007E-05	5.390E-05	5.199E-05	94	4.550	-7.101E-07	3.851E-08	-3.358E-07
46	1.250	5.600E-05	6.098E-05	5.849E-05	95	4.650	-6.183E-07	1.535E-07	-2.324E-07
47	1.295	5.093E-05	5.445E-05	5.269E-05	96	4.750	-3.138E-07	3.504E-07	1.829E-08
48	1.345	4.016E-05	4.398E-05	4.207E-05	97	4.850	4.505E-08	4.862E-07	2.657E-07
49	1.395	7.241E-05	7.675E-05	7.458E-05	98	4.950	1.862E-07	5.436E-07	3.649E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3150 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-3.532E-04	-2.791E-04	-3.162E-04	50	1.445	9.243E-05	9.627E-05	9.435E-05
2	0.111	1.304E-04	1.726E-04	1.515E-04	51	1.495	6.473E-05	6.803E-05	6.638E-05
3	0.117	7.465E-04	8.816E-04	8.141E-04	52	1.545	3.305E-05	3.577E-05	3.441E-05
4	0.125	-2.044E-04	-1.365E-04	-1.704E-04	53	1.595	1.700E-05	1.955E-05	1.828E-05
5	0.135	-5.021E-04	-3.761E-04	-4.391E-04	54	1.645	1.135E-05	1.379E-05	1.257E-05
6	0.145	8.919E-04	1.058E-03	9.750E-04	55	1.695	1.441E-05	1.681E-05	1.561E-05
7	0.155	-2.626E-04	-1.764E-04	-2.195E-04	56	1.745	1.454E-05	1.716E-05	1.585E-05
8	0.165	1.368E-04	1.625E-04	1.497E-04	57	1.800	1.634E-05	1.892E-05	1.763E-05
9	0.175	2.942E-04	3.374E-04	3.158E-04	58	1.860	1.826E-05	2.084E-05	1.955E-05
10	0.185	1.285E-04	1.470E-04	1.377E-04	59	1.920	1.427E-05	1.677E-05	1.552E-05
11	0.200	1.845E-04	1.945E-04	1.895E-04	60	1.980	1.015E-05	1.248E-05	1.131E-05
12	0.220	1.196E-04	1.284E-04	1.240E-04	61	2.040	1.151E-05	1.392E-05	1.271E-05
13	0.240	7.570E-05	8.281E-05	7.926E-05	62	2.100	7.860E-06	1.024E-05	9.051E-06
14	0.260	6.827E-05	7.456E-05	7.141E-05	63	2.160	6.304E-06	8.626E-06	7.465E-06
15	0.280	1.466E-04	1.534E-04	1.500E-04	64	2.220	1.759E-05	2.001E-05	1.880E-05
16	0.300	2.052E-04	2.124E-04	2.088E-04	65	2.280	1.763E-05	2.022E-05	1.892E-05
17	0.320	1.749E-04	1.813E-04	1.781E-04	66	2.340	1.008E-05	1.212E-05	1.110E-05
18	0.340	9.544E-05	1.012E-04	9.830E-05	67	2.405	9.317E-06	1.154E-05	1.043E-05
19	0.360	6.105E-05	6.655E-05	6.380E-05	68	2.475	1.020E-05	1.223E-05	1.122E-05
20	0.380	6.838E-05	7.394E-05	7.116E-05	69	2.545	1.494E-05	1.720E-05	1.607E-05
21	0.400	9.439E-05	1.004E-04	9.741E-05	70	2.615	2.568E-05	2.792E-05	2.680E-05
22	0.420	1.199E-04	1.260E-04	1.230E-04	71	2.685	8.721E-06	1.026E-05	9.489E-06
23	0.445	1.609E-04	1.670E-04	1.640E-04	72	2.755	-4.701E-06	-1.811E-06	-3.256E-06
24	0.475	1.404E-04	1.462E-04	1.433E-04	73	2.825	-2.089E-06	-7.855E-07	-1.437E-06
25	0.505	7.752E-05	8.272E-05	8.012E-05	74	2.895	-1.171E-07	9.992E-07	4.410E-07
26	0.535	8.812E-05	9.325E-05	9.068E-05	75	2.965	8.436E-07	1.987E-06	1.415E-06
27	0.565	9.962E-05	1.048E-04	1.022E-04	76	3.035	1.053E-06	2.134E-06	1.594E-06
28	0.595	6.081E-05	6.558E-05	6.320E-05	77	3.110	1.107E-06	2.219E-06	1.663E-06
29	0.625	7.627E-05	8.122E-05	7.875E-05	78	3.190	6.234E-07	1.620E-06	1.122E-06
30	0.655	9.610E-05	1.011E-04	9.858E-05	79	3.270	-7.489E-10	8.764E-07	4.378E-07
31	0.685	6.202E-05	6.661E-05	6.431E-05	80	3.350	5.726E-08	8.428E-07	4.500E-07
32	0.715	6.213E-05	6.667E-05	6.440E-05	81	3.430	5.159E-07	1.267E-06	8.915E-07
33	0.745	8.706E-05	9.180E-05	8.943E-05	82	3.510	5.104E-07	1.237E-06	8.739E-07
34	0.775	8.514E-05	8.983E-05	8.749E-05	83	3.590	4.851E-07	1.068E-06	7.766E-07
35	0.810	7.775E-05	8.269E-05	8.022E-05	84	3.670	8.147E-07	1.426E-06	1.120E-06
36	0.850	1.551E-04	1.606E-04	1.578E-04	85	3.750	8.802E-07	1.400E-06	1.140E-06
37	0.890	1.958E-04	2.016E-04	1.987E-04	86	3.830	6.301E-07	1.087E-06	8.587E-07
38	0.930	1.713E-04	1.767E-04	1.740E-04	87	3.915	2.620E-07	6.524E-07	4.572E-07
39	0.970	1.154E-04	1.202E-04	1.178E-04	88	4.005	2.025E-07	5.540E-07	3.782E-07
40	1.010	1.008E-04	1.054E-04	1.031E-04	89	4.095	3.271E-07	6.805E-07	5.038E-07
41	1.050	9.865E-05	1.031E-04	1.009E-04	90	4.185	2.225E-07	5.360E-07	3.792E-07
42	1.090	6.449E-05	6.834E-05	6.642E-05	91	4.275	2.415E-08	3.319E-07	1.780E-07
43	1.130	5.213E-05	5.565E-05	5.389E-05	92	4.365	-1.091E-07	1.599E-07	2.540E-08
44	1.170	4.037E-05	4.364E-05	4.201E-05	93	4.455	-1.916E-07	7.413E-08	-5.874E-08
45	1.210	3.498E-05	3.802E-05	3.650E-05	94	4.550	-2.329E-07	3.748E-08	-9.771E-08
46	1.250	3.995E-05	4.393E-05	4.194E-05	95	4.650	-2.081E-07	4.618E-08	-8.097E-08
47	1.295	3.455E-05	3.735E-05	3.595E-05	96	4.750	-9.711E-08	1.117E-07	7.317E-09
48	1.345	3.044E-05	3.357E-05	3.200E-05	97	4.850	1.988E-08	1.704E-07	9.513E-08
49	1.395	6.244E-05	6.609E-05	6.426E-05	98	4.950	7.263E-08	1.944E-07	1.335E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3750 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-2.159E-04	-1.514E-04	-1.836E-04	50	1.445	8.391E-05	8.750E-05	8.571E-05
2	0.111	7.758E-05	1.126E-04	9.508E-05	51	1.495	5.364E-05	5.670E-05	5.517E-05
3	0.117	4.552E-04	5.756E-04	5.154E-04	52	1.545	2.670E-05	2.915E-05	2.792E-05
4	0.125	-1.128E-04	-5.710E-05	-8.496E-05	53	1.595	1.356E-05	1.589E-05	1.473E-05
5	0.135	-3.091E-04	-2.016E-04	-2.553E-04	54	1.645	8.558E-06	1.083E-05	9.694E-06
6	0.145	5.878E-04	7.305E-04	6.592E-04	55	1.695	1.029E-05	1.246E-05	1.138E-05
7	0.155	-1.388E-04	-6.525E-05	-1.020E-04	56	1.745	1.176E-05	1.420E-05	1.298E-05
8	0.165	1.166E-04	1.384E-04	1.275E-04	57	1.800	1.321E-05	1.558E-05	1.439E-05
9	0.175	2.210E-04	2.579E-04	2.394E-04	58	1.860	1.495E-05	1.728E-05	1.611E-05
10	0.185	1.013E-04	1.170E-04	1.092E-04	59	1.920	1.125E-05	1.352E-05	1.238E-05
11	0.200	1.437E-04	1.523E-04	1.480E-04	60	1.980	9.244E-06	1.145E-05	1.035E-05
12	0.220	1.025E-04	1.104E-04	1.064E-04	61	2.040	8.970E-06	1.124E-05	1.010E-05
13	0.240	6.051E-05	6.684E-05	6.367E-05	62	2.100	8.955E-06	1.120E-05	1.008E-05
14	0.260	4.483E-05	5.034E-05	4.759E-05	63	2.160	5.619E-06	7.769E-06	6.694E-06
15	0.280	1.053E-04	1.110E-04	1.082E-04	64	2.220	1.089E-05	1.322E-05	1.205E-05
16	0.300	1.524E-04	1.583E-04	1.554E-04	65	2.280	1.339E-05	1.611E-05	1.475E-05
17	0.320	1.319E-04	1.376E-04	1.348E-04	66	2.340	6.387E-06	8.342E-06	7.364E-06
18	0.340	7.611E-05	8.128E-05	7.870E-05	67	2.405	4.708E-06	6.822E-06	5.765E-06
19	0.360	5.208E-05	5.711E-05	5.460E-05	68	2.475	8.308E-06	1.044E-05	9.375E-06
20	0.380	5.996E-05	6.507E-05	6.251E-05	69	2.545	1.317E-05	1.552E-05	1.435E-05
21	0.400	8.459E-05	9.015E-05	8.737E-05	70	2.615	1.998E-05	2.236E-05	2.117E-05
22	0.420	1.016E-04	1.072E-04	1.044E-04	71	2.685	9.964E-06	1.205E-05	1.101E-05
23	0.445	1.275E-04	1.330E-04	1.303E-04	72	2.755	-3.428E-06	1.042E-06	-1.193E-06
24	0.475	1.139E-04	1.191E-04	1.165E-04	73	2.825	-1.919E-06	7.653E-08	-9.213E-07
25	0.505	6.111E-05	6.583E-05	6.347E-05	74	2.895	-1.648E-07	9.376E-07	3.864E-07
26	0.535	7.536E-05	8.005E-05	7.770E-05	75	2.965	1.755E-07	1.208E-06	6.915E-07
27	0.565	8.737E-05	9.212E-05	8.975E-05	76	3.035	1.194E-06	2.257E-06	1.725E-06
28	0.595	4.667E-05	5.099E-05	4.883E-05	77	3.110	1.284E-06	2.314E-06	1.799E-06
29	0.625	6.270E-05	6.723E-05	6.496E-05	78	3.190	4.866E-07	1.353E-06	9.200E-07
30	0.655	8.590E-05	9.050E-05	8.820E-05	79	3.270	4.428E-07	1.306E-06	8.745E-07
31	0.685	5.512E-05	5.932E-05	5.722E-05	80	3.350	3.084E-07	1.090E-06	6.994E-07
32	0.715	4.729E-05	5.135E-05	4.932E-05	81	3.430	1.650E-07	8.440E-07	5.045E-07
33	0.745	6.634E-05	7.060E-05	6.847E-05	82	3.510	6.263E-07	1.270E-06	9.483E-07
34	0.775	6.935E-05	7.362E-05	7.149E-05	83	3.590	6.719E-07	1.243E-06	9.574E-07
35	0.810	6.667E-05	7.123E-05	6.895E-05	84	3.670	4.929E-07	9.986E-07	7.457E-07
36	0.850	1.332E-04	1.383E-04	1.358E-04	85	3.750	3.898E-07	8.195E-07	6.046E-07
37	0.890	1.690E-04	1.744E-04	1.717E-04	86	3.830	8.965E-08	5.577E-07	3.237E-07
38	0.930	1.444E-04	1.493E-04	1.469E-04	87	3.915	6.945E-08	5.636E-07	3.165E-07
39	0.970	8.567E-05	8.991E-05	8.779E-05	88	4.005	2.855E-07	7.155E-07	5.005E-07
40	1.010	7.790E-05	8.210E-05	8.000E-05	89	4.095	2.070E-07	5.380E-07	3.725E-07
41	1.050	8.023E-05	8.428E-05	8.226E-05	90	4.185	2.798E-08	3.650E-07	1.965E-07
42	1.090	4.991E-05	5.339E-05	5.165E-05	91	4.275	-1.021E-07	2.790E-07	8.848E-08
43	1.130	3.865E-05	4.183E-05	4.024E-05	92	4.365	-2.083E-07	1.602E-07	-2.405E-08
44	1.170	3.385E-05	3.685E-05	3.535E-05	93	4.455	-2.967E-07	2.034E-08	-1.382E-07
45	1.210	2.781E-05	3.055E-05	2.918E-05	94	4.550	-3.438E-07	-3.044E-08	-1.871E-07
46	1.250	2.855E-05	3.213E-05	3.034E-05	95	4.650	-2.893E-07	6.907E-08	-1.101E-07
47	1.295	2.491E-05	2.744E-05	2.618E-05	96	4.750	-1.388E-07	1.732E-07	1.721E-08
48	1.345	2.818E-05	3.114E-05	2.966E-05	97	4.850	2.903E-08	2.177E-07	1.234E-07
49	1.395	5.941E-05	6.290E-05	6.116E-05	98	4.950	1.042E-07	2.414E-07	1.728E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 4350 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.594E-04	-1.090E-04	-1.342E-04	50	1.445	6.502E-05	6.780E-05	6.641E-05
2	0.111	4.815E-05	7.566E-05	6.190E-05	51	1.495	4.437E-05	4.672E-05	4.555E-05
3	0.117	3.301E-04	4.248E-04	3.775E-04	52	1.545	2.041E-05	2.232E-05	2.137E-05
4	0.125	-7.202E-05	-2.821E-05	-5.011E-05	53	1.595	9.867E-06	1.169E-05	1.078E-05
5	0.135	-2.288E-04	-1.411E-04	-1.849E-04	54	1.645	7.676E-06	9.431E-06	8.553E-06
6	0.145	4.544E-04	5.704E-04	5.124E-04	55	1.695	7.727E-06	9.435E-06	8.581E-06
7	0.155	-9.118E-05	-3.104E-05	-6.111E-05	56	1.745	8.599E-06	1.043E-05	9.517E-06
8	0.165	1.031E-04	1.205E-04	1.118E-04	57	1.800	1.021E-05	1.208E-05	1.114E-05
9	0.175	1.760E-04	2.054E-04	1.907E-04	58	1.860	1.107E-05	1.293E-05	1.200E-05
10	0.185	8.018E-05	9.268E-05	8.643E-05	59	1.920	1.005E-05	1.189E-05	1.097E-05
11	0.200	1.127E-04	1.194E-04	1.160E-04	60	1.980	6.379E-06	8.100E-06	7.239E-06
12	0.220	8.853E-05	9.459E-05	9.156E-05	61	2.040	7.450E-06	9.232E-06	8.341E-06
13	0.240	4.626E-05	5.102E-05	4.864E-05	62	2.100	7.607E-06	9.434E-06	8.520E-06
14	0.260	2.663E-05	3.074E-05	2.869E-05	63	2.160	5.852E-06	7.563E-06	6.707E-06
15	0.280	7.828E-05	8.261E-05	8.045E-05	64	2.220	9.464E-06	1.121E-05	1.033E-05
16	0.300	1.083E-04	1.127E-04	1.105E-04	65	2.280	1.216E-05	1.420E-05	1.318E-05
17	0.320	9.355E-05	9.782E-05	9.569E-05	66	2.340	7.897E-06	9.531E-06	8.714E-06
18	0.340	5.347E-05	5.738E-05	5.543E-05	67	2.405	8.163E-06	9.855E-06	9.009E-06
19	0.360	3.287E-05	3.670E-05	3.478E-05	68	2.475	9.208E-06	1.090E-05	1.005E-05
20	0.380	4.479E-05	4.875E-05	4.677E-05	69	2.545	1.029E-05	1.195E-05	1.112E-05
21	0.400	6.766E-05	7.198E-05	6.982E-05	70	2.615	1.882E-05	2.065E-05	1.973E-05
22	0.420	8.181E-05	8.616E-05	8.398E-05	71	2.685	5.676E-06	7.066E-06	6.371E-06
23	0.445	1.016E-04	1.059E-04	1.037E-04	72	2.755	-4.258E-06	-1.445E-06	-2.851E-06
24	0.475	8.731E-05	9.137E-05	8.934E-05	73	2.825	-2.792E-06	-1.188E-06	-1.990E-06
25	0.505	5.415E-05	5.788E-05	5.601E-05	74	2.895	-6.505E-08	8.269E-07	3.809E-07
26	0.535	5.996E-05	6.363E-05	6.179E-05	75	2.965	3.781E-07	1.195E-06	7.864E-07
27	0.565	7.160E-05	7.532E-05	7.346E-05	76	3.035	6.148E-07	1.415E-06	1.015E-06
28	0.595	3.851E-05	4.190E-05	4.021E-05	77	3.110	9.405E-07	1.776E-06	1.358E-06
29	0.625	4.807E-05	5.160E-05	4.983E-05	78	3.190	3.671E-07	1.114E-06	7.405E-07
30	0.655	6.934E-05	7.295E-05	7.115E-05	79	3.270	5.386E-08	7.211E-07	3.875E-07
31	0.685	4.859E-05	5.192E-05	5.025E-05	80	3.350	-4.664E-09	6.334E-07	3.144E-07
32	0.715	4.194E-05	4.517E-05	4.355E-05	81	3.430	2.563E-07	8.459E-07	5.511E-07
33	0.745	5.607E-05	5.942E-05	5.774E-05	82	3.510	6.716E-07	1.235E-06	9.533E-07
34	0.775	6.051E-05	6.392E-05	6.222E-05	83	3.590	4.463E-07	9.143E-07	6.803E-07
35	0.810	5.811E-05	6.173E-05	5.992E-05	84	3.670	3.636E-07	7.900E-07	5.768E-07
36	0.850	1.181E-04	1.221E-04	1.201E-04	85	3.750	4.801E-07	9.181E-07	6.991E-07
37	0.890	1.506E-04	1.548E-04	1.527E-04	86	3.830	2.218E-07	6.610E-07	4.414E-07
38	0.930	1.169E-04	1.207E-04	1.188E-04	87	3.915	8.185E-08	4.802E-07	2.810E-07
39	0.970	7.023E-05	7.353E-05	7.188E-05	88	4.005	1.459E-07	5.584E-07	3.522E-07
40	1.010	6.390E-05	6.717E-05	6.553E-05	89	4.095	3.975E-08	4.520E-07	2.459E-07
41	1.050	6.544E-05	6.859E-05	6.702E-05	90	4.185	-6.063E-08	3.583E-07	1.488E-07
42	1.090	4.096E-05	4.367E-05	4.231E-05	91	4.275	-1.918E-07	2.928E-07	5.049E-08
43	1.130	3.107E-05	3.355E-05	3.231E-05	92	4.365	-3.229E-07	1.723E-07	-7.531E-08
44	1.170	2.880E-05	3.115E-05	2.998E-05	93	4.455	-4.176E-07	4.526E-08	-1.862E-07
45	1.210	2.219E-05	2.430E-05	2.325E-05	94	4.550	-4.226E-07	2.893E-08	-1.968E-07
46	1.250	2.266E-05	2.540E-05	2.403E-05	95	4.650	-2.806E-07	1.405E-07	-7.002E-08
47	1.295	1.765E-05	1.958E-05	1.861E-05	96	4.750	-1.250E-07	2.552E-07	6.511E-08
48	1.345	2.206E-05	2.436E-05	2.321E-05	97	4.850	3.721E-08	3.199E-07	1.786E-07
49	1.395	5.023E-05	5.296E-05	5.159E-05	98	4.950	1.250E-07	3.355E-07	2.302E-07



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5150 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.859E-04	-1.436E-04	-1.647E-04	50	1.445	5.421E-05	5.674E-05	5.547E-05
2	0.111	6.273E-05	8.551E-05	7.412E-05	51	1.495	3.655E-05	3.871E-05	3.763E-05
3	0.117	3.802E-04	4.604E-04	4.203E-04	52	1.545	1.787E-05	1.963E-05	1.875E-05
4	0.125	-1.002E-04	-6.423E-05	-8.220E-05	53	1.595	8.798E-06	1.045E-05	9.626E-06
5	0.135	-2.674E-04	-1.954E-04	-2.314E-04	54	1.645	5.056E-06	6.619E-06	5.837E-06
6	0.145	4.835E-04	5.795E-04	5.315E-04	55	1.695	6.907E-06	8.451E-06	7.679E-06
7	0.155	-1.299E-04	-8.063E-05	-1.053E-04	56	1.745	9.150E-06	1.088E-05	1.002E-05
8	0.165	7.778E-05	9.265E-05	8.521E-05	57	1.800	8.754E-06	1.043E-05	9.593E-06
9	0.175	1.565E-04	1.815E-04	1.690E-04	58	1.860	1.076E-05	1.246E-05	1.161E-05
10	0.185	5.772E-05	6.831E-05	6.301E-05	59	1.920	7.557E-06	9.182E-06	8.369E-06
11	0.200	9.100E-05	9.683E-05	9.391E-05	60	1.980	3.439E-06	4.959E-06	4.199E-06
12	0.220	7.013E-05	7.554E-05	7.283E-05	61	2.040	4.854E-06	6.450E-06	5.652E-06
13	0.240	3.341E-05	3.767E-05	3.554E-05	62	2.100	3.872E-06	5.496E-06	4.684E-06
14	0.260	1.959E-05	2.327E-05	2.143E-05	63	2.160	3.578E-06	5.146E-06	4.362E-06
15	0.280	5.420E-05	5.800E-05	5.610E-05	64	2.220	8.142E-06	9.766E-06	8.954E-06
16	0.300	7.581E-05	7.969E-05	7.775E-05	65	2.280	7.299E-06	9.166E-06	8.233E-06
17	0.320	6.763E-05	7.142E-05	6.953E-05	66	2.340	4.220E-06	5.689E-06	4.954E-06
18	0.340	3.879E-05	4.230E-05	4.055E-05	67	2.405	5.858E-06	7.439E-06	6.648E-06
19	0.360	2.561E-05	2.907E-05	2.734E-05	68	2.475	7.586E-06	9.144E-06	8.365E-06
20	0.380	3.342E-05	3.699E-05	3.521E-05	69	2.545	9.112E-06	1.076E-05	9.937E-06
21	0.400	5.537E-05	5.932E-05	5.734E-05	70	2.615	1.831E-05	2.008E-05	1.919E-05
22	0.420	6.827E-05	7.224E-05	7.026E-05	71	2.685	5.973E-06	7.277E-06	6.625E-06
23	0.445	7.589E-05	7.979E-05	7.784E-05	72	2.755	-4.592E-06	-1.719E-06	-3.156E-06
24	0.475	7.037E-05	7.407E-05	7.222E-05	73	2.825	-2.425E-06	-8.470E-07	-1.636E-06
25	0.505	4.117E-05	4.457E-05	4.287E-05	74	2.895	2.381E-07	1.010E-06	6.239E-07
26	0.535	5.184E-05	5.523E-05	5.353E-05	75	2.965	3.748E-07	1.038E-06	7.065E-07
27	0.565	6.163E-05	6.506E-05	6.335E-05	76	3.035	6.515E-07	1.350E-06	1.001E-06
28	0.595	2.801E-05	3.109E-05	2.955E-05	77	3.110	1.016E-06	1.700E-06	1.358E-06
29	0.625	4.089E-05	4.415E-05	4.252E-05	78	3.190	5.735E-07	1.169E-06	8.715E-07
30	0.655	6.567E-05	6.906E-05	6.737E-05	79	3.270	6.902E-07	1.258E-06	9.742E-07
31	0.685	4.177E-05	4.485E-05	4.331E-05	80	3.350	1.412E-07	6.019E-07	3.715E-07
32	0.715	3.552E-05	3.849E-05	3.701E-05	81	3.430	-1.047E-08	4.009E-07	1.952E-07
33	0.745	5.240E-05	5.553E-05	5.397E-05	82	3.510	8.729E-08	5.128E-07	3.001E-07
34	0.775	5.218E-05	5.531E-05	5.375E-05	83	3.590	-3.161E-08	3.340E-07	1.512E-07
35	0.810	4.921E-05	5.254E-05	5.087E-05	84	3.670	1.012E-07	4.557E-07	2.784E-07
36	0.850	1.024E-04	1.062E-04	1.043E-04	85	3.750	1.293E-07	4.484E-07	2.889E-07
37	0.890	1.316E-04	1.356E-04	1.336E-04	86	3.830	4.502E-08	3.302E-07	1.876E-07
38	0.930	9.807E-05	1.016E-04	9.981E-05	87	3.915	4.811E-08	3.387E-07	1.934E-07
39	0.970	5.824E-05	6.122E-05	5.973E-05	88	4.005	2.336E-07	5.019E-07	3.678E-07
40	1.010	5.133E-05	5.428E-05	5.280E-05	89	4.095	2.753E-07	5.361E-07	4.057E-07
41	1.050	4.779E-05	5.059E-05	4.919E-05	90	4.185	1.132E-07	3.221E-07	2.176E-07
42	1.090	3.517E-05	3.767E-05	3.642E-05	91	4.275	-5.233E-08	1.464E-07	4.702E-08
43	1.130	2.769E-05	2.996E-05	2.882E-05	92	4.365	-9.982E-08	8.697E-08	-6.426E-09
44	1.170	2.399E-05	2.613E-05	2.506E-05	93	4.455	-1.003E-07	8.270E-08	-8.813E-09
45	1.210	1.671E-05	1.860E-05	1.765E-05	94	4.550	-9.416E-08	6.602E-08	-1.407E-08
46	1.250	1.674E-05	1.922E-05	1.798E-05	95	4.650	-6.494E-08	7.539E-08	5.223E-09
47	1.295	1.416E-05	1.589E-05	1.503E-05	96	4.750	-1.547E-08	1.147E-07	4.960E-08
48	1.345	1.656E-05	1.863E-05	1.760E-05	97	4.850	2.812E-08	1.164E-07	7.227E-08
49	1.395	4.266E-05	4.518E-05	4.392E-05	98	4.950	4.226E-08	9.801E-08	7.014E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.531E-06	4.836E-05	2.644E-05	50	1.445	4.483E-05	4.689E-05	4.586E-05
2	0.111	1.446E-05	3.300E-05	2.373E-05	51	1.495	2.971E-05	3.145E-05	3.058E-05
3	0.117	-1.776E-05	6.788E-05	2.506E-05	52	1.545	1.514E-05	1.659E-05	1.586E-05
4	0.125	1.638E-05	4.866E-05	3.252E-05	53	1.595	6.262E-06	7.602E-06	6.932E-06
5	0.135	1.520E-05	8.429E-05	4.975E-05	54	1.645	4.328E-06	5.592E-06	4.960E-06
6	0.145	3.531E-05	1.335E-04	8.440E-05	55	1.695	6.181E-06	7.454E-06	6.818E-06
7	0.155	6.291E-05	1.115E-04	8.719E-05	56	1.745	8.355E-06	9.751E-06	9.053E-06
8	0.165	7.990E-05	9.346E-05	8.668E-05	57	1.800	9.661E-06	1.107E-05	1.037E-05
9	0.175	8.003E-05	1.047E-04	9.239E-05	58	1.860	9.792E-06	1.116E-05	1.048E-05
10	0.185	6.463E-05	7.497E-05	6.980E-05	59	1.920	6.449E-06	7.781E-06	7.115E-06
11	0.200	6.700E-05	7.205E-05	6.952E-05	60	1.980	5.434E-06	6.720E-06	6.077E-06
12	0.220	5.587E-05	6.037E-05	5.812E-05	61	2.040	5.392E-06	6.680E-06	6.036E-06
13	0.240	3.360E-05	3.718E-05	3.539E-05	62	2.100	3.658E-06	4.971E-06	4.314E-06
14	0.260	2.208E-05	2.513E-05	2.360E-05	63	2.160	1.599E-06	2.790E-06	2.194E-06
15	0.280	4.235E-05	4.541E-05	4.388E-05	64	2.220	3.589E-06	4.761E-06	4.175E-06
16	0.300	5.558E-05	5.865E-05	5.712E-05	65	2.280	4.994E-06	6.367E-06	5.680E-06
17	0.320	4.953E-05	5.252E-05	5.103E-05	66	2.340	3.661E-06	4.810E-06	4.236E-06
18	0.340	2.941E-05	3.222E-05	3.081E-05	67	2.405	4.913E-06	6.143E-06	5.528E-06
19	0.360	1.814E-05	2.092E-05	1.953E-05	68	2.475	6.314E-06	7.527E-06	6.920E-06
20	0.380	2.823E-05	3.113E-05	2.968E-05	69	2.545	8.113E-06	9.383E-06	8.748E-06
21	0.400	4.643E-05	4.962E-05	4.803E-05	70	2.615	1.594E-05	1.733E-05	1.663E-05
22	0.420	5.331E-05	5.648E-05	5.490E-05	71	2.685	4.704E-06	5.670E-06	5.187E-06
23	0.445	5.887E-05	6.198E-05	6.042E-05	72	2.755	-3.156E-06	-1.478E-06	-2.317E-06
24	0.475	5.324E-05	5.618E-05	5.471E-05	73	2.825	-1.911E-06	-1.103E-06	-1.507E-06
25	0.505	3.342E-05	3.617E-05	3.480E-05	74	2.895	-3.303E-07	2.493E-07	-4.047E-08
26	0.535	4.419E-05	4.697E-05	4.558E-05	75	2.965	5.244E-07	1.095E-06	8.097E-07
27	0.565	5.231E-05	5.512E-05	5.371E-05	76	3.035	6.428E-07	1.219E-06	9.307E-07
28	0.595	2.979E-05	3.237E-05	3.108E-05	77	3.110	6.146E-07	1.168E-06	8.914E-07
29	0.625	3.700E-05	3.968E-05	3.834E-05	78	3.190	4.985E-07	9.823E-07	7.404E-07
30	0.655	5.677E-05	5.954E-05	5.815E-05	79	3.270	4.292E-07	9.015E-07	6.653E-07
31	0.685	3.595E-05	3.845E-05	3.720E-05	80	3.350	3.665E-07	7.887E-07	5.776E-07
32	0.715	2.956E-05	3.196E-05	3.076E-05	81	3.430	4.327E-07	8.121E-07	6.224E-07
33	0.745	4.412E-05	4.665E-05	4.539E-05	82	3.510	2.355E-07	5.712E-07	4.033E-07
34	0.775	4.484E-05	4.739E-05	4.612E-05	83	3.590	3.189E-08	3.406E-07	1.862E-07
35	0.810	3.989E-05	4.258E-05	4.124E-05	84	3.670	1.187E-07	4.348E-07	2.768E-07
36	0.850	8.756E-05	9.065E-05	8.910E-05	85	3.750	9.149E-08	3.356E-07	2.135E-07
37	0.890	1.135E-04	1.167E-04	1.151E-04	86	3.830	-5.252E-08	1.789E-07	6.317E-08
38	0.930	8.290E-05	8.570E-05	8.430E-05	87	3.915	-5.953E-08	1.716E-07	5.603E-08
39	0.970	4.349E-05	4.584E-05	4.467E-05	88	4.005	-5.494E-09	2.537E-07	1.241E-07
40	1.010	3.788E-05	4.019E-05	3.904E-05	89	4.095	5.499E-08	2.810E-07	1.680E-07
41	1.050	3.765E-05	3.990E-05	3.877E-05	90	4.185	7.125E-08	2.899E-07	1.806E-07
42	1.090	2.929E-05	3.133E-05	3.031E-05	91	4.275	3.166E-08	2.400E-07	1.358E-07
43	1.130	2.392E-05	2.578E-05	2.485E-05	92	4.365	-5.387E-08	1.553E-07	5.071E-08
44	1.170	1.766E-05	1.935E-05	1.850E-05	93	4.455	-1.334E-07	8.316E-08	-2.511E-08
45	1.210	1.324E-05	1.476E-05	1.400E-05	94	4.550	-1.758E-07	1.612E-08	-7.985E-08
46	1.250	1.121E-05	1.317E-05	1.219E-05	95	4.650	-1.465E-07	2.856E-08	-5.899E-08
47	1.295	9.945E-06	1.135E-05	1.065E-05	96	4.750	-5.804E-08	9.292E-08	1.744E-08
48	1.345	1.343E-05	1.512E-05	1.427E-05	97	4.850	2.736E-08	1.336E-07	8.049E-08
49	1.395	3.759E-05	3.967E-05	3.863E-05	98	4.950	6.613E-08	1.410E-07	1.035E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 6950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-4.953E-06	2.994E-05	1.250E-05	50	1.445	3.720E-05	3.911E-05	3.816E-05
2	0.111	9.852E-06	2.476E-05	1.730E-05	51	1.495	2.211E-05	2.367E-05	2.289E-05
3	0.117	-1.118E-05	5.750E-05	2.316E-05	52	1.545	1.157E-05	1.291E-05	1.224E-05
4	0.125	1.509E-05	4.086E-05	2.797E-05	53	1.595	6.775E-06	8.078E-06	7.427E-06
5	0.135	1.347E-05	7.076E-05	4.211E-05	54	1.645	4.112E-06	5.301E-06	4.706E-06
6	0.145	3.065E-05	1.120E-04	7.131E-05	55	1.695	5.681E-06	6.907E-06	6.294E-06
7	0.155	5.014E-05	9.016E-05	7.015E-05	56	1.745	6.493E-06	7.819E-06	7.156E-06
8	0.165	6.383E-05	7.566E-05	6.975E-05	57	1.800	7.208E-06	8.529E-06	7.868E-06
9	0.175	6.371E-05	8.513E-05	7.442E-05	58	1.860	9.054E-06	1.040E-05	9.726E-06
10	0.185	4.950E-05	5.850E-05	5.400E-05	59	1.920	5.827E-06	7.077E-06	6.452E-06
11	0.200	5.546E-05	5.997E-05	5.771E-05	60	1.980	3.562E-06	4.729E-06	4.146E-06
12	0.220	4.992E-05	5.397E-05	5.194E-05	61	2.040	4.186E-06	5.448E-06	4.817E-06
13	0.240	2.515E-05	2.830E-05	2.672E-05	62	2.100	3.481E-06	4.692E-06	4.086E-06
14	0.260	1.194E-05	1.460E-05	1.327E-05	63	2.160	4.652E-07	1.609E-06	1.037E-06
15	0.280	2.978E-05	3.247E-05	3.112E-05	64	2.220	3.219E-06	4.383E-06	3.801E-06
16	0.300	3.789E-05	4.058E-05	3.923E-05	65	2.280	3.871E-06	5.295E-06	4.583E-06
17	0.320	3.270E-05	3.533E-05	3.402E-05	66	2.340	1.622E-06	2.837E-06	2.230E-06
18	0.340	2.215E-05	2.468E-05	2.342E-05	67	2.405	4.553E-06	5.809E-06	5.181E-06
19	0.360	1.555E-05	1.809E-05	1.682E-05	68	2.475	5.210E-06	6.522E-06	5.866E-06
20	0.380	2.235E-05	2.499E-05	2.367E-05	69	2.545	7.527E-06	8.919E-06	8.223E-06
21	0.400	3.862E-05	4.154E-05	4.008E-05	70	2.615	1.192E-05	1.337E-05	1.264E-05
22	0.420	4.632E-05	4.922E-05	4.777E-05	71	2.685	3.580E-06	4.858E-06	4.219E-06
23	0.445	4.568E-05	4.848E-05	4.708E-05	72	2.755	-1.781E-06	3.972E-07	-6.917E-07
24	0.475	3.945E-05	4.210E-05	4.077E-05	73	2.825	-1.557E-06	1.198E-07	-7.187E-07
25	0.505	3.197E-05	3.454E-05	3.325E-05	74	2.895	-3.509E-07	4.953E-07	7.222E-08
26	0.535	3.982E-05	4.239E-05	4.111E-05	75	2.965	2.184E-07	1.015E-06	6.165E-07
27	0.565	4.507E-05	4.765E-05	4.636E-05	76	3.035	1.494E-07	9.516E-07	5.505E-07
28	0.595	2.208E-05	2.440E-05	2.324E-05	77	3.110	2.388E-07	1.072E-06	6.556E-07
29	0.625	3.021E-05	3.266E-05	3.144E-05	78	3.190	3.126E-08	8.892E-07	4.603E-07
30	0.655	4.827E-05	5.081E-05	4.954E-05	79	3.270	-2.948E-07	5.126E-07	1.089E-07
31	0.685	3.159E-05	3.390E-05	3.274E-05	80	3.350	-1.658E-07	5.703E-07	2.022E-07
32	0.715	2.447E-05	2.666E-05	2.557E-05	81	3.430	-5.372E-09	6.771E-07	3.359E-07
33	0.745	3.769E-05	4.002E-05	3.886E-05	82	3.510	2.400E-07	8.754E-07	5.577E-07
34	0.775	3.834E-05	4.068E-05	3.951E-05	83	3.590	3.168E-07	9.875E-07	6.521E-07
35	0.810	3.344E-05	3.590E-05	3.467E-05	84	3.670	2.200E-07	9.443E-07	5.822E-07
36	0.850	7.532E-05	7.817E-05	7.675E-05	85	3.750	2.728E-08	8.856E-07	4.565E-07
37	0.890	9.320E-05	9.614E-05	9.467E-05	86	3.830	-2.170E-07	6.998E-07	2.414E-07
38	0.930	6.673E-05	6.927E-05	6.800E-05	87	3.915	-3.728E-07	5.906E-07	1.089E-07
39	0.970	3.362E-05	3.573E-05	3.467E-05	88	4.005	-4.856E-07	5.357E-07	2.507E-08
40	1.010	2.948E-05	3.157E-05	3.053E-05	89	4.095	-5.396E-07	5.000E-07	-1.977E-08
41	1.050	3.074E-05	3.280E-05	3.177E-05	90	4.185	-5.605E-07	5.959E-07	1.771E-08
42	1.090	2.289E-05	2.474E-05	2.382E-05	91	4.275	-6.583E-07	6.678E-07	4.757E-09
43	1.130	1.870E-05	2.039E-05	1.954E-05	92	4.365	-8.080E-07	4.984E-07	-1.548E-07
44	1.170	1.592E-05	1.751E-05	1.671E-05	93	4.455	-9.276E-07	2.707E-07	-3.285E-07
45	1.210	1.071E-05	1.211E-05	1.141E-05	94	4.550	-9.304E-07	2.467E-07	-3.419E-07
46	1.250	8.512E-06	1.032E-05	9.416E-06	95	4.650	-6.949E-07	4.508E-07	-1.220E-07
47	1.295	9.068E-06	1.039E-05	9.729E-06	96	4.750	-2.912E-07	6.629E-07	1.859E-07
48	1.345	1.112E-05	1.270E-05	1.191E-05	97	4.850	8.972E-08	7.502E-07	4.199E-07
49	1.395	3.173E-05	3.364E-05	3.268E-05	98	4.950	1.815E-07	7.410E-07	4.612E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 7950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-8.758E-06	1.520E-05	3.221E-06	50	1.445	2.814E-05	2.931E-05	2.872E-05
2	0.111	-1.429E-06	8.212E-06	3.391E-06	51	1.495	1.648E-05	1.747E-05	1.697E-05
3	0.117	-1.420E-05	3.370E-05	9.750E-06	52	1.545	9.090E-06	9.919E-06	9.505E-06
4	0.125	1.124E-05	2.852E-05	1.988E-05	53	1.595	5.119E-06	5.919E-06	5.519E-06
5	0.135	1.005E-05	5.274E-05	3.140E-05	54	1.645	2.168E-06	2.925E-06	2.547E-06
6	0.145	2.313E-05	8.353E-05	5.333E-05	55	1.695	3.433E-06	4.183E-06	3.808E-06
7	0.155	3.955E-05	6.951E-05	5.453E-05	56	1.745	3.759E-06	4.608E-06	4.183E-06
8	0.165	4.973E-05	5.801E-05	5.387E-05	57	1.800	5.702E-06	6.566E-06	6.134E-06
9	0.175	4.905E-05	6.414E-05	5.660E-05	58	1.860	6.561E-06	7.412E-06	6.986E-06
10	0.185	3.662E-05	4.293E-05	3.978E-05	59	1.920	4.917E-06	5.714E-06	5.316E-06
11	0.200	4.378E-05	4.684E-05	4.531E-05	60	1.980	2.513E-06	3.282E-06	2.897E-06
12	0.220	4.864E-05	5.123E-05	4.994E-05	61	2.040	2.168E-06	2.952E-06	2.560E-06
13	0.240	2.340E-05	2.530E-05	2.435E-05	62	2.100	3.698E-06	4.492E-06	4.095E-06
14	0.260	4.239E-06	5.791E-06	5.015E-06	63	2.160	2.331E-06	3.090E-06	2.711E-06
15	0.280	2.109E-05	2.271E-05	2.190E-05	64	2.220	3.416E-06	4.250E-06	3.833E-06
16	0.300	2.823E-05	2.987E-05	2.905E-05	65	2.280	4.283E-06	5.418E-06	4.850E-06
17	0.320	2.239E-05	2.398E-05	2.319E-05	66	2.340	1.587E-06	2.478E-06	2.033E-06
18	0.340	1.322E-05	1.475E-05	1.398E-05	67	2.405	3.627E-06	4.514E-06	4.071E-06
19	0.360	9.922E-06	1.148E-05	1.070E-05	68	2.475	5.833E-06	6.810E-06	6.321E-06
20	0.380	1.934E-05	2.099E-05	2.017E-05	69	2.545	5.869E-06	6.815E-06	6.342E-06
21	0.400	3.176E-05	3.357E-05	3.267E-05	70	2.615	9.563E-06	1.062E-05	1.009E-05
22	0.420	3.582E-05	3.759E-05	3.670E-05	71	2.685	2.219E-06	3.028E-06	2.624E-06
23	0.445	3.054E-05	3.223E-05	3.138E-05	72	2.755	-3.297E-06	-1.070E-06	-2.184E-06
24	0.475	2.652E-05	2.814E-05	2.733E-05	73	2.825	-1.386E-06	1.901E-07	-5.981E-07
25	0.505	2.364E-05	2.523E-05	2.444E-05	74	2.895	-6.126E-08	5.691E-07	2.539E-07
26	0.535	3.463E-05	3.626E-05	3.545E-05	75	2.965	5.257E-08	6.082E-07	3.304E-07
27	0.565	4.218E-05	4.383E-05	4.300E-05	76	3.035	1.857E-07	7.314E-07	4.586E-07
28	0.595	1.629E-05	1.773E-05	1.701E-05	77	3.110	-7.708E-08	4.967E-07	2.098E-07
29	0.625	2.001E-05	2.151E-05	2.076E-05	78	3.190	-1.495E-07	4.625E-07	1.565E-07
30	0.655	4.085E-05	4.246E-05	4.165E-05	79	3.270	-2.291E-08	5.912E-07	2.842E-07
31	0.685	2.764E-05	2.911E-05	2.837E-05	80	3.350	-1.859E-07	2.929E-07	5.353E-08
32	0.715	2.026E-05	2.163E-05	2.094E-05	81	3.430	1.381E-07	5.316E-07	3.348E-07
33	0.745	2.912E-05	3.056E-05	2.984E-05	82	3.510	2.905E-07	6.171E-07	4.538E-07
34	0.775	2.878E-05	3.022E-05	2.950E-05	83	3.590	1.392E-07	5.221E-07	3.306E-07
35	0.810	2.710E-05	2.865E-05	2.787E-05	84	3.670	1.215E-07	5.747E-07	3.481E-07
36	0.850	5.943E-05	6.121E-05	6.032E-05	85	3.750	1.536E-07	6.706E-07	4.121E-07
37	0.890	7.597E-05	7.782E-05	7.689E-05	86	3.830	5.838E-08	5.815E-07	3.199E-07
38	0.930	5.266E-05	5.424E-05	5.345E-05	87	3.915	-9.757E-08	4.119E-07	1.572E-07
39	0.970	2.852E-05	2.985E-05	2.918E-05	88	4.005	-2.321E-07	4.035E-07	8.566E-08
40	1.010	2.225E-05	2.355E-05	2.290E-05	89	4.095	-2.673E-07	4.778E-07	1.052E-07
41	1.050	2.406E-05	2.534E-05	2.470E-05	90	4.185	-3.741E-07	4.826E-07	5.425E-08
42	1.090	1.845E-05	1.961E-05	1.903E-05	91	4.275	-5.699E-07	3.440E-07	-1.130E-07
43	1.130	1.559E-05	1.665E-05	1.612E-05	92	4.365	-6.862E-07	1.729E-07	-2.566E-07
44	1.170	1.343E-05	1.441E-05	1.392E-05	93	4.455	-7.266E-07	1.076E-07	-3.095E-07
45	1.210	8.232E-06	9.095E-06	8.663E-06	94	4.550	-7.630E-07	1.950E-07	-2.840E-07
46	1.250	7.258E-06	8.388E-06	7.823E-06	95	4.650	-6.092E-07	3.033E-07	-1.530E-07
47	1.295	7.209E-06	8.041E-06	7.625E-06	96	4.750	-2.974E-07	4.363E-07	6.946E-08
48	1.345	1.007E-05	1.107E-05	1.057E-05	97	4.850	4.673E-08	5.371E-07	2.919E-07
49	1.395	2.477E-05	2.597E-05	2.537E-05	98	4.950	1.427E-07	5.922E-07	3.674E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 9950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-8.035E-06	1.072E-05	1.345E-06	50	1.445	2.156E-05	2.260E-05	2.208E-05
2	0.111	2.856E-06	1.068E-05	6.770E-06	51	1.495	1.139E-05	1.222E-05	1.180E-05
3	0.117	-7.026E-06	3.034E-05	1.166E-05	52	1.545	5.101E-06	5.821E-06	5.461E-06
4	0.125	7.031E-06	2.075E-05	1.389E-05	53	1.595	3.679E-06	4.409E-06	4.044E-06
5	0.135	7.132E-06	3.997E-05	2.355E-05	54	1.645	3.314E-06	3.988E-06	3.651E-06
6	0.145	1.802E-05	6.456E-05	4.129E-05	55	1.695	2.771E-06	3.424E-06	3.097E-06
7	0.155	2.868E-05	5.158E-05	4.013E-05	56	1.745	2.869E-06	3.591E-06	3.230E-06
8	0.165	3.665E-05	4.348E-05	4.006E-05	57	1.800	5.248E-06	5.988E-06	5.618E-06
9	0.175	3.610E-05	4.848E-05	4.229E-05	58	1.860	5.970E-06	6.730E-06	6.350E-06
10	0.185	2.747E-05	3.267E-05	3.007E-05	59	1.920	3.926E-06	4.625E-06	4.275E-06
11	0.200	3.163E-05	3.424E-05	3.294E-05	60	1.980	1.676E-06	2.319E-06	1.998E-06
12	0.220	3.537E-05	3.774E-05	3.656E-05	61	2.040	2.620E-06	3.311E-06	2.965E-06
13	0.240	2.029E-05	2.210E-05	2.119E-05	62	2.100	1.888E-06	2.563E-06	2.226E-06
14	0.260	5.558E-06	7.018E-06	6.288E-06	63	2.160	-5.017E-07	9.485E-08	-2.034E-07
15	0.280	1.514E-05	1.661E-05	1.587E-05	64	2.220	2.743E-06	3.413E-06	3.078E-06
16	0.300	1.985E-05	2.133E-05	2.059E-05	65	2.280	1.804E-06	2.511E-06	2.158E-06
17	0.320	1.522E-05	1.666E-05	1.594E-05	66	2.340	5.553E-07	1.131E-06	8.433E-07
18	0.340	1.062E-05	1.202E-05	1.132E-05	67	2.405	2.924E-06	3.614E-06	3.269E-06
19	0.360	8.511E-06	9.942E-06	9.227E-06	68	2.475	3.197E-06	3.850E-06	3.524E-06
20	0.380	1.374E-05	1.524E-05	1.449E-05	69	2.545	5.118E-06	5.831E-06	5.475E-06
21	0.400	2.235E-05	2.398E-05	2.316E-05	70	2.615	7.409E-06	8.137E-06	7.773E-06
22	0.420	2.432E-05	2.590E-05	2.511E-05	71	2.685	2.350E-06	2.932E-06	2.641E-06
23	0.445	1.826E-05	1.975E-05	1.901E-05	72	2.755	-1.091E-06	-1.183E-07	-6.046E-07
24	0.475	1.680E-05	1.825E-05	1.752E-05	73	2.825	-7.425E-07	-1.637E-07	-4.531E-07
25	0.505	1.931E-05	2.078E-05	2.004E-05	74	2.895	-1.214E-08	3.216E-07	1.548E-07
26	0.535	2.736E-05	2.887E-05	2.812E-05	75	2.965	-9.663E-08	1.992E-07	5.127E-08
27	0.565	3.415E-05	3.568E-05	3.492E-05	76	3.035	-5.796E-08	2.313E-07	8.668E-08
28	0.595	1.263E-05	1.394E-05	1.329E-05	77	3.110	3.837E-07	6.993E-07	5.415E-07
29	0.625	1.653E-05	1.792E-05	1.723E-05	78	3.190	3.876E-07	7.136E-07	5.506E-07
30	0.655	3.182E-05	3.331E-05	3.256E-05	79	3.270	2.060E-07	4.974E-07	3.517E-07
31	0.685	2.212E-05	2.347E-05	2.280E-05	80	3.350	-7.102E-08	1.749E-07	5.195E-08
32	0.715	1.568E-05	1.694E-05	1.631E-05	81	3.430	-3.756E-08	1.969E-07	7.966E-08
33	0.745	2.314E-05	2.447E-05	2.381E-05	82	3.510	1.005E-07	3.252E-07	2.128E-07
34	0.775	2.414E-05	2.547E-05	2.480E-05	83	3.590	7.991E-08	2.902E-07	1.851E-07
35	0.810	1.902E-05	2.040E-05	1.971E-05	84	3.670	3.401E-08	2.366E-07	1.353E-07
36	0.850	4.319E-05	4.480E-05	4.399E-05	85	3.750	-1.566E-08	1.830E-07	8.368E-08
37	0.890	5.617E-05	5.784E-05	5.700E-05	86	3.830	-3.319E-08	1.706E-07	6.870E-08
38	0.930	4.122E-05	4.268E-05	4.195E-05	87	3.915	-5.448E-08	1.735E-07	5.952E-08
39	0.970	2.138E-05	2.258E-05	2.198E-05	88	4.005	-4.350E-08	1.895E-07	7.302E-08
40	1.010	1.478E-05	1.592E-05	1.535E-05	89	4.095	-1.017E-08	2.432E-07	1.165E-07
41	1.050	1.631E-05	1.746E-05	1.689E-05	90	4.185	-2.474E-08	2.311E-07	1.032E-07
42	1.090	1.474E-05	1.582E-05	1.528E-05	91	4.275	-6.749E-08	1.953E-07	6.390E-08
43	1.130	1.311E-05	1.410E-05	1.360E-05	92	4.365	-1.132E-07	1.469E-07	1.683E-08
44	1.170	1.023E-05	1.112E-05	1.068E-05	93	4.455	-1.934E-07	8.350E-08	-5.496E-08
45	1.210	6.733E-06	7.516E-06	7.125E-06	94	4.550	-2.430E-07	3.991E-08	-1.015E-07
46	1.250	6.046E-06	7.063E-06	6.554E-06	95	4.650	-1.985E-07	5.520E-08	-7.164E-08
47	1.295	4.802E-06	5.532E-06	5.167E-06	96	4.750	-1.030E-07	1.079E-07	2.426E-09
48	1.345	9.218E-06	1.015E-05	9.683E-06	97	4.850	8.778E-09	1.565E-07	8.263E-08
49	1.395	1.991E-05	2.100E-05	2.046E-05	98	4.950	6.490E-08	1.841E-07	1.245E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 11950 SEC

COUNTING TIME : 3000 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	-1.732E-05	1.946E-05	1.073E-06	50 1.445	1.508E-05	1.577E-05	1.542E-05
2 0.111	-1.448E-05	2.496E-05	5.239E-06	51 1.495	6.947E-06	7.490E-06	7.218E-06
3 0.117	-1.865E-05	3.764E-05	9.492E-06	52 1.545	4.170E-06	4.663E-06	4.416E-06
4 0.125	-3.080E-06	2.374E-05	1.033E-05	53 1.595	2.338E-06	2.823E-06	2.581E-06
5 0.135	3.640E-06	2.909E-05	1.636E-05	54 1.645	1.236E-06	1.681E-06	1.458E-06
6 0.145	1.392E-05	5.118E-05	3.255E-05	55 1.695	2.373E-06	2.837E-06	2.605E-06
7 0.155	1.947E-05	3.761E-05	2.854E-05	56 1.745	2.559E-06	3.052E-06	2.806E-06
8 0.165	2.546E-05	3.039E-05	2.793E-05	57 1.800	3.351E-06	3.860E-06	3.606E-06
9 0.175	2.794E-05	3.698E-05	3.246E-05	58 1.860	3.835E-06	4.333E-06	4.084E-06
10 0.185	1.854E-05	2.230E-05	2.042E-05	59 1.920	3.069E-06	3.561E-06	3.315E-06
11 0.200	2.619E-05	2.804E-05	2.711E-05	60 1.980	9.911E-07	1.438E-06	1.215E-06
12 0.220	3.182E-05	3.344E-05	3.263E-05	61 2.040	2.764E-06	3.267E-06	3.015E-06
13 0.240	1.641E-05	1.759E-05	1.700E-05	62 2.100	2.167E-06	2.663E-06	2.415E-06
14 0.260	1.534E-06	2.465E-06	1.999E-06	63 2.160	8.562E-07	1.290E-06	1.073E-06
15 0.280	1.087E-05	1.184E-05	1.135E-05	64 2.220	9.485E-07	1.374E-06	1.161E-06
16 0.300	1.328E-05	1.425E-05	1.376E-05	65 2.280	1.017E-06	1.577E-06	1.297E-06
17 0.320	9.251E-06	1.019E-05	9.721E-06	66 2.340	-1.065E-07	3.329E-07	1.132E-07
18 0.340	7.111E-06	8.040E-06	7.576E-06	67 2.405	1.525E-06	2.001E-06	1.763E-06
19 0.360	6.535E-06	7.494E-06	7.015E-06	68 2.475	3.162E-06	3.668E-06	3.415E-06
20 0.380	9.808E-06	1.081E-05	1.031E-05	69 2.545	3.750E-06	4.249E-06	4.000E-06
21 0.400	1.580E-05	1.688E-05	1.634E-05	70 2.615	6.370E-06	6.920E-06	6.645E-06
22 0.420	1.695E-05	1.799E-05	1.747E-05	71 2.685	1.688E-06	2.093E-06	1.891E-06
23 0.445	1.248E-05	1.346E-05	1.297E-05	72 2.755	-1.055E-06	-1.287E-07	-5.918E-07
24 0.475	1.064E-05	1.160E-05	1.112E-05	73 2.825	-5.410E-07	9.403E-08	-2.235E-07
25 0.505	1.381E-05	1.481E-05	1.431E-05	74 2.895	1.219E-07	3.670E-07	2.444E-07
26 0.535	2.461E-05	2.567E-05	2.514E-05	75 2.965	7.214E-08	2.682E-07	1.702E-07
27 0.565	3.124E-05	3.230E-05	3.177E-05	76 3.035	1.675E-07	3.641E-07	2.658E-07
28 0.595	8.670E-06	9.536E-06	9.103E-06	77 3.110	3.631E-07	5.958E-07	4.795E-07
29 0.625	9.826E-06	1.073E-05	1.028E-05	78 3.190	6.239E-08	2.399E-07	1.511E-07
30 0.655	2.628E-05	2.730E-05	2.679E-05	79 3.270	1.025E-07	3.033E-07	2.029E-07
31 0.685	1.862E-05	1.955E-05	1.908E-05	80 3.350	3.971E-09	1.956E-07	9.980E-08
32 0.715	1.384E-05	1.470E-05	1.427E-05	81 3.430	-4.930E-08	1.540E-07	5.237E-08
33 0.745	1.706E-05	1.795E-05	1.751E-05	82 3.510	-2.910E-10	1.656E-07	8.268E-08
34 0.775	1.731E-05	1.819E-05	1.775E-05	83 3.590	-1.217E-08	1.604E-07	7.409E-08
35 0.810	1.436E-05	1.528E-05	1.482E-05	84 3.670	2.314E-08	1.644E-07	9.377E-08
36 0.850	2.858E-05	2.962E-05	2.910E-05	85 3.750	6.742E-09	1.404E-07	7.357E-08
37 0.890	3.539E-05	3.646E-05	3.593E-05	86 3.830	-6.308E-08	8.618E-08	1.155E-08
38 0.930	2.651E-05	2.746E-05	2.698E-05	87 3.915	-7.374E-08	6.677E-08	-3.485E-09
39 0.970	1.492E-05	1.572E-05	1.532E-05	88 4.005	-5.243E-08	1.615E-07	5.455E-08
40 1.010	1.161E-05	1.239E-05	1.200E-05	89 4.095	2.679E-08	1.620E-07	9.439E-08
41 1.050	1.251E-05	1.328E-05	1.290E-05	90 4.185	4.052E-08	1.483E-07	9.440E-08
42 1.090	9.166E-06	9.871E-06	9.519E-06	91 4.275	9.784E-09	1.426E-07	7.620E-08
43 1.130	9.328E-06	9.991E-06	9.660E-06	92 4.365	-1.031E-08	1.061E-07	4.791E-08
44 1.170	8.011E-06	8.627E-06	8.319E-06	93 4.455	-3.175E-08	6.846E-08	1.835E-08
45 1.210	4.940E-06	5.468E-06	5.204E-06	94 4.550	-6.473E-08	2.577E-08	-1.948E-08
46 1.250	4.732E-06	5.445E-06	5.088E-06	95 4.650	-7.692E-08	1.612E-08	-3.040E-08
47 1.295	5.214E-06	5.738E-06	5.476E-06	96 4.750	-4.210E-08	3.842E-08	-1.839E-09
48 1.345	7.658E-06	8.301E-06	7.980E-06	97 4.850	5.366E-09	6.152E-08	3.344E-08
49 1.395	1.662E-05	1.737E-05	1.699E-05	98 4.950	3.410E-08	7.328E-08	5.369E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>233</sup>U BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 14950 SEC

COUNTING TIME : 3000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-6.146E-06	2.731E-05	1.058E-05	50	1.445	1.205E-05	1.268E-05	1.237E-05
2	0.111	-6.747E-06	3.141E-05	1.233E-05	51	1.495	4.964E-06	5.450E-06	5.207E-06
3	0.117	-1.342E-05	3.664E-05	1.161E-05	52	1.545	2.759E-06	3.204E-06	2.982E-06
4	0.125	-2.828E-06	2.216E-05	9.665E-06	53	1.595	1.107E-06	1.535E-06	1.321E-06
5	0.135	3.883E-06	2.340E-05	1.364E-05	54	1.645	1.540E-06	1.958E-06	1.749E-06
6	0.145	7.728E-06	3.821E-05	2.297E-05	55	1.695	1.994E-06	2.432E-06	2.213E-06
7	0.155	1.570E-05	3.007E-05	2.289E-05	56	1.745	1.656E-06	2.107E-06	1.882E-06
8	0.165	1.963E-05	2.380E-05	2.172E-05	57	1.800	2.612E-06	3.098E-06	2.855E-06
9	0.175	1.775E-05	2.525E-05	2.150E-05	58	1.860	2.941E-06	3.417E-06	3.179E-06
10	0.185	1.465E-05	1.779E-05	1.622E-05	59	1.920	2.918E-06	3.381E-06	3.150E-06
11	0.200	1.927E-05	2.088E-05	2.007E-05	60	1.980	1.515E-06	1.942E-06	1.728E-06
12	0.220	2.481E-05	2.631E-05	2.556E-05	61	2.040	1.503E-06	1.933E-06	1.718E-06
13	0.240	1.562E-05	1.676E-05	1.619E-05	62	2.100	4.510E-07	8.666E-07	6.588E-07
14	0.260	6.618E-06	7.533E-06	7.076E-06	63	2.160	-4.804E-07	-1.000E-07	-2.902E-07
15	0.280	9.933E-06	1.082E-05	1.037E-05	64	2.220	1.249E-06	1.657E-06	1.453E-06
16	0.300	1.104E-05	1.191E-05	1.147E-05	65	2.280	9.990E-07	1.528E-06	1.263E-06
17	0.320	6.942E-06	7.763E-06	7.352E-06	66	2.340	1.899E-07	7.168E-07	4.533E-07
18	0.340	4.900E-06	5.701E-06	5.301E-06	67	2.405	1.479E-06	1.963E-06	1.721E-06
19	0.360	3.686E-06	4.507E-06	4.096E-06	68	2.475	2.539E-06	3.107E-06	2.823E-06
20	0.380	6.357E-06	7.209E-06	6.783E-06	69	2.545	2.702E-06	3.275E-06	2.989E-06
21	0.400	1.092E-05	1.184E-05	1.138E-05	70	2.615	4.764E-06	5.387E-06	5.076E-06
22	0.420	1.087E-05	1.175E-05	1.131E-05	71	2.685	8.983E-07	1.404E-06	1.151E-06
23	0.445	6.834E-06	7.660E-06	7.247E-06	72	2.755	-1.669E-06	-7.103E-07	-1.190E-06
24	0.475	5.649E-06	6.465E-06	6.057E-06	73	2.825	-7.129E-07	2.661E-07	-2.234E-07
25	0.505	1.229E-05	1.318E-05	1.273E-05	74	2.895	-1.256E-07	3.400E-07	1.072E-07
26	0.535	2.025E-05	2.119E-05	2.072E-05	75	2.965	-1.005E-07	3.105E-07	1.050E-07
27	0.565	2.534E-05	2.628E-05	2.581E-05	76	3.035	-1.657E-07	2.496E-07	4.198E-08
28	0.595	5.909E-06	6.647E-06	6.278E-06	77	3.110	-9.272E-08	3.648E-07	1.361E-07
29	0.625	5.610E-06	6.373E-06	5.991E-06	78	3.190	-3.175E-08	5.014E-07	2.348E-07
30	0.655	2.091E-05	2.181E-05	2.136E-05	79	3.270	-1.577E-07	3.109E-07	7.656E-08
31	0.685	1.594E-05	1.677E-05	1.635E-05	80	3.350	-3.089E-07	1.069E-07	-1.010E-07
32	0.715	1.027E-05	1.103E-05	1.065E-05	81	3.430	-1.724E-07	1.789E-07	3.243E-09
33	0.745	1.433E-05	1.513E-05	1.473E-05	82	3.510	-4.931E-09	3.098E-07	1.524E-07
34	0.775	1.460E-05	1.539E-05	1.499E-05	83	3.590	-2.315E-09	3.153E-07	1.565E-07
35	0.810	1.055E-05	1.134E-05	1.095E-05	84	3.670	-1.759E-08	2.685E-07	1.255E-07
36	0.850	1.865E-05	1.952E-05	1.908E-05	85	3.750	-5.387E-08	2.343E-07	9.022E-08
37	0.890	2.207E-05	2.296E-05	2.252E-05	86	3.830	-1.054E-07	2.679E-07	8.121E-08
38	0.930	1.824E-05	1.905E-05	1.865E-05	87	3.915	-1.188E-07	3.614E-07	1.213E-07
39	0.970	1.067E-05	1.138E-05	1.103E-05	88	4.005	-8.565E-08	4.272E-07	1.708E-07
40	1.010	8.962E-06	9.660E-06	9.311E-06	89	4.095	-6.616E-08	4.428E-07	1.883E-07
41	1.050	8.974E-06	9.663E-06	9.318E-06	90	4.185	-1.744E-07	4.341E-07	1.299E-07
42	1.090	7.857E-06	8.500E-06	8.178E-06	91	4.275	-3.508E-07	3.485E-07	-1.136E-09
43	1.130	7.182E-06	7.779E-06	7.480E-06	92	4.365	-5.541E-07	1.986E-07	-1.777E-07
44	1.170	6.677E-06	7.235E-06	6.956E-06	93	4.455	-6.857E-07	2.544E-08	-3.301E-07
45	1.210	4.099E-06	4.585E-06	4.342E-06	94	4.550	-6.929E-07	4.755E-08	-3.227E-07
46	1.250	3.422E-06	4.060E-06	3.741E-06	95	4.650	-4.950E-07	2.268E-07	-1.341E-07
47	1.295	4.377E-06	4.864E-06	4.620E-06	96	4.750	-2.280E-07	3.917E-07	8.187E-08
48	1.345	5.766E-06	6.353E-06	6.060E-06	97	4.850	1.350E-08	4.602E-07	2.368E-07
49	1.395	1.312E-05	1.380E-05	1.346E-05	98	4.950	7.895E-08	4.681E-07	2.735E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 17950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-5.430E-06	1.990E-05	7.236E-06	50	1.445	8.941E-06	9.401E-06	9.171E-06
2	0.111	-4.402E-06	2.421E-05	9.905E-06	51	1.495	4.351E-06	4.708E-06	4.529E-06
3	0.117	-9.251E-06	2.877E-05	9.758E-06	52	1.545	1.934E-06	2.245E-06	2.090E-06
4	0.125	-4.002E-06	1.466E-05	5.328E-06	53	1.595	1.142E-06	1.453E-06	1.298E-06
5	0.135	7.895E-07	1.599E-05	8.392E-06	54	1.645	4.481E-07	7.373E-07	5.927E-07
6	0.145	9.990E-06	3.352E-05	2.176E-05	55	1.695	1.388E-06	1.695E-06	1.542E-06
7	0.155	1.113E-05	2.223E-05	1.668E-05	56	1.745	1.668E-06	2.024E-06	1.846E-06
8	0.165	1.343E-05	1.669E-05	1.506E-05	57	1.800	1.526E-06	1.861E-06	1.693E-06
9	0.175	1.619E-05	2.206E-05	1.912E-05	58	1.860	2.147E-06	2.505E-06	2.326E-06
10	0.185	8.964E-06	1.143E-05	1.020E-05	59	1.920	1.728E-06	2.070E-06	1.899E-06
11	0.200	1.715E-05	1.841E-05	1.778E-05	60	1.980	4.192E-07	7.355E-07	5.774E-07
12	0.220	2.439E-05	2.556E-05	2.497E-05	61	2.040	4.292E-07	7.332E-07	5.812E-07
13	0.240	1.424E-05	1.508E-05	1.466E-05	62	2.100	1.299E-06	1.632E-06	1.466E-06
14	0.260	1.728E-06	2.359E-06	2.043E-06	63	2.160	1.798E-08	3.501E-07	1.840E-07
15	0.280	8.265E-06	8.924E-06	8.595E-06	64	2.220	-5.472E-09	6.489E-07	3.217E-07
16	0.300	8.582E-06	9.230E-06	8.906E-06	65	2.280	1.051E-06	1.473E-06	1.262E-06
17	0.320	4.748E-06	5.353E-06	5.051E-06	66	2.340	6.404E-07	1.084E-06	8.621E-07
18	0.340	2.868E-06	3.456E-06	3.162E-06	67	2.405	1.195E-06	1.618E-06	1.407E-06
19	0.360	2.932E-06	3.544E-06	3.238E-06	68	2.475	1.762E-06	2.096E-06	1.929E-06
20	0.380	4.804E-06	5.437E-06	5.120E-06	69	2.545	1.574E-06	1.908E-06	1.741E-06
21	0.400	7.173E-06	7.848E-06	7.511E-06	70	2.615	4.066E-06	4.426E-06	4.246E-06
22	0.420	7.525E-06	8.178E-06	7.852E-06	71	2.685	1.554E-06	1.851E-06	1.702E-06
23	0.445	5.616E-06	6.241E-06	5.929E-06	72	2.755	-1.333E-06	-8.608E-07	-1.097E-06
24	0.475	4.538E-06	5.153E-06	4.845E-06	73	2.825	-8.467E-07	-2.026E-07	-5.246E-07
25	0.505	9.900E-06	1.057E-05	1.024E-05	74	2.895	7.237E-08	2.859E-07	1.791E-07
26	0.535	1.788E-05	1.861E-05	1.824E-05	75	2.965	2.378E-08	1.922E-07	1.080E-07
27	0.565	2.240E-05	2.312E-05	2.276E-05	76	3.035	-1.802E-08	1.246E-07	5.330E-08
28	0.595	3.735E-06	4.261E-06	3.998E-06	77	3.110	7.739E-09	1.303E-07	6.902E-08
29	0.625	2.242E-06	2.779E-06	2.510E-06	78	3.190	-3.566E-08	9.588E-08	3.011E-08
30	0.655	1.709E-05	1.777E-05	1.743E-05	79	3.270	9.276E-08	2.247E-07	1.587E-07
31	0.685	1.387E-05	1.451E-05	1.419E-05	80	3.350	5.712E-08	1.893E-07	1.232E-07
32	0.715	8.742E-06	9.319E-06	9.031E-06	81	3.430	-1.236E-08	8.650E-08	3.707E-08
33	0.745	1.214E-05	1.275E-05	1.245E-05	82	3.510	-7.398E-09	8.429E-08	3.845E-08
34	0.775	1.204E-05	1.264E-05	1.234E-05	83	3.590	2.199E-08	1.118E-07	6.690E-08
35	0.810	8.632E-06	9.208E-06	8.920E-06	84	3.670	3.025E-08	1.205E-07	7.537E-08
36	0.850	1.196E-05	1.257E-05	1.226E-05	85	3.750	1.100E-09	8.377E-08	4.243E-08
37	0.890	1.317E-05	1.379E-05	1.348E-05	86	3.830	-2.460E-08	6.318E-08	1.929E-08
38	0.930	1.231E-05	1.290E-05	1.261E-05	87	3.915	-2.945E-08	6.646E-08	1.850E-08
39	0.970	8.344E-06	8.875E-06	8.609E-06	88	4.005	-8.217E-09	9.082E-08	4.130E-08
40	1.010	7.011E-06	7.531E-06	7.271E-06	89	4.095	9.518E-09	1.066E-07	5.807E-08
41	1.050	7.542E-06	8.058E-06	7.800E-06	90	4.185	-9.209E-09	9.148E-08	4.114E-08
42	1.090	5.052E-06	5.516E-06	5.284E-06	91	4.275	-4.911E-08	6.146E-08	6.177E-09
43	1.130	5.265E-06	5.709E-06	5.487E-06	92	4.365	-8.329E-08	3.281E-08	-2.524E-08
44	1.170	4.999E-06	5.408E-06	5.203E-06	93	4.455	-1.011E-07	4.579E-09	-4.824E-08
45	1.210	2.769E-06	3.122E-06	2.946E-06	94	4.550	-1.012E-07	-6.092E-09	-5.362E-08
46	1.250	2.263E-06	2.726E-06	2.494E-06	95	4.650	-7.517E-08	3.088E-08	-2.214E-08
47	1.295	2.723E-06	3.071E-06	2.897E-06	96	4.750	-3.206E-08	6.461E-08	1.628E-08
48	1.345	5.056E-06	5.495E-06	5.275E-06	97	4.850	1.219E-08	7.385E-08	4.302E-08
49	1.395	1.004E-05	1.054E-05	1.029E-05	98	4.950	3.551E-08	8.094E-08	5.823E-08



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{233}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 21950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-2.972E-06	1.814E-05	7.582E-06	50	1.445	6.822E-06	7.231E-06	7.026E-06
2	0.111	-3.133E-06	2.083E-05	8.850E-06	51	1.495	3.268E-06	3.574E-06	3.421E-06
3	0.117	-8.198E-06	2.344E-05	7.623E-06	52	1.545	1.634E-06	1.905E-06	1.769E-06
4	0.125	-3.433E-06	1.210E-05	4.332E-06	53	1.595	8.176E-07	1.079E-06	9.485E-07
5	0.135	1.727E-06	1.447E-05	8.098E-06	54	1.645	4.131E-07	6.540E-07	5.336E-07
6	0.145	7.885E-06	2.764E-05	1.776E-05	55	1.695	7.246E-07	9.662E-07	8.454E-07
7	0.155	8.900E-06	1.820E-05	1.355E-05	56	1.745	5.724E-07	8.427E-07	7.075E-07
8	0.165	1.089E-05	1.386E-05	1.237E-05	57	1.800	1.431E-06	1.733E-06	1.582E-06
9	0.175	1.189E-05	1.713E-05	1.451E-05	58	1.860	2.131E-06	2.439E-06	2.285E-06
10	0.185	6.499E-06	8.694E-06	7.597E-06	59	1.920	1.329E-06	1.695E-06	1.512E-06
11	0.200	1.322E-05	1.439E-05	1.381E-05	60	1.980	-4.600E-08	1.812E-07	6.759E-08
12	0.220	2.162E-05	2.273E-05	2.217E-05	61	2.040	-1.221E-08	2.567E-07	1.222E-07
13	0.240	1.466E-05	1.547E-05	1.507E-05	62	2.100	2.261E-07	5.026E-07	3.644E-07
14	0.260	3.046E-06	3.643E-06	3.345E-06	63	2.160	1.070E-08	3.196E-07	1.652E-07
15	0.280	7.357E-06	7.960E-06	7.659E-06	64	2.220	5.679E-07	8.479E-07	7.079E-07
16	0.300	7.202E-06	7.782E-06	7.492E-06	65	2.280	1.034E-06	1.379E-06	1.206E-06
17	0.320	2.753E-06	3.280E-06	3.017E-06	66	2.340	2.790E-07	6.965E-07	4.878E-07
18	0.340	1.877E-06	2.392E-06	2.134E-06	67	2.405	2.034E-07	1.019E-06	6.110E-07
19	0.360	2.285E-06	2.823E-06	2.554E-06	68	2.475	8.236E-07	1.150E-06	9.869E-07
20	0.380	2.287E-06	2.824E-06	2.556E-06	69	2.545	1.520E-06	1.820E-06	1.670E-06
21	0.400	3.908E-06	4.482E-06	4.195E-06	70	2.615	2.567E-06	2.892E-06	2.729E-06
22	0.420	4.733E-06	5.296E-06	5.014E-06	71	2.685	5.222E-07	7.244E-07	6.233E-07
23	0.445	2.959E-06	3.506E-06	3.233E-06	72	2.755	-7.763E-07	-3.662E-07	-5.713E-07
24	0.475	3.845E-06	4.404E-06	4.124E-06	73	2.825	-3.091E-07	1.077E-07	-1.007E-07
25	0.505	8.895E-06	9.522E-06	9.208E-06	74	2.895	1.103E-08	2.023E-07	1.067E-07
26	0.535	1.667E-05	1.735E-05	1.701E-05	75	2.965	2.788E-08	2.080E-07	1.179E-07
27	0.565	1.963E-05	2.035E-05	1.999E-05	76	3.035	-3.802E-08	1.022E-07	3.209E-08
28	0.595	3.059E-06	3.730E-06	3.394E-06	77	3.110	-1.590E-08	1.233E-07	5.372E-08
29	0.625	5.339E-07	9.941E-07	7.640E-07	78	3.190	-3.396E-09	1.675E-07	8.207E-08
30	0.655	1.308E-05	1.369E-05	1.339E-05	79	3.270	-6.677E-08	9.875E-08	1.599E-08
31	0.685	1.220E-05	1.278E-05	1.249E-05	80	3.350	-8.919E-08	5.637E-08	-1.641E-08
32	0.715	8.241E-06	8.773E-06	8.507E-06	81	3.430	-7.657E-08	8.558E-08	4.503E-09
33	0.745	9.370E-06	9.911E-06	9.640E-06	82	3.510	-4.511E-09	1.065E-07	5.101E-08
34	0.775	1.011E-05	1.064E-05	1.038E-05	83	3.590	5.438E-09	1.370E-07	7.124E-08
35	0.810	6.453E-06	6.953E-06	6.703E-06	84	3.670	-1.070E-08	1.120E-07	5.063E-08
36	0.850	8.411E-06	8.928E-06	8.670E-06	85	3.750	-2.606E-08	1.075E-07	4.071E-08
37	0.890	8.100E-06	8.620E-06	8.360E-06	86	3.830	-4.056E-08	8.859E-08	2.401E-08
38	0.930	7.716E-06	8.223E-06	7.969E-06	87	3.915	-4.458E-08	7.316E-08	1.429E-08
39	0.970	7.103E-06	7.583E-06	7.343E-06	88	4.005	-3.937E-08	8.795E-08	2.429E-08
40	1.010	5.895E-06	6.373E-06	6.134E-06	89	4.095	-2.404E-08	9.774E-08	3.685E-08
41	1.050	6.498E-06	6.962E-06	6.730E-06	90	4.185	-2.772E-08	1.217E-07	4.698E-08
42	1.090	4.154E-06	4.565E-06	4.360E-06	91	4.275	-4.389E-08	1.231E-07	3.958E-08
43	1.130	3.379E-06	3.751E-06	3.565E-06	92	4.365	-7.484E-08	8.652E-08	5.838E-09
44	1.170	4.094E-06	4.466E-06	4.280E-06	93	4.455	-1.020E-07	2.562E-08	-3.817E-08
45	1.210	2.330E-06	2.641E-06	2.485E-06	94	4.550	-1.392E-07	1.920E-08	-6.000E-08
46	1.250	1.935E-06	2.353E-06	2.144E-06	95	4.650	-1.313E-07	5.621E-08	-3.754E-08
47	1.295	2.759E-06	3.083E-06	2.921E-06	96	4.750	-7.083E-08	8.207E-08	5.621E-09
48	1.345	4.170E-06	4.565E-06	4.367E-06	97	4.850	4.430E-09	9.061E-08	4.752E-08
49	1.395	7.914E-06	8.378E-06	8.146E-06	98	4.950	3.236E-08	1.022E-07	6.727E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 11 SEC

COUNTING TIME : 6 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.537E-02	7.682E-02	5.610E-02	50	1.445	1.154E-02	1.402E-02	1.278E-02
2	0.111	5.316E-02	7.414E-02	6.365E-02	51	1.495	1.028E-02	1.261E-02	1.144E-02
3	0.117	6.323E-02	1.367E-01	9.995E-02	52	1.545	7.978E-03	1.013E-02	9.053E-03
4	0.125	3.176E-02	6.543E-02	4.859E-02	53	1.595	6.260E-03	8.433E-03	7.347E-03
5	0.135	6.468E-03	5.223E-02	2.935E-02	54	1.645	5.567E-03	7.653E-03	6.610E-03
6	0.145	4.823E-02	1.145E-01	8.139E-02	55	1.695	4.087E-03	6.094E-03	5.090E-03
7	0.155	9.881E-03	4.204E-02	2.596E-02	56	1.745	4.148E-03	6.236E-03	5.192E-03
8	0.165	2.717E-02	4.281E-02	3.499E-02	57	1.800	4.600E-03	6.702E-03	5.651E-03
9	0.175	2.488E-02	4.950E-02	3.719E-02	58	1.860	4.401E-03	6.608E-03	5.504E-03
10	0.185	2.648E-02	3.722E-02	3.185E-02	59	1.920	3.182E-03	5.349E-03	4.265E-03
11	0.200	3.145E-02	3.798E-02	3.471E-02	60	1.980	3.026E-03	4.979E-03	4.002E-03
12	0.220	2.995E-02	3.643E-02	3.319E-02	61	2.040	2.482E-03	4.473E-03	3.477E-03
13	0.240	2.418E-02	2.952E-02	2.685E-02	62	2.100	3.417E-03	5.555E-03	4.486E-03
14	0.260	2.805E-02	3.268E-02	3.036E-02	63	2.160	3.086E-03	5.088E-03	4.087E-03
15	0.280	2.836E-02	3.257E-02	3.047E-02	64	2.220	2.829E-03	4.763E-03	3.796E-03
16	0.300	1.973E-02	2.349E-02	2.161E-02	65	2.280	1.638E-03	3.603E-03	2.620E-03
17	0.320	1.403E-02	1.761E-02	1.582E-02	66	2.340	2.033E-03	4.098E-03	3.065E-03
18	0.340	1.520E-02	1.884E-02	1.702E-02	67	2.405	2.752E-03	5.043E-03	3.897E-03
19	0.360	1.873E-02	2.262E-02	2.068E-02	68	2.475	2.125E-03	4.189E-03	3.157E-03
20	0.380	2.694E-02	3.101E-02	2.898E-02	69	2.545	2.385E-03	4.334E-03	3.360E-03
21	0.400	3.183E-02	3.606E-02	3.394E-02	70	2.615	2.777E-03	4.735E-03	3.756E-03
22	0.420	2.919E-02	3.310E-02	3.115E-02	71	2.685	1.402E-03	3.260E-03	2.331E-03
23	0.445	2.145E-02	2.508E-02	2.327E-02	72	2.755	1.584E-03	3.473E-03	2.529E-03
24	0.475	1.904E-02	2.258E-02	2.081E-02	73	2.825	7.327E-04	2.501E-03	1.617E-03
25	0.505	2.895E-02	3.268E-02	3.081E-02	74	2.895	5.939E-04	2.502E-03	1.548E-03
26	0.535	3.456E-02	3.828E-02	3.642E-02	75	2.965	1.339E-03	3.248E-03	2.294E-03
27	0.565	2.955E-02	3.312E-02	3.134E-02	76	3.035	6.796E-04	2.454E-03	1.567E-03
28	0.595	2.543E-02	2.876E-02	2.709E-02	77	3.110	1.328E-04	1.706E-03	9.195E-04
29	0.625	1.888E-02	2.201E-02	2.045E-02	78	3.190	-1.065E-03	5.128E-04	-2.763E-04
30	0.655	1.575E-02	1.871E-02	1.723E-02	79	3.270	-1.218E-03	2.749E-04	-4.714E-04
31	0.685	1.556E-02	1.847E-02	1.702E-02	80	3.350	6.801E-04	2.227E-03	1.454E-03
32	0.715	1.354E-02	1.638E-02	1.496E-02	81	3.430	1.029E-03	2.474E-03	1.751E-03
33	0.745	1.224E-02	1.509E-02	1.367E-02	82	3.510	2.615E-04	1.454E-03	8.578E-04
34	0.775	1.457E-02	1.749E-02	1.603E-02	83	3.590	4.594E-04	1.710E-03	1.085E-03
35	0.810	1.760E-02	2.060E-02	1.910E-02	84	3.670	7.180E-04	1.898E-03	1.308E-03
36	0.850	1.412E-02	1.700E-02	1.556E-02	85	3.750	5.311E-04	1.654E-03	1.093E-03
37	0.890	1.335E-02	1.621E-02	1.478E-02	86	3.830	6.043E-04	1.623E-03	1.114E-03
38	0.930	1.302E-02	1.593E-02	1.448E-02	87	3.915	4.749E-04	1.552E-03	1.014E-03
39	0.970	1.577E-02	1.870E-02	1.724E-02	88	4.005	-8.723E-05	7.993E-04	3.560E-04
40	1.010	1.618E-02	1.916E-02	1.767E-02	89	4.095	-1.052E-04	8.648E-04	3.798E-04
41	1.050	1.129E-02	1.401E-02	1.265E-02	90	4.185	4.478E-04	1.420E-03	9.340E-04
42	1.090	1.143E-02	1.409E-02	1.276E-02	91	4.275	3.389E-04	1.278E-03	8.082E-04
43	1.130	1.445E-02	1.709E-02	1.577E-02	92	4.365	-7.049E-05	7.419E-04	3.357E-04
44	1.170	1.229E-02	1.472E-02	1.350E-02	93	4.455	-3.979E-04	3.926E-04	-2.657E-06
45	1.210	1.008E-02	1.232E-02	1.120E-02	94	4.550	-6.026E-04	2.853E-04	-1.587E-04
46	1.250	9.512E-03	1.259E-02	1.105E-02	95	4.650	-4.644E-04	2.618E-04	-1.013E-04
47	1.295	1.015E-02	1.229E-02	1.122E-02	96	4.750	-1.150E-04	4.146E-04	1.498E-04
48	1.345	9.290E-03	1.162E-02	1.045E-02	97	4.850	3.079E-04	7.142E-04	5.111E-04
49	1.395	9.235E-03	1.162E-02	1.043E-02	98	4.950	5.209E-04	8.396E-04	6.803E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 25 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.159E-02	4.385E-02	3.272E-02	50	1.445	7.286E-03	8.697E-03	7.992E-03
2	0.111	2.798E-02	3.936E-02	3.367E-02	51	1.495	4.754E-03	5.995E-03	5.375E-03
3	0.117	3.010E-02	6.914E-02	4.962E-02	52	1.545	4.085E-03	5.291E-03	4.688E-03
4	0.125	1.834E-02	3.653E-02	2.744E-02	53	1.595	2.577E-03	3.750E-03	3.164E-03
5	0.135	4.066E-03	2.781E-02	1.594E-02	54	1.645	3.119E-03	4.284E-03	3.701E-03
6	0.145	2.004E-02	5.461E-02	3.732E-02	55	1.695	2.197E-03	3.310E-03	2.754E-03
7	0.155	3.945E-03	2.058E-02	1.226E-02	56	1.745	1.928E-03	3.089E-03	2.508E-03
8	0.165	1.096E-02	1.966E-02	1.531E-02	57	1.800	2.871E-03	4.101E-03	3.486E-03
9	0.175	1.126E-02	2.494E-02	1.810E-02	58	1.860	2.647E-03	3.887E-03	3.267E-03
10	0.185	1.379E-02	1.978E-02	1.679E-02	59	1.920	1.625E-03	2.842E-03	2.233E-03
11	0.200	1.904E-02	2.273E-02	2.088E-02	60	1.980	1.455E-03	2.549E-03	2.002E-03
12	0.220	1.958E-02	2.321E-02	2.140E-02	61	2.040	2.102E-03	3.242E-03	2.672E-03
13	0.240	1.370E-02	1.662E-02	1.516E-02	62	2.100	1.856E-03	3.002E-03	2.429E-03
14	0.260	1.256E-02	1.505E-02	1.381E-02	63	2.160	1.535E-03	2.634E-03	2.085E-03
15	0.280	1.412E-02	1.642E-02	1.527E-02	64	2.220	8.139E-04	1.858E-03	1.336E-03
16	0.300	1.109E-02	1.320E-02	1.214E-02	65	2.280	1.337E-03	2.496E-03	1.916E-03
17	0.320	8.896E-03	1.093E-02	9.914E-03	66	2.340	1.793E-03	2.966E-03	2.379E-03
18	0.340	7.882E-03	9.918E-03	8.900E-03	67	2.405	1.175E-03	2.403E-03	1.789E-03
19	0.360	1.079E-02	1.299E-02	1.189E-02	68	2.475	1.712E-03	2.869E-03	2.290E-03
20	0.380	1.777E-02	2.012E-02	1.895E-02	69	2.545	1.446E-03	2.520E-03	1.983E-03
21	0.400	1.973E-02	2.215E-02	2.094E-02	70	2.615	1.001E-03	2.031E-03	1.516E-03
22	0.420	1.588E-02	1.803E-02	1.695E-02	71	2.685	9.926E-04	2.020E-03	1.506E-03
23	0.445	1.071E-02	1.268E-02	1.170E-02	72	2.755	1.333E-03	2.379E-03	1.856E-03
24	0.475	8.496E-03	1.039E-02	9.445E-03	73	2.825	6.041E-04	1.611E-03	1.107E-03
25	0.505	1.208E-02	1.406E-02	1.307E-02	74	2.895	7.344E-04	1.779E-03	1.257E-03
26	0.535	1.683E-02	1.886E-02	1.784E-02	75	2.965	3.094E-04	1.337E-03	8.234E-04
27	0.565	1.518E-02	1.718E-02	1.618E-02	76	3.035	-2.906E-05	9.344E-04	4.527E-04
28	0.595	1.658E-02	1.851E-02	1.755E-02	77	3.110	-6.343E-04	2.501E-04	-1.921E-04
29	0.625	1.135E-02	1.314E-02	1.224E-02	78	3.190	-9.710E-04	-1.521E-04	-5.615E-04
30	0.655	8.838E-03	1.051E-02	9.672E-03	79	3.270	-3.118E-04	5.774E-04	1.328E-04
31	0.685	8.698E-03	1.035E-02	9.522E-03	80	3.350	-2.849E-05	7.389E-04	3.552E-04
32	0.715	8.583E-03	1.021E-02	9.397E-03	81	3.430	4.541E-04	1.297E-03	8.757E-04
33	0.745	6.665E-03	8.279E-03	7.472E-03	82	3.510	3.384E-04	1.077E-03	7.076E-04
34	0.775	8.921E-03	1.058E-02	9.750E-03	83	3.590	6.122E-04	1.318E-03	9.649E-04
35	0.810	1.036E-02	1.206E-02	1.121E-02	84	3.670	7.013E-04	1.380E-03	1.041E-03
36	0.850	7.417E-03	9.028E-03	8.223E-03	85	3.750	3.858E-04	9.311E-04	6.584E-04
37	0.890	7.828E-03	9.441E-03	8.635E-03	86	3.830	3.581E-05	5.789E-04	3.074E-04
38	0.930	7.279E-03	8.905E-03	8.092E-03	87	3.915	2.089E-06	5.245E-04	2.633E-04
39	0.970	7.346E-03	8.953E-03	8.149E-03	88	4.005	3.045E-04	8.205E-04	5.625E-04
40	1.010	8.918E-03	1.060E-02	9.757E-03	89	4.095	2.865E-04	7.337E-04	5.101E-04
41	1.050	6.020E-03	7.560E-03	6.790E-03	90	4.185	2.656E-04	7.281E-04	4.968E-04
42	1.090	7.026E-03	8.537E-03	7.781E-03	91	4.275	1.844E-04	6.378E-04	4.111E-04
43	1.130	8.159E-03	9.641E-03	8.900E-03	92	4.365	3.119E-05	4.377E-04	2.344E-04
44	1.170	5.582E-03	6.902E-03	6.242E-03	93	4.455	-1.936E-04	1.943E-04	3.665E-07
45	1.210	5.854E-03	7.137E-03	6.495E-03	94	4.550	-4.806E-04	-1.060E-04	-2.933E-04
46	1.250	5.325E-03	7.080E-03	6.202E-03	95	4.650	-4.657E-04	-9.311E-05	-2.794E-04
47	1.295	6.450E-03	7.693E-03	7.072E-03	96	4.750	-1.709E-04	1.254E-04	-2.274E-05
48	1.345	5.222E-03	6.542E-03	5.882E-03	97	4.850	1.537E-04	3.538E-04	2.538E-04
49	1.395	6.513E-03	7.918E-03	7.215E-03	98	4.950	3.280E-04	4.928E-04	4.104E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 45 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.923E-02	3.223E-02	2.573E-02	50	1.445	5.129E-03	6.293E-03	5.711E-03
2	0.111	1.213E-02	1.935E-02	1.574E-02	51	1.495	2.985E-03	3.983E-03	3.484E-03
3	0.117	4.078E-03	2.731E-02	1.570E-02	52	1.545	3.251E-03	4.238E-03	3.744E-03
4	0.125	1.299E-02	2.380E-02	1.839E-02	53	1.595	2.524E-03	3.526E-03	3.025E-03
5	0.135	4.534E-03	1.929E-02	1.191E-02	54	1.645	1.747E-03	2.645E-03	2.196E-03
6	0.145	3.377E-04	2.178E-02	1.106E-02	55	1.695	1.381E-03	2.255E-03	1.818E-03
7	0.155	4.174E-03	1.424E-02	9.207E-03	56	1.745	1.213E-03	2.117E-03	1.665E-03
8	0.165	5.757E-03	1.229E-02	9.026E-03	57	1.800	1.080E-03	2.003E-03	1.541E-03
9	0.175	4.504E-03	1.459E-02	9.548E-03	58	1.860	1.087E-03	2.031E-03	1.559E-03
10	0.185	9.688E-03	1.422E-02	1.195E-02	59	1.920	7.378E-04	1.691E-03	1.215E-03
11	0.200	1.239E-02	1.528E-02	1.384E-02	60	1.980	1.297E-03	2.162E-03	1.729E-03
12	0.220	1.224E-02	1.509E-02	1.367E-02	61	2.040	1.271E-03	2.188E-03	1.729E-03
13	0.240	7.837E-03	1.014E-02	8.989E-03	62	2.100	1.386E-03	2.329E-03	1.857E-03
14	0.260	7.579E-03	9.547E-03	8.563E-03	63	2.160	1.230E-03	2.142E-03	1.686E-03
15	0.280	7.777E-03	9.579E-03	8.678E-03	64	2.220	1.068E-03	1.904E-03	1.486E-03
16	0.300	6.575E-03	8.245E-03	7.410E-03	65	2.280	9.078E-04	1.801E-03	1.354E-03
17	0.320	5.856E-03	7.495E-03	6.675E-03	66	2.340	7.134E-04	1.566E-03	1.140E-03
18	0.340	6.050E-03	7.718E-03	6.884E-03	67	2.405	2.928E-04	1.163E-03	7.280E-04
19	0.360	7.657E-03	9.452E-03	8.554E-03	68	2.475	2.131E-04	1.071E-03	6.421E-04
20	0.380	1.180E-02	1.369E-02	1.274E-02	69	2.545	7.283E-04	1.624E-03	1.176E-03
21	0.400	1.264E-02	1.457E-02	1.361E-02	70	2.615	6.609E-04	1.477E-03	1.069E-03
22	0.420	9.700E-03	1.139E-02	1.055E-02	71	2.685	5.535E-05	8.860E-04	4.707E-04
23	0.445	6.234E-03	7.774E-03	7.004E-03	72	2.755	8.051E-05	8.641E-04	4.723E-04
24	0.475	4.373E-03	5.843E-03	5.108E-03	73	2.825	2.049E-04	9.958E-04	6.003E-04
25	0.505	6.357E-03	7.888E-03	7.123E-03	74	2.895	3.389E-04	1.168E-03	7.536E-04
26	0.535	8.526E-03	1.008E-02	9.302E-03	75	2.965	5.257E-04	1.372E-03	9.490E-04
27	0.565	9.536E-03	1.111E-02	1.032E-02	76	3.035	-1.881E-05	7.281E-04	3.546E-04
28	0.595	8.964E-03	1.046E-02	9.712E-03	77	3.110	-3.374E-04	3.772E-04	1.988E-05
29	0.625	6.842E-03	8.252E-03	7.547E-03	78	3.190	2.142E-04	9.709E-04	5.925E-04
30	0.655	4.381E-03	5.676E-03	5.029E-03	79	3.270	3.303E-04	1.069E-03	6.996E-04
31	0.685	4.761E-03	6.075E-03	5.418E-03	80	3.350	-3.149E-04	2.705E-04	-2.220E-05
32	0.715	5.887E-03	7.228E-03	6.557E-03	81	3.430	-4.751E-04	8.999E-05	-1.926E-04
33	0.745	5.567E-03	6.917E-03	6.242E-03	82	3.510	1.232E-04	7.473E-04	4.352E-04
34	0.775	5.452E-03	6.768E-03	6.110E-03	83	3.590	4.978E-04	1.079E-03	7.883E-04
35	0.810	5.619E-03	6.967E-03	6.293E-03	84	3.670	3.270E-04	9.131E-04	6.201E-04
36	0.850	5.062E-03	6.381E-03	5.721E-03	85	3.750	1.918E-04	6.432E-04	4.175E-04
37	0.890	5.198E-03	6.523E-03	5.861E-03	86	3.830	-2.348E-05	5.222E-04	2.494E-04
38	0.930	5.027E-03	6.375E-03	5.701E-03	87	3.915	-7.546E-05	4.227E-04	1.736E-04
39	0.970	5.917E-03	7.254E-03	6.585E-03	88	4.005	-1.994E-05	4.711E-04	2.256E-04
40	1.010	5.759E-03	7.113E-03	6.436E-03	89	4.095	-2.596E-06	4.020E-04	1.997E-04
41	1.050	3.341E-03	4.545E-03	3.943E-03	90	4.185	-6.841E-05	3.472E-04	1.394E-04
42	1.090	3.512E-03	4.728E-03	4.120E-03	91	4.275	-1.715E-04	2.658E-04	4.714E-05
43	1.130	6.021E-03	7.269E-03	6.645E-03	92	4.365	-1.084E-04	3.678E-04	1.297E-04
44	1.170	5.223E-03	6.357E-03	5.790E-03	93	4.455	-1.223E-04	2.597E-04	6.871E-05
45	1.210	3.574E-03	4.565E-03	4.070E-03	94	4.550	-2.251E-04	7.901E-05	-7.306E-05
46	1.250	2.174E-03	3.488E-03	2.831E-03	95	4.650	-5.768E-05	2.401E-04	9.119E-05
47	1.295	2.812E-03	3.753E-03	3.283E-03	96	4.750	1.267E-04	3.885E-04	2.576E-04
48	1.345	4.359E-03	5.493E-03	4.926E-03	97	4.850	1.693E-04	3.298E-04	2.495E-04
49	1.395	4.390E-03	5.495E-03	4.943E-03	98	4.950	1.579E-04	2.641E-04	2.110E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 75 SEC

COUNTING TIME : 20 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	9.736E-03	1.650E-02	1.312E-02	50 1.445	3.553E-03	4.190E-03	3.872E-03
2 0.111	6.021E-03	9.756E-03	7.889E-03	51 1.495	2.090E-03	2.633E-03	2.362E-03
3 0.117	2.017E-03	1.418E-02	8.096E-03	52 1.545	1.763E-03	2.287E-03	2.025E-03
4 0.125	5.642E-03	1.125E-02	8.444E-03	53 1.595	2.015E-03	2.572E-03	2.293E-03
5 0.135	1.027E-03	8.775E-03	4.901E-03	54 1.645	1.578E-03	2.075E-03	1.827E-03
6 0.145	5.868E-05	1.122E-02	5.582E-03	55 1.695	8.721E-04	1.348E-03	1.110E-03
7 0.155	1.598E-03	6.883E-03	4.240E-03	56 1.745	1.004E-03	1.501E-03	1.252E-03
8 0.165	3.007E-03	6.527E-03	4.767E-03	57 1.800	7.358E-04	1.212E-03	9.741E-04
9 0.175	2.704E-03	8.141E-03	5.423E-03	58 1.860	5.085E-04	9.924E-04	7.504E-04
10 0.185	5.266E-03	7.704E-03	6.485E-03	59 1.920	1.786E-04	6.377E-04	4.081E-04
11 0.200	7.313E-03	8.869E-03	8.091E-03	60 1.980	5.748E-04	1.039E-03	8.071E-04
12 0.220	7.754E-03	9.299E-03	8.526E-03	61 2.040	5.724E-04	1.040E-03	8.063E-04
13 0.240	4.871E-03	6.098E-03	5.485E-03	62 2.100	3.096E-04	7.750E-04	5.423E-04
14 0.260	3.640E-03	4.669E-03	4.154E-03	63 2.160	2.437E-04	7.203E-04	4.820E-04
15 0.280	4.572E-03	5.540E-03	5.056E-03	64 2.220	7.848E-04	1.263E-03	1.024E-03
16 0.300	4.749E-03	5.675E-03	5.212E-03	65 2.280	5.577E-04	1.031E-03	7.942E-04
17 0.320	4.182E-03	5.090E-03	4.636E-03	66 2.340	2.943E-04	7.567E-04	5.255E-04
18 0.340	3.998E-03	4.912E-03	4.455E-03	67 2.405	4.358E-04	9.500E-04	6.929E-04
19 0.360	4.847E-03	5.822E-03	5.335E-03	68 2.475	5.021E-04	9.800E-04	7.410E-04
20 0.380	7.352E-03	8.381E-03	7.867E-03	69 2.545	4.522E-04	9.067E-04	6.795E-04
21 0.400	8.101E-03	9.152E-03	8.627E-03	70 2.615	3.000E-04	7.333E-04	5.166E-04
22 0.420	5.617E-03	6.535E-03	6.076E-03	71 2.685	6.075E-04	1.075E-03	8.413E-04
23 0.445	4.528E-03	5.377E-03	4.952E-03	72 2.755	5.171E-04	9.585E-04	7.378E-04
24 0.475	3.104E-03	3.899E-03	3.501E-03	73 2.825	3.304E-04	7.595E-04	5.450E-04
25 0.505	2.684E-03	3.470E-03	3.077E-03	74 2.895	7.258E-05	5.133E-04	2.929E-04
26 0.535	5.065E-03	5.895E-03	5.480E-03	75 2.965	-1.312E-04	2.615E-04	6.517E-05
27 0.565	4.916E-03	5.750E-03	5.333E-03	76 3.035	-1.406E-04	2.311E-04	4.523E-05
28 0.595	6.285E-03	7.118E-03	6.702E-03	77 3.110	3.138E-05	4.230E-04	2.272E-04
29 0.625	4.128E-03	4.889E-03	4.509E-03	78 3.190	-3.889E-05	3.542E-04	1.577E-04
30 0.655	2.161E-03	2.846E-03	2.503E-03	79 3.270	-3.088E-04	2.302E-05	-1.429E-04
31 0.685	2.696E-03	3.401E-03	3.049E-03	80 3.350	-8.618E-05	2.567E-04	8.526E-05
32 0.715	3.475E-03	4.200E-03	3.837E-03	81 3.430	1.998E-04	5.518E-04	3.758E-04
33 0.745	3.314E-03	4.033E-03	3.673E-03	82 3.510	2.762E-04	5.783E-04	4.273E-04
34 0.775	2.522E-03	3.212E-03	2.867E-03	83 3.590	1.524E-04	4.573E-04	3.049E-04
35 0.810	2.938E-03	3.660E-03	3.299E-03	84 3.670	-2.101E-05	2.348E-04	1.069E-04
36 0.850	3.395E-03	4.127E-03	3.761E-03	85 3.750	2.043E-06	2.608E-04	1.314E-04
37 0.890	3.318E-03	4.044E-03	3.681E-03	86 3.830	3.873E-05	2.833E-04	1.610E-04
38 0.930	3.142E-03	3.873E-03	3.507E-03	87 3.915	3.841E-05	2.763E-04	1.574E-04
39 0.970	3.631E-03	4.366E-03	3.998E-03	88 4.005	4.121E-05	2.560E-04	1.486E-04
40 1.010	3.194E-03	3.931E-03	3.562E-03	89 4.095	6.090E-05	2.627E-04	1.618E-04
41 1.050	3.106E-03	3.816E-03	3.461E-03	90 4.185	1.332E-04	3.464E-04	2.398E-04
42 1.090	3.050E-03	3.728E-03	3.389E-03	91 4.275	1.419E-04	3.570E-04	2.494E-04
43 1.130	3.083E-03	3.719E-03	3.401E-03	92 4.365	-7.425E-06	1.990E-04	9.579E-05
44 1.170	2.197E-03	2.779E-03	2.488E-03	93 4.455	-1.778E-04	-1.350E-06	-8.959E-05
45 1.210	2.185E-03	2.742E-03	2.463E-03	94 4.550	-2.428E-04	-7.585E-05	-1.593E-04
46 1.250	2.153E-03	2.909E-03	2.531E-03	95 4.650	-1.716E-04	1.017E-05	-8.071E-05
47 1.295	2.235E-03	2.763E-03	2.499E-03	96 4.750	-5.430E-05	1.023E-04	2.402E-05
48 1.345	2.557E-03	3.163E-03	2.860E-03	97 4.850	6.494E-05	1.695E-04	1.172E-04
49 1.395	2.612E-03	3.218E-03	2.915E-03	98 4.950	1.323E-04	2.063E-04	1.693E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>235</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 115 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.575E-03	7.399E-03	5.487E-03	50	1.445	1.974E-03	2.309E-03	2.142E-03
2	0.111	4.002E-03	6.041E-03	5.022E-03	51	1.495	1.522E-03	1.825E-03	1.673E-03
3	0.117	3.527E-03	1.047E-02	6.996E-03	52	1.545	6.066E-04	8.581E-04	7.324E-04
4	0.125	1.845E-03	4.990E-03	3.418E-03	53	1.595	6.140E-04	8.877E-04	7.509E-04
5	0.135	-7.974E-04	3.673E-03	1.438E-03	54	1.645	6.841E-04	9.485E-04	8.163E-04
6	0.145	2.135E-03	8.643E-03	5.389E-03	55	1.695	6.805E-04	9.379E-04	8.092E-04
7	0.155	8.838E-05	3.151E-03	1.619E-03	56	1.745	4.273E-04	6.922E-04	5.598E-04
8	0.165	1.782E-03	3.737E-03	2.760E-03	57	1.800	4.409E-04	7.038E-04	5.724E-04
9	0.175	2.665E-03	5.695E-03	4.180E-03	58	1.860	7.827E-04	1.070E-03	9.266E-04
10	0.185	3.327E-03	4.675E-03	4.001E-03	59	1.920	3.575E-04	6.164E-04	4.869E-04
11	0.200	4.612E-03	5.461E-03	5.037E-03	60	1.980	5.199E-04	7.770E-04	6.485E-04
12	0.220	4.164E-03	5.009E-03	4.587E-03	61	2.040	4.364E-04	6.817E-04	5.590E-04
13	0.240	2.984E-03	3.668E-03	3.326E-03	62	2.100	4.286E-04	6.850E-04	5.568E-04
14	0.260	2.659E-03	3.238E-03	2.949E-03	63	2.160	1.789E-04	4.165E-04	2.977E-04
15	0.280	3.070E-03	3.611E-03	3.340E-03	64	2.220	3.968E-04	6.437E-04	5.202E-04
16	0.300	3.139E-03	3.653E-03	3.396E-03	65	2.280	3.839E-04	6.370E-04	5.104E-04
17	0.320	2.805E-03	3.307E-03	3.056E-03	66	2.340	1.439E-04	3.860E-04	2.650E-04
18	0.340	2.677E-03	3.181E-03	2.929E-03	67	2.405	1.710E-04	4.401E-04	3.055E-04
19	0.360	3.144E-03	3.678E-03	3.411E-03	68	2.475	2.157E-04	4.677E-04	3.417E-04
20	0.380	4.104E-03	4.656E-03	4.380E-03	69	2.545	1.067E-04	3.459E-04	2.263E-04
21	0.400	4.503E-03	5.067E-03	4.785E-03	70	2.615	1.325E-04	3.707E-04	2.516E-04
22	0.420	3.613E-03	4.118E-03	3.865E-03	71	2.685	2.966E-05	2.626E-04	1.461E-04
23	0.445	2.597E-03	3.060E-03	2.828E-03	72	2.755	2.113E-04	4.515E-04	3.314E-04
24	0.475	1.954E-03	2.388E-03	2.171E-03	73	2.825	1.978E-04	4.326E-04	3.152E-04
25	0.505	1.552E-03	1.975E-03	1.764E-03	74	2.895	3.879E-05	2.760E-04	1.574E-04
26	0.535	2.027E-03	2.450E-03	2.239E-03	75	2.965	2.519E-05	2.600E-04	1.426E-04
27	0.565	2.634E-03	3.077E-03	2.856E-03	76	3.035	-1.445E-05	2.184E-04	1.020E-04
28	0.595	3.418E-03	3.867E-03	3.642E-03	77	3.110	-9.069E-05	1.138E-04	1.153E-05
29	0.625	2.664E-03	3.088E-03	2.876E-03	78	3.190	-1.068E-08	2.145E-04	1.072E-04
30	0.655	1.433E-03	1.815E-03	1.624E-03	79	3.270	-4.757E-05	1.406E-04	4.654E-05
31	0.685	1.781E-03	2.176E-03	1.978E-03	80	3.350	7.789E-05	2.628E-04	1.703E-04
32	0.715	2.793E-03	3.211E-03	3.002E-03	81	3.430	1.729E-04	3.555E-04	2.642E-04
33	0.745	2.376E-03	2.781E-03	2.579E-03	82	3.510	1.126E-04	2.794E-04	1.960E-04
34	0.775	1.707E-03	2.092E-03	1.900E-03	83	3.590	1.389E-04	3.024E-04	2.206E-04
35	0.810	2.161E-03	2.569E-03	2.365E-03	84	3.670	1.256E-04	2.740E-04	1.998E-04
36	0.850	2.780E-03	3.202E-03	2.991E-03	85	3.750	1.918E-05	1.588E-04	8.897E-05
37	0.890	2.245E-03	2.651E-03	2.448E-03	86	3.830	-4.914E-05	7.632E-05	1.359E-05
38	0.930	2.279E-03	2.686E-03	2.483E-03	87	3.915	-5.029E-05	8.085E-05	1.528E-05
39	0.970	2.612E-03	3.019E-03	2.815E-03	88	4.005	-1.194E-05	1.022E-04	4.513E-05
40	1.010	1.873E-03	2.264E-03	2.068E-03	89	4.095	1.022E-05	1.306E-04	7.039E-05
41	1.050	1.653E-03	2.021E-03	1.837E-03	90	4.185	3.763E-05	1.593E-04	9.846E-05
42	1.090	1.605E-03	1.962E-03	1.783E-03	91	4.275	4.267E-05	1.678E-04	1.052E-04
43	1.130	1.833E-03	2.179E-03	2.006E-03	92	4.365	-1.889E-05	9.599E-05	3.855E-05
44	1.170	1.555E-03	1.874E-03	1.715E-03	93	4.455	-6.441E-05	4.168E-05	-1.136E-05
45	1.210	1.381E-03	1.681E-03	1.531E-03	94	4.550	-6.582E-05	3.611E-05	-1.485E-05
46	1.250	1.430E-03	1.834E-03	1.632E-03	95	4.650	-3.209E-05	5.895E-05	1.343E-05
47	1.295	1.221E-03	1.501E-03	1.361E-03	96	4.750	1.646E-05	8.964E-05	5.305E-05
48	1.345	1.565E-03	1.894E-03	1.730E-03	97	4.850	5.089E-05	1.089E-04	7.991E-05
49	1.395	1.672E-03	2.006E-03	1.839E-03	98	4.950	6.038E-05	1.025E-04	8.144E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 195 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.174E-03	3.203E-03	2.188E-03	50	1.445	9.538E-04	1.151E-03	1.052E-03
2	0.111	2.046E-03	3.162E-03	2.604E-03	51	1.495	7.519E-04	9.293E-04	8.406E-04
3	0.117	2.386E-03	6.130E-03	4.258E-03	52	1.545	4.977E-04	6.591E-04	5.784E-04
4	0.125	4.398E-04	2.107E-03	1.273E-03	53	1.595	3.916E-04	5.518E-04	4.717E-04
5	0.135	-1.153E-03	1.369E-03	1.078E-04	54	1.645	2.838E-04	4.336E-04	3.587E-04
6	0.145	1.787E-03	5.450E-03	3.618E-03	55	1.695	2.670E-04	4.192E-04	3.431E-04
7	0.155	-1.545E-04	1.570E-03	7.079E-04	56	1.745	4.326E-04	5.953E-04	5.139E-04
8	0.165	9.551E-04	2.126E-03	1.541E-03	57	1.800	2.955E-04	4.466E-04	3.711E-04
9	0.175	1.725E-03	3.524E-03	2.624E-03	58	1.860	1.648E-04	3.183E-04	2.416E-04
10	0.185	1.699E-03	2.506E-03	2.103E-03	59	1.920	1.751E-04	3.268E-04	2.510E-04
11	0.200	2.337E-03	2.850E-03	2.593E-03	60	1.980	1.589E-04	3.025E-04	2.307E-04
12	0.220	1.869E-03	2.388E-03	2.129E-03	61	2.040	1.837E-04	3.311E-04	2.574E-04
13	0.240	1.754E-03	2.185E-03	1.970E-03	62	2.100	1.485E-04	2.981E-04	2.233E-04
14	0.260	1.624E-03	1.989E-03	1.807E-03	63	2.160	1.370E-04	2.836E-04	2.103E-04
15	0.280	1.892E-03	2.234E-03	2.063E-03	64	2.220	1.879E-04	3.267E-04	2.573E-04
16	0.300	2.047E-03	2.374E-03	2.211E-03	65	2.280	8.073E-05	2.210E-04	1.509E-04
17	0.320	1.817E-03	2.132E-03	1.975E-03	66	2.340	2.360E-05	1.689E-04	9.626E-05
18	0.340	1.430E-03	1.736E-03	1.583E-03	67	2.405	1.241E-04	2.773E-04	2.007E-04
19	0.360	1.461E-03	1.774E-03	1.618E-03	68	2.475	1.506E-04	2.944E-04	2.225E-04
20	0.380	1.562E-03	1.876E-03	1.719E-03	69	2.545	1.737E-04	3.154E-04	2.445E-04
21	0.400	1.663E-03	1.989E-03	1.826E-03	70	2.615	1.609E-04	3.073E-04	2.341E-04
22	0.420	1.816E-03	2.132E-03	1.974E-03	71	2.685	9.568E-05	2.294E-04	1.626E-04
23	0.445	2.027E-03	2.332E-03	2.179E-03	72	2.755	1.030E-04	2.352E-04	1.691E-04
24	0.475	1.289E-03	1.567E-03	1.428E-03	73	2.825	4.402E-05	1.807E-04	1.123E-04
25	0.505	1.078E-03	1.343E-03	1.211E-03	74	2.895	1.831E-05	1.521E-04	8.518E-05
26	0.535	9.177E-04	1.173E-03	1.045E-03	75	2.965	-4.579E-05	7.307E-05	1.364E-05
27	0.565	1.255E-03	1.520E-03	1.388E-03	76	3.035	-6.799E-05	5.485E-05	-6.566E-06
28	0.595	1.974E-03	2.251E-03	2.112E-03	77	3.110	-3.875E-05	7.816E-05	1.971E-05
29	0.625	1.199E-03	1.456E-03	1.328E-03	78	3.190	-8.827E-05	2.484E-05	-3.171E-05
30	0.655	1.007E-03	1.252E-03	1.129E-03	79	3.270	-3.230E-05	8.343E-05	2.557E-05
31	0.685	1.239E-03	1.494E-03	1.367E-03	80	3.350	8.876E-05	2.122E-04	1.505E-04
32	0.715	1.650E-03	1.911E-03	1.781E-03	81	3.430	5.339E-05	1.600E-04	1.067E-04
33	0.745	1.472E-03	1.725E-03	1.599E-03	82	3.510	-2.648E-07	9.075E-05	4.524E-05
34	0.775	9.314E-04	1.167E-03	1.049E-03	83	3.590	4.075E-05	1.339E-04	8.732E-05
35	0.810	1.268E-03	1.522E-03	1.395E-03	84	3.670	7.287E-05	1.700E-04	1.214E-04
36	0.850	1.661E-03	1.924E-03	1.792E-03	85	3.750	2.001E-05	1.003E-04	6.015E-05
37	0.890	1.615E-03	1.876E-03	1.745E-03	86	3.830	-2.119E-05	5.536E-05	1.708E-05
38	0.930	1.485E-03	1.741E-03	1.613E-03	87	3.915	2.330E-06	7.587E-05	3.910E-05
39	0.970	1.600E-03	1.855E-03	1.728E-03	88	4.005	-7.488E-06	6.658E-05	2.955E-05
40	1.010	1.443E-03	1.693E-03	1.568E-03	89	4.095	-1.654E-05	5.273E-05	1.809E-05
41	1.050	8.866E-04	1.106E-03	9.965E-04	90	4.185	9.068E-06	8.735E-05	4.821E-05
42	1.090	8.510E-04	1.062E-03	9.566E-04	91	4.275	1.559E-05	8.807E-05	5.183E-05
43	1.130	9.969E-04	1.205E-03	1.101E-03	92	4.365	1.445E-06	6.618E-05	3.381E-05
44	1.170	7.254E-04	9.105E-04	8.180E-04	93	4.455	-1.769E-05	4.328E-05	1.280E-05
45	1.210	6.948E-04	8.734E-04	7.841E-04	94	4.550	-3.457E-05	2.587E-05	-4.351E-06
46	1.250	7.665E-04	1.014E-03	8.905E-04	95	4.650	-3.651E-05	2.695E-05	-4.782E-06
47	1.295	7.920E-04	9.636E-04	8.778E-04	96	4.750	-2.092E-05	2.701E-05	3.044E-06
48	1.345	7.586E-04	9.479E-04	8.533E-04	97	4.850	7.649E-06	4.042E-05	2.404E-05
49	1.395	8.961E-04	1.092E-03	9.942E-04	98	4.950	3.182E-05	5.611E-05	4.397E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>235</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 315 SEC

COUNTING TIME : 80 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.636E-04	1.900E-03	1.282E-03	50	1.445	3.464E-04	4.614E-04	4.039E-04
2	0.111	9.454E-04	1.637E-03	1.291E-03	51	1.495	3.082E-04	4.178E-04	3.630E-04
3	0.117	8.381E-04	3.145E-03	1.992E-03	52	1.545	2.240E-04	3.252E-04	2.746E-04
4	0.125	2.318E-04	1.230E-03	7.308E-04	53	1.595	1.305E-04	2.310E-04	1.807E-04
5	0.135	-6.109E-04	1.044E-03	2.166E-04	54	1.645	2.141E-04	3.188E-04	2.665E-04
6	0.145	7.991E-04	3.193E-03	1.996E-03	55	1.695	2.252E-04	3.285E-04	2.768E-04
7	0.155	5.994E-05	1.189E-03	6.246E-04	56	1.745	2.111E-04	3.156E-04	2.634E-04
8	0.165	7.372E-04	1.553E-03	1.145E-03	57	1.800	1.311E-04	2.313E-04	1.812E-04
9	0.175	1.193E-03	2.426E-03	1.810E-03	58	1.860	1.160E-04	2.171E-04	1.665E-04
10	0.185	1.347E-03	1.904E-03	1.626E-03	59	1.920	1.159E-04	2.194E-04	1.676E-04
11	0.200	1.585E-03	1.943E-03	1.764E-03	60	1.980	8.187E-05	1.739E-04	1.279E-04
12	0.220	9.970E-04	1.358E-03	1.177E-03	61	2.040	1.279E-04	2.240E-04	1.759E-04
13	0.240	1.105E-03	1.410E-03	1.258E-03	62	2.100	1.064E-04	2.003E-04	1.533E-04
14	0.260	1.154E-03	1.414E-03	1.284E-03	63	2.160	4.765E-05	1.384E-04	9.304E-05
15	0.280	1.201E-03	1.441E-03	1.321E-03	64	2.220	1.395E-04	2.360E-04	1.877E-04
16	0.300	1.384E-03	1.615E-03	1.500E-03	65	2.280	1.570E-04	2.491E-04	2.031E-04
17	0.320	1.340E-03	1.568E-03	1.454E-03	66	2.340	8.652E-05	1.763E-04	1.314E-04
18	0.340	1.107E-03	1.325E-03	1.216E-03	67	2.405	6.132E-05	1.554E-04	1.084E-04
19	0.360	1.018E-03	1.238E-03	1.128E-03	68	2.475	-1.243E-05	6.939E-05	2.848E-05
20	0.380	8.663E-04	1.079E-03	9.728E-04	69	2.545	1.681E-06	8.207E-05	4.187E-05
21	0.400	8.459E-04	1.066E-03	9.557E-04	70	2.615	3.316E-05	1.185E-04	7.585E-05
22	0.420	1.089E-03	1.309E-03	1.199E-03	71	2.685	3.811E-05	1.217E-04	7.989E-05
23	0.445	1.368E-03	1.583E-03	1.476E-03	72	2.755	2.137E-05	9.729E-05	5.933E-05
24	0.475	8.807E-04	1.075E-03	9.776E-04	73	2.825	-1.033E-05	6.867E-05	2.917E-05
25	0.505	5.741E-04	7.564E-04	6.653E-04	74	2.895	1.768E-05	1.026E-04	6.013E-05
26	0.535	5.947E-04	7.729E-04	6.838E-04	75	2.965	5.942E-05	1.451E-04	1.022E-04
27	0.565	8.483E-04	1.036E-03	9.421E-04	76	3.035	1.154E-05	9.561E-05	5.358E-05
28	0.595	1.226E-03	1.418E-03	1.322E-03	77	3.110	-1.348E-05	6.473E-05	2.562E-05
29	0.625	7.785E-04	9.565E-04	8.675E-04	78	3.190	-3.767E-05	3.341E-05	-2.130E-06
30	0.655	5.892E-04	7.570E-04	6.731E-04	79	3.270	-3.254E-05	3.665E-05	2.057E-06
31	0.685	6.793E-04	8.529E-04	7.661E-04	80	3.350	-3.139E-05	3.661E-05	2.612E-06
32	0.715	1.063E-03	1.245E-03	1.154E-03	81	3.430	-8.323E-06	5.288E-05	2.228E-05
33	0.745	9.964E-04	1.176E-03	1.086E-03	82	3.510	2.565E-06	6.952E-05	3.604E-05
34	0.775	7.369E-04	9.039E-04	8.204E-04	83	3.590	-2.136E-06	5.726E-05	2.756E-05
35	0.810	8.502E-04	1.029E-03	9.397E-04	84	3.670	2.533E-05	8.286E-05	5.410E-05
36	0.850	1.149E-03	1.335E-03	1.242E-03	85	3.750	1.639E-05	6.888E-05	4.263E-05
37	0.890	1.284E-03	1.472E-03	1.378E-03	86	3.830	-7.612E-06	4.407E-05	1.823E-05
38	0.930	9.851E-04	1.162E-03	1.073E-03	87	3.915	-1.940E-05	3.659E-05	8.598E-06
39	0.970	1.036E-03	1.209E-03	1.122E-03	88	4.005	-2.302E-06	4.343E-05	2.056E-05
40	1.010	9.912E-04	1.165E-03	1.078E-03	89	4.095	2.422E-05	6.819E-05	4.621E-05
41	1.050	6.447E-04	7.937E-04	7.192E-04	90	4.185	1.526E-05	5.885E-05	3.705E-05
42	1.090	6.471E-04	7.924E-04	7.198E-04	91	4.275	1.155E-06	4.117E-05	2.116E-05
43	1.130	5.552E-04	6.907E-04	6.229E-04	92	4.365	-5.691E-06	3.562E-05	1.497E-05
44	1.170	5.154E-04	6.435E-04	5.795E-04	93	4.455	-2.127E-05	1.794E-05	-1.665E-06
45	1.210	5.558E-04	6.779E-04	6.168E-04	94	4.550	-3.359E-05	1.071E-06	-1.626E-05
46	1.250	5.138E-04	6.791E-04	5.965E-04	95	4.650	-2.265E-05	8.936E-06	-6.855E-06
47	1.295	3.996E-04	5.056E-04	4.526E-04	96	4.750	-1.458E-06	2.595E-05	1.225E-05
48	1.345	3.729E-04	4.927E-04	4.328E-04	97	4.850	1.269E-05	3.371E-05	2.320E-05
49	1.395	4.129E-04	5.354E-04	4.742E-04	98	4.950	1.609E-05	3.079E-05	2.344E-05



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 495 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.990E-04	1.231E-03	8.150E-04	50	1.445	1.980E-04	2.756E-04	2.368E-04
2	0.111	6.153E-04	1.094E-03	8.549E-04	51	1.495	1.005E-04	1.674E-04	1.340E-04
3	0.117	5.218E-04	2.077E-03	1.300E-03	52	1.545	7.605E-05	1.438E-04	1.099E-04
4	0.125	8.464E-05	7.546E-04	4.196E-04	53	1.595	5.356E-05	1.220E-04	8.778E-05
5	0.135	-4.642E-04	6.802E-04	1.080E-04	54	1.645	1.255E-04	1.992E-04	1.624E-04
6	0.145	4.931E-04	2.147E-03	1.320E-03	55	1.695	1.583E-04	2.336E-04	1.960E-04
7	0.155	4.944E-05	8.294E-04	4.394E-04	56	1.745	1.014E-04	1.719E-04	1.366E-04
8	0.165	5.321E-04	1.136E-03	8.340E-04	57	1.800	8.904E-05	1.588E-04	1.239E-04
9	0.175	8.108E-04	1.710E-03	1.260E-03	58	1.860	3.360E-05	1.002E-04	6.689E-05
10	0.185	9.385E-04	1.348E-03	1.143E-03	59	1.920	2.617E-05	9.260E-05	5.938E-05
11	0.200	1.127E-03	1.394E-03	1.261E-03	60	1.980	5.854E-05	1.245E-04	9.152E-05
12	0.220	7.397E-04	1.009E-03	8.744E-04	61	2.040	1.035E-04	1.738E-04	1.386E-04
13	0.240	7.617E-04	9.898E-04	8.758E-04	62	2.100	1.009E-04	1.691E-04	1.350E-04
14	0.260	8.486E-04	1.045E-03	9.470E-04	63	2.160	6.869E-05	1.377E-04	1.032E-04
15	0.280	9.302E-04	1.113E-03	1.022E-03	64	2.220	6.939E-05	1.314E-04	1.004E-04
16	0.300	1.083E-03	1.260E-03	1.171E-03	65	2.280	3.474E-05	9.512E-05	6.493E-05
17	0.320	1.038E-03	1.210E-03	1.124E-03	66	2.340	2.726E-05	8.608E-05	5.667E-05
18	0.340	7.416E-04	9.018E-04	8.217E-04	67	2.405	3.873E-05	1.023E-04	7.051E-05
19	0.360	5.620E-04	7.176E-04	6.398E-04	68	2.475	1.115E-05	6.505E-05	3.810E-05
20	0.380	4.322E-04	5.832E-04	5.077E-04	69	2.545	5.676E-06	5.905E-05	3.236E-05
21	0.400	5.794E-04	7.429E-04	6.612E-04	70	2.615	3.033E-05	8.674E-05	5.854E-05
22	0.420	7.868E-04	9.514E-04	8.691E-04	71	2.685	3.162E-05	8.496E-05	5.829E-05
23	0.445	9.776E-04	1.139E-03	1.059E-03	72	2.755	2.430E-05	7.618E-05	5.024E-05
24	0.475	7.566E-04	9.050E-04	8.308E-04	73	2.825	1.581E-05	6.733E-05	4.157E-05
25	0.505	3.910E-04	5.235E-04	4.573E-04	74	2.895	1.733E-05	6.721E-05	4.227E-05
26	0.535	3.284E-04	4.559E-04	3.922E-04	75	2.965	-2.643E-06	4.336E-05	2.036E-05
27	0.565	4.859E-04	6.204E-04	5.532E-04	76	3.035	-8.952E-07	4.503E-05	2.207E-05
28	0.595	7.720E-04	9.123E-04	8.422E-04	77	3.110	-4.340E-06	3.779E-05	1.673E-05
29	0.625	5.721E-04	7.049E-04	6.385E-04	78	3.190	-2.500E-05	1.743E-05	-3.786E-06
30	0.655	3.869E-04	5.095E-04	4.482E-04	79	3.270	-8.606E-06	3.498E-05	1.319E-05
31	0.685	4.119E-04	5.361E-04	4.740E-04	80	3.350	2.085E-06	4.518E-05	2.363E-05
32	0.715	4.907E-04	6.166E-04	5.537E-04	81	3.430	7.518E-06	4.480E-05	2.616E-05
33	0.745	5.860E-04	7.158E-04	6.509E-04	82	3.510	-9.488E-07	3.583E-05	1.744E-05
34	0.775	4.860E-04	6.088E-04	5.474E-04	83	3.590	-9.913E-06	2.707E-05	8.577E-06
35	0.810	4.729E-04	6.007E-04	5.368E-04	84	3.670	-1.367E-05	2.252E-05	4.424E-06
36	0.850	7.020E-04	8.355E-04	7.687E-04	85	3.750	-1.590E-05	1.799E-05	1.046E-06
37	0.890	6.961E-04	8.306E-04	7.634E-04	86	3.830	-1.839E-05	1.222E-05	-3.085E-06
38	0.930	8.713E-04	1.010E-03	9.405E-04	87	3.915	-2.084E-05	9.790E-06	-5.528E-06
39	0.970	7.782E-04	9.104E-04	8.443E-04	88	4.005	-1.767E-05	1.073E-05	-3.471E-06
40	1.010	6.396E-04	7.667E-04	7.031E-04	89	4.095	-5.964E-06	2.994E-05	1.199E-05
41	1.050	6.836E-04	8.067E-04	7.451E-04	90	4.185	1.274E-05	4.407E-05	2.840E-05
42	1.090	4.696E-04	5.742E-04	5.219E-04	91	4.275	1.325E-05	3.828E-05	2.576E-05
43	1.130	3.505E-04	4.463E-04	3.984E-04	92	4.365	1.861E-06	2.568E-05	1.377E-05
44	1.170	3.265E-04	4.171E-04	3.718E-04	93	4.455	-7.274E-06	1.370E-05	3.212E-06
45	1.210	3.200E-04	4.087E-04	3.643E-04	94	4.550	-1.385E-05	4.589E-06	-4.630E-06
46	1.250	3.742E-04	4.988E-04	4.365E-04	95	4.650	-1.374E-05	4.501E-06	-4.617E-06
47	1.295	4.611E-04	5.479E-04	5.045E-04	96	4.750	-6.614E-06	8.048E-06	7.172E-07
48	1.345	2.314E-04	3.123E-04	2.719E-04	97	4.850	7.694E-07	1.141E-05	6.092E-06
49	1.395	2.157E-04	2.969E-04	2.563E-04	98	4.950	4.620E-06	1.243E-05	8.525E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 795 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.521E-06	5.364E-04	2.725E-04	50	1.445	1.600E-04	2.047E-04	1.823E-04
2	0.111	4.840E-04	7.698E-04	6.269E-04	51	1.495	7.591E-05	1.149E-04	9.540E-05
3	0.117	7.007E-04	1.690E-03	1.196E-03	52	1.545	5.794E-05	9.600E-05	7.697E-05
4	0.125	-9.427E-05	3.253E-04	1.155E-04	53	1.595	4.296E-05	8.124E-05	6.210E-05
5	0.135	-4.903E-04	2.350E-04	-1.277E-04	54	1.645	5.349E-05	9.150E-05	7.249E-05
6	0.145	6.921E-04	1.741E-03	1.217E-03	55	1.695	3.539E-05	7.227E-05	5.383E-05
7	0.155	-8.962E-05	4.071E-04	1.587E-04	56	1.745	5.508E-05	9.539E-05	7.523E-05
8	0.165	3.842E-04	7.351E-04	5.597E-04	57	1.800	9.408E-05	1.352E-04	1.146E-04
9	0.175	7.060E-04	1.235E-03	9.707E-04	58	1.860	5.023E-05	8.871E-05	6.947E-05
10	0.185	6.740E-04	9.118E-04	7.929E-04	59	1.920	4.620E-05	8.411E-05	6.516E-05
11	0.200	7.773E-04	9.286E-04	8.530E-04	60	1.980	8.151E-05	1.190E-04	1.003E-04
12	0.220	4.776E-04	6.292E-04	5.534E-04	61	2.040	8.686E-05	1.251E-04	1.060E-04
13	0.240	4.707E-04	5.987E-04	5.347E-04	62	2.100	4.838E-05	8.308E-05	6.573E-05
14	0.260	5.252E-04	6.354E-04	5.803E-04	63	2.160	4.049E-05	7.428E-05	5.739E-05
15	0.280	5.803E-04	6.841E-04	6.322E-04	64	2.220	4.294E-05	7.530E-05	5.912E-05
16	0.300	8.679E-04	9.727E-04	9.203E-04	65	2.280	4.503E-05	7.780E-05	6.141E-05
17	0.320	9.256E-04	1.030E-03	9.777E-04	66	2.340	3.015E-05	5.954E-05	4.485E-05
18	0.340	5.875E-04	6.817E-04	6.346E-04	67	2.405	7.177E-06	3.231E-05	1.974E-05
19	0.360	3.936E-04	4.820E-04	4.378E-04	68	2.475	-1.863E-06	2.377E-05	1.096E-05
20	0.380	3.091E-04	3.938E-04	3.514E-04	69	2.545	1.596E-05	4.292E-05	2.944E-05
21	0.400	3.411E-04	4.307E-04	3.859E-04	70	2.615	3.740E-05	6.698E-05	5.219E-05
22	0.420	4.551E-04	5.445E-04	4.998E-04	71	2.685	1.097E-05	3.768E-05	2.433E-05
23	0.445	5.040E-04	5.919E-04	5.479E-04	72	2.755	1.503E-05	4.215E-05	2.859E-05
24	0.475	5.009E-04	5.850E-04	5.430E-04	73	2.825	6.187E-06	2.987E-05	1.803E-05
25	0.505	3.215E-04	3.988E-04	3.602E-04	74	2.895	-1.020E-05	1.194E-05	8.654E-07
26	0.535	2.765E-04	3.506E-04	3.136E-04	75	2.965	-1.289E-05	9.996E-06	-1.446E-06
27	0.565	3.812E-04	4.585E-04	4.199E-04	76	3.035	-1.661E-05	4.950E-06	-5.832E-06
28	0.595	4.148E-04	4.911E-04	4.529E-04	77	3.110	-1.800E-05	4.265E-06	-6.866E-06
29	0.625	3.750E-04	4.499E-04	4.125E-04	78	3.190	-2.019E-05	1.235E-06	-9.478E-06
30	0.655	2.924E-04	3.626E-04	3.275E-04	79	3.270	-1.170E-05	8.444E-06	-1.628E-06
31	0.685	2.526E-04	3.215E-04	2.871E-04	80	3.350	-1.701E-06	2.049E-05	9.392E-06
32	0.715	3.022E-04	3.716E-04	3.369E-04	81	3.430	5.703E-06	2.480E-05	1.525E-05
33	0.745	3.384E-04	4.098E-04	3.741E-04	82	3.510	4.700E-06	2.977E-05	1.724E-05
34	0.775	3.298E-04	3.991E-04	3.644E-04	83	3.590	8.830E-06	3.033E-05	1.958E-05
35	0.810	3.492E-04	4.216E-04	3.854E-04	84	3.670	1.386E-05	3.547E-05	2.467E-05
36	0.850	4.193E-04	4.940E-04	4.567E-04	85	3.750	9.920E-06	2.598E-05	1.795E-05
37	0.890	5.612E-04	6.404E-04	6.008E-04	86	3.830	-2.428E-06	1.323E-05	5.402E-06
38	0.930	6.317E-04	7.110E-04	6.714E-04	87	3.915	-1.099E-05	6.664E-06	-2.164E-06
39	0.970	5.088E-04	5.816E-04	5.452E-04	88	4.005	-1.533E-05	2.471E-06	-6.429E-06
40	1.010	3.923E-04	4.618E-04	4.270E-04	89	4.095	-1.351E-05	2.140E-06	-5.686E-06
41	1.050	3.738E-04	4.397E-04	4.068E-04	90	4.185	-1.060E-05	3.264E-06	-3.670E-06
42	1.090	3.304E-04	3.901E-04	3.603E-04	91	4.275	-6.927E-06	4.570E-06	-1.178E-06
43	1.130	1.589E-04	2.087E-04	1.838E-04	92	4.365	-3.756E-06	1.164E-05	3.941E-06
44	1.170	1.876E-04	2.370E-04	2.123E-04	93	4.455	-8.626E-08	1.640E-05	8.156E-06
45	1.210	2.131E-04	2.623E-04	2.377E-04	94	4.550	1.873E-06	1.279E-05	7.331E-06
46	1.250	1.890E-04	2.527E-04	2.209E-04	95	4.650	1.300E-06	7.355E-06	4.328E-06
47	1.295	2.186E-04	2.649E-04	2.418E-04	96	4.750	1.023E-06	5.163E-06	3.093E-06
48	1.345	1.816E-04	2.303E-04	2.060E-04	97	4.850	8.955E-07	4.202E-06	2.549E-06
49	1.395	1.958E-04	2.446E-04	2.202E-04	98	4.950	8.189E-07	2.891E-06	1.855E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>235</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1395 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.586E-05	3.501E-04	1.980E-04	50	1.445	1.371E-04	1.642E-04	1.506E-04
2	0.111	2.472E-04	4.068E-04	3.270E-04	51	1.495	8.673E-05	1.099E-04	9.834E-05
3	0.117	3.264E-04	8.992E-04	6.128E-04	52	1.545	4.163E-05	6.155E-05	5.159E-05
4	0.125	-2.439E-05	2.148E-04	9.521E-05	53	1.595	2.795E-05	4.887E-05	3.841E-05
5	0.135	-2.464E-04	1.720E-04	-3.720E-05	54	1.645	3.337E-05	5.334E-05	4.335E-05
6	0.145	3.857E-04	9.904E-04	6.880E-04	55	1.695	3.299E-05	5.320E-05	4.309E-05
7	0.155	-2.678E-05	2.603E-04	1.168E-04	56	1.745	2.132E-05	4.095E-05	3.113E-05
8	0.165	2.351E-04	4.254E-04	3.302E-04	57	1.800	3.043E-05	5.117E-05	4.080E-05
9	0.175	4.422E-04	7.325E-04	5.874E-04	58	1.860	3.145E-05	5.160E-05	4.152E-05
10	0.185	3.983E-04	5.278E-04	4.631E-04	59	1.920	2.021E-05	4.010E-05	3.015E-05
11	0.200	4.733E-04	5.546E-04	5.139E-04	60	1.980	3.699E-05	5.676E-05	4.688E-05
12	0.220	2.483E-04	3.298E-04	2.890E-04	61	2.040	5.822E-05	7.949E-05	6.886E-05
13	0.240	2.721E-04	3.418E-04	3.070E-04	62	2.100	3.585E-05	5.413E-05	4.499E-05
14	0.260	3.319E-04	3.925E-04	3.622E-04	63	2.160	2.289E-05	4.124E-05	3.206E-05
15	0.280	4.318E-04	4.905E-04	4.611E-04	64	2.220	2.524E-05	4.193E-05	3.359E-05
16	0.300	6.286E-04	6.879E-04	6.582E-04	65	2.280	3.313E-05	5.033E-05	4.173E-05
17	0.320	5.876E-04	6.444E-04	6.160E-04	66	2.340	6.083E-06	2.011E-05	1.310E-05
18	0.340	3.162E-04	3.656E-04	3.409E-04	67	2.405	2.005E-05	3.555E-05	2.780E-05
19	0.360	2.035E-04	2.497E-04	2.266E-04	68	2.475	1.881E-05	3.307E-05	2.594E-05
20	0.380	1.680E-04	2.127E-04	1.904E-04	69	2.545	7.469E-06	1.979E-05	1.363E-05
21	0.400	1.807E-04	2.281E-04	2.044E-04	70	2.615	1.992E-05	3.407E-05	2.700E-05
22	0.420	2.660E-04	3.143E-04	2.901E-04	71	2.685	1.445E-05	2.661E-05	2.053E-05
23	0.445	3.673E-04	4.154E-04	3.914E-04	72	2.755	6.647E-06	1.760E-05	1.212E-05
24	0.475	2.575E-04	3.010E-04	2.793E-04	73	2.825	2.664E-06	1.294E-05	7.800E-06
25	0.505	1.486E-04	1.885E-04	1.685E-04	74	2.895	-4.701E-06	5.196E-06	2.475E-07
26	0.535	1.551E-04	1.941E-04	1.746E-04	75	2.965	-7.024E-06	1.445E-06	-2.790E-06
27	0.565	2.064E-04	2.470E-04	2.267E-04	76	3.035	-7.767E-06	9.658E-07	-3.401E-06
28	0.595	2.167E-04	2.567E-04	2.367E-04	77	3.110	-7.078E-06	8.600E-07	-3.109E-06
29	0.625	2.141E-04	2.542E-04	2.341E-04	78	3.190	-3.159E-06	6.021E-06	1.431E-06
30	0.655	1.760E-04	2.141E-04	1.950E-04	79	3.270	-3.209E-06	4.682E-06	7.367E-07
31	0.685	1.489E-04	1.859E-04	1.674E-04	80	3.350	-1.524E-06	7.399E-06	2.938E-06
32	0.715	1.638E-04	2.007E-04	1.823E-04	81	3.430	4.420E-06	1.322E-05	8.821E-06
33	0.745	1.846E-04	2.221E-04	2.034E-04	82	3.510	4.027E-06	1.149E-05	7.757E-06
34	0.775	1.756E-04	2.114E-04	1.935E-04	83	3.590	6.837E-07	8.106E-06	4.395E-06
35	0.810	1.270E-04	1.634E-04	1.452E-04	84	3.670	-9.504E-08	6.613E-06	3.259E-06
36	0.850	2.073E-04	2.465E-04	2.269E-04	85	3.750	-2.531E-07	6.535E-06	3.141E-06
37	0.890	3.642E-04	4.083E-04	3.862E-04	86	3.830	-6.699E-07	4.920E-06	2.125E-06
38	0.930	3.840E-04	4.273E-04	4.056E-04	87	3.915	-1.026E-06	4.438E-06	1.706E-06
39	0.970	3.216E-04	3.615E-04	3.415E-04	88	4.005	-1.492E-06	4.153E-06	1.331E-06
40	1.010	2.175E-04	2.550E-04	2.363E-04	89	4.095	-2.319E-06	2.448E-06	6.438E-08
41	1.050	2.607E-04	2.975E-04	2.791E-04	90	4.185	-3.637E-06	1.951E-06	-8.427E-07
42	1.090	1.756E-04	2.072E-04	1.914E-04	91	4.275	-4.122E-06	1.032E-06	-1.545E-06
43	1.130	1.151E-04	1.431E-04	1.291E-04	92	4.365	-3.640E-06	8.613E-07	-1.390E-06
44	1.170	1.247E-04	1.521E-04	1.384E-04	93	4.455	-1.972E-06	1.814E-06	-7.907E-08
45	1.210	1.145E-04	1.403E-04	1.274E-04	94	4.550	5.200E-08	3.279E-06	1.665E-06
46	1.250	1.198E-04	1.545E-04	1.372E-04	95	4.650	1.067E-06	4.395E-06	2.731E-06
47	1.295	1.203E-04	1.441E-04	1.322E-04	96	4.750	9.328E-07	3.540E-06	2.237E-06
48	1.345	7.600E-05	1.003E-04	8.817E-05	97	4.850	3.929E-07	1.805E-06	1.099E-06
49	1.395	1.027E-04	1.291E-04	1.159E-04	98	4.950	1.744E-07	6.468E-07	4.106E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2195 SEC

COUNTING TIME : 500 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	-6.455E-05	1.312E-04	3.333E-05	50 1.445	1.009E-04	1.216E-04	1.112E-04
2 0.111	1.850E-04	2.897E-04	2.374E-04	51 1.495	8.096E-05	9.931E-05	9.013E-05
3 0.117	3.251E-04	6.959E-04	5.105E-04	52 1.545	3.310E-05	4.812E-05	4.061E-05
4 0.125	-8.137E-05	7.132E-05	-5.025E-06	53 1.595	1.675E-05	3.073E-05	2.374E-05
5 0.135	-2.429E-04	4.000E-05	-1.014E-04	54 1.645	2.815E-05	4.352E-05	3.584E-05
6 0.145	3.760E-04	7.836E-04	5.798E-04	55 1.695	2.311E-05	3.744E-05	3.027E-05
7 0.155	-3.874E-05	1.559E-04	5.858E-05	56 1.745	2.592E-05	4.144E-05	3.368E-05
8 0.165	1.709E-04	3.047E-04	2.378E-04	57 1.800	2.562E-05	4.070E-05	3.316E-05
9 0.175	2.982E-04	4.996E-04	3.989E-04	58 1.860	1.825E-05	3.277E-05	2.551E-05
10 0.185	2.507E-04	3.410E-04	2.959E-04	59 1.920	9.659E-06	2.316E-05	1.641E-05
11 0.200	3.294E-04	3.866E-04	3.580E-04	60 1.980	1.187E-05	2.548E-05	1.868E-05
12 0.220	1.694E-04	2.253E-04	1.973E-04	61 2.040	1.636E-05	2.966E-05	2.301E-05
13 0.240	1.197E-04	1.667E-04	1.432E-04	62 2.100	1.783E-05	3.171E-05	2.477E-05
14 0.260	1.598E-04	2.016E-04	1.807E-04	63 2.160	9.339E-06	2.150E-05	1.542E-05
15 0.280	2.572E-04	2.986E-04	2.779E-04	64 2.220	1.872E-05	3.191E-05	2.532E-05
16 0.300	4.005E-04	4.430E-04	4.218E-04	65 2.280	1.859E-05	3.102E-05	2.481E-05
17 0.320	3.741E-04	4.150E-04	3.945E-04	66 2.340	1.494E-05	2.697E-05	2.096E-05
18 0.340	1.952E-04	2.306E-04	2.129E-04	67 2.405	1.609E-05	2.765E-05	2.187E-05
19 0.360	1.219E-04	1.549E-04	1.384E-04	68 2.475	1.016E-05	2.066E-05	1.541E-05
20 0.380	1.029E-04	1.351E-04	1.190E-04	69 2.545	9.605E-06	2.001E-05	1.481E-05
21 0.400	1.280E-04	1.630E-04	1.455E-04	70 2.615	8.869E-06	1.785E-05	1.336E-05
22 0.420	1.942E-04	2.301E-04	2.122E-04	71 2.685	3.831E-06	1.289E-05	8.360E-06
23 0.445	2.563E-04	2.919E-04	2.741E-04	72 2.755	9.128E-06	8.301E-06	4.196E-06
24 0.475	1.889E-04	2.212E-04	2.050E-04	73 2.825	1.699E-06	9.946E-06	5.822E-06
25 0.505	1.138E-04	1.434E-04	1.286E-04	74 2.895	-1.001E-06	6.740E-06	2.870E-06
26 0.535	1.414E-04	1.708E-04	1.561E-04	75 2.965	-3.660E-06	3.703E-06	2.162E-06
27 0.565	1.158E-04	1.444E-04	1.301E-04	76 3.035	-4.549E-06	2.905E-06	-8.221E-07
28 0.595	1.265E-04	1.547E-04	1.406E-04	77 3.110	-6.481E-06	6.598E-07	-2.911E-06
29 0.625	1.282E-04	1.569E-04	1.426E-04	78 3.190	-4.138E-06	3.581E-06	-2.783E-07
30 0.655	1.296E-04	1.567E-04	1.431E-04	79 3.270	-2.709E-07	7.930E-06	3.829E-06
31 0.685	5.304E-05	7.731E-05	6.517E-05	80 3.350	7.159E-07	7.701E-06	4.209E-06
32 0.715	4.924E-05	7.329E-05	6.126E-05	81 3.430	-7.492E-08	6.522E-06	3.223E-06
33 0.745	1.123E-04	1.392E-04	1.257E-04	82 3.510	-1.226E-06	5.912E-06	2.343E-06
34 0.775	1.195E-04	1.454E-04	1.324E-04	83 3.590	-3.903E-07	7.002E-06	3.306E-06
35 0.810	8.300E-05	1.093E-04	9.615E-05	84 3.670	1.556E-07	6.923E-06	3.540E-06
36 0.850	1.558E-04	1.851E-04	1.704E-04	85 3.750	-2.007E-06	3.804E-06	8.981E-07
37 0.890	2.482E-04	2.799E-04	2.641E-04	86 3.830	-4.853E-06	1.423E-06	-1.715E-06
38 0.930	2.634E-04	2.950E-04	2.792E-04	87 3.915	-5.578E-06	9.066E-07	-2.335E-06
39 0.970	1.678E-04	1.950E-04	1.814E-04	88 4.005	-4.353E-06	2.249E-06	-1.052E-06
40 1.010	1.641E-04	1.917E-04	1.779E-04	89 4.095	-1.977E-06	4.454E-06	1.238E-06
41 1.050	1.433E-04	1.681E-04	1.557E-04	90 4.185	-3.655E-08	6.315E-06	3.139E-06
42 1.090	7.657E-05	9.740E-05	8.699E-05	91 4.275	9.196E-08	7.365E-06	3.729E-06
43 1.130	5.352E-05	7.253E-05	6.302E-05	92 4.365	-1.289E-06	6.192E-06	2.451E-06
44 1.170	4.973E-05	6.816E-05	5.895E-05	93 4.455	-3.587E-06	2.715E-06	-4.361E-07
45 1.210	5.893E-05	7.691E-05	6.792E-05	94 4.550	-6.125E-06	-1.647E-08	-3.071E-06
46 1.250	5.798E-05	8.162E-05	6.980E-05	95 4.650	-6.281E-06	1.477E-07	-3.067E-06
47 1.295	4.992E-05	6.595E-05	5.793E-05	96 4.750	-3.525E-06	1.541E-06	-9.923E-07
48 1.345	4.046E-05	5.811E-05	4.929E-05	97 4.850	8.667E-10	3.138E-06	1.570E-06
49 1.395	6.635E-05	8.592E-05	7.613E-05	98 4.950	1.545E-06	4.430E-06	2.987E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3195 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-2.592E-05	1.064E-04	4.026E-05	50	1.445	9.614E-05	1.130E-04	1.046E-04
2	0.111	9.594E-05	1.683E-04	1.321E-04	51	1.495	5.389E-05	6.734E-05	6.061E-05
3	0.117	1.398E-04	3.924E-04	2.661E-04	52	1.545	2.729E-05	3.881E-05	3.305E-05
4	0.125	-2.805E-05	7.480E-05	2.337E-05	53	1.595	2.224E-05	3.340E-05	2.782E-05
5	0.135	-1.125E-04	9.084E-05	-1.082E-05	54	1.645	9.231E-06	1.903E-05	1.413E-05
6	0.145	2.128E-04	5.046E-04	3.587E-04	55	1.695	1.653E-05	2.746E-05	2.200E-05
7	0.155	1.290E-05	1.526E-04	8.275E-05	56	1.745	1.005E-05	1.985E-05	1.495E-05
8	0.165	1.135E-04	2.107E-04	1.621E-04	57	1.800	1.029E-05	2.057E-05	1.543E-05
9	0.175	1.671E-04	3.135E-04	2.403E-04	58	1.860	1.416E-05	2.459E-05	1.937E-05
10	0.185	1.520E-04	2.180E-04	1.850E-04	59	1.920	8.430E-06	1.854E-05	1.348E-05
11	0.200	2.145E-04	2.565E-04	2.355E-04	60	1.980	8.797E-06	1.851E-05	1.366E-05
12	0.220	1.370E-04	1.775E-04	1.572E-04	61	2.040	4.626E-06	1.346E-05	9.041E-06
13	0.240	6.493E-05	9.780E-05	8.136E-05	62	2.100	-2.708E-06	6.461E-06	1.877E-06
14	0.260	6.677E-05	9.577E-05	8.127E-05	63	2.160	4.706E-06	1.582E-05	1.026E-05
15	0.280	1.469E-04	1.766E-04	1.618E-04	64	2.220	1.243E-05	2.181E-05	1.712E-05
16	0.300	2.452E-04	2.761E-04	2.607E-04	65	2.280	7.442E-06	1.538E-05	1.141E-05
17	0.320	2.253E-04	2.550E-04	2.402E-04	66	2.340	4.686E-06	1.291E-05	8.796E-06
18	0.340	1.108E-04	1.363E-04	1.235E-04	67	2.405	1.335E-06	8.476E-06	4.905E-06
19	0.360	5.548E-05	7.887E-05	6.717E-05	68	2.475	9.047E-06	1.711E-05	1.308E-05
20	0.380	4.004E-05	6.284E-05	5.144E-05	69	2.545	8.070E-06	1.548E-05	1.177E-05
21	0.400	6.215E-05	8.737E-05	7.476E-05	70	2.615	6.417E-06	1.375E-05	1.008E-05
22	0.420	9.941E-05	1.257E-04	1.125E-04	71	2.685	5.292E-06	1.254E-05	8.918E-06
23	0.445	1.680E-04	1.951E-04	1.815E-04	72	2.755	7.375E-07	6.978E-06	3.858E-06
24	0.475	1.379E-04	1.627E-04	1.503E-04	73	2.825	-8.062E-07	4.187E-06	1.690E-06
25	0.505	6.751E-05	8.960E-05	7.855E-05	74	2.895	-7.027E-07	4.685E-06	1.991E-06
26	0.535	8.675E-05	1.088E-04	9.775E-05	75	2.965	-1.421E-06	4.268E-06	1.423E-06
27	0.565	9.104E-05	1.132E-04	1.021E-04	76	3.035	-2.760E-06	2.897E-06	6.829E-08
28	0.595	7.249E-05	9.328E-05	8.289E-05	77	3.110	-3.242E-06	2.244E-06	-4.989E-07
29	0.625	7.167E-05	9.286E-05	8.227E-05	78	3.190	-3.832E-06	2.811E-06	-5.104E-07
30	0.655	9.627E-05	1.175E-04	1.069E-04	79	3.270	-1.927E-06	3.305E-06	6.891E-07
31	0.685	6.076E-05	8.019E-05	7.048E-05	80	3.350	-2.061E-06	2.905E-06	4.220E-07
32	0.715	3.756E-05	5.591E-05	4.673E-05	81	3.430	-2.225E-06	2.855E-06	3.148E-07
33	0.745	7.332E-05	9.333E-05	8.332E-05	82	3.510	-2.481E-06	3.087E-06	3.034E-07
34	0.775	1.005E-04	1.206E-04	1.105E-04	83	3.590	-1.804E-06	3.718E-06	9.568E-07
35	0.810	4.297E-05	6.239E-05	5.268E-05	84	3.670	-5.787E-07	4.582E-06	2.002E-06
36	0.850	1.144E-04	1.371E-04	1.258E-04	85	3.750	-7.620E-07	3.166E-06	1.202E-06
37	0.890	2.146E-04	2.403E-04	2.275E-04	86	3.830	-1.773E-06	2.052E-06	1.392E-07
38	0.930	1.826E-04	2.058E-04	1.942E-04	87	3.915	-1.678E-06	2.177E-06	2.495E-07
39	0.970	9.717E-05	1.168E-04	1.070E-04	88	4.005	-3.201E-07	3.227E-06	1.453E-06
40	1.010	7.828E-05	9.724E-05	8.776E-05	89	4.095	3.931E-07	4.399E-06	2.396E-06
41	1.050	8.202E-05	1.008E-04	9.139E-05	90	4.185	3.402E-07	3.692E-06	2.016E-06
42	1.090	5.885E-05	7.482E-05	6.683E-05	91	4.275	-5.262E-07	2.565E-06	1.020E-06
43	1.130	3.173E-05	4.604E-05	3.888E-05	92	4.365	-1.618E-06	1.121E-06	-2.484E-07
44	1.170	2.861E-05	4.187E-05	3.524E-05	93	4.455	-2.889E-06	2.702E-07	-1.309E-06
45	1.210	3.019E-05	4.325E-05	3.672E-05	94	4.550	-3.101E-06	-6.512E-08	-1.583E-06
46	1.250	1.861E-05	3.476E-05	2.669E-05	95	4.650	-2.214E-06	3.742E-07	-9.198E-07
47	1.295	2.572E-05	3.720E-05	3.146E-05	96	4.750	-7.043E-07	1.206E-06	2.506E-07
48	1.345	1.760E-05	3.086E-05	2.423E-05	97	4.850	3.017E-07	2.157E-06	1.229E-06
49	1.395	6.962E-05	8.588E-05	7.775E-05	98	4.950	6.632E-07	2.159E-06	1.411E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>235</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 17 SEC

COUNTING TIME : 8 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.148E-02	7.090E-02	5.619E-02	50	1.445	9.096E-03	1.085E-02	9.975E-03
2	0.111	2.985E-02	4.466E-02	3.726E-02	51	1.495	6.449E-03	8.016E-03	7.232E-03
3	0.117	1.708E-02	6.883E-02	4.295E-02	52	1.545	6.356E-03	7.881E-03	7.118E-03
4	0.125	3.531E-02	5.925E-02	4.728E-02	53	1.595	4.586E-03	6.118E-03	5.352E-03
5	0.135	1.665E-02	4.833E-02	3.249E-02	54	1.645	3.345E-03	4.764E-03	4.055E-03
6	0.145	1.398E-02	5.995E-02	3.696E-02	55	1.695	4.598E-03	6.080E-03	5.339E-03
7	0.155	1.327E-02	3.551E-02	2.439E-02	56	1.745	4.386E-03	5.872E-03	5.129E-03
8	0.165	1.646E-02	2.724E-02	2.185E-02	57	1.800	3.475E-03	4.944E-03	4.210E-03
9	0.175	1.482E-02	3.188E-02	2.335E-02	58	1.860	3.382E-03	4.917E-03	4.150E-03
10	0.185	2.017E-02	2.761E-02	2.389E-02	59	1.920	3.282E-03	4.779E-03	4.030E-03
11	0.200	2.541E-02	2.993E-02	2.767E-02	60	1.980	2.958E-03	4.332E-03	3.645E-03
12	0.220	2.317E-02	2.761E-02	2.539E-02	61	2.040	3.060E-03	4.446E-03	3.753E-03
13	0.240	1.720E-02	2.084E-02	1.902E-02	62	2.100	2.215E-03	3.617E-03	2.916E-03
14	0.260	1.940E-02	2.254E-02	2.097E-02	63	2.160	1.017E-03	2.346E-03	1.681E-03
15	0.280	1.933E-02	2.218E-02	2.075E-02	64	2.220	1.994E-03	3.346E-03	2.670E-03
16	0.300	1.425E-02	1.682E-02	1.554E-02	65	2.280	1.133E-03	2.454E-03	1.794E-03
17	0.320	9.231E-03	1.166E-02	1.045E-02	66	2.340	1.484E-03	2.888E-03	2.186E-03
18	0.340	9.232E-03	1.170E-02	1.047E-02	67	2.405	1.385E-03	2.859E-03	2.122E-03
19	0.360	1.567E-02	1.841E-02	1.704E-02	68	2.475	1.605E-03	3.052E-03	2.329E-03
20	0.380	2.378E-02	2.668E-02	2.523E-02	69	2.545	1.371E-03	2.736E-03	2.054E-03
21	0.400	2.433E-02	2.726E-02	2.579E-02	70	2.615	1.674E-03	3.029E-03	2.351E-03
22	0.420	1.962E-02	2.225E-02	2.093E-02	71	2.685	1.970E-03	3.371E-03	2.670E-03
23	0.445	1.481E-02	1.727E-02	1.604E-02	72	2.755	1.875E-03	3.192E-03	2.534E-03
24	0.475	1.253E-02	1.494E-02	1.373E-02	73	2.825	6.840E-04	1.933E-03	1.308E-03
25	0.505	2.104E-02	2.360E-02	2.232E-02	74	2.895	1.198E-04	1.367E-03	7.432E-04
26	0.535	2.331E-02	2.583E-02	2.457E-02	75	2.965	2.172E-04	1.475E-03	8.460E-04
27	0.565	2.012E-02	2.256E-02	2.134E-02	76	3.035	-2.512E-04	9.333E-04	3.411E-04
28	0.595	1.968E-02	2.200E-02	2.084E-02	77	3.110	-1.965E-04	9.431E-04	3.733E-04
29	0.625	1.513E-02	1.730E-02	1.622E-02	78	3.190	-6.906E-05	1.114E-03	5.226E-04
30	0.655	9.030E-03	1.101E-02	1.002E-02	79	3.270	-3.027E-04	7.971E-04	2.472E-04
31	0.685	1.139E-02	1.341E-02	1.240E-02	80	3.350	1.488E-04	1.178E-03	6.632E-04
32	0.715	1.066E-02	1.267E-02	1.167E-02	81	3.430	7.883E-04	1.763E-03	1.275E-03
33	0.745	9.827E-03	1.184E-02	1.083E-02	82	3.510	1.058E-03	1.955E-03	1.507E-03
34	0.775	1.297E-02	1.505E-02	1.401E-02	83	3.590	1.012E-03	1.829E-03	1.420E-03
35	0.810	1.260E-02	1.466E-02	1.363E-02	84	3.670	6.812E-04	1.478E-03	1.079E-03
36	0.850	9.681E-03	1.165E-02	1.067E-02	85	3.750	3.678E-04	1.076E-03	7.218E-04
37	0.890	8.591E-03	1.055E-02	9.570E-03	86	3.830	-5.211E-05	6.603E-04	3.041E-04
38	0.930	1.019E-02	1.221E-02	1.120E-02	87	3.915	-4.361E-04	2.133E-04	-1.114E-04
39	0.970	9.910E-03	1.190E-02	1.090E-02	88	4.005	-3.632E-04	2.278E-04	-6.771E-05
40	1.010	1.072E-02	1.277E-02	1.174E-02	89	4.095	7.370E-06	6.037E-04	3.056E-04
41	1.050	8.320E-03	1.025E-02	9.283E-03	90	4.185	3.282E-04	9.271E-04	6.277E-04
42	1.090	9.718E-03	1.162E-02	1.067E-02	91	4.275	5.910E-04	1.194E-03	8.925E-04
43	1.130	1.117E-02	1.301E-02	1.209E-02	92	4.365	3.831E-04	9.910E-04	6.870E-04
44	1.170	8.820E-03	1.051E-02	9.666E-03	93	4.455	-2.123E-04	3.178E-04	5.277E-05
45	1.210	7.640E-03	9.213E-03	8.427E-03	94	4.550	-6.265E-04	-1.254E-04	-3.760E-04
46	1.250	6.881E-03	8.998E-03	7.939E-03	95	4.650	-6.076E-04	-6.037E-05	-3.340E-04
47	1.295	7.128E-03	8.633E-03	7.880E-03	96	4.750	-2.165E-04	2.243E-04	3.903E-06
48	1.345	7.977E-03	9.656E-03	8.816E-03	97	4.850	2.441E-04	5.332E-04	3.886E-04
49	1.395	8.279E-03	9.980E-03	9.129E-03	98	4.950	4.972E-04	7.107E-04	6.040E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 35 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.476E-02	4.069E-02	3.273E-02	50	1.445	5.651E-03	6.831E-03	6.241E-03
2	0.111	1.367E-02	2.205E-02	1.786E-02	51	1.495	3.891E-03	4.959E-03	4.425E-03
3	0.117	2.262E-03	3.050E-02	1.638E-02	52	1.545	2.998E-03	4.009E-03	3.504E-03
4	0.125	1.884E-02	3.195E-02	2.539E-02	53	1.595	2.337E-03	3.337E-03	2.837E-03
5	0.135	9.246E-03	2.681E-02	1.803E-02	54	1.645	2.312E-03	3.288E-03	2.800E-03
6	0.145	-1.262E-04	2.544E-02	1.266E-02	55	1.695	1.901E-03	2.854E-03	2.378E-03
7	0.155	6.273E-03	1.832E-02	1.230E-02	56	1.745	1.889E-03	2.855E-03	2.372E-03
8	0.165	7.704E-03	1.476E-02	1.123E-02	57	1.800	2.707E-03	3.755E-03	3.231E-03
9	0.175	5.383E-03	1.640E-02	1.089E-02	58	1.860	1.461E-03	2.452E-03	1.956E-03
10	0.185	1.128E-02	1.615E-02	1.372E-02	59	1.920	2.287E-03	3.313E-03	2.800E-03
11	0.200	1.549E-02	1.854E-02	1.701E-02	60	1.980	1.912E-03	2.839E-03	2.375E-03
12	0.220	1.558E-02	1.856E-02	1.707E-02	61	2.040	1.791E-03	2.757E-03	2.274E-03
13	0.240	9.692E-03	1.208E-02	1.089E-02	62	2.100	1.269E-03	2.218E-03	1.743E-03
14	0.260	8.888E-03	1.092E-02	9.905E-03	63	2.160	9.223E-04	1.838E-03	1.380E-03
15	0.280	1.026E-02	1.215E-02	1.121E-02	64	2.220	6.066E-04	1.453E-03	1.030E-03
16	0.300	8.215E-03	9.957E-03	9.086E-03	65	2.280	9.991E-04	1.914E-03	1.456E-03
17	0.320	6.613E-03	8.311E-03	7.462E-03	66	2.340	9.599E-04	1.890E-03	1.425E-03
18	0.340	8.284E-03	1.006E-02	9.170E-03	67	2.405	3.087E-04	1.246E-03	7.771E-04
19	0.360	1.123E-02	1.315E-02	1.219E-02	68	2.475	6.863E-04	1.596E-03	1.141E-03
20	0.380	1.473E-02	1.670E-02	1.571E-02	69	2.545	1.308E-03	2.258E-03	1.783E-03
21	0.400	1.529E-02	1.728E-02	1.628E-02	70	2.615	1.586E-03	2.513E-03	2.049E-03
22	0.420	1.145E-02	1.321E-02	1.233E-02	71	2.685	9.173E-04	1.771E-03	1.344E-03
23	0.445	7.885E-03	9.497E-03	8.691E-03	72	2.755	3.901E-04	1.196E-03	7.932E-04
24	0.475	6.530E-03	8.088E-03	7.309E-03	73	2.825	2.044E-04	1.014E-03	6.092E-04
25	0.505	7.791E-03	9.386E-03	8.588E-03	74	2.895	4.500E-04	1.314E-03	8.819E-04
26	0.535	1.222E-02	1.388E-02	1.305E-02	75	2.965	8.102E-05	8.841E-04	4.825E-04
27	0.565	1.179E-02	1.344E-02	1.262E-02	76	3.035	-3.270E-04	4.225E-04	4.779E-05
28	0.595	1.164E-02	1.321E-02	1.243E-02	77	3.110	-3.485E-04	3.505E-04	9.640E-07
29	0.625	9.286E-03	1.078E-02	1.003E-02	78	3.190	7.868E-05	8.019E-04	4.403E-04
30	0.655	5.490E-03	6.821E-03	6.155E-03	79	3.270	1.858E-04	9.132E-04	5.495E-04
31	0.685	5.715E-03	7.052E-03	6.383E-03	80	3.350	-2.671E-04	3.850E-04	5.894E-05
32	0.715	5.991E-03	7.332E-03	6.661E-03	81	3.430	2.599E-04	8.863E-04	5.731E-04
33	0.745	5.525E-03	6.877E-03	6.201E-03	82	3.510	6.466E-04	1.276E-03	9.614E-04
34	0.775	6.374E-03	7.737E-03	7.056E-03	83	3.590	2.600E-04	7.692E-04	5.146E-04
35	0.810	6.771E-03	8.158E-03	7.465E-03	84	3.670	1.047E-04	6.000E-04	3.523E-04
36	0.850	5.332E-03	6.673E-03	6.002E-03	85	3.750	7.061E-05	5.425E-04	3.065E-04
37	0.890	5.599E-03	6.945E-03	6.272E-03	86	3.830	8.894E-05	5.563E-04	3.226E-04
38	0.930	5.384E-03	6.746E-03	6.065E-03	87	3.915	2.109E-04	6.981E-04	4.545E-04
39	0.970	5.303E-03	6.638E-03	5.970E-03	88	4.005	8.544E-05	4.973E-04	2.914E-04
40	1.010	5.606E-03	6.992E-03	6.299E-03	89	4.095	-2.789E-05	3.899E-04	1.810E-04
41	1.050	5.403E-03	6.725E-03	6.064E-03	90	4.185	-2.273E-05	3.700E-04	1.736E-04
42	1.090	4.926E-03	6.196E-03	5.561E-03	91	4.275	4.313E-05	4.380E-04	2.405E-04
43	1.130	6.173E-03	7.422E-03	6.797E-03	92	4.365	2.358E-05	4.025E-04	2.130E-04
44	1.170	5.478E-03	6.644E-03	6.061E-03	93	4.455	-2.139E-04	1.325E-04	-4.071E-05
45	1.210	5.074E-03	6.181E-03	5.627E-03	94	4.550	-3.639E-04	-1.384E-05	-1.889E-04
46	1.250	4.869E-03	6.367E-03	5.618E-03	95	4.650	-1.775E-04	1.256E-04	-2.595E-05
47	1.295	5.345E-03	6.411E-03	5.878E-03	96	4.750	5.573E-05	2.926E-04	1.741E-04
48	1.345	5.279E-03	6.440E-03	5.860E-03	97	4.850	1.958E-04	3.634E-04	2.796E-04
49	1.395	4.988E-03	6.148E-03	5.568E-03	98	4.950	2.276E-04	3.535E-04	2.906E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 55 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.419E-02	2.314E-02	1.867E-02	50	1.445	4.745E-03	5.447E-03	5.096E-03
2	0.111	7.485E-03	1.211E-02	9.798E-03	51	1.495	3.093E-03	3.700E-03	3.397E-03
3	0.117	6.448E-04	1.653E-02	8.588E-03	52	1.545	2.444E-03	3.018E-03	2.731E-03
4	0.125	9.679E-03	1.702E-02	1.335E-02	53	1.595	2.207E-03	2.796E-03	2.502E-03
5	0.135	4.115E-03	1.385E-02	8.983E-03	54	1.645	1.616E-03	2.150E-03	1.883E-03
6	0.145	-1.280E-03	1.292E-02	5.820E-03	55	1.695	1.289E-03	1.814E-03	1.552E-03
7	0.155	3.240E-03	9.977E-03	6.609E-03	56	1.745	1.091E-03	1.619E-03	1.355E-03
8	0.165	5.001E-03	8.904E-03	6.952E-03	57	1.800	9.305E-04	1.460E-03	1.195E-03
9	0.175	4.151E-03	1.025E-02	7.201E-03	58	1.860	9.888E-04	1.549E-03	1.269E-03
10	0.185	8.123E-03	1.081E-02	9.469E-03	59	1.920	7.550E-04	1.308E-03	1.032E-03
11	0.200	9.687E-03	1.136E-02	1.052E-02	60	1.980	1.145E-03	1.669E-03	1.407E-03
12	0.220	9.459E-03	1.110E-02	1.028E-02	61	2.040	1.094E-03	1.623E-03	1.359E-03
13	0.240	5.968E-03	7.277E-03	6.622E-03	62	2.100	9.822E-04	1.519E-03	1.250E-03
14	0.260	5.228E-03	6.338E-03	5.783E-03	63	2.160	5.881E-04	1.089E-03	8.387E-04
15	0.280	6.013E-03	7.047E-03	6.530E-03	64	2.220	9.475E-04	1.458E-03	1.203E-03
16	0.300	5.870E-03	6.849E-03	6.360E-03	65	2.280	9.835E-04	1.508E-03	1.246E-03
17	0.320	5.018E-03	5.976E-03	5.497E-03	66	2.340	8.739E-04	1.389E-03	1.132E-03
18	0.340	5.043E-03	6.019E-03	5.531E-03	67	2.405	9.178E-04	1.477E-03	1.197E-03
19	0.360	6.761E-03	7.818E-03	7.290E-03	68	2.475	4.834E-04	9.990E-04	7.412E-04
20	0.380	1.021E-02	1.132E-02	1.076E-02	69	2.545	4.137E-04	9.156E-04	6.646E-04
21	0.400	1.062E-02	1.174E-02	1.118E-02	70	2.615	4.911E-04	9.830E-04	7.371E-04
22	0.420	7.366E-03	8.332E-03	7.849E-03	71	2.685	3.655E-04	8.387E-04	6.021E-04
23	0.445	4.605E-03	5.480E-03	5.042E-03	72	2.755	4.259E-04	9.000E-04	6.630E-04
24	0.475	3.237E-03	4.073E-03	3.655E-03	73	2.825	1.412E-04	5.962E-04	3.687E-04
25	0.505	4.540E-03	5.407E-03	4.974E-03	74	2.895	-1.301E-04	3.293E-04	9.960E-05
26	0.535	6.628E-03	7.521E-03	7.074E-03	75	2.965	1.042E-04	5.766E-04	3.404E-04
27	0.565	7.285E-03	8.194E-03	7.739E-03	76	3.035	1.428E-04	6.318E-04	3.873E-04
28	0.595	7.754E-03	8.638E-03	8.196E-03	77	3.110	1.319E-04	5.899E-04	3.609E-04
29	0.625	5.511E-03	6.335E-03	5.923E-03	78	3.190	4.199E-05	4.863E-04	2.642E-04
30	0.655	3.951E-03	4.717E-03	4.334E-03	79	3.270	-3.110E-04	6.325E-05	-1.239E-04
31	0.685	4.324E-03	5.099E-03	4.712E-03	80	3.350	-8.299E-05	2.999E-04	1.084E-04
32	0.715	4.932E-03	5.712E-03	5.322E-03	81	3.430	2.210E-04	5.833E-04	4.021E-04
33	0.745	4.318E-03	5.088E-03	4.703E-03	82	3.510	2.224E-04	5.638E-04	3.931E-04
34	0.775	3.991E-03	4.742E-03	4.366E-03	83	3.590	9.441E-05	4.152E-04	2.548E-04
35	0.810	4.441E-03	5.223E-03	4.832E-03	84	3.670	2.788E-04	5.879E-04	4.334E-04
36	0.850	4.589E-03	5.376E-03	4.983E-03	85	3.750	3.020E-04	5.828E-04	4.424E-04
37	0.890	4.415E-03	5.188E-03	4.802E-03	86	3.830	1.495E-04	4.174E-04	2.835E-04
38	0.930	4.369E-03	5.148E-03	4.758E-03	87	3.915	1.235E-04	3.800E-04	2.518E-04
39	0.970	4.079E-03	4.831E-03	4.455E-03	88	4.005	1.261E-04	3.573E-04	2.417E-04
40	1.010	3.317E-03	4.074E-03	3.696E-03	89	4.095	1.317E-04	3.471E-04	2.394E-04
41	1.050	3.139E-03	3.861E-03	3.500E-03	90	4.185	9.480E-05	3.150E-04	2.049E-04
42	1.090	2.991E-03	3.687E-03	3.339E-03	91	4.275	-3.558E-07	2.235E-04	1.116E-04
43	1.130	3.646E-03	4.325E-03	3.985E-03	92	4.365	-1.408E-04	7.601E-05	-3.241E-05
44	1.170	2.926E-03	3.554E-03	3.240E-03	93	4.455	-2.602E-04	-5.122E-05	-1.557E-04
45	1.210	2.344E-03	2.930E-03	2.637E-03	94	4.550	-2.246E-04	-4.468E-05	-1.346E-04
46	1.250	2.739E-03	3.565E-03	3.152E-03	95	4.650	-6.763E-05	1.037E-04	1.805E-05
47	1.295	3.470E-03	4.058E-03	3.764E-03	96	4.750	8.256E-05	2.337E-04	1.582E-04
48	1.345	3.116E-03	3.761E-03	3.439E-03	97	4.850	1.656E-04	2.788E-04	2.222E-04
49	1.395	3.580E-03	4.249E-03	3.915E-03	98	4.950	1.676E-04	2.440E-04	2.058E-04



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 95 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.989E-03	1.208E-02	9.534E-03	50	1.445	2.785E-03	3.334E-03	3.060E-03
2	0.111	3.773E-03	6.678E-03	5.226E-03	51	1.495	1.962E-03	2.434E-03	2.198E-03
3	0.117	4.198E-04	9.725E-03	5.073E-03	52	1.545	1.081E-03	1.497E-03	1.289E-03
4	0.125	4.209E-03	8.454E-03	6.332E-03	53	1.595	8.317E-04	1.262E-03	1.047E-03
5	0.135	6.726E-04	6.794E-03	3.733E-03	54	1.645	6.141E-04	1.022E-03	8.183E-04
6	0.145	-6.081E-04	8.288E-03	3.840E-03	55	1.695	7.819E-04	1.199E-03	9.904E-04
7	0.155	1.120E-03	5.282E-03	3.201E-03	56	1.745	5.223E-04	9.397E-04	7.310E-04
8	0.165	2.427E-03	5.371E-03	3.899E-03	57	1.800	8.505E-04	1.295E-03	1.073E-03
9	0.175	2.884E-03	7.397E-03	5.141E-03	58	1.860	7.416E-04	1.186E-03	9.640E-04
10	0.185	4.592E-03	6.630E-03	5.611E-03	59	1.920	3.587E-04	7.861E-04	5.724E-04
11	0.200	6.146E-03	7.455E-03	6.801E-03	60	1.980	7.531E-04	1.159E-03	9.561E-04
12	0.220	5.394E-03	6.699E-03	6.046E-03	61	2.040	5.888E-04	9.964E-04	7.926E-04
13	0.240	3.948E-03	5.006E-03	4.477E-03	62	2.100	4.441E-04	8.435E-04	6.438E-04
14	0.260	3.235E-03	4.121E-03	3.678E-03	63	2.160	6.663E-04	1.088E-03	8.771E-04
15	0.280	3.712E-03	4.540E-03	4.126E-03	64	2.220	3.546E-04	7.199E-04	5.373E-04
16	0.300	3.780E-03	4.566E-03	4.173E-03	65	2.280	4.127E-04	8.126E-04	6.127E-04
17	0.320	3.400E-03	4.167E-03	3.783E-03	66	2.340	3.689E-04	7.590E-04	5.639E-04
18	0.340	2.905E-03	3.666E-03	3.285E-03	67	2.405	2.743E-04	6.870E-04	4.806E-04
19	0.360	3.634E-03	4.447E-03	4.041E-03	68	2.475	-2.275E-05	3.453E-04	1.613E-04
20	0.380	5.246E-03	6.100E-03	5.673E-03	69	2.545	3.890E-05	3.919E-04	2.154E-04
21	0.400	5.948E-03	6.832E-03	6.390E-03	70	2.615	4.428E-04	8.517E-04	6.472E-04
22	0.420	5.071E-03	5.863E-03	5.467E-03	71	2.685	4.496E-04	8.522E-04	6.509E-04
23	0.445	3.567E-03	4.288E-03	3.927E-03	72	2.755	4.399E-04	8.538E-04	6.469E-04
24	0.475	2.463E-03	3.139E-03	2.801E-03	73	2.825	7.294E-05	4.570E-04	2.650E-04
25	0.505	2.459E-03	3.130E-03	2.794E-03	74	2.895	1.573E-05	3.970E-04	2.064E-04
26	0.535	3.387E-03	4.070E-03	3.728E-03	75	2.965	1.575E-04	5.346E-04	3.461E-04
27	0.565	3.952E-03	4.655E-03	4.304E-03	76	3.035	1.429E-05	3.620E-04	1.882E-04
28	0.595	4.851E-03	5.555E-03	5.203E-03	77	3.110	-1.340E-04	2.169E-04	4.146E-05
29	0.625	3.374E-03	4.024E-03	3.699E-03	78	3.190	-2.923E-04	8.661E-05	-1.028E-04
30	0.655	1.819E-03	2.402E-03	2.111E-03	79	3.270	-3.906E-04	-3.150E-05	-2.111E-04
31	0.685	2.382E-03	2.988E-03	2.685E-03	80	3.350	-1.495E-04	1.934E-04	2.195E-05
32	0.715	3.219E-03	3.842E-03	3.530E-03	81	3.430	7.168E-05	3.805E-04	2.261E-04
33	0.745	2.674E-03	3.276E-03	2.975E-03	82	3.510	7.777E-05	3.409E-04	2.093E-04
34	0.775	1.680E-03	2.250E-03	1.965E-03	83	3.590	9.353E-05	3.651E-04	2.293E-04
35	0.810	2.511E-03	3.134E-03	2.822E-03	84	3.670	1.696E-04	4.519E-04	3.107E-04
36	0.850	3.200E-03	3.838E-03	3.519E-03	85	3.750	1.369E-04	3.864E-04	2.617E-04
37	0.890	2.998E-03	3.620E-03	3.309E-03	86	3.830	3.034E-05	2.493E-04	1.398E-04
38	0.930	2.036E-03	2.635E-03	2.336E-03	87	3.915	-3.931E-05	1.726E-04	6.663E-05
39	0.970	2.659E-03	3.268E-03	2.963E-03	88	4.005	-5.127E-05	1.398E-04	4.424E-05
40	1.010	2.803E-03	3.430E-03	3.117E-03	89	4.095	4.509E-05	2.224E-04	1.337E-04
41	1.050	1.580E-03	2.129E-03	1.855E-03	90	4.185	1.290E-04	3.658E-04	2.474E-04
42	1.090	1.573E-03	2.114E-03	1.844E-03	91	4.275	1.219E-04	4.037E-04	2.628E-04
43	1.130	2.343E-03	2.883E-03	2.613E-03	92	4.365	-1.126E-05	2.423E-04	1.155E-04
44	1.170	1.914E-03	2.412E-03	2.163E-03	93	4.455	-1.483E-04	1.745E-05	-6.541E-05
45	1.210	1.388E-03	1.849E-03	1.619E-03	94	4.550	-3.090E-04	-5.367E-05	-1.813E-04
46	1.250	1.759E-03	2.414E-03	2.087E-03	95	4.650	-3.154E-04	2.783E-06	-1.563E-04
47	1.295	2.358E-03	2.836E-03	2.597E-03	96	4.750	-1.520E-04	1.048E-04	-2.360E-05
48	1.345	1.989E-03	2.497E-03	2.243E-03	97	4.850	5.545E-05	1.680E-04	1.117E-04
49	1.395	2.007E-03	2.520E-03	2.264E-03	98	4.950	1.147E-04	2.374E-04	1.760E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 155 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.344E-03	5.967E-03	4.655E-03	50	1.445	1.449E-03	1.722E-03	1.586E-03
2	0.111	1.671E-03	3.136E-03	2.404E-03	51	1.495	9.467E-04	1.180E-03	1.063E-03
3	0.117	-2.341E-05	4.820E-03	2.398E-03	52	1.545	6.429E-04	8.563E-04	7.496E-04
4	0.125	1.782E-03	3.931E-03	2.857E-03	53	1.595	5.008E-04	7.167E-04	6.088E-04
5	0.135	1.561E-05	3.302E-03	1.659E-03	54	1.645	2.379E-04	4.279E-04	3.329E-04
6	0.145	-6.778E-05	4.701E-03	2.317E-03	55	1.695	2.741E-04	4.757E-04	3.749E-04
7	0.155	8.097E-04	3.051E-03	1.930E-03	56	1.745	5.303E-04	7.482E-04	6.392E-04
8	0.165	1.456E-03	3.008E-03	2.232E-03	57	1.800	3.790E-04	5.908E-04	4.849E-04
9	0.175	1.654E-03	4.036E-03	2.845E-03	58	1.860	1.535E-04	3.571E-04	2.553E-04
10	0.185	2.510E-03	3.581E-03	3.045E-03	59	1.920	3.445E-04	5.640E-04	4.543E-04
11	0.200	3.236E-03	3.920E-03	3.578E-03	60	1.980	2.983E-04	4.944E-04	3.964E-04
12	0.220	2.780E-03	3.466E-03	3.123E-03	61	2.040	3.212E-04	5.201E-04	4.206E-04
13	0.240	2.213E-03	2.775E-03	2.494E-03	62	2.100	3.428E-04	5.509E-04	4.469E-04
14	0.260	2.026E-03	2.502E-03	2.264E-03	63	2.160	1.098E-04	2.970E-04	2.034E-04
15	0.280	2.401E-03	2.848E-03	2.624E-03	64	2.220	9.229E-05	2.720E-04	1.821E-04
16	0.300	2.367E-03	2.789E-03	2.578E-03	65	2.280	2.204E-04	4.180E-04	3.192E-04
17	0.320	2.088E-03	2.499E-03	2.293E-03	66	2.340	2.018E-04	3.981E-04	2.999E-04
18	0.340	2.016E-03	2.426E-03	2.221E-03	67	2.405	1.410E-04	3.456E-04	2.433E-04
19	0.360	2.192E-03	2.617E-03	2.404E-03	68	2.475	9.843E-05	2.910E-04	1.947E-04
20	0.380	2.298E-03	2.722E-03	2.510E-03	69	2.545	7.125E-05	2.512E-04	1.612E-04
21	0.400	2.506E-03	2.943E-03	2.724E-03	70	2.615	1.909E-04	3.791E-04	2.850E-04
22	0.420	2.205E-03	2.610E-03	2.407E-03	71	2.685	1.843E-04	3.700E-04	2.771E-04
23	0.445	2.106E-03	2.494E-03	2.300E-03	72	2.755	1.244E-04	2.999E-04	2.122E-04
24	0.475	1.682E-03	2.050E-03	1.866E-03	73	2.825	8.597E-05	2.577E-04	1.718E-04
25	0.505	1.441E-03	1.795E-03	1.618E-03	74	2.895	7.340E-05	2.511E-04	1.622E-04
26	0.535	1.521E-03	1.869E-03	1.695E-03	75	2.965	9.569E-05	2.694E-04	1.826E-04
27	0.565	2.085E-03	2.451E-03	2.268E-03	76	3.035	2.142E-05	1.848E-04	1.031E-04
28	0.595	2.506E-03	2.871E-03	2.689E-03	77	3.110	-7.417E-05	7.587E-05	8.490E-07
29	0.625	1.703E-03	2.041E-03	1.872E-03	78	3.190	-3.672E-05	1.180E-04	4.066E-05
30	0.655	1.055E-03	1.366E-03	1.211E-03	79	3.270	-6.938E-05	8.542E-05	8.020E-06
31	0.685	1.227E-03	1.546E-03	1.386E-03	80	3.350	-7.802E-05	5.704E-05	-1.049E-05
32	0.715	1.924E-03	2.260E-03	2.092E-03	81	3.430	-1.313E-05	1.181E-04	5.251E-05
33	0.745	1.452E-03	1.774E-03	1.613E-03	82	3.510	2.252E-05	1.484E-04	8.545E-05
34	0.775	1.277E-03	1.592E-03	1.434E-03	83	3.590	1.251E-05	1.349E-04	7.369E-05
35	0.810	1.695E-03	2.033E-03	1.864E-03	84	3.670	3.271E-05	1.573E-04	9.499E-05
36	0.850	2.045E-03	2.388E-03	2.217E-03	85	3.750	5.687E-05	1.642E-04	1.105E-04
37	0.890	1.802E-03	2.141E-03	1.971E-03	86	3.830	2.888E-05	1.378E-04	8.333E-05
38	0.930	1.988E-03	2.329E-03	2.158E-03	87	3.915	-7.742E-07	9.455E-05	4.689E-05
39	0.970	2.000E-03	2.332E-03	2.166E-03	88	4.005	-1.787E-05	7.142E-05	2.678E-05
40	1.010	1.449E-03	1.769E-03	1.609E-03	89	4.095	1.685E-05	9.905E-05	5.795E-05
41	1.050	1.161E-03	1.457E-03	1.309E-03	90	4.185	6.703E-05	1.561E-04	1.116E-04
42	1.090	1.169E-03	1.457E-03	1.313E-03	91	4.275	4.563E-05	1.309E-04	8.829E-05
43	1.130	1.176E-03	1.447E-03	1.312E-03	92	4.365	1.446E-06	7.881E-05	4.013E-05
44	1.170	9.355E-04	1.182E-03	1.059E-03	93	4.455	-3.596E-05	4.005E-05	2.046E-06
45	1.210	8.654E-04	1.104E-03	9.846E-04	94	4.550	-6.292E-05	8.967E-06	-2.698E-05
46	1.250	8.794E-04	1.207E-03	1.043E-03	95	4.650	-5.004E-05	1.477E-05	-1.764E-05
47	1.295	1.159E-03	1.399E-03	1.279E-03	96	4.750	-1.012E-05	4.284E-05	1.636E-05
48	1.345	1.240E-03	1.506E-03	1.373E-03	97	4.850	2.625E-05	6.658E-05	4.642E-05
49	1.395	1.272E-03	1.539E-03	1.405E-03	98	4.950	3.818E-05	7.051E-05	5.434E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 255 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.084E-03	2.604E-03	1.844E-03	50	1.445	6.550E-04	8.101E-04	7.325E-04
2	0.111	1.011E-03	1.860E-03	1.436E-03	51	1.495	4.186E-04	5.537E-04	4.862E-04
3	0.117	6.049E-04	3.440E-03	2.022E-03	52	1.545	2.552E-04	3.814E-04	3.183E-04
4	0.125	5.565E-04	1.788E-03	1.172E-03	53	1.595	2.096E-04	3.349E-04	2.722E-04
5	0.135	-4.310E-04	1.586E-03	5.778E-04	54	1.645	1.703E-04	2.940E-04	2.322E-04
6	0.145	5.789E-04	3.499E-03	2.039E-03	55	1.695	2.103E-04	3.382E-04	2.743E-04
7	0.155	2.911E-04	1.668E-03	9.793E-04	56	1.745	3.438E-04	4.778E-04	4.108E-04
8	0.165	9.534E-04	1.932E-03	1.443E-03	57	1.800	2.546E-04	3.836E-04	3.191E-04
9	0.175	1.137E-03	2.626E-03	1.882E-03	58	1.860	1.507E-04	2.727E-04	2.117E-04
10	0.185	1.441E-03	2.113E-03	1.777E-03	59	1.920	9.786E-05	2.178E-04	1.578E-04
11	0.200	1.731E-03	2.162E-03	1.946E-03	60	1.980	1.249E-04	2.391E-04	1.820E-04
12	0.220	1.375E-03	1.813E-03	1.594E-03	61	2.040	2.382E-04	3.628E-04	3.005E-04
13	0.240	1.382E-03	1.750E-03	1.566E-03	62	2.100	2.000E-04	3.235E-04	2.618E-04
14	0.260	1.441E-03	1.756E-03	1.598E-03	63	2.160	1.130E-04	2.296E-04	1.713E-04
15	0.280	1.630E-03	1.925E-03	1.777E-03	64	2.220	9.353E-05	2.002E-04	1.469E-04
16	0.300	1.844E-03	2.127E-03	1.986E-03	65	2.280	9.323E-05	2.077E-04	1.505E-04
17	0.320	1.626E-03	1.897E-03	1.762E-03	66	2.340	7.060E-05	1.785E-04	1.246E-04
18	0.340	1.155E-03	1.410E-03	1.282E-03	67	2.405	3.412E-05	1.453E-04	8.971E-05
19	0.360	9.917E-04	1.247E-03	1.119E-03	68	2.475	3.421E-05	1.415E-04	8.783E-05
20	0.380	9.418E-04	1.195E-03	1.068E-03	69	2.545	4.961E-05	1.547E-04	1.022E-04
21	0.400	1.140E-03	1.408E-03	1.274E-03	70	2.615	1.299E-04	2.390E-04	1.845E-04
22	0.420	1.342E-03	1.604E-03	1.473E-03	71	2.685	1.195E-04	2.306E-04	1.750E-04
23	0.445	1.500E-03	1.755E-03	1.628E-03	72	2.755	5.091E-05	1.475E-04	9.921E-05
24	0.475	1.139E-03	1.374E-03	1.256E-03	73	2.825	5.582E-05	1.537E-04	1.048E-04
25	0.505	6.167E-04	8.329E-04	7.248E-04	74	2.895	5.122E-06	1.060E-04	5.554E-05
26	0.535	6.640E-04	8.762E-04	7.701E-04	75	2.965	-6.490E-05	2.399E-05	-2.046E-05
27	0.565	1.145E-03	1.374E-03	1.260E-03	76	3.035	-6.573E-05	2.348E-05	-2.113E-05
28	0.595	1.417E-03	1.646E-03	1.532E-03	77	3.110	-4.551E-05	4.083E-05	-2.343E-06
29	0.625	9.385E-04	1.153E-03	1.046E-03	78	3.190	-5.793E-06	8.773E-05	4.097E-05
30	0.655	6.714E-04	8.736E-04	7.725E-04	79	3.270	-3.058E-05	5.117E-05	1.029E-05
31	0.685	9.313E-04	1.143E-03	1.037E-03	80	3.350	-7.306E-06	7.017E-05	3.143E-05
32	0.715	1.301E-03	1.519E-03	1.410E-03	81	3.430	2.989E-05	1.078E-04	6.887E-05
33	0.745	1.109E-03	1.320E-03	1.215E-03	82	3.510	6.558E-05	1.463E-04	1.060E-04
34	0.775	7.534E-04	9.523E-04	8.528E-04	83	3.590	4.116E-05	1.156E-04	7.838E-05
35	0.810	1.006E-03	1.223E-03	1.115E-03	84	3.670	7.860E-06	7.458E-05	4.122E-05
36	0.850	1.563E-03	1.792E-03	1.678E-03	85	3.750	-4.472E-06	5.722E-05	-2.637E-05
37	0.890	1.299E-03	1.516E-03	1.408E-03	86	3.830	-2.982E-05	2.953E-05	-1.450E-07
38	0.930	1.331E-03	1.551E-03	1.441E-03	87	3.915	-2.597E-05	2.846E-05	1.248E-06
39	0.970	1.214E-03	1.424E-03	1.319E-03	88	4.005	-1.414E-05	3.803E-05	1.195E-05
40	1.010	1.234E-03	1.444E-03	1.339E-03	89	4.095	9.917E-07	5.432E-05	2.766E-05
41	1.050	8.784E-04	1.067E-03	9.725E-04	90	4.185	1.687E-05	7.059E-05	4.373E-05
42	1.090	7.134E-04	8.860E-04	7.997E-04	91	4.275	5.054E-06	5.579E-05	3.042E-05
43	1.130	5.571E-04	7.149E-04	6.360E-04	92	4.365	-2.031E-05	2.731E-05	3.498E-06
44	1.170	5.596E-04	7.113E-04	6.354E-04	93	4.455	-2.780E-05	1.876E-05	-4.520E-06
45	1.210	4.873E-04	6.299E-04	5.586E-04	94	4.550	-2.151E-05	2.087E-05	-3.210E-07
46	1.250	4.779E-04	6.756E-04	5.768E-04	95	4.650	-7.410E-06	2.743E-05	1.001E-05
47	1.295	6.330E-04	7.738E-04	7.034E-04	96	4.750	1.248E-05	4.085E-05	2.667E-05
48	1.345	5.587E-04	7.100E-04	6.343E-04	97	4.850	2.142E-05	4.605E-05	3.373E-05
49	1.395	5.319E-04	6.836E-04	6.078E-04	98	4.950	1.851E-05	3.473E-05	2.662E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>235</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 395 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.474E-04	1.198E-03	7.227E-04	50	1.445	2.247E-04	3.088E-04	2.668E-04
2	0.111	7.156E-04	1.231E-03	9.735E-04	51	1.495	2.458E-04	3.284E-04	2.871E-04
3	0.117	7.851E-04	2.568E-03	1.677E-03	52	1.545	2.345E-04	3.140E-04	2.742E-04
4	0.125	6.145E-05	8.193E-04	4.404E-04	53	1.595	8.174E-05	1.517E-04	1.167E-04
5	0.135	-5.350E-04	7.710E-04	1.180E-04	54	1.645	1.046E-04	1.790E-04	1.418E-04
6	0.145	8.069E-04	2.695E-03	1.751E-03	55	1.695	1.621E-04	2.388E-04	2.004E-04
7	0.155	1.268E-05	9.052E-04	4.589E-04	56	1.745	1.351E-04	2.130E-04	1.740E-04
8	0.165	7.256E-04	1.349E-03	1.037E-03	57	1.800	1.493E-04	2.239E-04	1.866E-04
9	0.175	1.036E-03	1.982E-03	1.509E-03	58	1.860	1.368E-04	2.152E-04	1.760E-04
10	0.185	1.092E-03	1.516E-03	1.304E-03	59	1.920	4.896E-05	1.214E-04	8.518E-05
11	0.200	1.170E-03	1.440E-03	1.305E-03	60	1.980	1.150E-04	1.866E-04	1.508E-04
12	0.220	7.722E-04	1.047E-03	9.095E-04	61	2.040	1.185E-04	1.899E-04	1.542E-04
13	0.240	9.278E-04	1.161E-03	1.044E-03	62	2.100	8.199E-05	1.514E-04	1.167E-04
14	0.260	1.009E-03	1.209E-03	1.109E-03	63	2.160	7.490E-05	1.461E-04	1.105E-04
15	0.280	1.075E-03	1.260E-03	1.168E-03	64	2.220	1.213E-04	1.895E-04	1.554E-04
16	0.300	1.219E-03	1.397E-03	1.308E-03	65	2.280	4.681E-05	1.088E-04	7.782E-05
17	0.320	1.168E-03	1.341E-03	1.255E-03	66	2.340	1.886E-05	8.030E-05	4.958E-05
18	0.340	8.757E-04	1.039E-03	9.572E-04	67	2.405	7.363E-05	1.441E-04	1.089E-04
19	0.360	6.300E-04	7.878E-04	7.089E-04	68	2.475	1.891E-05	7.812E-05	4.852E-05
20	0.380	5.447E-04	6.987E-04	6.217E-04	69	2.545	1.466E-05	7.432E-05	4.449E-05
21	0.400	6.824E-04	8.482E-04	7.653E-04	70	2.615	4.619E-05	1.070E-04	7.658E-05
22	0.420	8.314E-04	9.955E-04	9.135E-04	71	2.685	3.739E-05	9.769E-05	6.754E-05
23	0.445	1.103E-03	1.266E-03	1.185E-03	72	2.755	8.742E-06	6.726E-05	3.800E-05
24	0.475	7.825E-04	9.312E-04	8.568E-04	73	2.825	-6.763E-06	4.869E-05	2.097E-05
25	0.505	5.063E-04	6.433E-04	5.748E-04	74	2.895	3.478E-06	6.005E-05	3.177E-05
26	0.535	3.687E-04	4.988E-04	4.337E-04	75	2.965	1.411E-05	7.045E-05	4.228E-05
27	0.565	6.108E-04	7.487E-04	6.798E-04	76	3.035	-8.265E-06	4.577E-05	1.875E-05
28	0.595	8.760E-04	1.018E-03	9.469E-04	77	3.110	-1.076E-05	3.617E-05	1.271E-05
29	0.625	6.232E-04	7.580E-04	6.906E-04	78	3.190	-4.928E-06	4.870E-05	2.189E-05
30	0.655	4.950E-04	6.227E-04	5.588E-04	79	3.270	-1.275E-05	3.414E-05	1.069E-05
31	0.685	5.880E-04	7.191E-04	6.536E-04	80	3.350	2.059E-05	7.079E-05	4.569E-05
32	0.715	7.495E-04	8.825E-04	8.160E-04	81	3.430	2.571E-05	7.006E-05	4.788E-05
33	0.745	7.148E-04	8.465E-04	7.807E-04	82	3.510	-4.677E-06	3.381E-05	1.457E-05
34	0.775	5.753E-04	7.017E-04	6.385E-04	83	3.590	-1.203E-05	2.467E-05	6.321E-06
35	0.810	6.961E-04	8.315E-04	7.638E-04	84	3.670	8.494E-06	4.632E-05	2.741E-05
36	0.850	9.563E-04	1.098E-03	1.027E-03	85	3.750	6.984E-06	4.165E-05	2.432E-05
37	0.890	1.149E-03	1.294E-03	1.221E-03	86	3.830	-7.497E-06	2.529E-05	8.894E-06
38	0.930	9.740E-04	1.112E-03	1.043E-03	87	3.915	-5.436E-06	2.930E-05	1.193E-05
39	0.970	8.105E-04	9.401E-04	8.753E-04	88	4.005	-3.886E-06	2.551E-05	1.081E-05
40	1.010	8.544E-04	9.859E-04	9.202E-04	89	4.095	-4.938E-06	2.160E-05	8.333E-06
41	1.050	6.067E-04	7.234E-04	6.650E-04	90	4.185	3.375E-06	3.356E-05	1.847E-05
42	1.090	4.909E-04	5.952E-04	5.430E-04	91	4.275	6.507E-06	3.368E-05	2.009E-05
43	1.130	3.863E-04	4.820E-04	4.342E-04	92	4.365	-2.374E-06	2.027E-05	8.947E-06
44	1.170	2.867E-04	3.747E-04	3.307E-04	93	4.455	-1.044E-05	1.331E-05	1.436E-06
45	1.210	3.060E-04	3.926E-04	3.493E-04	94	4.550	-1.259E-05	8.488E-06	-2.052E-06
46	1.250	3.951E-04	5.169E-04	4.560E-04	95	4.650	-1.093E-05	8.772E-06	-1.080E-06
47	1.295	3.863E-04	4.711E-04	4.287E-04	96	4.750	-3.900E-06	1.076E-05	3.430E-06
48	1.345	3.486E-04	4.384E-04	3.935E-04	97	4.850	2.883E-06	1.482E-05	8.854E-06
49	1.395	2.809E-04	3.678E-04	3.244E-04	98	4.950	6.711E-06	1.582E-05	1.126E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>235</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 595 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.314E-04	7.577E-04	4.446E-04	50	1.445	1.789E-04	2.267E-04	2.028E-04
2	0.111	4.670E-04	7.879E-04	6.275E-04	51	1.495	1.627E-04	2.090E-04	1.859E-04
3	0.117	5.870E-04	1.767E-03	1.177E-03	52	1.545	1.569E-04	2.007E-04	1.788E-04
4	0.125	2.071E-06	4.941E-04	2.481E-04	53	1.595	1.082E-04	1.503E-04	1.292E-04
5	0.135	-4.146E-04	4.353E-04	1.033E-05	54	1.645	5.666E-05	9.655E-05	7.661E-05
6	0.145	6.827E-04	1.912E-03	1.297E-03	55	1.695	7.398E-05	1.140E-04	9.399E-05
7	0.155	1.361E-05	6.003E-04	3.069E-04	56	1.745	8.905E-05	1.315E-04	1.103E-04
8	0.165	5.520E-04	9.229E-04	7.374E-04	57	1.800	8.295E-05	1.231E-04	1.030E-04
9	0.175	7.960E-04	1.367E-03	1.081E-03	58	1.860	2.446E-05	6.306E-05	4.376E-05
10	0.185	8.549E-04	1.108E-03	9.815E-04	59	1.920	3.750E-05	7.698E-05	5.724E-05
11	0.200	9.553E-04	1.114E-03	1.035E-03	60	1.980	9.603E-05	1.352E-04	1.156E-04
12	0.220	5.743E-04	7.338E-04	6.541E-04	61	2.040	6.254E-05	1.008E-04	8.167E-05
13	0.240	6.318E-04	7.676E-04	6.997E-04	62	2.100	6.559E-05	1.041E-04	8.484E-05
14	0.260	7.855E-04	9.033E-04	8.444E-04	63	2.160	6.943E-05	1.091E-04	8.925E-05
15	0.280	8.123E-04	9.215E-04	8.669E-04	64	2.220	7.260E-05	1.094E-04	9.099E-05
16	0.300	9.836E-04	1.090E-03	1.037E-03	65	2.280	6.478E-05	1.021E-04	8.346E-05
17	0.320	9.412E-04	1.044E-03	9.925E-04	66	2.340	4.038E-05	7.359E-05	5.699E-05
18	0.340	6.181E-04	7.124E-04	6.653E-04	67	2.405	1.480E-05	4.842E-05	3.161E-05
19	0.360	4.507E-04	5.410E-04	4.958E-04	68	2.475	-3.167E-06	2.459E-05	1.071E-05
20	0.380	3.734E-04	4.610E-04	4.172E-04	69	2.545	1.765E-05	4.817E-05	3.291E-05
21	0.400	4.283E-04	5.216E-04	4.749E-04	70	2.615	3.496E-05	6.806E-05	5.151E-05
22	0.420	5.950E-04	6.890E-04	6.420E-04	71	2.685	3.510E-05	6.617E-05	5.063E-05
23	0.445	7.274E-04	8.201E-04	7.737E-04	72	2.755	2.526E-05	5.500E-05	4.013E-05
24	0.475	5.564E-04	6.414E-04	5.989E-04	73	2.825	1.296E-05	4.012E-05	2.654E-05
25	0.505	3.255E-04	4.034E-04	3.644E-04	74	2.895	1.529E-05	4.486E-05	3.007E-05
26	0.535	2.780E-04	3.529E-04	3.155E-04	75	2.965	-8.388E-06	1.315E-05	2.379E-06
27	0.565	4.510E-04	5.307E-04	4.909E-04	76	3.035	-1.250E-05	1.014E-05	-1.182E-06
28	0.595	5.300E-04	6.098E-04	5.699E-04	77	3.110	-3.049E-06	2.070E-05	8.827E-06
29	0.625	4.215E-04	4.983E-04	4.599E-04	78	3.190	-1.539E-05	7.392E-06	-4.000E-06
30	0.655	3.263E-04	3.985E-04	3.624E-04	79	3.270	-1.343E-05	7.091E-06	-3.169E-06
31	0.685	2.971E-04	3.688E-04	3.329E-04	80	3.350	2.483E-06	2.392E-05	1.320E-05
32	0.715	4.603E-04	5.349E-04	4.976E-04	81	3.430	1.470E-05	3.563E-05	2.516E-05
33	0.745	3.956E-04	4.692E-04	4.324E-04	82	3.510	1.183E-05	3.097E-05	2.140E-05
34	0.775	3.553E-04	4.270E-04	3.911E-04	83	3.590	6.395E-08	1.636E-05	8.210E-06
35	0.810	5.019E-04	5.802E-04	5.410E-04	84	3.670	7.547E-06	2.478E-05	1.616E-05
36	0.850	6.093E-04	6.892E-04	6.493E-04	85	3.750	1.253E-05	2.920E-05	2.087E-05
37	0.890	6.675E-04	7.487E-04	7.081E-04	86	3.830	1.757E-06	1.616E-05	8.958E-06
38	0.930	7.392E-04	8.212E-04	7.802E-04	87	3.915	-7.373E-06	5.290E-06	-1.042E-06
39	0.970	6.560E-04	7.332E-04	6.946E-04	88	4.005	-8.620E-06	3.963E-06	-2.328E-06
40	1.010	5.177E-04	5.913E-04	5.545E-04	89	4.095	-5.864E-06	6.464E-06	3.000E-07
41	1.050	5.364E-04	6.075E-04	5.720E-04	90	4.185	-2.375E-06	9.682E-06	3.653E-06
42	1.090	3.802E-04	4.420E-04	4.111E-04	91	4.275	-2.620E-06	9.105E-06	3.242E-06
43	1.130	2.778E-04	3.335E-04	3.057E-04	92	4.365	-1.958E-06	8.728E-06	3.385E-06
44	1.170	2.637E-04	3.162E-04	2.899E-04	93	4.455	8.581E-07	1.011E-05	5.484E-06
45	1.210	2.209E-04	2.712E-04	2.460E-04	94	4.550	5.440E-07	9.309E-06	4.926E-06
46	1.250	2.554E-04	3.235E-04	2.894E-04	95	4.650	-4.629E-07	7.134E-06	3.336E-06
47	1.295	2.934E-04	3.423E-04	3.179E-04	96	4.750	-3.185E-07	6.089E-06	2.885E-06
48	1.345	1.530E-04	1.990E-04	1.760E-04	97	4.850	9.131E-07	4.340E-06	2.627E-06
49	1.395	2.087E-04	2.580E-04	2.334E-04	98	4.950	1.610E-06	3.784E-06	2.697E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>235</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 995 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.672E-05	3.621E-04	1.727E-04	50	1.445	1.475E-04	1.753E-04	1.614E-04
2	0.111	2.783E-04	4.640E-04	3.712E-04	51	1.495	1.065E-04	1.309E-04	1.187E-04
3	0.117	4.551E-04	1.174E-03	8.145E-04	52	1.545	4.836E-05	7.031E-05	5.933E-05
4	0.125	-4.052E-05	2.533E-04	1.064E-04	53	1.595	2.975E-05	5.072E-05	4.023E-05
5	0.135	-3.220E-04	1.978E-04	-6.210E-05	54	1.645	4.789E-05	7.072E-05	5.931E-05
6	0.145	5.749E-04	1.324E-03	9.494E-04	55	1.695	4.643E-05	6.883E-05	5.763E-05
7	0.155	1.473E-05	3.792E-04	1.970E-04	56	1.745	5.607E-05	7.944E-05	6.776E-05
8	0.165	4.179E-04	6.237E-04	5.208E-04	57	1.800	6.507E-05	8.843E-05	7.675E-05
9	0.175	5.692E-04	8.889E-04	7.291E-04	58	1.860	4.867E-05	7.107E-05	5.987E-05
10	0.185	5.492E-04	6.899E-04	6.196E-04	59	1.920	4.129E-05	6.338E-05	5.233E-05
11	0.200	5.782E-04	6.645E-04	6.214E-04	60	1.980	4.909E-05	7.007E-05	5.958E-05
12	0.220	3.624E-04	4.490E-04	4.057E-04	61	2.040	6.453E-05	8.649E-05	7.551E-05
13	0.240	3.664E-04	4.393E-04	4.029E-04	62	2.100	4.314E-05	6.287E-05	5.300E-05
14	0.260	4.162E-04	4.795E-04	4.478E-04	63	2.160	3.032E-05	4.938E-05	3.985E-05
15	0.280	5.351E-04	5.961E-04	5.656E-04	64	2.220	4.544E-05	6.533E-05	5.538E-05
16	0.300	7.345E-04	7.956E-04	7.650E-04	65	2.280	4.253E-05	6.148E-05	5.201E-05
17	0.320	6.955E-04	7.546E-04	7.250E-04	66	2.340	3.204E-05	4.869E-05	4.037E-05
18	0.340	4.297E-04	4.829E-04	4.563E-04	67	2.405	2.050E-05	3.716E-05	2.883E-05
19	0.360	3.185E-04	3.693E-04	3.439E-04	68	2.475	1.207E-05	2.653E-05	1.930E-05
20	0.380	2.790E-04	3.282E-04	3.036E-04	69	2.545	2.498E-05	4.031E-05	3.264E-05
21	0.400	2.853E-04	3.368E-04	3.111E-04	70	2.615	1.537E-05	2.916E-05	2.227E-05
22	0.420	3.754E-04	4.268E-04	4.011E-04	71	2.685	1.285E-05	2.680E-05	1.982E-05
23	0.445	4.550E-04	5.059E-04	4.804E-04	72	2.755	1.240E-05	2.579E-05	1.909E-05
24	0.475	3.669E-04	4.137E-04	3.903E-04	73	2.825	2.376E-06	1.376E-05	8.068E-06
25	0.505	2.046E-04	2.472E-04	2.259E-04	74	2.895	-2.103E-06	8.887E-06	3.392E-06
26	0.535	2.346E-04	2.770E-04	2.558E-04	75	2.965	-3.752E-06	7.494E-06	1.871E-06
27	0.565	2.859E-04	3.298E-04	3.078E-04	76	3.035	-6.004E-06	4.506E-06	-7.492E-07
28	0.595	3.609E-04	4.051E-04	3.830E-04	77	3.110	-6.018E-06	4.501E-06	-7.588E-07
29	0.625	2.681E-04	3.103E-04	2.892E-04	78	3.190	-4.596E-06	6.049E-06	7.260E-07
30	0.655	2.425E-04	2.826E-04	2.625E-04	79	3.270	-2.637E-06	8.139E-06	2.751E-06
31	0.685	1.854E-04	2.235E-04	2.045E-04	80	3.350	-3.054E-06	6.471E-06	1.709E-06
32	0.715	1.680E-04	2.055E-04	1.867E-04	81	3.430	-2.615E-06	5.563E-06	1.474E-06
33	0.745	2.119E-04	2.507E-04	2.313E-04	82	3.510	1.334E-07	8.047E-06	4.090E-06
34	0.775	2.346E-04	2.733E-04	2.539E-04	83	3.590	5.152E-06	1.270E-05	8.925E-06
35	0.810	2.106E-04	2.504E-04	2.305E-04	84	3.670	6.593E-06	1.404E-05	1.032E-05
36	0.850	3.222E-04	3.648E-04	3.435E-04	85	3.750	4.864E-06	1.071E-05	7.787E-06
37	0.890	4.485E-04	4.940E-04	4.713E-04	86	3.830	2.338E-06	8.125E-06	5.231E-06
38	0.930	4.651E-04	5.099E-04	4.875E-04	87	3.915	2.655E-07	5.601E-06	2.933E-06
39	0.970	3.732E-04	4.147E-04	3.940E-04	88	4.005	-2.481E-07	4.899E-06	2.326E-06
40	1.010	3.083E-04	3.481E-04	3.282E-04	89	4.095	3.980E-07	4.745E-06	2.572E-06
41	1.050	3.094E-04	3.470E-04	3.282E-04	90	4.185	-1.258E-07	4.414E-06	2.144E-06
42	1.090	1.893E-04	2.212E-04	2.053E-04	91	4.275	-1.081E-06	3.763E-06	1.341E-06
43	1.130	1.428E-04	1.723E-04	1.575E-04	92	4.365	-2.226E-06	2.380E-06	7.672E-08
44	1.170	1.408E-04	1.693E-04	1.550E-04	93	4.455	-3.874E-06	3.768E-07	-1.749E-06
45	1.210	1.508E-04	1.785E-04	1.647E-04	94	4.550	-5.515E-06	-6.207E-07	-3.068E-06
46	1.250	1.826E-04	2.201E-04	2.013E-04	95	4.650	-5.134E-06	1.447E-07	-2.495E-06
47	1.295	1.472E-04	1.725E-04	1.599E-04	96	4.750	-2.720E-06	1.487E-06	-6.164E-07
48	1.345	1.004E-04	1.264E-04	1.134E-04	97	4.850	1.496E-07	2.691E-06	1.420E-06
49	1.395	1.294E-04	1.572E-04	1.433E-04	98	4.950	1.272E-06	3.673E-06	2.472E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>235</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1795 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.894E-05	2.805E-04	1.597E-04	50	1.445	1.285E-04	1.520E-04	1.403E-04
2	0.111	1.207E-04	2.466E-04	1.836E-04	51	1.495	8.845E-05	1.090E-04	9.874E-05
3	0.117	1.241E-04	5.849E-04	3.545E-04	52	1.545	3.374E-05	5.089E-05	4.231E-05
4	0.125	2.845E-05	2.153E-04	1.219E-04	53	1.595	3.703E-05	5.496E-05	4.599E-05
5	0.135	-1.257E-04	2.291E-04	5.170E-05	54	1.645	4.417E-05	6.246E-05	5.331E-05
6	0.145	2.700E-04	7.806E-04	5.253E-04	55	1.695	3.828E-05	5.610E-05	4.719E-05
7	0.155	7.431E-05	3.193E-04	1.968E-04	56	1.745	2.919E-05	4.643E-05	3.781E-05
8	0.165	2.344E-04	3.917E-04	3.130E-04	57	1.800	2.348E-05	4.012E-05	3.180E-05
9	0.175	3.421E-04	5.820E-04	4.621E-04	58	1.860	2.833E-05	4.457E-05	3.645E-05
10	0.185	3.139E-04	4.210E-04	3.674E-04	59	1.920	5.659E-06	2.093E-05	1.330E-05
11	0.200	3.509E-04	4.177E-04	3.843E-04	60	1.980	1.007E-05	2.485E-05	1.746E-05
12	0.220	1.705E-04	2.373E-04	2.039E-04	61	2.040	2.735E-05	4.419E-05	3.577E-05
13	0.240	1.884E-04	2.455E-04	2.170E-04	62	2.100	1.985E-05	3.458E-05	2.722E-05
14	0.260	2.329E-04	2.829E-04	2.579E-04	63	2.160	1.958E-05	3.550E-05	2.754E-05
15	0.280	3.352E-04	3.841E-04	3.597E-04	64	2.220	2.737E-05	4.307E-05	3.522E-05
16	0.300	4.954E-04	5.450E-04	5.202E-04	65	2.280	2.264E-05	3.726E-05	2.995E-05
17	0.320	4.545E-04	5.020E-04	4.783E-04	66	2.340	1.000E-05	2.199E-05	1.600E-05
18	0.340	2.422E-04	2.830E-04	2.626E-04	67	2.405	5.529E-06	1.796E-05	1.175E-05
19	0.360	1.398E-04	1.778E-04	1.588E-04	68	2.475	-2.785E-06	8.224E-06	2.720E-06
20	0.380	1.172E-04	1.544E-04	1.358E-04	69	2.545	7.908E-06	1.951E-05	1.371E-05
21	0.400	1.475E-04	1.877E-04	1.676E-04	70	2.615	1.162E-05	2.354E-05	1.758E-05
22	0.420	2.401E-04	2.819E-04	2.610E-04	71	2.685	3.837E-06	1.584E-05	9.837E-06
23	0.445	3.296E-04	3.711E-04	3.503E-04	72	2.755	6.303E-06	1.898E-05	1.264E-05
24	0.475	2.175E-04	2.541E-04	2.358E-04	73	2.825	1.997E-06	1.157E-05	6.782E-06
25	0.505	1.039E-04	1.367E-04	1.203E-04	74	2.895	7.721E-07	1.081E-05	5.790E-06
26	0.535	1.083E-04	1.405E-04	1.244E-04	75	2.965	5.244E-07	1.036E-05	5.440E-06
27	0.565	1.493E-04	1.830E-04	1.662E-04	76	3.035	-2.839E-06	5.569E-06	1.365E-06
28	0.595	1.586E-04	1.918E-04	1.752E-04	77	3.110	1.158E-07	8.971E-06	4.543E-06
29	0.625	1.522E-04	1.852E-04	1.687E-04	78	3.190	2.482E-07	8.965E-06	4.606E-06
30	0.655	1.257E-04	1.569E-04	1.413E-04	79	3.270	-2.861E-06	4.580E-06	8.592E-07
31	0.685	7.957E-05	1.087E-04	9.412E-05	80	3.350	-2.504E-06	4.676E-06	1.086E-06
32	0.715	8.499E-05	1.144E-04	9.970E-05	81	3.430	-2.319E-06	6.625E-06	2.153E-06
33	0.745	1.155E-04	1.460E-04	1.307E-04	82	3.510	-1.963E-06	5.594E-06	1.816E-06
34	0.775	1.432E-04	1.738E-04	1.585E-04	83	3.590	-3.689E-06	3.973E-06	1.420E-07
35	0.810	9.842E-05	1.291E-04	1.138E-04	84	3.670	-2.973E-06	3.751E-06	3.891E-07
36	0.850	2.019E-04	2.363E-04	2.191E-04	85	3.750	-2.080E-06	4.436E-06	1.178E-06
37	0.890	2.933E-04	3.304E-04	3.119E-04	86	3.830	-2.571E-06	3.549E-06	4.885E-07
38	0.930	3.193E-04	3.562E-04	3.377E-04	87	3.915	-2.640E-06	4.506E-06	9.332E-07
39	0.970	2.435E-04	2.771E-04	2.603E-04	88	4.005	-9.613E-07	6.524E-06	2.782E-06
40	1.010	2.202E-04	2.527E-04	2.365E-04	89	4.095	6.180E-07	6.364E-06	3.491E-06
41	1.050	1.780E-04	2.077E-04	1.929E-04	90	4.185	6.425E-07	5.430E-06	3.036E-06
42	1.090	1.207E-04	1.463E-04	1.335E-04	91	4.275	-8.408E-07	4.189E-06	1.674E-06
43	1.130	6.212E-05	8.455E-05	7.333E-05	92	4.365	-2.364E-06	1.792E-06	-2.862E-07
44	1.170	6.975E-05	9.136E-05	8.056E-05	93	4.455	-3.429E-06	3.889E-07	-1.520E-06
45	1.210	6.893E-05	9.016E-05	7.954E-05	94	4.550	-3.142E-06	3.511E-07	-1.395E-06
46	1.250	5.176E-05	7.846E-05	6.511E-05	95	4.650	-1.609E-06	1.146E-06	-2.316E-07
47	1.295	7.392E-05	9.342E-05	8.367E-05	96	4.750	7.308E-08	2.257E-06	1.165E-06
48	1.345	4.679E-05	6.774E-05	5.727E-05	97	4.850	7.786E-07	2.868E-06	1.823E-06
49	1.395	1.036E-04	1.276E-04	1.156E-04	98	4.950	7.617E-07	2.302E-06	1.532E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2695 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-5.097E-06	1.586E-04	7.678E-05	50	1.445	9.772E-05	1.155E-04	1.066E-04
2	0.111	9.355E-05	1.805E-04	1.370E-04	51	1.495	5.283E-05	6.677E-05	5.980E-05
3	0.117	1.140E-04	4.277E-04	2.708E-04	52	1.545	2.515E-05	3.765E-05	3.140E-05
4	0.125	1.251E-05	1.397E-04	7.611E-05	53	1.595	1.295E-05	2.453E-05	1.874E-05
5	0.135	-7.898E-05	1.696E-04	4.530E-05	54	1.645	1.908E-05	3.153E-05	2.531E-05
6	0.145	2.125E-04	5.694E-04	3.909E-04	55	1.695	2.410E-05	3.675E-05	3.043E-05
7	0.155	4.739E-05	2.184E-04	1.329E-04	56	1.745	2.666E-05	3.981E-05	3.324E-05
8	0.165	1.623E-04	2.739E-04	2.181E-04	57	1.800	2.354E-05	3.562E-05	2.958E-05
9	0.175	2.083E-04	3.782E-04	2.933E-04	58	1.860	1.363E-05	2.514E-05	1.939E-05
10	0.185	1.909E-04	2.669E-04	2.289E-04	59	1.920	3.864E-07	1.027E-05	5.330E-06
11	0.200	2.204E-04	2.680E-04	2.442E-04	60	1.980	7.568E-06	1.836E-05	1.296E-05
12	0.220	1.109E-04	1.583E-04	1.346E-04	61	2.040	3.600E-06	1.383E-05	8.714E-06
13	0.240	1.051E-04	1.454E-04	1.252E-04	62	2.100	4.344E-06	1.466E-05	9.501E-06
14	0.260	1.350E-04	1.706E-04	1.528E-04	63	2.160	1.074E-05	2.132E-05	1.603E-05
15	0.280	2.051E-04	2.401E-04	2.226E-04	64	2.220	1.377E-05	2.491E-05	1.934E-05
16	0.300	3.127E-04	3.483E-04	3.305E-04	65	2.280	1.381E-05	2.457E-05	1.919E-05
17	0.320	2.791E-04	3.130E-04	2.960E-04	66	2.340	1.159E-05	2.147E-05	1.653E-05
18	0.340	1.394E-04	1.683E-04	1.538E-04	67	2.405	9.036E-06	1.797E-05	1.350E-05
19	0.360	7.051E-05	9.715E-05	8.383E-05	68	2.475	1.052E-06	9.424E-06	5.238E-06
20	0.380	5.893E-05	8.515E-05	7.204E-05	69	2.545	2.517E-06	1.097E-05	6.746E-06
21	0.400	8.060E-05	1.089E-04	9.476E-05	70	2.615	6.507E-06	1.512E-05	1.081E-05
22	0.420	1.243E-04	1.538E-04	1.390E-04	71	2.685	7.418E-06	1.612E-05	1.177E-05
23	0.445	1.941E-04	2.243E-04	2.092E-04	72	2.755	2.637E-06	1.237E-05	7.502E-06
24	0.475	1.629E-04	1.907E-04	1.768E-04	73	2.825	-1.315E-06	5.482E-06	2.083E-06
25	0.505	8.931E-05	1.143E-04	1.018E-04	74	2.895	-4.818E-06	1.797E-06	-1.511E-06
26	0.535	1.009E-04	1.254E-04	1.132E-04	75	2.965	-5.181E-06	1.618E-06	-1.781E-06
27	0.565	8.668E-05	1.108E-04	9.875E-05	76	3.035	-2.560E-06	4.460E-06	9.499E-07
28	0.595	9.828E-05	1.221E-04	1.102E-04	77	3.110	-2.820E-06	5.016E-06	1.098E-06
29	0.625	8.918E-05	1.129E-04	1.011E-04	78	3.190	-3.298E-06	4.064E-06	3.830E-07
30	0.655	9.406E-05	1.170E-04	1.056E-04	79	3.270	-2.354E-06	3.782E-06	7.139E-07
31	0.685	5.171E-05	7.283E-05	6.227E-05	80	3.350	-2.091E-06	6.359E-06	2.134E-06
32	0.715	5.044E-05	7.133E-05	6.088E-05	81	3.430	7.285E-07	9.322E-06	5.025E-06
33	0.745	9.503E-05	1.179E-04	1.065E-04	82	3.510	1.113E-06	8.617E-06	4.865E-06
34	0.775	9.561E-05	1.177E-04	1.066E-04	83	3.590	-1.603E-06	4.369E-06	1.383E-06
35	0.810	6.169E-05	8.429E-05	7.299E-05	84	3.670	-4.254E-06	2.030E-06	-1.112E-06
36	0.850	1.433E-04	1.690E-04	1.562E-04	85	3.750	-6.074E-06	1.063E-06	-2.505E-06
37	0.890	2.281E-04	2.558E-04	2.420E-04	86	3.830	-6.296E-06	5.445E-07	-2.876E-06
38	0.930	1.802E-04	2.057E-04	1.930E-04	87	3.915	-4.363E-06	1.883E-06	-1.240E-06
39	0.970	1.154E-04	1.380E-04	1.267E-04	88	4.005	-2.509E-06	4.324E-06	9.077E-07
40	1.010	1.177E-04	1.407E-04	1.292E-04	89	4.095	-3.796E-07	5.904E-06	2.762E-06
41	1.050	9.997E-05	1.209E-04	1.104E-04	90	4.185	8.770E-07	8.153E-06	4.515E-06
42	1.090	7.713E-05	9.577E-05	8.645E-05	91	4.275	2.702E-07	7.584E-06	3.927E-06
43	1.130	4.646E-05	6.299E-05	5.472E-05	92	4.365	-1.891E-06	3.170E-06	6.395E-07
44	1.170	3.083E-05	4.578E-05	3.831E-05	93	4.455	-4.653E-06	3.714E-07	-2.141E-06
45	1.210	4.646E-05	6.162E-05	5.404E-05	94	4.550	-5.220E-06	-1.291E-07	-2.674E-06
46	1.250	4.474E-05	6.492E-05	5.483E-05	95	4.650	-3.307E-06	6.195E-07	-1.344E-06
47	1.295	3.814E-05	5.171E-05	4.492E-05	96	4.750	-6.797E-07	2.066E-06	6.932E-07
48	1.345	4.889E-05	6.577E-05	5.733E-05	97	4.850	5.787E-07	3.622E-06	2.100E-06
49	1.395	7.889E-05	9.673E-05	8.781E-05	98	4.950	8.616E-07	3.393E-06	2.127E-06



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3795 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-6.773E-07	1.009E-04	5.012E-05	50	1.445	7.764E-05	9.191E-05	8.477E-05
2	0.111	3.176E-05	8.812E-05	5.994E-05	51	1.495	5.186E-05	6.375E-05	5.780E-05
3	0.117	2.310E-05	2.187E-04	1.209E-04	52	1.545	1.574E-05	2.515E-05	2.044E-05
4	0.125	-1.190E-06	7.758E-05	3.819E-05	53	1.595	8.445E-06	1.697E-05	1.271E-05
5	0.135	-5.595E-05	1.084E-04	2.622E-05	54	1.645	1.545E-05	2.487E-05	2.016E-05
6	0.145	1.165E-04	3.516E-04	2.341E-04	55	1.695	1.198E-05	2.063E-05	1.630E-05
7	0.155	5.896E-05	1.726E-04	1.158E-04	56	1.745	8.486E-06	1.735E-05	1.292E-05
8	0.165	1.197E-04	1.993E-04	1.595E-04	57	1.800	1.630E-05	2.609E-05	2.120E-05
9	0.175	1.496E-04	2.675E-04	2.085E-04	58	1.860	1.119E-05	1.994E-05	1.556E-05
10	0.185	1.233E-04	1.767E-04	1.500E-04	59	1.920	5.110E-06	1.362E-05	9.363E-06
11	0.200	1.195E-04	1.530E-04	1.362E-04	60	1.980	1.023E-05	1.861E-05	1.442E-05
12	0.220	4.281E-05	7.601E-05	5.941E-05	61	2.040	1.046E-05	1.868E-05	1.457E-05
13	0.240	4.255E-05	7.109E-05	5.682E-05	62	2.100	1.245E-07	6.138E-06	3.131E-06
14	0.260	6.811E-05	9.356E-05	8.084E-05	63	2.160	-1.950E-06	5.318E-06	1.684E-06
15	0.280	1.107E-04	1.356E-04	1.231E-04	64	2.220	4.373E-06	1.099E-05	7.683E-06
16	0.300	1.545E-04	1.794E-04	1.670E-04	65	2.280	3.262E-06	9.999E-06	6.630E-06
17	0.320	1.339E-04	1.576E-04	1.458E-04	66	2.340	-1.281E-06	5.016E-06	1.868E-06
18	0.340	6.491E-05	8.565E-05	7.528E-05	67	2.405	7.486E-06	1.575E-05	1.162E-05
19	0.360	3.542E-05	5.539E-05	4.541E-05	68	2.475	2.881E-06	9.998E-06	6.440E-06
20	0.380	3.807E-05	5.841E-05	4.824E-05	69	2.545	4.108E-06	1.044E-05	7.275E-06
21	0.400	7.189E-05	9.452E-05	8.320E-05	70	2.615	5.783E-06	1.286E-05	9.323E-06
22	0.420	9.004E-05	1.130E-04	1.015E-04	71	2.685	5.533E-07	6.064E-06	3.309E-06
23	0.445	1.326E-04	1.556E-04	1.441E-04	72	2.755	-7.293E-07	5.224E-06	2.247E-06
24	0.475	9.464E-05	1.154E-04	1.050E-04	73	2.825	1.789E-07	6.415E-06	3.297E-06
25	0.505	5.728E-05	7.647E-05	6.687E-05	74	2.895	-1.299E-06	8.506E-06	3.603E-06
26	0.535	7.310E-05	9.223E-05	8.266E-05	75	2.965	1.835E-07	7.138E-06	3.661E-06
27	0.565	6.992E-05	8.886E-05	7.939E-05	76	3.035	-1.140E-06	3.810E-06	1.335E-06
28	0.595	5.751E-05	7.569E-05	6.660E-05	77	3.110	-3.857E-06	9.802E-07	-1.438E-06
29	0.625	7.625E-05	9.541E-05	8.583E-05	78	3.190	-4.397E-06	4.384E-07	-1.980E-06
30	0.655	8.874E-05	1.075E-04	9.811E-05	79	3.270	-3.276E-06	1.625E-06	-8.256E-07
31	0.685	3.714E-05	5.360E-05	4.537E-05	80	3.350	-2.408E-06	2.867E-06	2.295E-07
32	0.715	5.432E-05	7.122E-05	6.277E-05	81	3.430	-1.239E-06	3.695E-06	1.228E-06
33	0.745	8.120E-05	9.898E-05	9.009E-05	82	3.510	-7.086E-07	4.507E-06	1.899E-06
34	0.775	5.801E-05	7.433E-05	6.617E-05	83	3.590	-7.433E-07	3.489E-06	1.373E-06
35	0.810	3.776E-05	5.496E-05	4.636E-05	84	3.670	-1.728E-06	2.537E-06	4.046E-07
36	0.850	1.302E-04	1.511E-04	1.407E-04	85	3.750	-2.319E-06	2.245E-06	-3.689E-08
37	0.890	1.749E-04	1.969E-04	1.859E-04	86	3.830	-2.244E-06	2.186E-06	-2.919E-08
38	0.930	1.690E-04	1.894E-04	1.792E-04	87	3.915	-1.913E-06	2.225E-06	1.564E-07
39	0.970	7.090E-05	8.721E-05	7.906E-05	88	4.005	-1.200E-06	3.124E-06	9.620E-07
40	1.010	7.031E-05	8.669E-05	7.850E-05	89	4.095	1.840E-07	4.489E-06	2.337E-06
41	1.050	6.961E-05	8.545E-05	7.753E-05	90	4.185	2.687E-07	5.116E-06	2.693E-06
42	1.090	4.195E-05	5.531E-05	4.863E-05	91	4.275	-1.012E-06	3.917E-06	1.452E-06
43	1.130	3.167E-05	4.414E-05	3.790E-05	92	4.365	-2.668E-06	1.820E-06	-4.244E-07
44	1.170	2.371E-05	3.469E-05	2.920E-05	93	4.455	-4.327E-06	1.742E-07	-2.076E-06
45	1.210	1.649E-05	2.636E-05	2.143E-05	94	4.550	-5.045E-06	-4.027E-07	-2.724E-06
46	1.250	2.751E-06	1.494E-05	8.847E-06	95	4.650	-3.835E-06	4.934E-07	-1.671E-06
47	1.295	3.891E-06	1.231E-05	8.103E-06	96	4.750	-1.626E-06	1.938E-06	1.560E-07
48	1.345	1.786E-05	2.940E-05	2.363E-05	97	4.850	3.600E-07	3.032E-06	1.696E-06
49	1.395	4.871E-05	6.277E-05	5.574E-05	98	4.950	1.101E-06	3.342E-06	2.221E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 70 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.946E-04	3.631E-03	2.263E-03	50	1.445	2.336E-03	2.460E-03	2.398E-03
2	0.111	4.420E-03	5.966E-03	5.193E-03	51	1.495	1.643E-03	1.753E-03	1.698E-03
3	0.117	8.609E-03	1.328E-02	1.094E-02	52	1.545	1.121E-03	1.220E-03	1.170E-03
4	0.125	-9.499E-05	2.372E-03	1.138E-03	53	1.595	9.261E-04	1.027E-03	9.767E-04
5	0.135	-2.590E-03	7.197E-04	-9.351E-04	54	1.645	7.703E-04	8.672E-04	8.188E-04
6	0.145	6.776E-03	1.126E-02	9.017E-03	55	1.695	7.039E-04	7.965E-04	7.502E-04
7	0.155	-1.215E-03	1.048E-03	-8.327E-05	56	1.745	6.717E-04	7.683E-04	7.200E-04
8	0.165	2.491E-03	3.242E-03	2.866E-03	57	1.800	6.040E-04	6.998E-04	6.519E-04
9	0.175	4.028E-03	5.292E-03	4.660E-03	58	1.860	5.128E-04	6.110E-04	5.619E-04
10	0.185	3.753E-03	4.293E-03	4.023E-03	59	1.920	5.253E-04	6.241E-04	5.747E-04
11	0.200	4.784E-03	5.091E-03	4.938E-03	60	1.980	6.055E-04	6.966E-04	6.511E-04
12	0.220	4.098E-03	4.385E-03	4.242E-03	61	2.040	5.992E-04	6.935E-04	6.464E-04
13	0.240	2.915E-03	3.147E-03	3.031E-03	62	2.100	4.985E-04	5.902E-04	5.443E-04
14	0.260	2.796E-03	2.996E-03	2.896E-03	63	2.160	4.565E-04	5.489E-04	5.027E-04
15	0.280	3.227E-03	3.415E-03	3.321E-03	64	2.220	4.495E-04	5.392E-04	4.943E-04
16	0.300	3.163E-03	3.344E-03	3.253E-03	65	2.280	4.516E-04	5.419E-04	4.967E-04
17	0.320	2.710E-03	2.887E-03	2.798E-03	66	2.340	4.028E-04	4.963E-04	4.496E-04
18	0.340	2.724E-03	2.904E-03	2.814E-03	67	2.405	3.168E-04	4.167E-04	3.667E-04
19	0.360	3.381E-03	3.572E-03	3.476E-03	68	2.475	2.820E-04	3.752E-04	3.286E-04
20	0.380	4.350E-03	4.548E-03	4.449E-03	69	2.545	3.241E-04	4.147E-04	3.694E-04
21	0.400	4.432E-03	4.631E-03	4.531E-03	70	2.615	3.795E-04	4.704E-04	4.250E-04
22	0.420	3.544E-03	3.725E-03	3.634E-03	71	2.685	3.055E-04	3.960E-04	3.507E-04
23	0.445	2.900E-03	3.069E-03	2.984E-03	72	2.755	2.621E-04	3.455E-04	3.038E-04
24	0.475	2.173E-03	2.332E-03	2.252E-03	73	2.825	2.937E-04	3.799E-04	3.368E-04
25	0.505	2.199E-03	2.358E-03	2.278E-03	74	2.895	2.087E-04	2.943E-04	2.515E-04
26	0.535	2.867E-03	3.029E-03	2.948E-03	75	2.965	1.355E-04	2.212E-04	1.784E-04
27	0.565	3.534E-03	3.702E-03	3.618E-03	76	3.035	6.221E-05	1.486E-04	1.054E-04
28	0.595	3.888E-03	4.053E-03	3.970E-03	77	3.110	-1.503E-05	6.261E-05	2.379E-05
29	0.625	2.563E-03	2.715E-03	2.639E-03	78	3.190	2.484E-05	1.067E-04	6.576E-05
30	0.655	1.712E-03	1.854E-03	1.783E-03	79	3.270	3.745E-05	1.166E-04	7.705E-05
31	0.685	2.388E-03	2.536E-03	2.462E-03	80	3.350	3.594E-05	1.086E-04	7.227E-05
32	0.715	2.907E-03	3.057E-03	2.982E-03	81	3.430	1.137E-04	1.806E-04	1.472E-04
33	0.745	2.315E-03	2.458E-03	2.387E-03	82	3.510	1.021E-04	1.659E-04	1.340E-04
34	0.775	1.916E-03	2.055E-03	1.985E-03	83	3.590	1.107E-04	1.713E-04	1.410E-04
35	0.810	2.426E-03	2.574E-03	2.500E-03	84	3.670	1.941E-04	2.513E-04	2.227E-04
36	0.850	2.848E-03	2.998E-03	2.923E-03	85	3.750	1.529E-04	2.068E-04	1.798E-04
37	0.890	2.404E-03	2.551E-03	2.477E-03	86	3.830	6.075E-05	1.112E-04	8.598E-05
38	0.930	2.401E-03	2.548E-03	2.475E-03	87	3.915	4.320E-05	8.982E-05	6.651E-05
39	0.970	2.520E-03	2.665E-03	2.593E-03	88	4.005	4.480E-05	8.672E-05	6.576E-05
40	1.010	2.203E-03	2.345E-03	2.274E-03	89	4.095	7.098E-05	1.093E-04	9.014E-05
41	1.050	1.704E-03	1.838E-03	1.771E-03	90	4.185	1.018E-04	1.410E-04	1.214E-04
42	1.090	1.774E-03	1.904E-03	1.839E-03	91	4.275	9.296E-05	1.290E-04	1.110E-04
43	1.130	1.947E-03	2.073E-03	2.010E-03	92	4.365	5.466E-05	8.803E-05	7.135E-05
44	1.170	1.647E-03	1.763E-03	1.705E-03	93	4.455	1.782E-05	4.920E-05	3.351E-05
45	1.210	1.422E-03	1.533E-03	1.478E-03	94	4.550	-8.885E-06	1.801E-05	4.561E-06
46	1.250	1.392E-03	1.537E-03	1.464E-03	95	4.650	3.490E-06	2.832E-05	1.591E-05
47	1.295	1.833E-03	1.944E-03	1.889E-03	96	4.750	4.139E-05	6.173E-05	5.156E-05
48	1.345	1.876E-03	1.995E-03	1.936E-03	97	4.850	6.143E-05	7.705E-05	6.924E-05
49	1.395	1.941E-03	2.062E-03	2.001E-03	98	4.950	6.062E-05	7.089E-05	6.575E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 150 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.228E-03	2.634E-04	-4.823E-04	50	1.445	1.055E-03	1.123E-03	1.089E-03
2	0.111	2.721E-03	3.536E-03	3.128E-03	51	1.495	7.872E-04	8.485E-04	8.179E-04
3	0.117	6.965E-03	9.552E-03	8.259E-03	52	1.545	5.370E-04	5.925E-04	5.648E-04
4	0.125	-1.234E-03	6.706E-05	-5.837E-04	53	1.595	4.411E-04	4.975E-04	4.693E-04
5	0.135	-2.971E-03	-1.155E-03	-2.063E-03	54	1.645	4.105E-04	4.655E-04	4.380E-04
6	0.145	5.745E-03	8.235E-03	6.990E-03	55	1.695	3.907E-04	4.437E-04	4.172E-04
7	0.155	-1.600E-03	-3.461E-04	-9.732E-04	56	1.745	3.573E-04	4.114E-04	3.843E-04
8	0.165	1.386E-03	1.822E-03	1.604E-03	57	1.800	3.371E-04	3.905E-04	3.638E-04
9	0.175	2.704E-03	3.424E-03	3.064E-03	58	1.860	2.368E-04	2.918E-04	2.643E-04
10	0.185	2.081E-03	2.390E-03	2.235E-03	59	1.920	2.690E-04	3.235E-04	2.962E-04
11	0.200	2.640E-03	2.817E-03	2.728E-03	60	1.980	3.112E-04	3.616E-04	3.364E-04
12	0.220	2.044E-03	2.217E-03	2.131E-03	61	2.040	2.415E-04	2.925E-04	2.670E-04
13	0.240	1.784E-03	1.926E-03	1.855E-03	62	2.100	2.484E-04	3.000E-04	2.742E-04
14	0.260	1.754E-03	1.876E-03	1.815E-03	63	2.160	2.139E-04	2.646E-04	2.393E-04
15	0.280	2.051E-03	2.167E-03	2.109E-03	64	2.220	2.058E-04	2.550E-04	2.304E-04
16	0.300	2.091E-03	2.202E-03	2.147E-03	65	2.280	1.922E-04	2.415E-04	2.168E-04
17	0.320	1.764E-03	1.871E-03	1.817E-03	66	2.340	2.016E-04	2.542E-04	2.279E-04
18	0.340	1.527E-03	1.632E-03	1.580E-03	67	2.405	1.090E-04	1.633E-04	1.361E-04
19	0.360	1.620E-03	1.729E-03	1.675E-03	68	2.475	1.065E-04	1.577E-04	1.321E-04
20	0.380	1.716E-03	1.825E-03	1.770E-03	69	2.545	1.580E-04	2.088E-04	1.834E-04
21	0.400	1.931E-03	2.045E-03	1.988E-03	70	2.615	1.706E-04	2.213E-04	1.959E-04
22	0.420	1.998E-03	2.108E-03	2.053E-03	71	2.685	1.787E-04	2.296E-04	2.041E-04
23	0.445	1.964E-03	2.068E-03	2.016E-03	72	2.755	1.433E-04	1.893E-04	1.663E-04
24	0.475	1.369E-03	1.466E-03	1.418E-03	73	2.825	1.249E-04	1.722E-04	1.485E-04
25	0.505	1.208E-03	1.302E-03	1.255E-03	74	2.895	8.439E-05	1.316E-04	1.080E-04
26	0.535	1.181E-03	1.273E-03	1.227E-03	75	2.965	2.100E-05	6.788E-05	4.444E-05
27	0.565	1.725E-03	1.822E-03	1.774E-03	76	3.035	2.359E-05	6.999E-05	4.679E-05
28	0.595	2.141E-03	2.238E-03	2.189E-03	77	3.110	2.399E-05	6.815E-05	4.607E-05
29	0.625	1.354E-03	1.444E-03	1.399E-03	78	3.190	-9.072E-06	3.420E-05	1.256E-05
30	0.655	9.310E-04	1.015E-03	9.732E-04	79	3.270	-5.974E-06	3.497E-05	1.450E-05
31	0.685	1.427E-03	1.516E-03	1.472E-03	80	3.350	5.665E-05	9.634E-05	7.649E-05
32	0.715	1.832E-03	1.924E-03	1.878E-03	81	3.430	9.767E-05	1.356E-04	1.167E-04
33	0.745	1.413E-03	1.499E-03	1.456E-03	82	3.510	7.517E-05	1.097E-04	9.244E-05
34	0.775	1.080E-03	1.163E-03	1.122E-03	83	3.590	6.899E-05	1.026E-04	8.581E-05
35	0.810	1.491E-03	1.581E-03	1.536E-03	84	3.670	7.126E-05	1.022E-04	8.675E-05
36	0.850	1.839E-03	1.931E-03	1.885E-03	85	3.750	3.933E-05	6.669E-05	5.301E-05
37	0.890	1.586E-03	1.676E-03	1.631E-03	86	3.830	-6.788E-06	2.008E-05	6.647E-06
38	0.930	1.611E-03	1.700E-03	1.655E-03	87	3.915	-4.416E-06	2.022E-05	7.901E-06
39	0.970	1.646E-03	1.734E-03	1.690E-03	88	4.005	6.217E-06	2.871E-05	1.746E-05
40	1.010	1.425E-03	1.510E-03	1.467E-03	89	4.095	2.918E-05	4.988E-05	3.953E-05
41	1.050	1.097E-03	1.176E-03	1.136E-03	90	4.185	5.553E-05	7.651E-05	6.602E-05
42	1.090	9.684E-04	1.042E-03	1.005E-03	91	4.275	5.104E-05	7.029E-05	6.067E-05
43	1.130	9.391E-04	1.009E-03	9.742E-04	92	4.365	3.896E-05	5.703E-05	4.800E-05
44	1.170	8.253E-04	8.909E-04	8.581E-04	93	4.455	1.744E-05	3.385E-05	2.565E-05
45	1.210	7.711E-04	8.342E-04	8.027E-04	94	4.550	-2.712E-06	1.133E-05	4.310E-06
46	1.250	8.056E-04	8.881E-04	8.469E-04	95	4.650	-2.590E-06	1.010E-05	3.756E-06
47	1.295	9.078E-04	9.696E-04	9.387E-04	96	4.750	1.236E-05	2.295E-05	1.766E-05
48	1.345	8.525E-04	9.181E-04	8.853E-04	97	4.850	2.254E-05	3.049E-05	2.652E-05
49	1.395	9.618E-04	1.030E-03	9.956E-04	98	4.950	2.499E-05	3.028E-05	2.763E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 270 SEC

COUNTING TIME : 80 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.747E-03	-8.196E-04	-1.283E-03	50	1.445	4.333E-04	4.739E-04	4.536E-04
2	0.111	1.817E-03	2.313E-03	2.065E-03	51	1.495	3.603E-04	3.978E-04	3.791E-04
3	0.117	5.565E-03	7.211E-03	6.388E-03	52	1.545	2.465E-04	2.810E-04	2.638E-04
4	0.125	-1.372E-03	-5.851E-04	-9.786E-04	53	1.595	1.973E-04	2.326E-04	2.149E-04
5	0.135	-2.711E-03	-1.535E-03	-2.123E-03	54	1.645	2.082E-04	2.432E-04	2.257E-04
6	0.145	4.894E-03	6.523E-03	5.708E-03	55	1.695	2.310E-04	2.655E-04	2.483E-04
7	0.155	-1.513E-03	-6.956E-04	-1.104E-03	56	1.745	2.269E-04	2.623E-04	2.446E-04
8	0.165	1.023E-03	1.319E-03	1.171E-03	57	1.800	2.080E-04	2.425E-04	2.252E-04
9	0.175	1.920E-03	2.403E-03	2.162E-03	58	1.860	1.478E-04	1.821E-04	1.649E-04
10	0.185	1.333E-03	1.540E-03	1.436E-03	59	1.920	1.268E-04	1.610E-04	1.439E-04
11	0.200	1.628E-03	1.749E-03	1.688E-03	60	1.980	1.446E-04	1.759E-04	1.603E-04
12	0.220	1.206E-03	1.325E-03	1.266E-03	61	2.040	1.772E-04	2.104E-04	1.938E-04
13	0.240	1.214E-03	1.313E-03	1.263E-03	62	2.100	1.514E-04	1.841E-04	1.678E-04
14	0.260	1.248E-03	1.334E-03	1.291E-03	63	2.160	1.423E-04	1.754E-04	1.588E-04
15	0.280	1.409E-03	1.489E-03	1.449E-03	64	2.220	1.349E-04	1.655E-04	1.502E-04
16	0.300	1.565E-03	1.643E-03	1.604E-03	65	2.280	1.096E-04	1.404E-04	1.250E-04
17	0.320	1.314E-03	1.389E-03	1.351E-03	66	2.340	8.087E-05	1.119E-04	9.640E-05
18	0.340	9.957E-04	1.067E-03	1.031E-03	67	2.405	7.097E-05	1.043E-04	8.762E-05
19	0.360	8.878E-04	9.594E-04	9.236E-04	68	2.475	6.130E-05	9.210E-05	7.670E-05
20	0.380	8.433E-04	9.143E-04	8.788E-04	69	2.545	6.117E-05	9.136E-05	7.627E-05
21	0.400	1.027E-03	1.102E-03	1.064E-03	70	2.615	9.151E-05	1.231E-04	1.073E-04
22	0.420	1.243E-03	1.317E-03	1.280E-03	71	2.685	8.524E-05	1.162E-04	1.007E-04
23	0.445	1.338E-03	1.410E-03	1.374E-03	72	2.755	6.406E-05	9.235E-05	7.820E-05
24	0.475	9.342E-04	1.000E-03	9.671E-04	73	2.825	4.742E-05	7.521E-05	6.131E-05
25	0.505	6.468E-04	7.084E-04	6.776E-04	74	2.895	1.690E-05	4.410E-05	3.050E-05
26	0.535	6.267E-04	6.872E-04	6.569E-04	75	2.965	2.474E-06	2.973E-05	1.610E-05
27	0.565	1.059E-03	1.124E-03	1.092E-03	76	3.035	2.294E-06	2.966E-05	1.598E-05
28	0.595	1.238E-03	1.303E-03	1.271E-03	77	3.110	1.892E-05	4.519E-05	3.206E-05
29	0.625	7.513E-04	8.110E-04	7.811E-04	78	3.190	1.497E-05	4.078E-05	2.788E-05
30	0.655	5.930E-04	6.503E-04	6.217E-04	79	3.270	1.188E-05	3.659E-05	2.424E-05
31	0.685	8.684E-04	9.286E-04	8.985E-04	80	3.350	3.150E-05	5.469E-05	4.310E-05
32	0.715	1.132E-03	1.194E-03	1.163E-03	81	3.430	3.969E-05	6.158E-05	5.064E-05
33	0.745	9.069E-04	9.656E-04	9.363E-04	82	3.510	2.569E-05	4.542E-05	3.555E-05
34	0.775	7.688E-04	8.262E-04	7.975E-04	83	3.590	2.656E-05	4.563E-05	3.610E-05
35	0.810	9.842E-04	1.046E-03	1.015E-03	84	3.670	2.673E-05	4.395E-05	3.534E-05
36	0.850	1.273E-03	1.337E-03	1.305E-03	85	3.750	1.377E-05	2.922E-05	2.149E-05
37	0.890	1.179E-03	1.241E-03	1.210E-03	86	3.830	5.175E-06	1.988E-05	1.253E-05
38	0.930	1.154E-03	1.215E-03	1.185E-03	87	3.915	2.821E-06	1.649E-05	9.658E-06
39	0.970	1.053E-03	1.111E-03	1.082E-03	88	4.005	7.284E-06	1.955E-05	1.342E-05
40	1.010	9.410E-04	9.978E-04	9.694E-04	89	4.095	1.408E-05	2.533E-05	1.971E-05
41	1.050	8.000E-04	8.532E-04	8.266E-04	90	4.185	1.914E-05	3.067E-05	2.491E-05
42	1.090	6.377E-04	6.861E-04	6.619E-04	91	4.275	1.516E-05	2.590E-05	2.053E-05
43	1.130	5.856E-04	6.309E-04	6.082E-04	92	4.365	9.961E-06	1.922E-05	1.459E-05
44	1.170	4.884E-04	5.306E-04	5.095E-04	93	4.455	6.039E-06	1.473E-05	1.039E-05
45	1.210	4.762E-04	5.169E-04	4.966E-04	94	4.550	2.316E-06	9.848E-06	6.082E-06
46	1.250	5.225E-04	5.767E-04	5.496E-04	95	4.650	3.615E-06	1.082E-05	7.218E-06
47	1.295	5.405E-04	5.798E-04	5.601E-04	96	4.750	6.334E-06	1.200E-05	9.167E-06
48	1.345	4.494E-04	4.897E-04	4.695E-04	97	4.850	7.013E-06	1.100E-05	9.007E-06
49	1.395	4.316E-04	4.723E-04	4.519E-04	98	4.950	6.790E-06	9.797E-06	8.294E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 450 SEC

COUNTING TIME : 100 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	-1.343E-03	-7.084E-04	-1.026E-03	50 1.445	2.295E-04	2.570E-04	2.433E-04
2 0.111	1.208E-03	1.538E-03	1.373E-03	51 1.495	1.691E-04	1.941E-04	1.816E-04
3 0.117	3.865E-03	5.013E-03	4.439E-03	52 1.545	1.363E-04	1.603E-04	1.483E-04
4 0.125	-1.026E-03	-5.057E-04	-7.660E-04	53 1.595	1.120E-04	1.364E-04	1.242E-04
5 0.135	-2.066E-03	-1.244E-03	-1.655E-03	54 1.645	1.262E-04	1.511E-04	1.387E-04
6 0.145	3.576E-03	4.726E-03	4.151E-03	55 1.695	1.587E-04	1.837E-04	1.712E-04
7 0.155	-1.108E-03	-5.371E-04	-8.223E-04	56 1.745	1.725E-04	1.980E-04	1.852E-04
8 0.165	7.287E-04	9.464E-04	8.376E-04	57 1.800	1.366E-04	1.611E-04	1.489E-04
9 0.175	1.519E-03	1.871E-03	1.695E-03	58 1.860	9.846E-05	1.225E-04	1.105E-04
10 0.185	9.962E-04	1.148E-03	1.072E-03	59 1.920	1.050E-04	1.291E-04	1.171E-04
11 0.200	1.165E-03	1.254E-03	1.209E-03	60 1.980	1.009E-04	1.230E-04	1.120E-04
12 0.220	7.537E-04	8.421E-04	7.979E-04	61 2.040	1.121E-04	1.348E-04	1.235E-04
13 0.240	8.657E-04	9.404E-04	9.031E-04	62 2.100	7.688E-05	9.894E-05	8.791E-05
14 0.260	9.599E-04	1.025E-03	9.922E-04	63 2.160	8.323E-05	1.056E-04	9.440E-05
15 0.280	1.045E-03	1.106E-03	1.075E-03	64 2.220	8.817E-05	1.098E-04	9.897E-05
16 0.300	1.205E-03	1.264E-03	1.235E-03	65 2.280	6.479E-05	8.531E-05	7.505E-05
17 0.320	1.003E-03	1.059E-03	1.031E-03	66 2.340	4.899E-05	6.996E-05	5.947E-05
18 0.340	6.493E-04	7.011E-04	6.752E-04	67 2.405	2.378E-05	4.473E-05	3.425E-05
19 0.360	5.457E-04	5.970E-04	5.713E-04	68 2.475	3.107E-05	5.147E-05	4.127E-05
20 0.380	5.192E-04	5.702E-04	5.447E-04	69 2.545	4.863E-05	6.881E-05	5.872E-05
21 0.400	6.515E-04	7.058E-04	6.786E-04	70 2.615	5.617E-05	7.653E-05	6.635E-05
22 0.420	8.263E-04	8.806E-04	8.534E-04	71 2.685	5.384E-05	7.423E-05	6.403E-05
23 0.445	9.122E-04	9.649E-04	9.385E-04	72 2.755	4.637E-05	6.467E-05	5.552E-05
24 0.475	6.668E-04	7.151E-04	6.910E-04	73 2.825	2.862E-05	4.615E-05	3.738E-05
25 0.505	4.236E-04	4.683E-04	4.460E-04	74 2.895	1.496E-05	3.189E-05	2.342E-05
26 0.535	3.950E-04	4.387E-04	4.168E-04	75 2.965	1.714E-06	1.872E-05	1.022E-05
27 0.565	6.596E-04	7.066E-04	6.831E-04	76 3.035	-1.775E-06	1.463E-05	6.428E-06
28 0.595	8.070E-04	8.543E-04	8.306E-04	77 3.110	5.545E-06	2.156E-05	1.355E-05
29 0.625	5.456E-04	5.896E-04	5.676E-04	78 3.190	5.169E-06	2.118E-05	1.318E-05
30 0.655	3.836E-04	4.249E-04	4.042E-04	79 3.270	9.569E-07	1.538E-05	8.170E-06
31 0.685	4.885E-04	5.311E-04	5.098E-04	80 3.350	1.389E-05	2.828E-05	2.109E-05
32 0.715	6.637E-04	7.076E-04	6.857E-04	81 3.430	1.313E-05	2.598E-05	1.955E-05
33 0.745	5.637E-04	6.062E-04	5.849E-04	82 3.510	4.716E-06	1.645E-05	1.058E-05
34 0.775	5.115E-04	5.532E-04	5.323E-04	83 3.590	1.430E-05	2.579E-05	2.004E-05
35 0.810	6.430E-04	6.879E-04	6.654E-04	84 3.670	1.567E-05	2.627E-05	2.097E-05
36 0.850	8.385E-04	8.849E-04	8.617E-04	85 3.750	9.297E-06	1.853E-05	1.391E-05
37 0.890	8.938E-04	9.409E-04	9.174E-04	86 3.830	2.562E-06	1.121E-05	6.887E-06
38 0.930	8.982E-04	9.444E-04	9.213E-04	87 3.915	-3.783E-07	7.544E-06	3.583E-06
39 0.970	7.820E-04	8.255E-04	8.038E-04	88 4.005	3.416E-06	1.078E-05	7.098E-06
40 1.010	6.818E-04	7.236E-04	7.027E-04	89 4.095	7.416E-06	1.412E-05	1.077E-05
41 1.050	5.725E-04	6.109E-04	5.917E-04	90 4.185	7.579E-06	1.385E-05	1.071E-05
42 1.090	4.096E-04	4.440E-04	4.268E-04	91 4.275	7.787E-06	1.351E-05	1.065E-05
43 1.130	3.751E-04	4.073E-04	3.912E-04	92 4.365	7.584E-06	1.274E-05	1.016E-05
44 1.170	3.569E-04	3.878E-04	3.724E-04	93 4.455	4.224E-06	9.215E-06	6.719E-06
45 1.210	3.407E-04	3.701E-04	3.554E-04	94 4.550	1.882E-07	3.920E-06	2.054E-06
46 1.250	3.960E-04	4.351E-04	4.156E-04	95 4.650	1.005E-06	2.560E-06	7.772E-07
47 1.295	3.436E-04	3.712E-04	3.574E-04	96 4.750	6.892E-07	3.412E-06	2.051E-06
48 1.345	2.633E-04	2.914E-04	2.773E-04	97 4.850	1.976E-06	3.952E-06	2.964E-06
49 1.395	2.556E-04	2.836E-04	2.696E-04	98 4.950	2.072E-06	3.533E-06	2.802E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 750 SEC

COUNTING TIME : 200 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	-1.447E-03	-1.068E-03	-1.257E-03	50 1.445	1.721E-04	1.877E-04	1.799E-04
2 0.111	9.586E-04	1.167E-03	1.063E-03	51 1.495	1.226E-04	1.367E-04	1.297E-04
3 0.117	3.566E-03	4.241E-03	3.903E-03	52 1.545	9.569E-05	1.089E-04	1.023E-04
4 0.125	-1.059E-03	-7.270E-04	-8.931E-04	53 1.595	7.413E-05	8.759E-05	8.086E-05
5 0.135	-1.979E-03	-1.451E-03	-1.715E-03	54 1.645	7.618E-05	8.936E-05	8.277E-05
6 0.145	3.347E-03	4.058E-03	3.703E-03	55 1.695	9.820E-05	1.118E-04	1.050E-04
7 0.155	-1.145E-03	-7.848E-04	-9.650E-04	56 1.745	9.994E-05	1.136E-04	1.068E-04
8 0.165	5.314E-04	6.571E-04	5.942E-04	57 1.800	9.007E-05	1.032E-04	9.663E-05
9 0.175	1.172E-03	1.378E-03	1.275E-03	58 1.860	5.567E-05	6.841E-05	6.204E-05
10 0.185	6.645E-04	7.532E-04	7.089E-04	59 1.920	5.933E-05	7.209E-05	6.571E-05
11 0.200	7.844E-04	8.349E-04	8.097E-04	60 1.980	6.297E-05	7.482E-05	6.890E-05
12 0.220	4.749E-04	5.245E-04	4.997E-04	61 2.040	7.059E-05	8.269E-05	7.664E-05
13 0.240	5.686E-04	6.108E-04	5.897E-04	62 2.100	5.807E-05	6.998E-05	6.403E-05
14 0.260	6.494E-04	6.863E-04	6.679E-04	63 2.160	5.624E-05	6.816E-05	6.220E-05
15 0.280	7.614E-04	7.967E-04	7.791E-04	64 2.220	6.887E-05	8.027E-05	7.457E-05
16 0.300	9.656E-04	1.001E-03	9.830E-04	65 2.280	4.258E-05	5.304E-05	4.781E-05
17 0.320	8.098E-04	8.428E-04	8.263E-04	66 2.340	2.149E-05	3.159E-05	2.654E-05
18 0.340	4.573E-04	4.868E-04	4.721E-04	67 2.405	2.242E-05	3.317E-05	2.779E-05
19 0.360	3.480E-04	3.767E-04	3.623E-04	68 2.475	2.118E-05	3.126E-05	2.622E-05
20 0.380	3.373E-04	3.658E-04	3.516E-04	69 2.545	3.120E-05	4.161E-05	3.640E-05
21 0.400	4.254E-04	4.557E-04	4.405E-04	70 2.615	3.924E-05	4.965E-05	4.444E-05
22 0.420	5.207E-04	5.509E-04	5.358E-04	71 2.685	3.014E-05	3.968E-05	3.491E-05
23 0.445	5.935E-04	6.229E-04	6.082E-04	72 2.755	1.319E-05	2.134E-05	1.726E-05
24 0.475	4.328E-04	4.597E-04	4.462E-04	73 2.825	9.691E-06	1.789E-05	1.379E-05
25 0.505	2.685E-04	2.934E-04	2.810E-04	74 2.895	9.897E-06	1.801E-05	1.395E-05
26 0.535	2.710E-04	2.956E-04	2.833E-04	75 2.965	4.228E-06	1.246E-05	8.344E-06
27 0.565	4.348E-04	4.612E-04	4.480E-04	76 3.035	-1.046E-07	7.398E-06	3.647E-06
28 0.595	4.782E-04	5.043E-04	4.912E-04	77 3.110	2.438E-07	7.639E-06	3.942E-06
29 0.625	3.772E-04	4.021E-04	3.897E-04	78 3.190	9.232E-09	7.044E-06	3.527E-06
30 0.655	2.756E-04	2.988E-04	2.872E-04	79 3.270	2.762E-06	9.607E-06	6.185E-06
31 0.685	2.608E-04	2.837E-04	2.723E-04	80 3.350	3.310E-06	9.474E-06	6.392E-06
32 0.715	3.143E-04	3.376E-04	3.260E-04	81 3.430	3.091E-06	8.630E-06	5.861E-06
33 0.745	3.160E-04	3.393E-04	3.276E-04	82 3.510	3.156E-06	7.917E-06	5.537E-06
34 0.775	3.412E-04	3.646E-04	3.529E-04	83 3.590	1.184E-05	1.708E-05	1.446E-05
35 0.810	3.853E-04	4.100E-04	3.977E-04	84 3.670	1.358E-05	1.828E-05	1.593E-05
36 0.850	5.157E-04	5.416E-04	5.287E-04	85 3.750	7.754E-06	1.166E-05	9.708E-06
37 0.890	6.112E-04	6.381E-04	6.246E-04	86 3.830	2.191E-06	5.550E-06	3.871E-06
38 0.930	6.363E-04	6.628E-04	6.495E-04	87 3.915	4.784E-07	3.726E-06	2.102E-06
39 0.970	4.936E-04	5.179E-04	5.058E-04	88 4.005	2.829E-07	3.273E-06	1.778E-06
40 1.010	4.553E-04	4.788E-04	4.670E-04	89 4.095	-4.685E-07	2.345E-06	9.380E-07
41 1.050	4.007E-04	4.225E-04	4.116E-04	90 4.185	-2.488E-07	2.386E-06	1.069E-06
42 1.090	2.626E-04	2.814E-04	2.720E-04	91 4.275	6.279E-07	3.186E-06	1.907E-06
43 1.130	2.001E-04	2.174E-04	2.087E-04	92 4.365	7.539E-07	3.422E-06	2.088E-06
44 1.170	1.845E-04	2.011E-04	1.928E-04	93 4.455	-1.417E-07	2.675E-06	1.267E-06
45 1.210	2.247E-04	2.412E-04	2.330E-04	94 4.550	-1.042E-06	1.407E-06	1.822E-07
46 1.250	2.557E-04	2.775E-04	2.666E-04	95 4.650	-9.719E-07	1.006E-06	1.709E-08
47 1.295	2.134E-04	2.286E-04	2.210E-04	96 4.750	-8.966E-08	1.606E-06	7.582E-07
48 1.345	1.675E-04	1.830E-04	1.752E-04	97 4.850	6.860E-07	2.207E-06	1.447E-06
49 1.395	1.704E-04	1.861E-04	1.782E-04	98 4.950	1.029E-06	2.101E-06	1.565E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1350 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-7.451E-04	-5.308E-04	-6.380E-04	50	1.445	1.401E-04	1.491E-04	1.446E-04
2	0.111	5.001E-04	6.214E-04	5.608E-04	51	1.495	9.173E-05	9.950E-05	9.561E-05
3	0.117	1.913E-03	2.294E-03	2.104E-03	52	1.545	5.968E-05	6.672E-05	6.320E-05
4	0.125	-5.381E-04	-3.443E-04	-4.412E-04	53	1.595	4.329E-05	5.015E-05	4.672E-05
5	0.135	-1.081E-03	-7.660E-04	-9.233E-04	54	1.645	4.022E-05	4.705E-05	4.363E-05
6	0.145	1.896E-03	2.313E-03	2.105E-03	55	1.695	4.096E-05	4.772E-05	4.434E-05
7	0.155	-5.961E-04	-3.816E-04	-4.888E-04	56	1.745	5.086E-05	5.793E-05	5.439E-05
8	0.165	3.253E-04	3.950E-04	3.601E-04	57	1.800	4.642E-05	5.319E-05	4.981E-05
9	0.175	6.982E-04	8.141E-04	7.562E-04	58	1.860	3.282E-05	3.935E-05	3.609E-05
10	0.185	4.079E-04	4.577E-04	4.328E-04	59	1.920	2.692E-05	3.339E-05	3.015E-05
11	0.200	4.808E-04	5.088E-04	4.948E-04	60	1.980	3.698E-05	4.322E-05	4.010E-05
12	0.220	2.648E-04	2.910E-04	2.779E-04	61	2.040	4.210E-05	4.848E-05	4.529E-05
13	0.240	3.026E-04	3.250E-04	3.138E-04	62	2.100	2.547E-05	3.143E-05	2.845E-05
14	0.260	3.715E-04	3.914E-04	3.814E-04	63	2.160	3.409E-05	4.045E-05	3.727E-05
15	0.280	5.016E-04	5.218E-04	5.117E-04	64	2.220	4.348E-05	4.953E-05	4.650E-05
16	0.300	6.588E-04	6.796E-04	6.692E-04	65	2.280	2.904E-05	3.447E-05	3.175E-05
17	0.320	5.406E-04	5.591E-04	5.499E-04	66	2.340	1.743E-05	2.261E-05	2.002E-05
18	0.340	2.905E-04	3.066E-04	2.985E-04	67	2.405	1.319E-05	1.837E-05	1.578E-05
19	0.360	2.056E-04	2.209E-04	2.133E-04	68	2.475	1.399E-05	1.902E-05	1.650E-05
20	0.380	1.879E-04	2.030E-04	1.954E-04	69	2.545	1.936E-05	2.449E-05	2.193E-05
21	0.400	2.354E-04	2.515E-04	2.435E-04	70	2.615	2.635E-05	3.133E-05	2.884E-05
22	0.420	3.019E-04	3.181E-04	3.100E-04	71	2.685	2.180E-05	2.652E-05	2.416E-05
23	0.445	3.755E-04	3.915E-04	3.835E-04	72	2.755	9.738E-06	1.336E-05	1.155E-05
24	0.475	2.744E-04	2.889E-04	2.816E-04	73	2.825	4.982E-06	8.308E-06	6.645E-06
25	0.505	1.678E-04	1.812E-04	1.745E-04	74	2.895	2.474E-06	5.898E-06	4.186E-06
26	0.535	1.957E-04	2.091E-04	2.024E-04	75	2.965	4.318E-07	3.647E-06	2.039E-06
27	0.565	2.289E-04	2.427E-04	2.358E-04	76	3.035	9.755E-07	4.007E-06	2.491E-06
28	0.595	2.432E-04	2.567E-04	2.500E-04	77	3.110	-6.200E-07	2.303E-06	8.417E-07
29	0.625	2.126E-04	2.258E-04	2.192E-04	78	3.190	-1.620E-07	2.687E-06	1.263E-06
30	0.655	1.796E-04	1.920E-04	1.858E-04	79	3.270	-4.263E-08	2.421E-06	1.189E-06
31	0.685	1.215E-04	1.332E-04	1.274E-04	80	3.350	1.271E-06	3.671E-06	2.471E-06
32	0.715	1.284E-04	1.401E-04	1.342E-04	81	3.430	1.674E-06	3.827E-06	2.751E-06
33	0.745	1.696E-04	1.818E-04	1.757E-04	82	3.510	1.980E-06	3.959E-06	2.969E-06
34	0.775	1.815E-04	1.937E-04	1.876E-04	83	3.590	3.876E-06	5.844E-06	4.860E-06
35	0.810	1.798E-04	1.925E-04	1.861E-04	84	3.670	3.851E-06	5.716E-06	4.784E-06
36	0.850	2.847E-04	2.984E-04	2.915E-04	85	3.750	2.059E-06	3.428E-06	2.743E-06
37	0.890	3.712E-04	3.858E-04	3.785E-04	86	3.830	5.872E-07	1.861E-06	1.224E-06
38	0.930	3.992E-04	4.136E-04	4.064E-04	87	3.915	2.331E-07	1.407E-06	8.200E-07
39	0.970	2.889E-04	3.019E-04	2.954E-04	88	4.005	3.663E-07	1.342E-06	8.541E-07
40	1.010	2.583E-04	2.709E-04	2.646E-04	89	4.095	5.285E-07	1.381E-06	9.547E-07
41	1.050	2.446E-04	2.564E-04	2.505E-04	90	4.185	4.419E-07	1.279E-06	8.604E-07
42	1.090	1.506E-04	1.605E-04	1.556E-04	91	4.275	2.991E-07	1.145E-06	7.221E-07
43	1.130	1.014E-04	1.103E-04	1.059E-04	92	4.365	7.190E-08	8.987E-07	4.853E-07
44	1.170	9.646E-05	1.052E-04	1.008E-04	93	4.455	-3.484E-07	2.965E-07	-2.596E-08
45	1.210	1.075E-04	1.160E-04	1.117E-04	94	4.550	-6.841E-07	-8.383E-08	-3.840E-07
46	1.250	1.380E-04	1.494E-04	1.437E-04	95	4.650	-6.340E-07	2.333E-07	-3.158E-07
47	1.295	1.200E-04	1.280E-04	1.240E-04	96	4.750	-3.244E-07	1.916E-07	-6.636E-08
48	1.345	8.031E-05	8.847E-05	8.439E-05	97	4.850	3.955E-08	3.805E-07	2.100E-07
49	1.395	1.231E-04	1.320E-04	1.275E-04	98	4.950	2.196E-07	4.925E-07	3.561E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2150 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-5.034E-04	-3.599E-04	-4.317E-04	50	1.445	1.105E-04	1.172E-04	1.138E-04
2	0.111	3.194E-04	3.979E-04	3.586E-04	51	1.495	7.351E-05	7.927E-05	7.639E-05
3	0.117	1.244E-03	1.504E-03	1.374E-03	52	1.545	3.980E-05	4.481E-05	4.230E-05
4	0.125	-3.511E-04	-2.265E-04	-2.888E-04	53	1.595	2.708E-05	3.195E-05	2.951E-05
5	0.135	-7.188E-04	-5.090E-04	-6.139E-04	54	1.645	2.468E-05	2.936E-05	2.702E-05
6	0.145	1.277E-03	1.560E-03	1.419E-03	55	1.695	2.036E-05	2.503E-05	2.270E-05
7	0.155	-3.966E-04	-2.532E-04	-3.249E-04	56	1.745	2.696E-05	3.181E-05	2.939E-05
8	0.165	2.064E-04	2.533E-04	2.298E-04	57	1.800	3.006E-05	3.497E-05	3.251E-05
9	0.175	4.448E-04	5.229E-04	4.838E-04	58	1.860	2.321E-05	2.788E-05	2.554E-05
10	0.185	2.384E-04	2.719E-04	2.552E-04	59	1.920	2.013E-05	2.473E-05	2.243E-05
11	0.200	2.982E-04	3.170E-04	3.076E-04	60	1.980	1.694E-05	2.126E-05	1.910E-05
12	0.220	1.550E-04	1.731E-04	1.640E-04	61	2.040	2.302E-05	2.740E-05	2.521E-05
13	0.240	1.525E-04	1.679E-04	1.602E-04	62	2.100	1.886E-05	2.317E-05	2.101E-05
14	0.260	1.972E-04	2.111E-04	2.041E-04	63	2.160	1.483E-05	1.906E-05	1.695E-05
15	0.280	3.060E-04	3.199E-04	3.129E-04	64	2.220	2.710E-05	3.138E-05	2.924E-05
16	0.300	4.289E-04	4.430E-04	4.359E-04	65	2.280	2.204E-05	2.611E-05	2.407E-05
17	0.320	3.617E-04	3.750E-04	3.684E-04	66	2.340	1.242E-05	1.600E-05	1.421E-05
18	0.340	1.839E-04	1.954E-04	1.897E-04	67	2.405	9.443E-06	1.307E-05	1.126E-05
19	0.360	1.199E-04	1.307E-04	1.253E-04	68	2.475	1.067E-05	1.415E-05	1.241E-05
20	0.380	1.156E-04	1.263E-04	1.209E-04	69	2.545	1.132E-05	1.477E-05	1.304E-05
21	0.400	1.455E-04	1.570E-04	1.512E-04	70	2.615	1.485E-05	1.821E-05	1.653E-05
22	0.420	1.875E-04	1.992E-04	1.934E-04	71	2.685	1.053E-05	1.353E-05	1.203E-05
23	0.445	2.570E-04	2.688E-04	2.629E-04	72	2.755	6.548E-06	9.187E-06	7.868E-06
24	0.475	2.036E-04	2.144E-04	2.090E-04	73	2.825	2.293E-06	4.474E-06	3.384E-06
25	0.505	1.089E-04	1.187E-04	1.138E-04	74	2.895	8.875E-07	3.112E-06	2.000E-06
26	0.535	1.315E-04	1.412E-04	1.363E-04	75	2.965	-1.027E-07	1.905E-06	9.013E-07
27	0.565	1.373E-04	1.471E-04	1.422E-04	76	3.035	1.188E-06	3.322E-06	2.255E-06
28	0.595	1.263E-04	1.357E-04	1.310E-04	77	3.110	2.245E-07	2.240E-06	1.232E-06
29	0.625	1.393E-04	1.489E-04	1.441E-04	78	3.190	-5.999E-07	1.226E-06	3.130E-07
30	0.655	1.308E-04	1.400E-04	1.354E-04	79	3.270	-7.066E-07	9.776E-07	1.355E-07
31	0.685	7.732E-05	8.579E-05	8.155E-05	80	3.350	4.163E-07	1.972E-06	1.194E-06
32	0.715	8.602E-05	9.450E-05	9.026E-05	81	3.430	8.714E-07	2.343E-06	1.607E-06
33	0.745	1.211E-04	1.299E-04	1.255E-04	82	3.510	3.255E-07	1.555E-06	9.405E-07
34	0.775	1.191E-04	1.278E-04	1.234E-04	83	3.590	1.437E-06	2.699E-06	2.068E-06
35	0.810	1.044E-04	1.134E-04	1.089E-04	84	3.670	2.438E-06	3.749E-06	3.093E-06
36	0.850	1.912E-04	2.012E-04	1.962E-04	85	3.750	1.963E-06	2.953E-06	2.458E-06
37	0.890	2.693E-04	2.801E-04	2.747E-04	86	3.830	9.019E-07	1.742E-06	1.322E-06
38	0.930	2.599E-04	2.703E-04	2.651E-04	87	3.915	1.717E-07	8.810E-07	5.264E-07
39	0.970	1.756E-04	1.848E-04	1.802E-04	88	4.005	2.417E-07	9.126E-07	5.772E-07
40	1.010	1.599E-04	1.688E-04	1.644E-04	89	4.095	3.696E-07	9.757E-07	6.727E-07
41	1.050	1.562E-04	1.647E-04	1.604E-04	90	4.185	1.174E-07	6.627E-07	3.901E-07
42	1.090	9.516E-05	1.023E-04	9.875E-05	91	4.275	-1.194E-07	3.798E-07	1.302E-07
43	1.130	6.698E-05	7.352E-05	7.025E-05	92	4.365	-2.466E-07	2.260E-07	-1.031E-08
44	1.170	6.465E-05	7.090E-05	6.777E-05	93	4.455	-3.569E-07	9.408E-08	-1.314E-07
45	1.210	6.879E-05	7.483E-05	7.181E-05	94	4.550	-4.218E-07	3.849E-08	-1.916E-07
46	1.250	6.628E-05	7.405E-05	7.017E-05	95	4.650	-3.692E-07	9.852E-08	-1.353E-07
47	1.295	6.271E-05	6.821E-05	6.546E-05	96	4.750	-1.805E-07	1.854E-07	2.422E-09
48	1.345	5.242E-05	5.840E-05	5.541E-05	97	4.850	3.524E-08	2.770E-07	1.561E-07
49	1.395	8.355E-05	9.010E-05	8.682E-05	98	4.950	1.293E-07	3.258E-07	2.275E-07



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3150 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
		1	0.105	-2.957E-04			-1.966E-04	-2.462E-04	50
2	0.111	1.896E-04	2.419E-04	2.158E-04	51	1.495	6.135E-05	6.589E-05	6.362E-05
3	0.117	7.309E-04	9.146E-04	8.227E-04	52	1.545	2.807E-05	3.176E-05	2.991E-05
4	0.125	-1.985E-04	-1.166E-04	-1.576E-04	53	1.595	1.905E-05	2.267E-05	2.086E-05
5	0.135	-4.334E-04	-2.896E-04	-3.615E-04	54	1.645	1.487E-05	1.839E-05	1.663E-05
6	0.145	7.946E-04	9.921E-04	8.934E-04	55	1.695	1.490E-05	1.831E-05	1.660E-05
7	0.155	-2.246E-04	-1.244E-04	-1.745E-04	56	1.745	1.681E-05	2.044E-05	1.863E-05
8	0.165	1.337E-04	1.675E-04	1.506E-04	57	1.800	1.560E-05	1.912E-05	1.736E-05
9	0.175	2.863E-04	3.419E-04	3.141E-04	58	1.860	1.603E-05	1.955E-05	1.779E-05
10	0.185	1.405E-04	1.643E-04	1.524E-04	59	1.920	1.432E-05	1.779E-05	1.605E-05
11	0.200	1.877E-04	2.013E-04	1.945E-04	60	1.980	1.050E-05	1.369E-05	1.210E-05
12	0.220	9.770E-05	1.108E-04	1.042E-04	61	2.040	1.009E-05	1.318E-05	1.164E-05
13	0.240	8.371E-05	9.472E-05	8.921E-05	62	2.100	8.308E-06	1.147E-05	9.889E-06
14	0.260	1.055E-04	1.154E-04	1.104E-04	63	2.160	9.906E-06	1.316E-05	1.153E-05
15	0.280	1.772E-04	1.872E-04	1.822E-04	64	2.220	1.899E-05	2.233E-05	2.066E-05
16	0.300	2.489E-04	2.591E-04	2.540E-04	65	2.280	1.575E-05	1.883E-05	1.729E-05
17	0.320	2.106E-04	2.202E-04	2.154E-04	66	2.340	5.868E-06	8.514E-06	7.191E-06
18	0.340	1.055E-04	1.139E-04	1.097E-04	67	2.405	6.760E-06	9.560E-06	8.160E-06
19	0.360	6.513E-05	7.302E-05	6.908E-05	68	2.475	8.094E-06	1.081E-05	9.453E-06
20	0.380	6.544E-05	7.336E-05	6.940E-05	69	2.545	6.434E-06	8.954E-06	7.694E-06
21	0.400	9.177E-05	1.004E-04	9.609E-05	70	2.615	9.644E-06	1.221E-05	1.093E-05
22	0.420	1.239E-04	1.328E-04	1.284E-04	71	2.685	8.783E-06	1.128E-05	1.003E-05
23	0.445	1.762E-04	1.852E-04	1.807E-04	72	2.755	5.433E-06	7.480E-06	6.456E-06
24	0.475	1.422E-04	1.504E-04	1.463E-04	73	2.825	2.262E-06	4.057E-06	3.159E-06
25	0.505	6.764E-05	7.494E-05	7.129E-05	74	2.895	2.423E-07	1.974E-06	1.108E-06
26	0.535	9.196E-05	9.927E-05	9.562E-05	75	2.965	1.103E-06	2.803E-06	1.953E-06
27	0.565	8.570E-05	9.298E-05	8.934E-05	76	3.035	5.507E-07	2.135E-06	1.343E-06
28	0.595	7.747E-05	8.450E-05	8.099E-05	77	3.110	2.577E-07	1.711E-06	9.842E-07
29	0.625	9.631E-05	1.036E-04	9.997E-05	78	3.190	-4.145E-07	1.126E-06	3.559E-07
30	0.655	9.253E-05	9.952E-05	9.603E-05	79	3.270	-1.119E-06	2.120E-07	-4.537E-07
31	0.685	5.365E-05	6.003E-05	5.684E-05	80	3.350	-2.210E-07	1.129E-06	4.539E-07
32	0.715	5.625E-05	6.260E-05	5.942E-05	81	3.430	-8.309E-08	1.196E-06	5.563E-07
33	0.745	8.510E-05	9.181E-05	8.846E-05	82	3.510	2.572E-07	1.341E-06	7.989E-07
34	0.775	8.548E-05	9.213E-05	8.880E-05	83	3.590	6.067E-07	1.728E-06	1.168E-06
35	0.810	7.445E-05	8.143E-05	7.794E-05	84	3.670	4.757E-07	1.491E-06	9.834E-07
36	0.850	1.592E-04	1.672E-04	1.632E-04	85	3.750	3.276E-07	1.357E-06	8.424E-07
37	0.890	2.057E-04	2.140E-04	2.099E-04	86	3.830	2.023E-07	1.213E-06	7.077E-07
38	0.930	1.784E-04	1.861E-04	1.822E-04	87	3.915	2.117E-07	1.195E-06	7.033E-07
39	0.970	1.104E-04	1.171E-04	1.137E-04	88	4.005	6.553E-08	1.107E-06	5.860E-07
40	1.010	9.622E-05	1.027E-04	9.947E-05	89	4.095	-4.610E-08	1.029E-06	4.917E-07
41	1.050	9.704E-05	1.033E-04	1.002E-04	90	4.185	-1.042E-07	1.058E-06	4.770E-07
42	1.090	5.834E-05	6.363E-05	6.099E-05	91	4.275	-3.339E-07	9.364E-07	3.013E-07
43	1.130	4.415E-05	4.899E-05	4.657E-05	92	4.365	-6.926E-07	5.821E-07	-5.522E-08
44	1.170	4.015E-05	4.477E-05	4.246E-05	93	4.455	-1.022E-06	1.088E-07	-4.564E-07
45	1.210	3.439E-05	3.864E-05	3.652E-05	94	4.550	-1.274E-06	-1.109E-07	-6.923E-07
46	1.250	3.981E-05	4.539E-05	4.260E-05	95	4.650	-1.115E-06	1.180E-07	-4.986E-07
47	1.295	2.864E-05	3.248E-05	3.056E-05	96	4.750	-5.380E-07	5.136E-07	-1.217E-08
48	1.345	3.179E-05	3.630E-05	3.404E-05	97	4.850	1.160E-07	7.699E-07	4.429E-07
49	1.395	5.868E-05	6.373E-05	6.120E-05	98	4.950	3.617E-07	8.710E-07	6.164E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 4350 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.910E-04	-1.247E-04	-1.578E-04	50	1.445	6.464E-05	6.861E-05	6.663E-05
2	0.111	1.147E-04	1.488E-04	1.318E-04	51	1.495	4.889E-05	5.228E-05	5.059E-05
3	0.117	4.612E-04	5.865E-04	5.238E-04	52	1.545	2.115E-05	2.376E-05	2.246E-05
4	0.125	-1.267E-04	-7.370E-05	-1.002E-04	53	1.595	1.116E-05	1.367E-05	1.241E-05
5	0.135	-2.903E-04	-1.914E-04	-2.408E-04	54	1.645	8.035E-06	1.036E-05	9.197E-06
6	0.145	5.323E-04	6.686E-04	6.005E-04	55	1.695	9.075E-06	1.146E-05	1.027E-05
7	0.155	-1.355E-04	-6.650E-05	-1.010E-04	56	1.745	9.193E-06	1.167E-05	1.043E-05
8	0.165	9.998E-05	1.234E-04	1.117E-04	57	1.800	1.191E-05	1.443E-05	1.317E-05
9	0.175	1.927E-04	2.311E-04	2.119E-04	58	1.860	1.075E-05	1.321E-05	1.198E-05
10	0.185	8.951E-05	1.059E-04	9.772E-05	59	1.920	9.402E-06	1.181E-05	1.061E-05
11	0.200	1.154E-04	1.248E-04	1.201E-04	60	1.980	5.470E-06	7.659E-06	6.564E-06
12	0.220	6.390E-05	7.289E-05	6.839E-05	61	2.040	7.467E-06	9.678E-06	8.573E-06
13	0.240	4.831E-05	5.580E-05	5.205E-05	62	2.100	6.627E-06	8.847E-06	7.737E-06
14	0.260	5.707E-05	6.372E-05	6.040E-05	63	2.160	5.219E-06	7.420E-06	6.319E-06
15	0.280	9.334E-05	9.998E-05	9.666E-05	64	2.220	9.493E-06	1.172E-05	1.061E-05
16	0.300	1.249E-04	1.315E-04	1.282E-04	65	2.280	8.768E-06	1.090E-05	9.835E-06
17	0.320	1.085E-04	1.149E-04	1.117E-04	66	2.340	5.563E-06	7.515E-06	6.539E-06
18	0.340	5.746E-05	6.319E-05	6.032E-05	67	2.405	5.856E-06	7.876E-06	6.866E-06
19	0.360	3.528E-05	4.080E-05	3.804E-05	68	2.475	5.779E-06	7.687E-06	6.733E-06
20	0.380	3.794E-05	4.354E-05	4.074E-05	69	2.545	3.401E-06	5.130E-06	4.266E-06
21	0.400	5.825E-05	6.441E-05	6.133E-05	70	2.615	4.717E-06	6.455E-06	5.586E-06
22	0.420	8.258E-05	8.894E-05	8.576E-05	71	2.685	5.059E-06	6.706E-06	5.883E-06
23	0.445	1.166E-04	1.230E-04	1.198E-04	72	2.755	3.050E-06	4.364E-06	3.707E-06
24	0.475	9.729E-05	1.032E-04	1.003E-04	73	2.825	1.053E-06	2.224E-06	1.639E-06
25	0.505	4.899E-05	5.431E-05	5.165E-05	74	2.895	4.496E-07	1.589E-06	1.019E-06
26	0.535	6.037E-05	6.567E-05	6.302E-05	75	2.965	5.190E-07	1.644E-06	1.081E-06
27	0.565	6.678E-05	7.216E-05	6.947E-05	76	3.035	8.634E-07	1.983E-06	1.423E-06
28	0.595	5.419E-05	5.932E-05	5.675E-05	77	3.110	1.016E-06	2.066E-06	1.541E-06
29	0.625	6.511E-05	7.042E-05	6.776E-05	78	3.190	7.704E-07	1.725E-06	1.248E-06
30	0.655	6.979E-05	7.494E-05	7.237E-05	79	3.270	3.687E-07	1.277E-06	8.227E-07
31	0.685	4.245E-05	4.711E-05	4.478E-05	80	3.350	-1.198E-07	6.099E-07	2.451E-07
32	0.715	3.223E-05	3.673E-05	3.448E-05	81	3.430	-2.744E-07	4.385E-07	8.203E-08
33	0.745	5.901E-05	6.386E-05	6.143E-05	82	3.510	-4.051E-08	6.299E-07	2.947E-07
34	0.775	6.736E-05	7.230E-05	6.983E-05	83	3.590	2.869E-07	9.613E-07	6.241E-07
35	0.810	5.303E-05	5.815E-05	5.559E-05	84	3.670	7.504E-09	5.624E-07	2.849E-07
36	0.850	1.260E-04	1.320E-04	1.290E-04	85	3.750	-1.920E-07	2.755E-07	4.175E-08
37	0.890	1.676E-04	1.739E-04	1.707E-04	86	3.830	-1.623E-07	4.266E-07	1.322E-07
38	0.930	1.254E-04	1.310E-04	1.282E-04	87	3.915	1.739E-08	5.187E-07	2.681E-07
39	0.970	7.165E-05	7.632E-05	7.399E-05	88	4.005	2.178E-07	7.773E-07	4.976E-07
40	1.010	5.942E-05	6.395E-05	6.168E-05	89	4.095	2.731E-07	6.850E-07	4.791E-07
41	1.050	6.011E-05	6.452E-05	6.232E-05	90	4.185	1.467E-07	5.545E-07	3.506E-07
42	1.090	4.323E-05	4.713E-05	4.518E-05	91	4.275	5.369E-08	4.818E-07	2.678E-07
43	1.130	3.283E-05	3.636E-05	3.460E-05	92	4.365	-7.627E-08	2.749E-07	9.934E-08
44	1.170	2.981E-05	3.312E-05	3.147E-05	93	4.455	-2.545E-07	7.050E-08	-9.201E-08
45	1.210	2.127E-05	2.421E-05	2.274E-05	94	4.550	-3.696E-07	-3.269E-08	-2.012E-07
46	1.250	1.760E-05	2.135E-05	1.948E-05	95	4.650	-3.549E-07	1.656E-08	-1.692E-07
47	1.295	1.571E-05	1.836E-05	1.703E-05	96	4.750	-1.927E-07	9.425E-08	-4.923E-08
48	1.345	2.187E-05	2.509E-05	2.348E-05	97	4.850	-7.832E-09	1.828E-07	8.749E-08
49	1.395	3.960E-05	4.326E-05	4.143E-05	98	4.950	8.405E-08	2.503E-07	1.672E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.227E-04	-7.781E-05	-1.003E-04	50	1.445	4.330E-05	4.616E-05	4.473E-05
2	0.111	7.405E-05	9.674E-05	8.539E-05	51	1.495	2.622E-05	2.848E-05	2.735E-05
3	0.117	2.904E-04	3.762E-04	3.333E-04	52	1.545	1.029E-05	1.209E-05	1.119E-05
4	0.125	-7.989E-05	-4.450E-05	-6.219E-05	53	1.595	5.698E-06	7.461E-06	6.580E-06
5	0.135	-1.817E-04	-1.157E-04	-1.487E-04	54	1.645	4.842E-06	6.525E-06	5.683E-06
6	0.145	3.299E-04	4.225E-04	3.762E-04	55	1.695	6.323E-06	8.050E-06	7.187E-06
7	0.155	-8.174E-05	-3.547E-05	-5.861E-05	56	1.745	6.803E-06	8.607E-06	7.705E-06
8	0.165	6.555E-05	8.237E-05	7.396E-05	57	1.800	7.223E-06	9.015E-06	8.119E-06
9	0.175	1.146E-04	1.417E-04	1.281E-04	58	1.860	7.464E-06	9.270E-06	8.367E-06
10	0.185	5.453E-05	6.617E-05	6.035E-05	59	1.920	4.713E-06	6.431E-06	5.572E-06
11	0.200	6.487E-05	7.163E-05	6.825E-05	60	1.980	3.162E-06	4.735E-06	3.949E-06
12	0.220	4.036E-05	4.691E-05	4.364E-05	61	2.040	3.460E-06	5.066E-06	4.263E-06
13	0.240	3.088E-05	3.633E-05	3.360E-05	62	2.100	3.668E-06	5.269E-06	4.468E-06
14	0.260	3.814E-05	4.295E-05	4.054E-05	63	2.160	3.193E-06	4.804E-06	3.999E-06
15	0.280	5.074E-05	5.537E-05	5.306E-05	64	2.220	5.038E-06	6.620E-06	5.829E-06
16	0.300	5.690E-05	6.139E-05	5.915E-05	65	2.280	5.456E-06	6.991E-06	6.223E-06
17	0.320	4.738E-05	5.170E-05	4.954E-05	66	2.340	3.072E-06	4.506E-06	3.789E-06
18	0.340	2.704E-05	3.105E-05	2.904E-05	67	2.405	5.399E-06	6.991E-06	6.195E-06
19	0.360	1.628E-05	2.025E-05	1.826E-05	68	2.475	5.609E-06	7.100E-06	6.354E-06
20	0.380	2.203E-05	2.615E-05	2.409E-05	69	2.545	4.487E-06	5.835E-06	5.161E-06
21	0.400	4.227E-05	4.688E-05	4.458E-05	70	2.615	3.643E-06	4.890E-06	4.266E-06
22	0.420	5.548E-05	6.015E-05	5.782E-05	71	2.685	2.743E-06	3.801E-06	3.272E-06
23	0.445	6.786E-05	7.248E-05	7.017E-05	72	2.755	1.019E-06	1.883E-06	1.451E-06
24	0.475	5.439E-05	5.867E-05	5.653E-05	73	2.825	2.117E-07	1.017E-06	6.142E-07
25	0.505	3.211E-05	3.609E-05	3.410E-05	74	2.895	-1.331E-09	7.801E-07	3.894E-07
26	0.535	4.869E-05	5.275E-05	5.072E-05	75	2.965	4.065E-08	8.080E-07	4.243E-07
27	0.565	4.635E-05	5.039E-05	4.837E-05	76	3.035	3.923E-07	1.100E-06	7.462E-07
28	0.595	3.542E-05	3.927E-05	3.734E-05	77	3.110	7.399E-07	1.473E-06	1.106E-06
29	0.625	5.157E-05	5.565E-05	5.361E-05	78	3.190	2.894E-07	9.114E-07	6.004E-07
30	0.655	5.335E-05	5.726E-05	5.530E-05	79	3.270	1.198E-07	6.789E-07	3.993E-07
31	0.685	2.822E-05	3.167E-05	2.995E-05	80	3.350	1.052E-07	6.438E-07	3.745E-07
32	0.715	2.592E-05	2.928E-05	2.760E-05	81	3.430	1.678E-07	6.265E-07	3.972E-07
33	0.745	4.007E-05	4.366E-05	4.187E-05	82	3.510	3.151E-07	7.699E-07	5.425E-07
34	0.775	4.137E-05	4.502E-05	4.320E-05	83	3.590	1.652E-07	5.312E-07	3.482E-07
35	0.810	4.474E-05	4.877E-05	4.676E-05	84	3.670	-3.546E-08	2.809E-07	1.227E-07
36	0.850	1.069E-04	1.116E-04	1.093E-04	85	3.750	-8.843E-08	3.099E-07	1.107E-07
37	0.890	1.280E-04	1.328E-04	1.304E-04	86	3.830	-1.975E-09	4.123E-07	2.052E-07
38	0.930	8.069E-05	8.464E-05	8.266E-05	87	3.915	2.764E-08	4.104E-07	2.190E-07
39	0.970	4.265E-05	4.597E-05	4.431E-05	88	4.005	-2.802E-08	2.980E-07	1.350E-07
40	1.010	3.661E-05	3.988E-05	3.825E-05	89	4.095	-5.187E-08	2.090E-07	7.855E-08
41	1.050	3.833E-05	4.152E-05	3.992E-05	90	4.185	-1.382E-07	1.184E-07	-9.905E-09
42	1.090	2.772E-05	3.057E-05	2.914E-05	91	4.275	-2.639E-07	1.044E-07	-7.977E-08
43	1.130	2.384E-05	2.646E-05	2.515E-05	92	4.365	-2.820E-07	9.101E-08	-9.552E-08
44	1.170	1.942E-05	2.182E-05	2.062E-05	93	4.455	-2.460E-07	4.976E-08	-9.814E-08
45	1.210	1.280E-05	1.490E-05	1.385E-05	94	4.550	-1.213E-07	6.293E-08	-2.917E-08
46	1.250	1.272E-05	1.547E-05	1.410E-05	95	4.650	-2.338E-08	2.125E-07	9.456E-08
47	1.295	1.013E-05	1.207E-05	1.110E-05	96	4.750	7.783E-09	2.717E-07	1.397E-07
48	1.345	1.659E-05	1.904E-05	1.781E-05	97	4.850	4.207E-08	1.873E-07	1.147E-07
49	1.395	3.511E-05	3.796E-05	3.654E-05	98	4.950	3.670E-08	1.053E-07	7.102E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 7950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.030E-04	-7.653E-05	-8.976E-05	50	1.445	2.565E-05	2.719E-05	2.642E-05
2	0.111	5.549E-05	6.941E-05	6.245E-05	51	1.495	1.237E-05	1.354E-05	1.296E-05
3	0.117	2.330E-04	2.826E-04	2.578E-04	52	1.545	5.722E-06	6.743E-06	6.233E-06
4	0.125	-6.676E-05	-4.511E-05	-5.594E-05	53	1.595	3.571E-06	4.576E-06	4.074E-06
5	0.135	-1.441E-04	-1.047E-04	-1.244E-04	54	1.645	4.607E-06	5.604E-06	5.105E-06
6	0.145	2.559E-04	3.100E-04	2.829E-04	55	1.695	4.648E-06	5.644E-06	5.146E-06
7	0.155	-7.470E-05	-4.724E-05	-6.097E-05	56	1.745	3.999E-06	5.005E-06	4.502E-06
8	0.165	3.576E-05	4.521E-05	4.048E-05	57	1.800	5.720E-06	6.785E-06	6.253E-06
9	0.175	7.585E-05	9.130E-05	8.358E-05	58	1.860	6.273E-06	7.339E-06	6.806E-06
10	0.185	2.656E-05	3.316E-05	2.986E-05	59	1.920	4.694E-06	5.686E-06	5.190E-06
11	0.200	3.725E-05	4.103E-05	3.914E-05	60	1.980	1.824E-06	2.696E-06	2.260E-06
12	0.220	2.679E-05	3.050E-05	2.864E-05	61	2.040	1.952E-06	2.826E-06	2.389E-06
13	0.240	2.484E-05	2.791E-05	2.638E-05	62	2.100	2.068E-06	2.961E-06	2.515E-06
14	0.260	2.403E-05	2.666E-05	2.535E-05	63	2.160	1.856E-06	2.733E-06	2.295E-06
15	0.280	2.434E-05	2.678E-05	2.556E-05	64	2.220	3.568E-06	4.443E-06	4.005E-06
16	0.300	2.403E-05	2.636E-05	2.520E-05	65	2.280	3.021E-06	3.889E-06	3.455E-06
17	0.320	2.072E-05	2.300E-05	2.186E-05	66	2.340	1.946E-06	2.737E-06	2.341E-06
18	0.340	1.381E-05	1.601E-05	1.491E-05	67	2.405	3.422E-06	4.304E-06	3.863E-06
19	0.360	9.970E-06	1.219E-05	1.108E-05	68	2.475	3.698E-06	4.510E-06	4.104E-06
20	0.380	1.404E-05	1.634E-05	1.519E-05	69	2.545	2.774E-06	3.549E-06	3.161E-06
21	0.400	2.536E-05	2.791E-05	2.664E-05	70	2.615	2.438E-06	3.128E-06	2.783E-06
22	0.420	3.083E-05	3.337E-05	3.210E-05	71	2.685	1.631E-06	2.205E-06	1.918E-06
23	0.445	3.335E-05	3.581E-05	3.458E-05	72	2.755	1.040E-06	1.554E-06	1.297E-06
24	0.475	2.554E-05	2.787E-05	2.670E-05	73	2.825	3.930E-07	8.471E-07	6.201E-07
25	0.505	2.185E-05	2.412E-05	2.298E-05	74	2.895	-9.032E-08	3.082E-07	1.090E-07
26	0.535	3.206E-05	3.439E-05	3.323E-05	75	2.965	1.540E-07	5.660E-07	3.600E-07
27	0.565	2.989E-05	3.219E-05	3.104E-05	76	3.035	3.657E-07	7.727E-07	5.692E-07
28	0.595	2.316E-05	2.537E-05	2.426E-05	77	3.110	1.773E-07	5.423E-07	3.598E-07
29	0.625	3.564E-05	3.801E-05	3.683E-05	78	3.190	1.445E-07	4.855E-07	3.150E-07
30	0.655	3.874E-05	4.103E-05	3.988E-05	79	3.270	1.914E-07	5.230E-07	3.572E-07
31	0.685	2.297E-05	2.501E-05	2.399E-05	80	3.350	4.878E-08	3.243E-07	1.866E-07
32	0.715	1.940E-05	2.135E-05	2.037E-05	81	3.430	1.355E-07	3.851E-07	2.603E-07
33	0.745	2.944E-05	3.150E-05	3.047E-05	82	3.510	2.061E-07	4.918E-07	3.489E-07
34	0.775	2.691E-05	2.898E-05	2.795E-05	83	3.590	5.079E-08	2.917E-07	1.712E-07
35	0.810	2.763E-05	2.991E-05	2.877E-05	84	3.670	-2.701E-08	1.925E-07	8.275E-08
36	0.850	7.381E-05	7.654E-05	7.518E-05	85	3.750	-3.132E-08	1.593E-07	6.400E-08
37	0.890	9.140E-05	9.418E-05	9.279E-05	86	3.830	-7.250E-08	9.945E-08	1.347E-08
38	0.930	5.541E-05	5.766E-05	5.653E-05	87	3.915	-8.519E-08	1.156E-07	1.520E-08
39	0.970	2.648E-05	2.830E-05	2.739E-05	88	4.005	-5.014E-09	1.605E-07	7.776E-08
40	1.010	2.072E-05	2.251E-05	2.162E-05	89	4.095	3.174E-08	1.978E-07	1.148E-07
41	1.050	2.137E-05	2.313E-05	2.225E-05	90	4.185	1.026E-08	1.453E-07	7.777E-08
42	1.090	1.874E-05	2.037E-05	1.955E-05	91	4.275	-3.306E-08	1.131E-07	4.001E-08
43	1.130	1.727E-05	1.878E-05	1.802E-05	92	4.365	-7.083E-08	8.021E-08	4.692E-09
44	1.170	1.268E-05	1.403E-05	1.336E-05	93	4.455	-9.541E-08	2.262E-08	-3.640E-08
45	1.210	7.293E-06	8.441E-06	7.867E-06	94	4.550	-9.119E-08	3.640E-09	-4.377E-08
46	1.250	8.056E-06	9.602E-06	8.829E-06	95	4.650	-4.479E-08	3.772E-08	-3.534E-09
47	1.295	7.109E-06	8.238E-06	7.673E-06	96	4.750	-5.276E-09	8.523E-08	3.998E-08
48	1.345	1.221E-05	1.363E-05	1.292E-05	97	4.850	2.238E-08	8.639E-08	5.438E-08
49	1.395	2.519E-05	2.681E-05	2.600E-05	98	4.950	2.266E-08	6.440E-08	4.353E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 11950 SEC

COUNTING TIME : 3000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.282E-06	2.376E-05	1.552E-05	50	1.445	1.374E-05	1.465E-05	1.419E-05
2	0.111	8.493E-06	1.613E-05	1.231E-05	51	1.495	4.939E-06	5.593E-06	5.266E-06
3	0.117	-4.924E-06	2.684E-05	1.096E-05	52	1.545	1.955E-06	2.541E-06	2.248E-06
4	0.125	7.976E-06	2.042E-05	1.420E-05	53	1.595	1.643E-06	2.238E-06	1.941E-06
5	0.135	5.927E-06	3.014E-05	1.803E-05	54	1.645	1.661E-06	2.246E-06	1.954E-06
6	0.145	7.120E-06	4.165E-05	2.438E-05	55	1.695	2.568E-06	3.187E-06	2.877E-06
7	0.155	1.868E-05	3.553E-05	2.711E-05	56	1.745	3.458E-06	4.124E-06	3.791E-06
8	0.165	2.350E-05	2.970E-05	2.660E-05	57	1.800	3.916E-06	4.558E-06	4.237E-06
9	0.175	2.013E-05	3.066E-05	2.540E-05	58	1.860	2.868E-06	3.496E-06	3.182E-06
10	0.185	1.773E-05	2.221E-05	1.997E-05	59	1.920	2.136E-06	2.742E-06	2.439E-06
11	0.200	1.538E-05	1.781E-05	1.659E-05	60	1.980	1.030E-06	1.565E-06	1.298E-06
12	0.220	1.533E-05	1.771E-05	1.652E-05	61	2.040	1.248E-06	1.784E-06	1.516E-06
13	0.240	1.776E-05	1.974E-05	1.875E-05	62	2.100	1.334E-06	1.879E-06	1.606E-06
14	0.260	1.679E-05	1.844E-05	1.761E-05	63	2.160	1.236E-06	1.774E-06	1.505E-06
15	0.280	1.236E-05	1.383E-05	1.309E-05	64	2.220	1.979E-06	2.492E-06	2.236E-06
16	0.300	9.907E-06	1.127E-05	1.059E-05	65	2.280	9.405E-07	1.412E-06	1.176E-06
17	0.320	8.056E-06	9.378E-06	8.717E-06	66	2.340	9.780E-07	1.474E-06	1.226E-06
18	0.340	5.405E-06	6.700E-06	6.053E-06	67	2.405	2.365E-06	2.916E-06	2.640E-06
19	0.360	4.244E-06	5.568E-06	4.906E-06	68	2.475	2.185E-06	2.673E-06	2.429E-06
20	0.380	7.198E-06	8.575E-06	7.886E-06	69	2.545	1.669E-06	2.123E-06	1.896E-06
21	0.400	1.191E-05	1.341E-05	1.266E-05	70	2.615	1.403E-06	1.805E-06	1.604E-06
22	0.420	1.361E-05	1.507E-05	1.434E-05	71	2.685	5.871E-07	9.139E-07	7.505E-07
23	0.445	1.245E-05	1.385E-05	1.315E-05	72	2.755	1.232E-07	4.003E-07	2.618E-07
24	0.475	9.144E-06	1.050E-05	9.821E-06	73	2.825	6.857E-08	3.654E-07	2.170E-07
25	0.505	1.398E-05	1.540E-05	1.469E-05	74	2.895	-7.149E-08	1.980E-07	6.325E-08
26	0.535	2.376E-05	2.525E-05	2.450E-05	75	2.965	-8.679E-08	1.802E-07	4.669E-08
27	0.565	1.936E-05	2.079E-05	2.007E-05	76	3.035	-2.747E-09	2.709E-07	1.368E-07
28	0.595	1.312E-05	1.446E-05	1.379E-05	77	3.110	-2.383E-08	2.256E-07	1.009E-07
29	0.625	2.048E-05	2.193E-05	2.120E-05	78	3.190	-1.901E-07	4.528E-08	-7.239E-08
30	0.655	2.613E-05	2.758E-05	2.685E-05	79	3.270	-7.444E-08	1.825E-07	5.405E-08
31	0.685	1.548E-05	1.675E-05	1.612E-05	80	3.350	5.450E-08	3.329E-07	1.937E-07
32	0.715	1.074E-05	1.192E-05	1.133E-05	81	3.430	9.365E-08	3.074E-07	2.005E-07
33	0.745	1.816E-05	1.944E-05	1.880E-05	82	3.510	9.692E-08	3.186E-07	2.078E-07
34	0.775	1.573E-05	1.699E-05	1.636E-05	83	3.590	8.251E-08	2.787E-07	1.806E-07
35	0.810	1.495E-05	1.630E-05	1.563E-05	84	3.670	2.943E-08	2.204E-07	1.249E-07
36	0.850	3.595E-05	3.754E-05	3.674E-05	85	3.750	7.254E-09	1.860E-07	9.663E-08
37	0.890	4.411E-05	4.573E-05	4.492E-05	86	3.830	-3.774E-08	1.472E-07	5.474E-08
38	0.930	2.887E-05	3.022E-05	2.954E-05	87	3.915	-7.477E-08	1.222E-07	2.372E-08
39	0.970	1.433E-05	1.545E-05	1.489E-05	88	4.005	-7.451E-08	9.820E-08	1.184E-08
40	1.010	1.123E-05	1.232E-05	1.178E-05	89	4.095	-5.338E-08	1.232E-07	3.492E-08
41	1.050	1.282E-05	1.391E-05	1.337E-05	90	4.185	-3.478E-08	1.555E-07	6.035E-08
42	1.090	9.744E-06	1.073E-05	1.024E-05	91	4.275	-6.284E-08	1.440E-07	4.057E-08
43	1.130	9.081E-06	9.995E-06	9.538E-06	92	4.365	-9.742E-08	9.374E-08	-1.842E-09
44	1.170	7.363E-06	8.198E-06	7.781E-06	93	4.455	-1.303E-07	4.586E-08	-4.220E-08
45	1.210	4.720E-06	5.438E-06	5.079E-06	94	4.550	-1.625E-07	2.640E-08	-6.804E-08
46	1.250	5.207E-06	6.186E-06	5.696E-06	95	4.650	-1.467E-07	4.098E-08	-5.286E-08
47	1.295	4.726E-06	5.437E-06	5.081E-06	96	4.750	-7.521E-08	7.702E-08	9.015E-10
48	1.345	7.848E-06	8.750E-06	8.299E-06	97	4.850	1.705E-08	1.123E-07	6.467E-08
49	1.395	1.617E-05	1.720E-05	1.669E-05	98	4.950	5.416E-08	1.378E-07	9.598E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 17950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.614E-06	1.306E-05	8.336E-06	50	1.445	7.966E-06	8.532E-06	8.249E-06
2	0.111	4.852E-06	9.343E-06	7.098E-06	51	1.495	1.760E-06	2.118E-06	1.939E-06
3	0.117	-2.508E-06	1.575E-05	6.623E-06	52	1.545	2.861E-07	6.184E-07	4.522E-07
4	0.125	4.674E-06	1.185E-05	8.263E-06	53	1.595	5.858E-07	9.490E-07	7.674E-07
5	0.135	3.634E-06	1.784E-05	1.074E-05	54	1.645	9.498E-07	1.317E-06	1.133E-06
6	0.145	4.357E-06	2.465E-05	1.450E-05	55	1.695	1.266E-06	1.646E-06	1.456E-06
7	0.155	9.927E-06	1.971E-05	1.482E-05	56	1.745	1.770E-06	2.179E-06	1.974E-06
8	0.165	1.183E-05	1.602E-05	1.392E-05	57	1.800	1.725E-06	2.127E-06	1.926E-06
9	0.175	9.548E-06	1.638E-05	1.297E-05	58	1.860	1.672E-06	2.071E-06	1.872E-06
10	0.185	7.589E-06	1.052E-05	9.057E-06	59	1.920	1.277E-06	1.653E-06	1.465E-06
11	0.200	6.759E-06	8.430E-06	7.594E-06	60	1.980	5.092E-07	8.447E-07	6.769E-07
12	0.220	9.978E-06	1.170E-05	1.084E-05	61	2.040	5.692E-07	8.914E-07	7.303E-07
13	0.240	1.537E-05	1.682E-05	1.610E-05	62	2.100	5.228E-07	8.388E-07	6.808E-07
14	0.260	1.360E-05	1.477E-05	1.418E-05	63	2.160	2.054E-07	5.137E-07	3.596E-07
15	0.280	8.213E-06	9.201E-06	8.707E-06	64	2.220	6.814E-07	9.987E-07	8.400E-07
16	0.300	6.094E-06	6.986E-06	6.540E-06	65	2.280	4.063E-07	7.006E-07	5.534E-07
17	0.320	3.910E-06	4.755E-06	4.333E-06	66	2.340	4.932E-07	8.071E-07	6.501E-07
18	0.340	2.604E-06	3.432E-06	3.018E-06	67	2.405	1.313E-06	1.675E-06	1.494E-06
19	0.360	2.798E-06	3.649E-06	3.223E-06	68	2.475	1.341E-06	1.649E-06	1.495E-06
20	0.380	2.883E-06	3.736E-06	3.310E-06	69	2.545	6.479E-07	9.115E-07	7.797E-07
21	0.400	4.568E-06	5.485E-06	5.027E-06	70	2.615	5.253E-07	7.616E-07	6.434E-07
22	0.420	5.959E-06	6.859E-06	6.409E-06	71	2.685	1.657E-07	3.563E-07	2.610E-07
23	0.445	4.939E-06	5.804E-06	5.372E-06	72	2.755	-5.364E-08	1.647E-07	5.552E-08
24	0.475	2.920E-06	3.763E-06	3.341E-06	73	2.825	-5.565E-08	1.248E-07	3.456E-08
25	0.505	9.593E-06	1.054E-05	1.007E-05	74	2.895	-1.176E-07	8.143E-08	-1.810E-08
26	0.535	1.893E-05	1.996E-05	1.944E-05	75	2.965	-1.178E-08	1.708E-07	7.950E-08
27	0.565	1.471E-05	1.566E-05	1.518E-05	76	3.035	3.617E-08	2.111E-07	1.236E-07
28	0.595	6.827E-06	7.655E-06	7.241E-06	77	3.110	5.145E-09	1.470E-07	7.608E-08
29	0.625	9.666E-06	1.056E-05	1.011E-05	78	3.190	-5.016E-08	1.040E-07	2.692E-08
30	0.655	1.615E-05	1.711E-05	1.663E-05	79	3.270	-4.767E-08	1.376E-07	4.494E-08
31	0.685	1.249E-05	1.337E-05	1.293E-05	80	3.350	6.479E-08	2.561E-07	1.605E-07
32	0.715	8.926E-06	9.738E-06	9.332E-06	81	3.430	1.288E-07	2.978E-07	2.133E-07
33	0.745	1.148E-05	1.232E-05	1.190E-05	82	3.510	4.456E-08	2.005E-07	1.225E-07
34	0.775	1.046E-05	1.127E-05	1.086E-05	83	3.590	-4.664E-08	1.103E-07	3.182E-08
35	0.810	6.832E-06	7.623E-06	7.228E-06	84	3.670	-9.168E-08	7.344E-08	-9.122E-09
36	0.850	1.204E-05	1.291E-05	1.248E-05	85	3.750	-9.906E-08	5.686E-08	-2.110E-08
37	0.890	1.513E-05	1.603E-05	1.558E-05	86	3.830	-1.078E-07	4.646E-08	-3.066E-08
38	0.930	1.086E-05	1.165E-05	1.125E-05	87	3.915	-1.124E-07	3.570E-08	-3.837E-08
39	0.970	6.048E-06	6.741E-06	6.395E-06	88	4.005	-9.342E-08	6.298E-08	-1.522E-08
40	1.010	6.005E-06	6.721E-06	6.363E-06	89	4.095	-7.440E-08	1.192E-07	2.238E-08
41	1.050	7.020E-06	7.731E-06	7.375E-06	90	4.185	-5.182E-08	1.214E-07	3.479E-08
42	1.090	5.716E-06	6.364E-06	6.040E-06	91	4.275	-4.750E-08	1.011E-07	2.679E-08
43	1.130	5.324E-06	5.930E-06	5.627E-06	92	4.365	-4.587E-08	8.828E-08	2.120E-08
44	1.170	4.619E-06	5.173E-06	4.896E-06	93	4.455	-5.270E-08	7.686E-08	1.208E-08
45	1.210	3.021E-06	3.506E-06	3.264E-06	94	4.550	-6.276E-08	5.662E-08	-3.071E-09
46	1.250	3.847E-06	4.519E-06	4.183E-06	95	4.650	-5.222E-08	5.551E-08	1.643E-09
47	1.295	3.972E-06	4.470E-06	4.221E-06	96	4.750	-2.156E-08	6.425E-08	2.134E-08
48	1.345	4.619E-06	5.209E-06	4.914E-06	97	4.850	1.063E-08	6.525E-08	3.794E-08
49	1.395	9.995E-06	1.069E-05	1.034E-05	98	4.950	2.384E-08	6.454E-08	4.419E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 110 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.923E-03	1.282E-04	-8.975E-04	50	1.445	1.542E-03	1.643E-03	1.593E-03
2	0.111	4.026E-03	5.126E-03	4.576E-03	51	1.495	1.062E-03	1.151E-03	1.107E-03
3	0.117	1.013E-02	1.369E-02	1.191E-02	52	1.545	6.877E-04	7.682E-04	7.279E-04
4	0.125	-1.929E-03	-1.765E-04	-1.053E-03	53	1.595	5.740E-04	6.563E-04	6.151E-04
5	0.135	-4.151E-03	-1.754E-03	-2.952E-03	54	1.645	5.214E-04	6.011E-04	5.613E-04
6	0.145	7.948E-03	1.130E-02	9.626E-03	55	1.695	5.192E-04	5.968E-04	5.580E-04
7	0.155	-2.441E-03	-7.777E-04	-1.609E-03	56	1.745	4.936E-04	5.741E-04	5.338E-04
8	0.165	1.650E-03	2.263E-03	1.957E-03	57	1.800	4.851E-04	5.643E-04	5.247E-04
9	0.175	3.372E-03	4.372E-03	3.872E-03	58	1.860	4.131E-04	4.953E-04	4.542E-04
10	0.185	2.519E-03	2.950E-03	2.735E-03	59	1.920	3.395E-04	4.203E-04	3.799E-04
11	0.200	3.409E-03	3.660E-03	3.534E-03	60	1.980	4.071E-04	4.818E-04	4.444E-04
12	0.220	2.759E-03	3.004E-03	2.881E-03	61	2.040	4.248E-04	5.014E-04	4.631E-04
13	0.240	2.237E-03	2.438E-03	2.338E-03	62	2.100	2.790E-04	3.539E-04	3.164E-04
14	0.260	2.187E-03	2.359E-03	2.273E-03	63	2.160	3.001E-04	3.761E-04	3.381E-04
15	0.280	2.547E-03	2.710E-03	2.629E-03	64	2.220	3.080E-04	3.809E-04	3.445E-04
16	0.300	2.492E-03	2.647E-03	2.569E-03	65	2.280	2.283E-04	3.005E-04	2.644E-04
17	0.320	2.152E-03	2.303E-03	2.228E-03	66	2.340	2.705E-04	3.482E-04	3.093E-04
18	0.340	1.995E-03	2.146E-03	2.071E-03	67	2.405	2.158E-04	2.976E-04	2.567E-04
19	0.360	2.244E-03	2.402E-03	2.323E-03	68	2.475	1.795E-04	2.566E-04	2.180E-04
20	0.380	2.671E-03	2.832E-03	2.751E-03	69	2.545	1.756E-04	2.501E-04	2.129E-04
21	0.400	2.883E-03	3.048E-03	2.966E-03	70	2.615	2.611E-04	3.383E-04	2.997E-04
22	0.420	2.576E-03	2.729E-03	2.652E-03	71	2.685	1.945E-04	2.685E-04	2.315E-04
23	0.445	2.386E-03	2.531E-03	2.458E-03	72	2.755	1.891E-04	2.589E-04	2.240E-04
24	0.475	1.723E-03	1.859E-03	1.791E-03	73	2.825	1.332E-04	2.023E-04	1.677E-04
25	0.505	1.556E-03	1.688E-03	1.622E-03	74	2.895	7.976E-05	1.495E-04	1.146E-04
26	0.535	1.705E-03	1.837E-03	1.771E-03	75	2.965	8.127E-05	1.522E-04	1.168E-04
27	0.565	2.317E-03	2.455E-03	2.386E-03	76	3.035	8.739E-05	1.598E-04	1.236E-04
28	0.595	2.853E-03	2.991E-03	2.922E-03	77	3.110	5.691E-05	1.221E-04	8.952E-05
29	0.625	1.821E-03	1.948E-03	1.884E-03	78	3.190	-2.954E-06	6.197E-05	2.951E-05
30	0.655	1.170E-03	1.288E-03	1.229E-03	79	3.270	9.184E-06	7.268E-05	4.093E-05
31	0.685	1.716E-03	1.841E-03	1.778E-03	80	3.350	6.285E-05	1.232E-04	9.305E-05
32	0.715	2.173E-03	2.300E-03	2.237E-03	81	3.430	9.148E-05	1.464E-04	1.190E-04
33	0.745	1.764E-03	1.885E-03	1.824E-03	82	3.510	7.202E-05	1.223E-04	9.716E-05
34	0.775	1.385E-03	1.503E-03	1.444E-03	83	3.590	8.887E-05	1.390E-04	1.140E-04
35	0.810	1.775E-03	1.900E-03	1.837E-03	84	3.670	1.150E-04	1.603E-04	1.376E-04
36	0.850	2.137E-03	2.264E-03	2.201E-03	85	3.750	8.275E-05	1.253E-04	1.040E-04
37	0.890	1.980E-03	2.106E-03	2.043E-03	86	3.830	3.630E-05	7.692E-05	5.661E-05
38	0.930	1.768E-03	1.892E-03	1.830E-03	87	3.915	3.235E-05	7.150E-05	5.193E-05
39	0.970	1.965E-03	2.088E-03	2.026E-03	88	4.005	1.233E-05	4.628E-05	2.931E-05
40	1.010	1.696E-03	1.816E-03	1.756E-03	89	4.095	9.335E-06	3.927E-05	2.430E-05
41	1.050	1.364E-03	1.477E-03	1.421E-03	90	4.185	5.266E-05	8.408E-05	6.837E-05
42	1.090	1.219E-03	1.326E-03	1.273E-03	91	4.275	5.662E-05	8.712E-05	7.187E-05
43	1.130	1.279E-03	1.382E-03	1.331E-03	92	4.365	3.701E-05	6.418E-05	5.060E-05
44	1.170	1.173E-03	1.269E-03	1.221E-03	93	4.455	1.769E-05	4.362E-05	3.066E-05
45	1.210	9.857E-04	1.076E-03	1.031E-03	94	4.550	-2.654E-08	2.238E-05	1.118E-05
46	1.250	1.126E-03	1.247E-03	1.187E-03	95	4.650	6.475E-06	2.631E-05	1.639E-05
47	1.295	1.265E-03	1.356E-03	1.311E-03	96	4.750	2.994E-05	4.595E-05	3.794E-05
48	1.345	1.234E-03	1.331E-03	1.283E-03	97	4.850	4.209E-05	5.439E-05	4.824E-05
49	1.395	1.346E-03	1.446E-03	1.396E-03	98	4.950	3.991E-05	4.865E-05	4.428E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 210 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-2.006E-03	-8.416E-04	-1.424E-03	50	1.445	6.666E-04	7.221E-04	6.943E-04
2	0.111	2.323E-03	2.936E-03	2.630E-03	51	1.495	4.448E-04	4.943E-04	4.695E-04
3	0.117	6.779E-03	8.846E-03	7.812E-03	52	1.545	3.620E-04	4.086E-04	3.853E-04
4	0.125	-1.680E-03	-7.126E-04	-1.197E-03	53	1.595	3.299E-04	3.780E-04	3.539E-04
5	0.135	-3.289E-03	-1.856E-03	-2.572E-03	54	1.645	2.977E-04	3.442E-04	3.209E-04
6	0.145	5.791E-03	7.802E-03	6.796E-03	55	1.695	2.869E-04	3.315E-04	3.092E-04
7	0.155	-1.816E-03	-8.209E-04	-1.318E-03	56	1.745	2.655E-04	3.119E-04	2.887E-04
8	0.165	1.190E-03	1.566E-03	1.378E-03	57	1.800	2.303E-04	2.748E-04	2.525E-04
9	0.175	2.355E-03	2.965E-03	2.660E-03	58	1.860	1.877E-04	2.338E-04	2.108E-04
10	0.185	1.601E-03	1.864E-03	1.732E-03	59	1.920	1.621E-04	2.081E-04	1.851E-04
11	0.200	2.033E-03	2.187E-03	2.110E-03	60	1.980	2.164E-04	2.588E-04	2.376E-04
12	0.220	1.490E-03	1.642E-03	1.566E-03	61	2.040	1.915E-04	2.342E-04	2.129E-04
13	0.240	1.380E-03	1.505E-03	1.443E-03	62	2.100	1.268E-04	1.683E-04	1.475E-04
14	0.260	1.391E-03	1.499E-03	1.445E-03	63	2.160	1.141E-04	1.566E-04	1.353E-04
15	0.280	1.630E-03	1.732E-03	1.681E-03	64	2.220	1.645E-04	2.063E-04	1.854E-04
16	0.300	1.791E-03	1.890E-03	1.841E-03	65	2.280	1.722E-04	2.140E-04	1.931E-04
17	0.320	1.525E-03	1.620E-03	1.573E-03	66	2.340	1.204E-04	1.633E-04	1.419E-04
18	0.340	1.174E-03	1.266E-03	1.220E-03	67	2.405	1.015E-04	1.480E-04	1.248E-04
19	0.360	1.091E-03	1.184E-03	1.138E-03	68	2.475	7.501E-05	1.176E-04	9.632E-05
20	0.380	1.102E-03	1.194E-03	1.148E-03	69	2.545	8.999E-05	1.315E-04	1.107E-04
21	0.400	1.327E-03	1.425E-03	1.376E-03	70	2.615	1.186E-04	1.605E-04	1.395E-04
22	0.420	1.476E-03	1.571E-03	1.523E-03	71	2.685	1.239E-04	1.662E-04	1.451E-04
23	0.445	1.549E-03	1.641E-03	1.595E-03	72	2.755	9.421E-05	1.326E-04	1.134E-04
24	0.475	1.095E-03	1.179E-03	1.137E-03	73	2.825	6.667E-05	1.047E-04	8.568E-05
25	0.505	7.558E-04	8.347E-04	7.952E-04	74	2.895	5.475E-05	9.442E-05	7.458E-05
26	0.535	7.350E-04	8.123E-04	7.737E-04	75	2.965	3.216E-05	7.131E-05	5.174E-05
27	0.565	1.208E-03	1.291E-03	1.250E-03	76	3.035	6.230E-06	4.579E-05	2.601E-05
28	0.595	1.577E-03	1.661E-03	1.619E-03	77	3.110	-6.731E-06	2.943E-05	1.135E-05
29	0.625	1.061E-03	1.140E-03	1.100E-03	78	3.190	-1.260E-05	2.325E-05	5.322E-06
30	0.655	7.536E-04	8.277E-04	7.907E-04	79	3.270	-2.578E-05	7.643E-06	-9.068E-06
31	0.685	1.038E-03	1.115E-03	1.077E-03	80	3.350	1.798E-05	5.085E-05	3.441E-05
32	0.715	1.385E-03	1.464E-03	1.424E-03	81	3.430	5.911E-05	8.986E-05	7.449E-05
33	0.745	1.110E-03	1.186E-03	1.148E-03	82	3.510	5.305E-05	8.259E-05	6.782E-05
34	0.775	9.074E-04	9.811E-04	9.442E-04	83	3.590	5.909E-05	8.632E-05	7.271E-05
35	0.810	1.196E-03	1.275E-03	1.235E-03	84	3.670	5.743E-05	8.374E-05	7.059E-05
36	0.850	1.496E-03	1.577E-03	1.537E-03	85	3.750	3.053E-05	5.432E-05	4.243E-05
37	0.890	1.342E-03	1.421E-03	1.381E-03	86	3.830	8.280E-06	2.994E-05	1.911E-05
38	0.930	1.306E-03	1.384E-03	1.345E-03	87	3.915	-3.893E-06	1.626E-05	6.185E-06
39	0.970	1.231E-03	1.306E-03	1.268E-03	88	4.005	-6.121E-07	1.679E-05	8.087E-06
40	1.010	1.145E-03	1.219E-03	1.182E-03	89	4.095	1.833E-05	3.589E-05	2.711E-05
41	1.050	8.410E-04	9.084E-04	8.747E-04	90	4.185	3.051E-05	4.686E-05	3.868E-05
42	1.090	7.676E-04	8.313E-04	7.995E-04	91	4.275	3.532E-05	5.164E-05	4.348E-05
43	1.130	7.396E-04	7.999E-04	7.697E-04	92	4.365	2.536E-05	3.999E-05	3.267E-05
44	1.170	6.159E-04	6.718E-04	6.439E-04	93	4.455	7.907E-06	2.112E-05	1.451E-05
45	1.210	6.030E-04	6.569E-04	6.299E-04	94	4.550	-5.831E-07	1.082E-05	5.116E-06
46	1.250	6.565E-04	7.283E-04	6.924E-04	95	4.650	1.883E-06	1.241E-05	7.148E-06
47	1.295	6.978E-04	7.504E-04	7.241E-04	96	4.750	7.648E-06	1.602E-05	1.183E-05
48	1.345	6.121E-04	6.672E-04	6.397E-04	97	4.850	1.179E-05	1.808E-05	1.493E-05
49	1.395	6.597E-04	7.160E-04	6.879E-04	98	4.950	1.377E-05	1.826E-05	1.602E-05



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 350 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.937E-03	-1.211E-03	-1.574E-03	50	1.445	3.368E-04	3.682E-04	3.525E-04
2	0.111	1.638E-03	2.029E-03	1.833E-03	51	1.495	2.478E-04	2.765E-04	2.622E-04
3	0.117	5.397E-03	6.688E-03	6.043E-03	52	1.545	1.840E-04	2.106E-04	1.973E-04
4	0.125	-1.489E-03	-8.681E-04	-1.178E-03	53	1.595	1.438E-04	1.710E-04	1.574E-04
5	0.135	-2.795E-03	-1.854E-03	-2.325E-03	54	1.645	1.609E-04	1.880E-04	1.745E-04
6	0.145	4.850E-03	6.143E-03	5.497E-03	55	1.695	1.821E-04	2.092E-04	1.956E-04
7	0.155	-1.611E-03	-9.587E-04	-1.285E-03	56	1.745	1.879E-04	2.158E-04	2.019E-04
8	0.165	7.743E-04	1.011E-03	8.928E-04	57	1.800	1.641E-04	1.910E-04	1.776E-04
9	0.175	1.823E-03	2.208E-03	2.016E-03	58	1.860	1.119E-04	1.384E-04	1.251E-04
10	0.185	1.074E-03	1.240E-03	1.157E-03	59	1.920	9.688E-05	1.229E-04	1.099E-04
11	0.200	1.360E-03	1.457E-03	1.408E-03	60	1.980	1.104E-04	1.346E-04	1.225E-04
12	0.220	9.164E-04	1.012E-03	9.641E-04	61	2.040	1.250E-04	1.505E-04	1.378E-04
13	0.240	1.012E-03	1.092E-03	1.052E-03	62	2.100	1.102E-04	1.352E-04	1.227E-04
14	0.260	1.060E-03	1.129E-03	1.094E-03	63	2.160	1.036E-04	1.284E-04	1.160E-04
15	0.280	1.165E-03	1.230E-03	1.198E-03	64	2.220	1.200E-04	1.443E-04	1.321E-04
16	0.300	1.334E-03	1.397E-03	1.366E-03	65	2.280	9.033E-05	1.139E-04	1.021E-04
17	0.320	1.166E-03	1.227E-03	1.196E-03	66	2.340	5.986E-05	8.314E-05	7.150E-05
18	0.340	7.757E-04	8.320E-04	8.039E-04	67	2.405	4.721E-05	7.187E-05	5.954E-05
19	0.360	6.263E-04	6.819E-04	6.541E-04	68	2.475	3.290E-05	5.580E-05	4.435E-05
20	0.380	5.877E-04	6.430E-04	6.154E-04	69	2.545	7.095E-05	9.452E-05	8.273E-05
21	0.400	7.666E-04	8.257E-04	7.962E-04	70	2.615	7.002E-05	9.279E-05	8.141E-05
22	0.420	9.892E-04	1.049E-03	1.019E-03	71	2.685	5.884E-05	8.139E-05	7.012E-05
23	0.445	1.109E-03	1.167E-03	1.138E-03	72	2.755	5.004E-05	7.068E-05	6.036E-05
24	0.475	7.512E-04	8.034E-04	7.773E-04	73	2.825	4.110E-05	6.199E-05	5.154E-05
25	0.505	4.970E-04	5.456E-04	5.213E-04	74	2.895	2.614E-05	4.652E-05	3.633E-05
26	0.535	4.711E-04	5.188E-04	4.950E-04	75	2.965	9.035E-06	2.899E-05	1.901E-05
27	0.565	7.633E-04	8.143E-04	7.888E-04	76	3.035	-1.760E-06	1.818E-05	8.208E-06
28	0.595	9.408E-04	9.922E-04	9.665E-04	77	3.110	-1.684E-06	1.704E-05	7.679E-06
29	0.625	6.512E-04	6.995E-04	6.753E-04	78	3.190	4.514E-06	2.358E-05	1.404E-05
30	0.655	5.164E-04	5.624E-04	5.394E-04	79	3.270	-3.377E-06	1.410E-05	5.360E-06
31	0.685	6.469E-04	6.942E-04	6.705E-04	80	3.350	1.211E-05	2.985E-05	2.098E-05
32	0.715	8.136E-04	8.617E-04	8.377E-04	81	3.430	1.570E-05	3.177E-05	2.374E-05
33	0.745	6.928E-04	7.393E-04	7.161E-04	82	3.510	1.291E-05	2.751E-05	2.021E-05
34	0.775	5.603E-04	6.054E-04	5.829E-04	83	3.590	2.223E-05	3.644E-05	2.934E-05
35	0.810	7.749E-04	8.239E-04	7.994E-04	84	3.670	2.507E-05	3.802E-05	3.154E-05
36	0.850	1.012E-03	1.063E-03	1.038E-03	85	3.750	1.380E-05	2.539E-05	1.959E-05
37	0.890	9.952E-04	1.045E-03	1.020E-03	86	3.830	4.470E-06	1.536E-05	9.913E-06
38	0.930	9.882E-04	1.038E-03	1.013E-03	87	3.915	3.476E-06	1.369E-05	8.584E-06
39	0.970	8.692E-04	9.162E-04	8.927E-04	88	4.005	5.367E-06	1.510E-05	1.023E-05
40	1.010	8.325E-04	8.785E-04	8.555E-04	89	4.095	5.391E-06	1.382E-05	9.607E-06
41	1.050	6.797E-04	7.221E-04	7.009E-04	90	4.185	7.358E-06	1.534E-05	1.135E-05
42	1.090	5.012E-04	5.391E-04	5.201E-04	91	4.275	1.066E-05	1.850E-05	1.458E-05
43	1.130	4.539E-04	4.896E-04	4.718E-04	92	4.365	1.078E-05	1.800E-05	1.439E-05
44	1.170	4.183E-04	4.522E-04	4.352E-04	93	4.455	9.034E-06	1.610E-05	1.257E-05
45	1.210	4.176E-04	4.502E-04	4.339E-04	94	4.550	3.151E-06	9.318E-06	6.234E-06
46	1.250	4.333E-04	4.759E-04	4.546E-04	95	4.650	1.166E-06	5.050E-06	1.942E-06
47	1.295	4.218E-04	4.525E-04	4.371E-04	96	4.750	5.300E-07	5.555E-06	3.042E-06
48	1.345	3.390E-04	3.703E-04	3.546E-04	97	4.850	2.830E-06	6.423E-06	4.627E-06
49	1.395	2.929E-04	3.238E-04	3.083E-04	98	4.950	3.702E-06	6.211E-06	4.957E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 550 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.802E-03	-1.360E-03	-1.581E-03	50	1.445	1.858E-04	2.029E-04	1.943E-04
2	0.111	1.226E-03	1.478E-03	1.352E-03	51	1.495	1.475E-04	1.633E-04	1.554E-04
3	0.117	4.527E-03	5.301E-03	4.914E-03	52	1.545	1.284E-04	1.436E-04	1.360E-04
4	0.125	-1.360E-03	-9.563E-04	-1.158E-03	53	1.595	1.033E-04	1.186E-04	1.109E-04
5	0.135	-2.467E-03	-1.845E-03	-2.156E-03	54	1.645	1.012E-04	1.162E-04	1.087E-04
6	0.145	4.155E-03	4.981E-03	4.568E-03	55	1.695	1.199E-04	1.351E-04	1.275E-04
7	0.155	-1.486E-03	-1.063E-03	-1.275E-03	56	1.745	1.160E-04	1.313E-04	1.237E-04
8	0.165	5.440E-04	6.877E-04	6.159E-04	57	1.800	1.033E-04	1.180E-04	1.107E-04
9	0.175	1.443E-03	1.680E-03	1.561E-03	58	1.860	7.451E-05	8.902E-05	8.177E-05
10	0.185	7.651E-04	8.672E-04	8.161E-04	59	1.920	6.848E-05	8.274E-05	7.561E-05
11	0.200	9.858E-04	1.044E-03	1.015E-03	60	1.980	7.783E-05	9.129E-05	8.456E-05
12	0.220	5.969E-04	6.515E-04	6.242E-04	61	2.040	9.419E-05	1.081E-04	1.012E-04
13	0.240	6.953E-04	7.415E-04	7.184E-04	62	2.100	7.384E-05	8.737E-05	8.061E-05
14	0.260	7.678E-04	8.081E-04	7.880E-04	63	2.160	6.896E-05	8.259E-05	7.577E-05
15	0.280	8.672E-04	9.055E-04	8.863E-04	64	2.220	8.921E-05	1.025E-04	9.587E-05
16	0.300	1.053E-03	1.091E-03	1.072E-03	65	2.280	5.761E-05	6.975E-05	6.368E-05
17	0.320	9.513E-04	9.877E-04	9.695E-04	66	2.340	3.066E-05	4.267E-05	3.666E-05
18	0.340	5.997E-04	6.329E-04	6.163E-04	67	2.405	2.626E-05	3.897E-05	3.262E-05
19	0.360	4.603E-04	4.925E-04	4.764E-04	68	2.475	2.800E-05	3.986E-05	3.393E-05
20	0.380	4.068E-04	4.385E-04	4.227E-04	69	2.545	3.752E-05	4.949E-05	4.350E-05
21	0.400	5.005E-04	5.341E-04	5.173E-04	70	2.615	5.449E-05	6.666E-05	6.057E-05
22	0.420	6.473E-04	6.811E-04	6.642E-04	71	2.685	4.691E-05	5.880E-05	5.286E-05
23	0.445	7.504E-04	7.833E-04	7.668E-04	72	2.755	2.885E-05	3.909E-05	3.397E-05
24	0.475	5.256E-04	5.556E-04	5.406E-04	73	2.825	1.962E-05	2.966E-05	2.464E-05
25	0.505	3.322E-04	3.600E-04	3.461E-04	74	2.895	7.554E-06	1.750E-05	1.253E-05
26	0.535	3.325E-04	3.599E-04	3.462E-04	75	2.965	5.317E-07	9.911E-06	5.221E-06
27	0.565	5.098E-04	5.390E-04	5.244E-04	76	3.035	-2.996E-06	6.537E-06	1.770E-06
28	0.595	6.319E-04	6.614E-04	6.467E-04	77	3.110	-6.428E-06	2.237E-06	-2.095E-06
29	0.625	4.621E-04	4.899E-04	4.760E-04	78	3.190	-3.566E-06	5.200E-06	8.172E-07
30	0.655	3.454E-04	3.715E-04	3.585E-04	79	3.270	1.017E-06	9.304E-06	5.161E-06
31	0.685	3.532E-04	3.792E-04	3.662E-04	80	3.350	1.322E-05	2.130E-05	1.726E-05
32	0.715	4.453E-04	4.718E-04	4.585E-04	81	3.430	1.711E-05	2.466E-05	2.089E-05
33	0.745	4.250E-04	4.512E-04	4.381E-04	82	3.510	1.256E-05	1.927E-05	1.592E-05
34	0.775	4.109E-04	4.369E-04	4.239E-04	83	3.590	1.447E-05	2.085E-05	1.766E-05
35	0.810	4.917E-04	5.195E-04	5.056E-04	84	3.670	1.792E-05	2.385E-05	2.088E-05
36	0.850	6.688E-04	6.978E-04	6.833E-04	85	3.750	9.258E-06	1.440E-05	1.183E-05
37	0.890	7.379E-04	7.676E-04	7.528E-04	86	3.830	-3.120E-07	3.998E-06	1.843E-06
38	0.930	7.642E-04	7.934E-04	7.788E-04	87	3.915	-2.221E-06	1.889E-06	-1.660E-07
39	0.970	6.255E-04	6.529E-04	6.392E-04	88	4.005	-2.997E-07	3.510E-06	1.605E-06
40	1.010	5.658E-04	5.918E-04	5.788E-04	89	4.095	6.960E-07	4.051E-06	2.373E-06
41	1.050	4.793E-04	5.035E-04	4.914E-04	90	4.185	2.287E-06	5.338E-06	3.813E-06
42	1.090	3.218E-04	3.428E-04	3.323E-04	91	4.275	4.454E-06	7.726E-06	6.090E-06
43	1.130	2.707E-04	2.903E-04	2.805E-04	92	4.365	4.722E-06	7.663E-06	6.193E-06
44	1.170	2.535E-04	2.722E-04	2.628E-04	93	4.455	2.704E-06	5.282E-06	3.993E-06
45	1.210	2.846E-04	3.032E-04	2.939E-04	94	4.550	3.206E-07	2.497E-06	1.409E-06
46	1.250	3.054E-04	3.295E-04	3.175E-04	95	4.650	1.597E-08	1.876E-06	9.458E-07
47	1.295	2.736E-04	2.909E-04	2.822E-04	96	4.750	8.302E-07	2.393E-06	1.612E-06
48	1.345	2.266E-04	2.441E-04	2.354E-04	97	4.850	1.416E-06	2.504E-06	1.960E-06
49	1.395	2.005E-04	2.176E-04	2.091E-04	98	4.950	1.395E-06	2.199E-06	1.797E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 950 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.024E-03	-7.614E-04	-8.925E-04	50	1.445	1.628E-04	1.727E-04	1.677E-04
2	0.111	6.874E-04	8.422E-04	7.648E-04	51	1.495	1.058E-04	1.145E-04	1.101E-04
3	0.117	2.642E-03	3.092E-03	2.867E-03	52	1.545	7.275E-05	8.076E-05	7.675E-05
4	0.125	-7.634E-04	-5.165E-04	-6.399E-04	53	1.595	5.942E-05	6.747E-05	6.345E-05
5	0.135	-1.481E-03	-1.089E-03	-1.285E-03	54	1.645	5.423E-05	6.209E-05	5.816E-05
6	0.145	2.564E-03	3.080E-03	2.822E-03	55	1.695	6.236E-05	7.031E-05	6.633E-05
7	0.155	-8.506E-04	-5.839E-04	-7.173E-04	56	1.745	6.869E-05	7.689E-05	7.279E-05
8	0.165	3.843E-04	4.731E-04	4.287E-04	57	1.800	6.707E-05	7.502E-05	7.104E-05
9	0.175	9.244E-04	1.071E-03	9.977E-04	58	1.860	5.085E-05	5.864E-05	5.475E-05
10	0.185	5.006E-04	5.637E-04	5.321E-04	59	1.920	4.083E-05	4.832E-05	4.457E-05
11	0.200	6.259E-04	6.615E-04	6.437E-04	60	1.980	4.804E-05	5.524E-05	5.164E-05
12	0.220	3.553E-04	3.883E-04	3.718E-04	61	2.040	5.619E-05	6.352E-05	5.985E-05
13	0.240	4.071E-04	4.354E-04	4.212E-04	62	2.100	4.195E-05	4.902E-05	4.549E-05
14	0.260	4.795E-04	5.048E-04	4.921E-04	63	2.160	3.769E-05	4.465E-05	4.117E-05
15	0.280	5.956E-04	6.207E-04	6.081E-04	64	2.220	5.496E-05	6.197E-05	5.847E-05
16	0.300	7.800E-04	8.057E-04	7.929E-04	65	2.280	3.875E-05	4.515E-05	4.195E-05
17	0.320	6.998E-04	7.228E-04	7.113E-04	66	2.340	2.272E-05	2.876E-05	2.574E-05
18	0.340	4.013E-04	4.200E-04	4.106E-04	67	2.405	1.708E-05	2.338E-05	2.023E-05
19	0.360	2.781E-04	2.958E-04	2.869E-04	68	2.475	1.474E-05	2.060E-05	1.767E-05
20	0.380	2.529E-04	2.702E-04	2.615E-04	69	2.545	2.310E-05	2.915E-05	2.613E-05
21	0.400	3.013E-04	3.196E-04	3.104E-04	70	2.615	2.783E-05	3.377E-05	3.080E-05
22	0.420	3.841E-04	4.025E-04	3.933E-04	71	2.685	2.607E-05	3.187E-05	2.897E-05
23	0.445	4.671E-04	4.852E-04	4.762E-04	72	2.755	1.566E-05	2.051E-05	1.809E-05
24	0.475	3.406E-04	3.571E-04	3.488E-04	73	2.825	7.909E-06	1.238E-05	1.015E-05
25	0.505	2.121E-04	2.274E-04	2.198E-04	74	2.895	3.775E-06	8.363E-06	6.069E-06
26	0.535	2.308E-04	2.460E-04	2.384E-04	75	2.965	2.486E-06	6.834E-06	4.660E-06
27	0.565	3.065E-04	3.224E-04	3.145E-04	76	3.035	1.811E-06	6.033E-06	3.922E-06
28	0.595	3.499E-04	3.657E-04	3.578E-04	77	3.110	3.364E-06	7.482E-06	5.423E-06
29	0.625	2.869E-04	3.021E-04	2.945E-04	78	3.190	1.907E-06	6.027E-06	3.967E-06
30	0.655	2.297E-04	2.440E-04	2.369E-04	79	3.270	-6.007E-07	2.899E-06	1.149E-06
31	0.685	1.930E-04	2.069E-04	2.000E-04	80	3.350	3.241E-06	6.647E-06	4.944E-06
32	0.715	2.112E-04	2.250E-04	2.181E-04	81	3.430	3.429E-06	6.415E-06	4.922E-06
33	0.745	2.232E-04	2.371E-04	2.302E-04	82	3.510	4.388E-06	7.080E-06	5.734E-06
34	0.775	2.434E-04	2.574E-04	2.504E-04	83	3.590	5.238E-06	7.951E-06	6.594E-06
35	0.810	2.632E-04	2.780E-04	2.706E-04	84	3.670	5.397E-06	7.828E-06	6.612E-06
36	0.850	3.664E-04	3.819E-04	3.742E-04	85	3.750	3.884E-06	5.956E-06	4.920E-06
37	0.890	4.697E-04	4.862E-04	4.779E-04	86	3.830	1.047E-06	2.747E-06	1.897E-06
38	0.930	5.008E-04	5.172E-04	5.090E-04	87	3.915	-1.285E-08	1.550E-06	7.684E-07
39	0.970	3.889E-04	4.039E-04	3.964E-04	88	4.005	4.369E-07	1.979E-06	1.208E-06
40	1.010	3.329E-04	3.472E-04	3.400E-04	89	4.095	1.062E-06	2.330E-06	1.696E-06
41	1.050	3.030E-04	3.164E-04	3.097E-04	90	4.185	1.538E-06	2.847E-06	2.193E-06
42	1.090	2.052E-04	2.168E-04	2.110E-04	91	4.275	1.561E-06	2.906E-06	2.234E-06
43	1.130	1.509E-04	1.613E-04	1.561E-04	92	4.365	9.875E-07	2.269E-06	1.628E-06
44	1.170	1.360E-04	1.461E-04	1.410E-04	93	4.455	5.974E-08	1.172E-06	6.159E-07
45	1.210	1.579E-04	1.679E-04	1.629E-04	94	4.550	-1.033E-06	7.662E-08	-4.780E-07
46	1.250	2.005E-04	2.137E-04	2.071E-04	95	4.650	-1.393E-06	-1.329E-07	-7.629E-07
47	1.295	1.694E-04	1.788E-04	1.741E-04	96	4.750	-8.103E-07	1.776E-07	-3.163E-07
48	1.345	1.160E-04	1.253E-04	1.206E-04	97	4.850	5.838E-08	5.404E-07	2.994E-07
49	1.395	1.416E-04	1.514E-04	1.465E-04	98	4.950	4.133E-07	9.313E-07	6.723E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1750 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-5.366E-04	-3.591E-04	-4.478E-04	50	1.445	1.257E-04	1.339E-04	1.298E-04
2	0.111	3.685E-04	4.641E-04	4.163E-04	51	1.495	8.177E-05	8.890E-05	8.534E-05
3	0.117	1.379E-03	1.701E-03	1.540E-03	52	1.545	5.083E-05	5.714E-05	5.399E-05
4	0.125	-3.874E-04	-2.359E-04	-3.117E-04	53	1.595	3.401E-05	4.020E-05	3.710E-05
5	0.135	-7.956E-04	-5.431E-04	-6.694E-04	54	1.645	2.873E-05	3.461E-05	3.167E-05
6	0.145	1.405E-03	1.749E-03	1.577E-03	55	1.695	2.863E-05	3.457E-05	3.160E-05
7	0.155	-4.325E-04	-2.585E-04	-3.455E-04	56	1.745	3.100E-05	3.715E-05	3.407E-05
8	0.165	2.446E-04	3.033E-04	2.739E-04	57	1.800	3.463E-05	4.076E-05	3.770E-05
9	0.175	5.337E-04	6.305E-04	5.821E-04	58	1.860	2.599E-05	3.187E-05	2.893E-05
10	0.185	3.039E-04	3.454E-04	3.246E-04	59	1.920	2.134E-05	2.706E-05	2.420E-05
11	0.200	3.805E-04	4.042E-04	3.923E-04	60	1.980	2.293E-05	2.847E-05	2.570E-05
12	0.220	2.077E-04	2.306E-04	2.192E-04	61	2.040	3.240E-05	3.814E-05	3.527E-05
13	0.240	2.047E-04	2.241E-04	2.144E-04	62	2.100	2.691E-05	3.252E-05	2.971E-05
14	0.260	2.566E-04	2.739E-04	2.652E-04	63	2.160	2.263E-05	2.806E-05	2.535E-05
15	0.280	3.790E-04	3.963E-04	3.876E-04	64	2.220	3.741E-05	4.296E-05	4.018E-05
16	0.300	5.289E-04	5.465E-04	5.377E-04	65	2.280	3.290E-05	3.824E-05	3.557E-05
17	0.320	4.576E-04	4.743E-04	4.660E-04	66	2.340	1.727E-05	2.180E-05	1.953E-05
18	0.340	2.501E-04	2.646E-04	2.573E-04	67	2.405	9.194E-06	1.370E-05	1.144E-05
19	0.360	1.603E-04	1.738E-04	1.670E-04	68	2.475	8.656E-06	1.297E-05	1.081E-05
20	0.380	1.386E-04	1.519E-04	1.453E-04	69	2.545	1.418E-05	1.872E-05	1.645E-05
21	0.400	1.756E-04	1.899E-04	1.827E-04	70	2.615	1.814E-05	2.242E-05	2.028E-05
22	0.420	2.320E-04	2.464E-04	2.392E-04	71	2.685	1.282E-05	1.673E-05	1.477E-05
23	0.445	3.019E-04	3.163E-04	3.091E-04	72	2.755	9.243E-06	1.265E-05	1.095E-05
24	0.475	2.378E-04	2.510E-04	2.444E-04	73	2.825	3.256E-06	5.981E-06	4.618E-06
25	0.505	1.336E-04	1.455E-04	1.395E-04	74	2.895	1.419E-06	4.396E-06	2.908E-06
26	0.535	1.502E-04	1.621E-04	1.561E-04	75	2.965	3.148E-06	6.044E-06	4.596E-06
27	0.565	1.735E-04	1.856E-04	1.796E-04	76	3.035	1.422E-06	4.179E-06	2.801E-06
28	0.595	1.706E-04	1.825E-04	1.766E-04	77	3.110	1.717E-07	2.594E-06	1.383E-06
29	0.625	1.693E-04	1.812E-04	1.753E-04	78	3.190	6.567E-08	2.609E-06	1.337E-06
30	0.655	1.543E-04	1.655E-04	1.599E-04	79	3.270	-4.665E-07	1.528E-06	5.306E-07
31	0.685	9.857E-05	1.090E-04	1.038E-04	80	3.350	1.314E-06	3.306E-06	2.310E-06
32	0.715	9.227E-05	1.026E-04	9.745E-05	81	3.430	9.537E-07	2.725E-06	1.839E-06
33	0.745	1.435E-04	1.544E-04	1.490E-04	82	3.510	1.033E-06	2.550E-06	1.792E-06
34	0.775	1.525E-04	1.634E-04	1.580E-04	83	3.590	1.549E-06	3.228E-06	2.389E-06
35	0.810	1.355E-04	1.467E-04	1.411E-04	84	3.670	2.472E-06	4.024E-06	3.248E-06
36	0.850	2.059E-04	2.178E-04	2.118E-04	85	3.750	2.333E-06	3.743E-06	3.038E-06
37	0.890	2.901E-04	3.031E-04	2.966E-04	86	3.830	5.270E-07	1.518E-06	1.023E-06
38	0.930	3.173E-04	3.302E-04	3.238E-04	87	3.915	-4.058E-07	3.786E-07	-1.359E-08
39	0.970	2.238E-04	2.353E-04	2.296E-04	88	4.005	7.105E-08	8.189E-07	4.450E-07
40	1.010	1.948E-04	2.058E-04	2.003E-04	89	4.095	5.113E-07	1.288E-06	8.997E-07
41	1.050	1.901E-04	2.006E-04	1.954E-04	90	4.185	7.258E-07	1.512E-06	1.119E-06
42	1.090	1.180E-04	1.269E-04	1.225E-04	91	4.275	3.038E-07	9.702E-07	6.370E-07
43	1.130	8.324E-05	9.131E-05	8.727E-05	92	4.365	-2.229E-07	2.684E-07	2.272E-08
44	1.170	7.599E-05	8.372E-05	7.985E-05	93	4.455	-4.266E-07	8.260E-08	-1.720E-07
45	1.210	8.387E-05	9.143E-05	8.765E-05	94	4.550	-3.837E-07	1.362E-07	-1.238E-07
46	1.250	1.005E-04	1.104E-04	1.055E-04	95	4.650	-2.257E-07	1.791E-07	-2.329E-08
47	1.295	8.420E-05	9.115E-05	8.767E-05	96	4.750	-3.953E-08	2.508E-07	1.056E-07
48	1.345	6.195E-05	6.921E-05	6.558E-05	97	4.850	6.062E-08	3.498E-07	2.052E-07
49	1.395	8.856E-05	9.641E-05	9.248E-05	98	4.950	9.438E-08	3.200E-07	2.072E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2650 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-3.237E-04	-2.049E-04	-2.643E-04	50	1.445	1.025E-04	1.090E-04	1.057E-04
2	0.111	2.182E-04	2.800E-04	2.491E-04	51	1.495	7.701E-05	8.259E-05	7.980E-05
3	0.117	8.232E-04	1.044E-03	9.337E-04	52	1.545	3.818E-05	4.278E-05	4.048E-05
4	0.125	-2.297E-04	-1.329E-04	-1.813E-04	53	1.595	2.254E-05	2.698E-05	2.476E-05
5	0.135	-4.927E-04	-3.221E-04	-4.074E-04	54	1.645	1.810E-05	2.225E-05	2.017E-05
6	0.145	8.883E-04	1.123E-03	1.006E-03	55	1.695	1.630E-05	2.040E-05	1.835E-05
7	0.155	-2.499E-04	-1.310E-04	-1.905E-04	56	1.745	1.549E-05	1.975E-05	1.762E-05
8	0.165	1.694E-04	2.105E-04	1.900E-04	57	1.800	2.325E-05	2.773E-05	2.549E-05
9	0.175	3.288E-04	3.961E-04	3.624E-04	58	1.860	2.169E-05	2.602E-05	2.385E-05
10	0.185	1.818E-04	2.106E-04	1.962E-04	59	1.920	1.544E-05	1.953E-05	1.748E-05
11	0.200	2.368E-04	2.535E-04	2.451E-04	60	1.980	1.201E-05	1.585E-05	1.393E-05
12	0.220	1.310E-04	1.470E-04	1.390E-04	61	2.040	1.470E-05	1.862E-05	1.666E-05
13	0.240	1.091E-04	1.225E-04	1.158E-04	62	2.100	1.470E-05	1.867E-05	1.669E-05
14	0.260	1.352E-04	1.472E-04	1.412E-04	63	2.160	1.088E-05	1.479E-05	1.284E-05
15	0.280	2.062E-04	2.181E-04	2.122E-04	64	2.220	1.869E-05	2.254E-05	2.062E-05
16	0.300	3.125E-04	3.249E-04	3.187E-04	65	2.280	1.949E-05	2.329E-05	2.139E-05
17	0.320	2.859E-04	2.978E-04	2.918E-04	66	2.340	8.084E-06	1.135E-05	9.718E-06
18	0.340	1.523E-04	1.627E-04	1.575E-04	67	2.405	8.241E-06	1.161E-05	9.926E-06
19	0.360	9.003E-05	9.967E-05	9.485E-05	68	2.475	7.927E-06	1.117E-05	9.550E-06
20	0.380	8.123E-05	9.073E-05	8.598E-05	69	2.545	8.109E-06	1.124E-05	9.672E-06
21	0.400	1.030E-04	1.132E-04	1.081E-04	70	2.615	1.371E-05	1.695E-05	1.533E-05
22	0.420	1.404E-04	1.509E-04	1.457E-04	71	2.685	1.184E-05	1.475E-05	1.329E-05
23	0.445	2.051E-04	2.158E-04	2.104E-04	72	2.755	6.052E-06	8.414E-06	7.233E-06
24	0.475	1.728E-04	1.827E-04	1.777E-04	73	2.825	2.529E-06	4.687E-06	3.608E-06
25	0.505	9.378E-05	1.026E-04	9.820E-05	74	2.895	1.271E-06	3.240E-06	2.256E-06
26	0.535	1.005E-04	1.092E-04	1.048E-04	75	2.965	1.144E-06	3.055E-06	2.099E-06
27	0.565	1.132E-04	1.220E-04	1.176E-04	76	3.035	1.377E-06	3.191E-06	2.284E-06
28	0.595	9.610E-05	1.045E-04	1.003E-04	77	3.110	1.890E-07	1.898E-06	1.044E-06
29	0.625	1.077E-04	1.163E-04	1.120E-04	78	3.190	-3.327E-08	1.599E-06	7.828E-07
30	0.655	1.107E-04	1.191E-04	1.149E-04	79	3.270	2.721E-07	1.807E-06	1.039E-06
31	0.685	6.535E-05	7.300E-05	6.918E-05	80	3.350	-8.142E-08	1.331E-06	6.249E-07
32	0.715	6.150E-05	6.905E-05	6.527E-05	81	3.430	2.410E-07	1.447E-06	8.440E-07
33	0.745	1.021E-04	1.102E-04	1.061E-04	82	3.510	2.013E-07	1.459E-06	8.301E-07
34	0.775	1.070E-04	1.150E-04	1.110E-04	83	3.590	3.260E-07	1.282E-06	8.038E-07
35	0.810	8.188E-05	9.002E-05	8.595E-05	84	3.670	1.071E-06	2.150E-06	1.611E-06
36	0.850	1.580E-04	1.671E-04	1.625E-04	85	3.750	1.009E-06	1.964E-06	1.486E-06
37	0.890	2.288E-04	2.387E-04	2.338E-04	86	3.830	3.283E-07	1.232E-06	7.803E-07
38	0.930	2.032E-04	2.124E-04	2.078E-04	87	3.915	1.150E-08	9.950E-07	5.032E-07
39	0.970	1.378E-04	1.460E-04	1.419E-04	88	4.005	-5.270E-08	7.146E-07	3.310E-07
40	1.010	1.188E-04	1.266E-04	1.227E-04	89	4.095	1.501E-08	7.125E-07	3.638E-07
41	1.050	1.148E-04	1.224E-04	1.186E-04	90	4.185	-2.542E-08	7.107E-07	3.427E-07
42	1.090	7.423E-05	8.073E-05	7.748E-05	91	4.275	-1.581E-07	5.490E-07	1.955E-07
43	1.130	5.427E-05	6.013E-05	5.720E-05	92	4.365	-3.162E-07	4.302E-07	5.704E-08
44	1.170	4.806E-05	5.365E-05	5.085E-05	93	4.455	-4.837E-07	2.072E-07	-1.382E-07
45	1.210	4.241E-05	4.764E-05	4.502E-05	94	4.550	-6.123E-07	4.396E-09	-3.039E-07
46	1.250	4.863E-05	5.555E-05	5.209E-05	95	4.650	-5.235E-07	8.500E-08	-2.193E-07
47	1.295	4.816E-05	5.308E-05	5.062E-05	96	4.750	-2.659E-07	2.653E-07	-3.036E-10
48	1.345	4.040E-05	4.581E-05	4.310E-05	97	4.850	2.265E-08	3.989E-07	2.108E-07
49	1.395	6.231E-05	6.826E-05	6.528E-05	98	4.950	1.867E-07	4.546E-07	3.206E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3750 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.736E-04	-9.141E-05	-1.325E-04	50	1.445	7.867E-05	8.378E-05	8.122E-05
2	0.111	1.206E-04	1.620E-04	1.413E-04	51	1.495	5.950E-05	6.388E-05	6.169E-05
3	0.117	4.451E-04	6.017E-04	5.234E-04	52	1.545	2.850E-05	3.196E-05	3.023E-05
4	0.125	-1.180E-04	-5.319E-05	-8.561E-05	53	1.595	1.488E-05	1.812E-05	1.650E-05
5	0.135	-2.761E-04	-1.559E-04	-2.160E-04	54	1.645	9.595E-06	1.259E-05	1.109E-05
6	0.145	5.194E-04	6.877E-04	6.035E-04	55	1.695	9.538E-06	1.254E-05	1.104E-05
7	0.155	-1.184E-04	-3.433E-05	-7.634E-05	56	1.745	1.126E-05	1.444E-05	1.285E-05
8	0.165	1.179E-04	1.480E-04	1.329E-04	57	1.800	1.296E-05	1.616E-05	1.456E-05
9	0.175	2.046E-04	2.533E-04	2.290E-04	58	1.860	1.222E-05	1.538E-05	1.380E-05
10	0.185	1.142E-04	1.351E-04	1.247E-04	59	1.920	1.018E-05	1.324E-05	1.171E-05
11	0.200	1.445E-04	1.566E-04	1.505E-04	60	1.980	8.491E-06	1.138E-05	9.935E-06
12	0.220	8.396E-05	9.564E-05	8.980E-05	61	2.040	8.390E-06	1.126E-05	9.826E-06
13	0.240	6.063E-05	7.036E-05	6.550E-05	62	2.100	8.964E-06	1.185E-05	1.040E-05
14	0.260	7.412E-05	8.277E-05	7.844E-05	63	2.160	6.340E-06	9.196E-06	7.768E-06
15	0.280	1.193E-04	1.280E-04	1.236E-04	64	2.220	9.612E-06	1.246E-05	1.103E-05
16	0.300	1.739E-04	1.827E-04	1.783E-04	65	2.280	1.290E-05	1.575E-05	1.433E-05
17	0.320	1.556E-04	1.641E-04	1.599E-04	66	2.340	7.681E-06	1.022E-05	8.950E-06
18	0.340	8.284E-05	9.035E-05	8.659E-05	67	2.405	6.398E-06	8.944E-06	7.671E-06
19	0.360	5.013E-05	5.725E-05	5.369E-05	68	2.475	8.625E-06	1.112E-05	9.871E-06
20	0.380	4.846E-05	5.556E-05	5.201E-05	69	2.545	5.220E-06	7.508E-06	6.364E-06
21	0.400	6.400E-05	7.170E-05	6.785E-05	70	2.615	6.330E-06	8.508E-06	7.419E-06
22	0.420	9.332E-05	1.013E-04	9.731E-05	71	2.685	6.647E-06	8.828E-06	7.737E-06
23	0.445	1.395E-04	1.476E-04	1.435E-04	72	2.755	3.658E-06	5.399E-06	4.528E-06
24	0.475	1.234E-04	1.310E-04	1.272E-04	73	2.825	1.083E-06	2.551E-06	1.817E-06
25	0.505	6.052E-05	6.727E-05	6.389E-05	74	2.895	-3.317E-07	1.092E-06	3.802E-07
26	0.535	7.408E-05	8.077E-05	7.743E-05	75	2.965	-4.408E-07	8.599E-07	2.096E-07
27	0.565	7.925E-05	8.601E-05	8.263E-05	76	3.035	1.914E-07	1.534E-06	8.626E-07
28	0.595	5.911E-05	6.548E-05	6.230E-05	77	3.110	5.641E-07	1.840E-06	1.202E-06
29	0.625	7.636E-05	8.300E-05	7.968E-05	78	3.190	5.263E-07	1.789E-06	1.158E-06
30	0.655	8.287E-05	8.935E-05	8.611E-05	79	3.270	6.646E-07	1.733E-06	1.199E-06
31	0.685	4.640E-05	5.224E-05	4.932E-05	80	3.350	7.251E-07	1.888E-06	1.306E-06
32	0.715	4.022E-05	4.592E-05	4.307E-05	81	3.430	2.356E-07	1.188E-06	7.116E-07
33	0.745	6.826E-05	7.438E-05	7.132E-05	82	3.510	2.510E-07	1.157E-06	7.040E-07
34	0.775	7.653E-05	8.268E-05	7.960E-05	83	3.590	2.881E-07	1.040E-06	6.642E-07
35	0.810	6.377E-05	7.016E-05	6.696E-05	84	3.670	8.629E-08	6.855E-07	3.859E-07
36	0.850	1.237E-04	1.309E-04	1.273E-04	85	3.750	9.970E-08	7.292E-07	4.144E-07
37	0.890	1.868E-04	1.946E-04	1.907E-04	86	3.830	1.422E-07	7.298E-07	4.360E-07
38	0.930	1.523E-04	1.594E-04	1.558E-04	87	3.915	7.777E-08	9.595E-07	5.187E-07
39	0.970	9.159E-05	9.762E-05	9.460E-05	88	4.005	1.917E-07	8.097E-07	5.007E-07
40	1.010	6.947E-05	7.522E-05	7.235E-05	89	4.095	9.106E-08	5.550E-07	3.230E-07
41	1.050	7.145E-05	7.704E-05	7.424E-05	90	4.185	-5.073E-08	3.712E-07	1.603E-07
42	1.090	5.064E-05	5.557E-05	5.310E-05	91	4.275	-1.916E-07	2.709E-07	3.966E-08
43	1.130	3.791E-05	4.238E-05	4.015E-05	92	4.365	-3.072E-07	1.940E-07	-5.657E-08
44	1.170	3.341E-05	3.759E-05	3.550E-05	93	4.455	-4.173E-07	7.312E-08	-1.721E-07
45	1.210	2.474E-05	2.855E-05	2.665E-05	94	4.550	-4.400E-07	-1.271E-08	-2.264E-07
46	1.250	2.487E-05	2.983E-05	2.735E-05	95	4.650	-3.092E-07	8.405E-08	-1.126E-07
47	1.295	2.539E-05	2.893E-05	2.716E-05	96	4.750	-1.210E-07	2.545E-07	6.678E-08
48	1.345	2.355E-05	2.754E-05	2.554E-05	97	4.850	4.423E-08	3.347E-07	1.895E-07
49	1.395	4.353E-05	4.810E-05	4.582E-05	98	4.950	1.122E-07	3.088E-07	2.105E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5150 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.616E-04	-1.068E-04	-1.342E-04	50	1.445	4.821E-05	5.168E-05	4.995E-05
2	0.111	9.320E-05	1.209E-04	1.071E-04	51	1.495	3.187E-05	3.474E-05	3.330E-05
3	0.117	3.757E-04	4.808E-04	4.283E-04	52	1.545	1.457E-05	1.692E-05	1.575E-05
4	0.125	-1.043E-04	-6.123E-05	-8.278E-05	53	1.595	8.440E-06	1.068E-05	9.560E-06
5	0.135	-2.387E-04	-1.568E-04	-1.978E-04	54	1.645	6.711E-06	8.859E-06	7.785E-06
6	0.145	4.335E-04	5.481E-04	4.908E-04	55	1.695	6.981E-06	9.128E-06	8.055E-06
7	0.155	-1.103E-04	-5.308E-05	-8.172E-05	56	1.745	7.951E-06	1.022E-05	9.085E-06
8	0.165	8.067E-05	1.015E-04	9.110E-05	57	1.800	1.075E-05	1.310E-05	1.192E-05
9	0.175	1.486E-04	1.821E-04	1.654E-04	58	1.860	9.175E-06	1.140E-05	1.029E-05
10	0.185	6.688E-05	8.132E-05	7.410E-05	59	1.920	7.496E-06	9.688E-06	8.592E-06
11	0.200	8.920E-05	9.761E-05	9.340E-05	60	1.980	5.367E-06	7.426E-06	6.397E-06
12	0.220	5.302E-05	6.108E-05	5.705E-05	61	2.040	5.155E-06	7.123E-06	6.139E-06
13	0.240	3.664E-05	4.331E-05	3.998E-05	62	2.100	4.121E-06	6.125E-06	5.123E-06
14	0.260	4.232E-05	4.821E-05	4.527E-05	63	2.160	2.987E-06	4.970E-06	3.978E-06
15	0.280	6.284E-05	6.860E-05	6.572E-05	64	2.220	7.138E-06	9.135E-06	8.136E-06
16	0.300	8.353E-05	8.928E-05	8.641E-05	65	2.280	6.421E-06	8.349E-06	7.385E-06
17	0.320	7.360E-05	7.916E-05	7.638E-05	66	2.340	2.937E-06	4.693E-06	3.815E-06
18	0.340	4.059E-05	4.566E-05	4.313E-05	67	2.405	5.563E-06	7.431E-06	6.497E-06
19	0.360	2.532E-05	3.027E-05	2.780E-05	68	2.475	7.440E-06	9.304E-06	8.372E-06
20	0.380	2.958E-05	3.465E-05	3.211E-05	69	2.545	4.277E-06	5.873E-06	5.075E-06
21	0.400	4.845E-05	5.405E-05	5.125E-05	70	2.615	5.468E-06	7.121E-06	6.294E-06
22	0.420	6.444E-05	7.015E-05	6.729E-05	71	2.685	3.820E-06	5.174E-06	4.497E-06
23	0.445	8.695E-05	9.269E-05	8.982E-05	72	2.755	1.855E-06	3.002E-06	2.429E-06
24	0.475	7.438E-05	7.969E-05	7.703E-05	73	2.825	8.464E-07	1.884E-06	1.365E-06
25	0.505	3.428E-05	3.904E-05	3.666E-05	74	2.895	-3.890E-07	4.558E-07	3.343E-08
26	0.535	5.125E-05	5.608E-05	5.366E-05	75	2.965	-1.934E-07	6.835E-07	2.450E-07
27	0.565	5.172E-05	5.661E-05	5.416E-05	76	3.035	2.650E-07	1.171E-06	7.181E-07
28	0.595	4.421E-05	4.892E-05	4.657E-05	77	3.110	4.485E-07	1.412E-06	9.302E-07
29	0.625	6.082E-05	6.580E-05	6.331E-05	78	3.190	4.791E-07	1.279E-06	8.792E-07
30	0.655	6.156E-05	6.632E-05	6.394E-05	79	3.270	1.999E-07	8.899E-07	5.449E-07
31	0.685	3.660E-05	4.088E-05	3.874E-05	80	3.350	3.376E-07	1.023E-06	6.804E-07
32	0.715	2.654E-05	3.060E-05	2.857E-05	81	3.430	3.633E-07	9.934E-07	6.783E-07
33	0.745	4.557E-05	4.993E-05	4.775E-05	82	3.510	2.948E-07	8.959E-07	5.954E-07
34	0.775	5.056E-05	5.498E-05	5.277E-05	83	3.590	1.831E-08	5.261E-07	2.722E-07
35	0.810	4.462E-05	4.933E-05	4.698E-05	84	3.670	-2.515E-08	4.468E-07	2.108E-07
36	0.850	1.078E-04	1.134E-04	1.106E-04	85	3.750	1.836E-08	4.800E-07	2.492E-07
37	0.890	1.474E-04	1.532E-04	1.503E-04	86	3.830	-1.624E-07	3.158E-07	7.668E-08
38	0.930	1.105E-04	1.156E-04	1.130E-04	87	3.915	-1.852E-07	3.314E-07	7.312E-08
39	0.970	5.639E-05	6.054E-05	5.846E-05	88	4.005	-6.005E-08	3.962E-07	1.681E-07
40	1.010	4.561E-05	4.964E-05	4.763E-05	89	4.095	-1.559E-07	3.079E-07	7.602E-08
41	1.050	4.712E-05	5.107E-05	4.910E-05	90	4.185	-2.532E-07	1.783E-07	-3.746E-08
42	1.090	3.622E-05	3.975E-05	3.798E-05	91	4.275	-2.934E-07	1.368E-07	-7.832E-08
43	1.130	2.771E-05	3.088E-05	2.929E-05	92	4.365	-2.612E-07	1.278E-07	-6.674E-08
44	1.170	2.233E-05	2.524E-05	2.379E-05	93	4.455	-1.636E-07	1.816E-07	9.031E-09
45	1.210	1.376E-05	1.634E-05	1.505E-05	94	4.550	-6.357E-08	2.860E-07	1.112E-07
46	1.250	1.342E-05	1.679E-05	1.511E-05	95	4.650	2.814E-08	3.060E-07	1.671E-07
47	1.295	1.527E-05	1.772E-05	1.649E-05	96	4.750	5.960E-08	2.625E-07	1.611E-07
48	1.345	1.361E-05	1.639E-05	1.500E-05	97	4.850	5.872E-08	1.842E-07	1.215E-07
49	1.395	3.414E-05	3.748E-05	3.581E-05	98	4.950	3.845E-08	1.146E-07	7.651E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>235</sup>U BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 6950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-9.870E-05	-6.179E-05	-8.025E-05	50	1.445	3.605E-05	3.867E-05	3.736E-05
2	0.111	6.058E-05	7.876E-05	6.967E-05	51	1.495	2.134E-05	2.344E-05	2.239E-05
3	0.117	2.287E-04	2.997E-04	2.642E-04	52	1.545	8.778E-06	1.044E-05	9.607E-06
4	0.125	-6.677E-05	-3.819E-05	-5.248E-05	53	1.595	3.888E-06	5.462E-06	4.675E-06
5	0.135	-1.479E-04	-9.399E-05	-1.210E-04	54	1.645	4.049E-06	5.617E-06	4.833E-06
6	0.145	2.607E-04	3.376E-04	2.991E-04	55	1.695	4.699E-06	6.274E-06	5.487E-06
7	0.155	-6.522E-05	-2.696E-05	-4.609E-05	56	1.745	5.300E-06	6.954E-06	6.127E-06
8	0.165	5.126E-05	6.641E-05	5.884E-05	57	1.800	6.990E-06	8.740E-06	7.865E-06
9	0.175	9.155E-05	1.156E-04	1.036E-04	58	1.860	8.225E-06	9.952E-06	9.089E-06
10	0.185	3.974E-05	5.015E-05	4.494E-05	59	1.920	3.916E-06	5.465E-06	4.690E-06
11	0.200	5.121E-05	5.733E-05	5.427E-05	60	1.980	2.187E-06	3.644E-06	2.915E-06
12	0.220	3.473E-05	4.073E-05	3.773E-05	61	2.040	2.486E-06	3.944E-06	3.215E-06
13	0.240	2.760E-05	3.256E-05	3.008E-05	62	2.100	2.490E-06	3.958E-06	3.224E-06
14	0.260	2.972E-05	3.402E-05	3.187E-05	63	2.160	1.594E-06	3.035E-06	2.314E-06
15	0.280	3.406E-05	3.811E-05	3.609E-05	64	2.220	3.904E-06	5.343E-06	4.623E-06
16	0.300	3.644E-05	4.033E-05	3.839E-05	65	2.280	4.107E-06	5.552E-06	4.829E-06
17	0.320	3.255E-05	3.635E-05	3.445E-05	66	2.340	2.080E-06	3.394E-06	2.737E-06
18	0.340	2.082E-05	2.444E-05	2.263E-05	67	2.405	3.995E-06	5.461E-06	4.728E-06
19	0.360	1.404E-05	1.764E-05	1.584E-05	68	2.475	5.727E-06	7.158E-06	6.443E-06
20	0.380	1.790E-05	2.161E-05	1.975E-05	69	2.545	3.799E-06	5.033E-06	4.416E-06
21	0.400	3.092E-05	3.503E-05	3.298E-05	70	2.615	3.400E-06	4.527E-06	3.964E-06
22	0.420	4.020E-05	4.434E-05	4.227E-05	71	2.685	2.654E-06	3.714E-06	3.184E-06
23	0.445	4.805E-05	5.215E-05	5.010E-05	72	2.755	1.460E-06	2.318E-06	1.889E-06
24	0.475	3.984E-05	4.367E-05	4.175E-05	73	2.825	4.973E-07	1.246E-06	8.716E-07
25	0.505	2.534E-05	2.896E-05	2.715E-05	74	2.895	3.360E-08	7.807E-07	4.072E-07
26	0.535	3.768E-05	4.135E-05	3.952E-05	75	2.965	-5.301E-08	6.174E-07	2.822E-07
27	0.565	3.647E-05	4.015E-05	3.831E-05	76	3.035	-3.340E-08	5.611E-07	2.639E-07
28	0.595	3.016E-05	3.370E-05	3.193E-05	77	3.110	1.073E-07	7.286E-07	4.179E-07
29	0.625	4.110E-05	4.483E-05	4.297E-05	78	3.190	1.229E-07	7.561E-07	4.395E-07
30	0.655	4.448E-05	4.809E-05	4.629E-05	79	3.270	-1.940E-07	3.429E-07	7.444E-08
31	0.685	2.634E-05	2.955E-05	2.794E-05	80	3.350	-8.128E-09	4.976E-07	2.447E-07
32	0.715	1.899E-05	2.204E-05	2.051E-05	81	3.430	4.864E-07	1.023E-06	7.548E-07
33	0.745	3.180E-05	3.507E-05	3.344E-05	82	3.510	3.106E-07	7.961E-07	5.534E-07
34	0.775	3.566E-05	3.900E-05	3.733E-05	83	3.590	-2.773E-09	4.123E-07	2.048E-07
35	0.810	3.240E-05	3.601E-05	3.420E-05	84	3.670	-3.351E-08	4.505E-07	2.085E-07
36	0.850	8.352E-05	8.779E-05	8.566E-05	85	3.750	2.150E-08	4.315E-07	2.265E-07
37	0.890	1.126E-04	1.171E-04	1.148E-04	86	3.830	-4.671E-08	3.326E-07	1.429E-07
38	0.930	7.385E-05	7.757E-05	7.571E-05	87	3.915	-1.494E-07	2.136E-07	3.211E-08
39	0.970	3.800E-05	4.105E-05	3.953E-05	88	4.005	-2.325E-07	1.230E-07	-5.478E-08
40	1.010	2.896E-05	3.192E-05	3.044E-05	89	4.095	-2.125E-07	1.500E-07	-3.127E-08
41	1.050	3.044E-05	3.334E-05	3.189E-05	90	4.185	-1.282E-07	2.276E-07	4.970E-08
42	1.090	2.309E-05	2.571E-05	2.440E-05	91	4.275	-6.279E-08	2.377E-07	8.744E-08
43	1.130	2.158E-05	2.401E-05	2.280E-05	92	4.365	-6.144E-08	2.117E-07	7.511E-08
44	1.170	1.760E-05	1.982E-05	1.871E-05	93	4.455	-7.050E-08	1.870E-07	5.826E-08
45	1.210	8.777E-06	1.063E-05	9.704E-06	94	4.550	-1.209E-07	1.517E-07	1.537E-08
46	1.250	7.746E-06	1.021E-05	8.978E-06	95	4.650	-1.390E-07	9.163E-08	-2.370E-08
47	1.295	9.180E-06	1.095E-05	1.007E-05	96	4.750	-8.460E-08	8.139E-08	-1.603E-09
48	1.345	1.034E-05	1.249E-05	1.142E-05	97	4.850	3.311E-10	1.168E-07	5.856E-08
49	1.395	2.697E-05	2.955E-05	2.826E-05	98	4.950	5.323E-08	1.410E-07	9.710E-08



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 9950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-6.763E-05	-4.760E-05	-5.762E-05	50	1.445	1.991E-05	2.127E-05	2.059E-05
2	0.111	3.861E-05	4.869E-05	4.365E-05	51	1.495	9.076E-06	1.009E-05	9.585E-06
3	0.117	1.525E-04	1.909E-04	1.717E-04	52	1.545	3.918E-06	4.802E-06	4.360E-06
4	0.125	-4.679E-05	-3.108E-05	-3.894E-05	53	1.595	3.276E-06	4.187E-06	3.731E-06
5	0.135	-9.837E-05	-6.912E-05	-8.375E-05	54	1.645	3.465E-06	4.332E-06	3.898E-06
6	0.145	1.667E-04	2.081E-04	1.874E-04	55	1.695	2.643E-06	3.481E-06	3.062E-06
7	0.155	-4.834E-05	-2.775E-05	-3.805E-05	56	1.745	3.351E-06	4.253E-06	3.802E-06
8	0.165	2.516E-05	3.334E-05	2.925E-05	57	1.800	4.958E-06	5.914E-06	5.436E-06
9	0.175	5.232E-05	6.534E-05	5.883E-05	58	1.860	5.302E-06	6.251E-06	5.777E-06
10	0.185	1.961E-05	2.525E-05	2.243E-05	59	1.920	3.838E-06	4.712E-06	4.275E-06
11	0.200	2.717E-05	3.049E-05	2.883E-05	60	1.980	1.328E-06	2.073E-06	1.700E-06
12	0.220	2.119E-05	2.448E-05	2.284E-05	61	2.040	6.369E-07	1.349E-06	9.928E-07
13	0.240	1.956E-05	2.229E-05	2.092E-05	62	2.100	2.040E-06	2.831E-06	2.436E-06
14	0.260	2.029E-05	2.262E-05	2.145E-05	63	2.160	1.191E-06	1.949E-06	1.570E-06
15	0.280	1.645E-05	1.855E-05	1.750E-05	64	2.220	1.541E-06	2.252E-06	1.896E-06
16	0.300	1.485E-05	1.682E-05	1.584E-05	65	2.280	2.088E-06	2.833E-06	2.461E-06
17	0.320	1.383E-05	1.578E-05	1.481E-05	66	2.340	1.457E-06	2.161E-06	1.809E-06
18	0.340	9.640E-06	1.154E-05	1.059E-05	67	2.405	2.619E-06	3.395E-06	3.007E-06
19	0.360	6.136E-06	8.044E-06	7.090E-06	68	2.475	3.377E-06	4.101E-06	3.739E-06
20	0.380	9.445E-06	1.143E-05	1.044E-05	69	2.545	1.636E-06	2.267E-06	1.951E-06
21	0.400	1.789E-05	2.009E-05	1.899E-05	70	2.615	1.555E-06	2.139E-06	1.847E-06
22	0.420	2.250E-05	2.467E-05	2.359E-05	71	2.685	1.371E-06	1.911E-06	1.641E-06
23	0.445	2.053E-05	2.262E-05	2.157E-05	72	2.755	5.758E-07	1.009E-06	7.922E-07
24	0.475	1.606E-05	1.804E-05	1.705E-05	73	2.825	1.788E-07	5.582E-07	3.685E-07
25	0.505	1.475E-05	1.672E-05	1.573E-05	74	2.895	-8.100E-08	3.044E-07	1.117E-07
26	0.535	2.825E-05	3.033E-05	2.929E-05	75	2.965	-8.089E-08	2.678E-07	9.344E-08
27	0.565	2.520E-05	2.724E-05	2.622E-05	76	3.035	-1.929E-08	3.219E-07	1.513E-07
28	0.595	1.720E-05	1.910E-05	1.815E-05	77	3.110	5.435E-08	3.799E-07	2.171E-07
29	0.625	2.308E-05	2.511E-05	2.409E-05	78	3.190	1.479E-07	4.807E-07	3.143E-07
30	0.655	3.108E-05	3.313E-05	3.211E-05	79	3.270	9.413E-08	4.033E-07	2.487E-07
31	0.685	2.246E-05	2.431E-05	2.338E-05	80	3.350	-1.111E-08	2.841E-07	1.365E-07
32	0.715	1.386E-05	1.554E-05	1.470E-05	81	3.430	-3.426E-08	2.263E-07	9.601E-08
33	0.745	2.031E-05	2.208E-05	2.120E-05	82	3.510	7.629E-08	3.136E-07	1.950E-07
34	0.775	1.986E-05	2.165E-05	2.075E-05	83	3.590	6.744E-08	2.755E-07	1.715E-07
35	0.810	2.039E-05	2.234E-05	2.136E-05	84	3.670	-3.836E-08	2.037E-07	8.269E-08
36	0.850	4.892E-05	5.123E-05	5.007E-05	85	3.750	-2.001E-08	1.968E-07	8.837E-08
37	0.890	6.529E-05	6.769E-05	6.649E-05	86	3.830	1.792E-08	2.357E-07	1.268E-07
38	0.930	4.317E-05	4.517E-05	4.417E-05	87	3.915	4.000E-08	2.553E-07	1.476E-07
39	0.970	1.999E-05	2.158E-05	2.078E-05	88	4.005	2.739E-09	2.135E-07	1.081E-07
40	1.010	1.598E-05	1.755E-05	1.677E-05	89	4.095	-6.632E-08	1.545E-07	4.411E-08
41	1.050	1.621E-05	1.774E-05	1.697E-05	90	4.185	-1.207E-07	1.248E-07	2.044E-09
42	1.090	1.429E-05	1.573E-05	1.501E-05	91	4.275	-1.714E-07	8.829E-08	-4.158E-08
43	1.130	1.250E-05	1.382E-05	1.316E-05	92	4.365	-2.014E-07	3.088E-08	-8.525E-08
44	1.170	1.026E-05	1.145E-05	1.085E-05	93	4.455	-1.870E-07	1.209E-08	-8.743E-08
45	1.210	6.678E-06	7.716E-06	7.197E-06	94	4.550	-1.504E-07	5.824E-08	-4.610E-08
46	1.250	5.719E-06	7.063E-06	6.391E-06	95	4.650	-9.223E-08	1.224E-07	1.510E-08
47	1.295	5.012E-06	5.979E-06	5.496E-06	96	4.750	-2.980E-08	1.462E-07	5.819E-08
48	1.345	7.013E-06	8.211E-06	7.612E-06	97	4.850	2.701E-08	1.299E-07	7.845E-08
49	1.395	1.864E-05	2.008E-05	1.936E-05	98	4.950	4.959E-08	1.167E-07	8.314E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 14950 SEC

COUNTING TIME : 3000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	5.371E-06	1.764E-05	1.151E-05	50	1.445	1.040E-05	1.119E-05	1.079E-05
2	0.111	6.775E-06	1.264E-05	9.709E-06	51	1.495	3.839E-06	4.408E-06	4.124E-06
3	0.117	-3.399E-06	2.024E-05	8.418E-06	52	1.545	1.436E-06	1.938E-06	1.687E-06
4	0.125	4.960E-06	1.431E-05	9.633E-06	53	1.595	1.347E-06	1.872E-06	1.609E-06
5	0.135	3.322E-06	2.157E-05	1.244E-05	54	1.645	1.041E-06	1.535E-06	1.288E-06
6	0.145	4.925E-06	3.099E-05	1.796E-05	55	1.695	1.401E-06	1.914E-06	1.657E-06
7	0.155	1.377E-05	2.640E-05	2.009E-05	56	1.745	1.823E-06	2.373E-06	2.098E-06
8	0.165	1.758E-05	2.299E-05	2.028E-05	57	1.800	2.054E-06	2.616E-06	2.335E-06
9	0.175	1.529E-05	2.409E-05	1.969E-05	58	1.860	2.825E-06	3.401E-06	3.113E-06
10	0.185	1.276E-05	1.655E-05	1.465E-05	59	1.920	1.758E-06	2.276E-06	2.017E-06
11	0.200	1.059E-05	1.274E-05	1.166E-05	60	1.980	7.799E-07	1.247E-06	1.013E-06
12	0.220	1.204E-05	1.422E-05	1.313E-05	61	2.040	3.963E-07	8.336E-07	6.149E-07
13	0.240	1.589E-05	1.771E-05	1.680E-05	62	2.100	9.558E-07	1.441E-06	1.198E-06
14	0.260	1.589E-05	1.740E-05	1.664E-05	63	2.160	8.760E-07	1.341E-06	1.109E-06
15	0.280	1.028E-05	1.158E-05	1.093E-05	64	2.220	1.269E-06	1.715E-06	1.492E-06
16	0.300	7.454E-06	8.633E-06	8.043E-06	65	2.280	1.189E-06	1.638E-06	1.413E-06
17	0.320	5.541E-06	6.678E-06	6.110E-06	66	2.340	8.888E-07	1.319E-06	1.104E-06
18	0.340	4.065E-06	5.184E-06	4.624E-06	67	2.405	1.409E-06	1.880E-06	1.644E-06
19	0.360	3.413E-06	4.556E-06	3.985E-06	68	2.475	1.856E-06	2.299E-06	2.077E-06
20	0.380	4.809E-06	5.981E-06	5.395E-06	69	2.545	1.211E-06	1.605E-06	1.408E-06
21	0.400	7.690E-06	8.956E-06	8.323E-06	70	2.615	7.761E-07	1.115E-06	9.456E-07
22	0.420	9.727E-06	1.097E-05	1.035E-05	71	2.685	1.939E-07	4.725E-07	3.332E-07
23	0.445	8.745E-06	9.939E-06	9.342E-06	72	2.755	4.963E-08	3.337E-07	1.917E-07
24	0.475	4.737E-06	5.863E-06	5.300E-06	73	2.825	1.090E-07	3.714E-07	2.402E-07
25	0.505	8.990E-06	1.020E-05	9.594E-06	74	2.895	-7.562E-08	2.034E-07	6.388E-08
26	0.535	2.091E-05	2.223E-05	2.157E-05	75	2.965	-2.680E-08	2.196E-07	9.640E-08
27	0.565	1.776E-05	1.903E-05	1.839E-05	76	3.035	5.223E-09	2.823E-07	1.438E-07
28	0.595	8.524E-06	9.636E-06	9.080E-06	77	3.110	-1.712E-08	2.751E-07	1.290E-07
29	0.625	1.159E-05	1.279E-05	1.219E-05	78	3.190	-3.951E-08	2.197E-07	9.011E-08
30	0.655	1.980E-05	2.106E-05	2.043E-05	79	3.270	-9.110E-08	1.260E-07	1.744E-08
31	0.685	1.461E-05	1.576E-05	1.518E-05	80	3.350	-2.080E-08	1.621E-07	7.067E-08
32	0.715	9.267E-06	1.032E-05	9.793E-06	81	3.430	2.739E-09	2.001E-07	1.014E-07
33	0.745	1.437E-05	1.549E-05	1.493E-05	82	3.510	-1.586E-08	1.729E-07	7.851E-08
34	0.775	1.274E-05	1.381E-05	1.328E-05	83	3.590	-1.639E-08	1.775E-07	8.056E-08
35	0.810	8.370E-06	9.452E-06	8.911E-06	84	3.670	-2.187E-08	2.254E-07	1.018E-07
36	0.850	2.002E-05	2.129E-05	2.065E-05	85	3.750	-1.219E-08	1.458E-07	6.681E-08
37	0.890	2.710E-05	2.843E-05	2.777E-05	86	3.830	-4.687E-08	1.138E-07	3.348E-08
38	0.930	2.040E-05	2.157E-05	2.099E-05	87	3.915	-1.131E-08	1.478E-07	6.824E-08
39	0.970	1.166E-05	1.265E-05	1.216E-05	88	4.005	2.695E-08	2.112E-07	1.191E-07
40	1.010	8.767E-06	9.718E-06	9.242E-06	89	4.095	2.330E-08	2.269E-07	1.251E-07
41	1.050	8.960E-06	9.894E-06	9.427E-06	90	4.185	-2.750E-08	1.883E-07	8.041E-08
42	1.090	8.089E-06	8.964E-06	8.526E-06	91	4.275	-1.201E-07	9.545E-08	-1.232E-08
43	1.130	7.356E-06	8.163E-06	7.760E-06	92	4.365	-2.264E-07	-1.142E-08	-1.189E-07
44	1.170	5.579E-06	6.301E-06	5.940E-06	93	4.455	-3.172E-07	-5.961E-08	-1.884E-07
45	1.210	4.066E-06	4.709E-06	4.388E-06	94	4.550	-2.950E-07	-3.823E-08	-1.666E-07
46	1.250	4.254E-06	5.115E-06	4.685E-06	95	4.650	-1.541E-07	5.377E-08	-5.018E-08
47	1.295	3.731E-06	4.338E-06	4.034E-06	96	4.750	-3.635E-09	1.476E-07	7.200E-08
48	1.345	4.231E-06	4.957E-06	4.594E-06	97	4.850	5.136E-08	2.100E-07	1.307E-07
49	1.395	1.055E-05	1.142E-05	1.098E-05	98	4.950	5.111E-08	1.838E-07	1.175E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{235}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 21950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.753E-06	1.146E-05	7.608E-06	50	1.445	5.541E-06	6.045E-06	5.793E-06
2	0.111	3.512E-06	7.250E-06	5.381E-06	51	1.495	1.333E-06	1.651E-06	1.492E-06
3	0.117	-2.957E-06	1.196E-05	4.500E-06	52	1.545	6.747E-07	1.002E-06	8.382E-07
4	0.125	3.411E-06	9.292E-06	6.351E-06	53	1.595	7.019E-07	1.037E-06	8.694E-07
5	0.135	2.521E-06	1.438E-05	8.449E-06	54	1.645	6.797E-07	9.922E-07	8.359E-07
6	0.145	3.398E-06	2.033E-05	1.187E-05	55	1.695	1.031E-06	1.383E-06	1.207E-06
7	0.155	8.835E-06	1.699E-05	1.291E-05	56	1.745	1.259E-06	1.613E-06	1.436E-06
8	0.165	1.063E-05	1.448E-05	1.255E-05	57	1.800	1.310E-06	1.663E-06	1.486E-06
9	0.175	8.532E-06	1.471E-05	1.162E-05	58	1.860	1.153E-06	1.496E-06	1.324E-06
10	0.185	6.514E-06	9.191E-06	7.852E-06	59	1.920	6.672E-07	9.981E-07	8.326E-07
11	0.200	5.841E-06	7.390E-06	6.616E-06	60	1.980	1.103E-07	3.776E-07	2.440E-07
12	0.220	7.674E-06	9.303E-06	8.488E-06	61	2.040	4.805E-07	7.754E-07	6.279E-07
13	0.240	1.445E-05	1.585E-05	1.515E-05	62	2.100	2.682E-07	5.462E-07	4.072E-07
14	0.260	1.502E-05	1.616E-05	1.559E-05	63	2.160	3.031E-07	5.848E-07	4.440E-07
15	0.280	8.094E-06	9.022E-06	8.558E-06	64	2.220	7.307E-07	1.030E-06	8.801E-07
16	0.300	4.780E-06	5.585E-06	5.182E-06	65	2.280	3.778E-07	6.480E-07	5.129E-07
17	0.320	3.202E-06	3.963E-06	3.582E-06	66	2.340	3.489E-07	6.379E-07	4.934E-07
18	0.340	2.144E-06	2.884E-06	2.514E-06	67	2.405	1.273E-06	1.608E-06	1.441E-06
19	0.360	2.065E-06	2.820E-06	2.443E-06	68	2.475	1.224E-06	1.496E-06	1.360E-06
20	0.380	1.971E-06	2.721E-06	2.346E-06	69	2.545	5.388E-07	7.509E-07	6.449E-07
21	0.400	2.735E-06	3.523E-06	3.129E-06	70	2.615	1.165E-07	2.939E-07	2.052E-07
22	0.420	3.704E-06	4.481E-06	4.092E-06	71	2.685	-5.801E-08	1.925E-07	6.725E-08
23	0.445	3.142E-06	3.893E-06	3.518E-06	72	2.755	4.634E-08	2.255E-07	1.359E-07
24	0.475	1.342E-06	2.072E-06	1.707E-06	73	2.825	-3.083E-09	1.708E-07	8.386E-08
25	0.505	6.997E-06	7.834E-06	7.416E-06	74	2.895	-9.413E-08	7.013E-08	-1.200E-08
26	0.535	1.585E-05	1.679E-05	1.632E-05	75	2.965	-1.626E-07	-1.613E-08	-8.935E-08
27	0.565	1.379E-05	1.467E-05	1.423E-05	76	3.035	-1.526E-07	-6.728E-09	-7.966E-08
28	0.595	5.916E-06	6.651E-06	6.284E-06	77	3.110	-1.102E-07	5.399E-08	-2.810E-08
29	0.625	5.881E-06	6.643E-06	6.262E-06	78	3.190	-9.043E-08	5.894E-08	-1.574E-08
30	0.655	1.326E-05	1.411E-05	1.368E-05	79	3.270	-4.857E-08	1.594E-07	5.543E-08
31	0.685	1.105E-05	1.186E-05	1.146E-05	80	3.350	9.988E-09	2.300E-07	1.200E-07
32	0.715	6.884E-06	7.615E-06	7.249E-06	81	3.430	6.141E-08	2.243E-07	1.429E-07
33	0.745	1.097E-05	1.176E-05	1.137E-05	82	3.510	5.207E-08	1.778E-07	1.149E-07
34	0.775	1.011E-05	1.085E-05	1.048E-05	83	3.590	1.362E-09	1.079E-07	5.463E-08
35	0.810	5.937E-06	6.614E-06	6.275E-06	84	3.670	-3.294E-08	7.138E-08	1.922E-08
36	0.850	6.126E-06	6.814E-06	6.470E-06	85	3.750	-3.996E-08	6.821E-08	1.413E-08
37	0.890	8.051E-06	8.770E-06	8.410E-06	86	3.830	-4.512E-08	7.333E-08	1.411E-08
38	0.930	7.518E-06	8.216E-06	7.867E-06	87	3.915	-4.033E-08	8.296E-08	2.132E-08
39	0.970	5.529E-06	6.163E-06	5.846E-06	88	4.005	-2.613E-08	1.066E-07	4.025E-08
40	1.010	5.513E-06	6.172E-06	5.842E-06	89	4.095	-2.298E-08	1.161E-07	4.655E-08
41	1.050	6.307E-06	6.954E-06	6.630E-06	90	4.185	-4.526E-08	9.565E-08	2.520E-08
42	1.090	4.841E-06	5.421E-06	5.131E-06	91	4.275	-8.300E-08	6.634E-08	-8.332E-09
43	1.130	3.779E-06	4.296E-06	4.037E-06	92	4.365	-1.286E-07	2.827E-08	-5.015E-08
44	1.170	3.399E-06	3.879E-06	3.639E-06	93	4.455	-1.622E-07	-1.005E-08	-8.612E-08
45	1.210	2.053E-06	2.473E-06	2.263E-06	94	4.550	-1.412E-07	-8.010E-09	-7.459E-08
46	1.250	2.404E-06	2.980E-06	2.692E-06	95	4.650	-7.285E-08	4.494E-08	-1.396E-08
47	1.295	2.928E-06	3.355E-06	3.141E-06	96	4.750	-1.037E-08	9.960E-08	4.462E-08
48	1.345	3.214E-06	3.731E-06	3.473E-06	97	4.850	2.751E-08	1.184E-07	7.298E-08
49	1.395	6.743E-06	7.319E-06	7.031E-06	98	4.950	3.972E-08	9.594E-08	6.783E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>238</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 11 SEC

COUNTING TIME : 6 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.592E-02	1.430E-01	8.444E-02	50	1.445	9.611E-03	1.241E-02	1.101E-02
2	0.111	3.339E-02	1.704E-01	1.019E-01	51	1.495	7.720E-03	1.035E-02	9.035E-03
3	0.117	9.234E-03	1.726E-01	9.090E-02	52	1.545	5.562E-03	8.066E-03	6.814E-03
4	0.125	1.602E-02	1.052E-01	6.060E-02	53	1.595	3.619E-03	6.041E-03	4.830E-03
5	0.135	1.929E-02	7.191E-02	4.560E-02	54	1.645	2.912E-03	5.234E-03	4.073E-03
6	0.145	3.154E-03	8.931E-02	4.623E-02	55	1.695	3.930E-03	6.352E-03	5.141E-03
7	0.155	1.690E-02	5.610E-02	3.650E-02	56	1.745	2.679E-03	5.125E-03	3.902E-03
8	0.165	2.432E-02	4.398E-02	3.415E-02	57	1.800	3.208E-03	5.748E-03	4.478E-03
9	0.175	2.055E-02	5.159E-02	3.607E-02	58	1.860	4.310E-03	6.934E-03	5.622E-03
10	0.185	2.512E-02	3.873E-02	3.193E-02	59	1.920	3.170E-03	5.718E-03	4.444E-03
11	0.200	3.187E-02	4.009E-02	3.598E-02	60	1.980	5.129E-03	7.686E-03	6.408E-03
12	0.220	3.126E-02	3.946E-02	3.536E-02	61	2.040	5.175E-03	7.699E-03	6.437E-03
13	0.240	2.889E-02	3.570E-02	3.229E-02	62	2.100	2.214E-03	4.619E-03	3.417E-03
14	0.260	3.244E-02	3.830E-02	3.537E-02	63	2.160	2.817E-03	5.226E-03	4.021E-03
15	0.280	3.431E-02	3.967E-02	3.699E-02	64	2.220	4.176E-03	6.586E-03	5.381E-03
16	0.300	2.565E-02	3.046E-02	2.806E-02	65	2.280	2.859E-03	5.256E-03	4.058E-03
17	0.320	1.956E-02	2.410E-02	2.183E-02	66	2.340	1.568E-03	3.912E-03	2.740E-03
18	0.340	1.730E-02	2.179E-02	1.954E-02	67	2.405	4.184E-04	2.812E-03	1.615E-03
19	0.360	1.974E-02	2.442E-02	2.208E-02	68	2.475	5.373E-04	2.870E-03	1.704E-03
20	0.380	2.461E-02	2.938E-02	2.700E-02	69	2.545	1.684E-03	4.157E-03	2.921E-03
21	0.400	2.709E-02	3.203E-02	2.956E-02	70	2.615	2.260E-03	4.611E-03	3.435E-03
22	0.420	2.611E-02	3.073E-02	2.842E-02	71	2.685	1.375E-03	3.556E-03	2.466E-03
23	0.445	2.187E-02	2.627E-02	2.407E-02	72	2.755	1.337E-03	3.544E-03	2.441E-03
24	0.475	2.189E-02	2.621E-02	2.405E-02	73	2.825	9.113E-04	3.216E-03	2.064E-03
25	0.505	2.612E-02	3.051E-02	2.832E-02	74	2.895	6.872E-04	3.044E-03	1.866E-03
26	0.535	3.374E-02	3.815E-02	3.594E-02	75	2.965	9.909E-04	3.253E-03	2.122E-03
27	0.565	2.647E-02	3.066E-02	2.856E-02	76	3.035	1.844E-04	2.347E-03	1.266E-03
28	0.595	2.804E-02	3.210E-02	3.007E-02	77	3.110	-5.633E-04	1.332E-03	3.845E-04
29	0.625	2.154E-02	2.536E-02	2.345E-02	78	3.190	-9.201E-04	1.008E-03	4.377E-05
30	0.655	1.646E-02	1.999E-02	1.822E-02	79	3.270	-2.051E-04	1.651E-03	7.231E-04
31	0.685	1.496E-02	1.841E-02	1.669E-02	80	3.350	4.048E-04	2.311E-03	1.358E-03
32	0.715	1.364E-02	1.702E-02	1.533E-02	81	3.430	6.728E-04	2.418E-03	1.545E-03
33	0.745	1.343E-02	1.688E-02	1.516E-02	82	3.510	9.834E-04	2.487E-03	1.735E-03
34	0.775	1.578E-02	1.927E-02	1.753E-02	83	3.590	6.341E-04	2.114E-03	1.374E-03
35	0.810	1.710E-02	2.062E-02	1.886E-02	84	3.670	5.213E-04	1.931E-03	1.226E-03
36	0.850	1.312E-02	1.650E-02	1.481E-02	85	3.750	2.542E-04	1.543E-03	8.984E-04
37	0.890	1.296E-02	1.631E-02	1.464E-02	86	3.830	-1.659E-04	1.089E-03	4.615E-04
38	0.930	1.087E-02	1.423E-02	1.255E-02	87	3.915	-2.659E-04	9.361E-04	3.351E-04
39	0.970	1.524E-02	1.870E-02	1.697E-02	88	4.005	-1.981E-04	1.017E-03	4.097E-04
40	1.010	1.403E-02	1.752E-02	1.577E-02	89	4.095	2.912E-04	1.508E-03	8.996E-04
41	1.050	1.175E-02	1.498E-02	1.336E-02	90	4.185	3.831E-04	1.690E-03	1.036E-03
42	1.090	1.014E-02	1.318E-02	1.166E-02	91	4.275	-3.400E-05	1.263E-03	6.144E-04
43	1.130	1.202E-02	1.503E-02	1.353E-02	92	4.365	-5.211E-04	8.436E-04	1.612E-04
44	1.170	1.088E-02	1.370E-02	1.229E-02	93	4.455	-1.184E-03	1.758E-04	-5.040E-04
45	1.210	1.035E-02	1.304E-02	1.169E-02	94	4.550	-1.561E-03	-3.400E-04	-9.503E-04
46	1.250	1.050E-02	1.416E-02	1.233E-02	95	4.650	-1.100E-03	1.409E-04	-4.797E-04
47	1.295	9.586E-03	1.210E-02	1.084E-02	96	4.750	-2.249E-04	8.485E-04	3.118E-04
48	1.345	9.307E-03	1.209E-02	1.070E-02	97	4.850	4.842E-04	1.334E-03	9.089E-04
49	1.395	9.951E-03	1.279E-02	1.137E-02	98	4.950	8.104E-04	1.357E-03	1.084E-03

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 25 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.116E-02	9.728E-02	5.922E-02	50	1.445	8.154E-03	1.003E-02	9.093E-03
2	0.111	2.396E-02	1.137E-01	6.882E-02	51	1.495	5.495E-03	7.156E-03	6.325E-03
3	0.117	5.519E-03	1.116E-01	5.854E-02	52	1.545	4.881E-03	6.471E-03	5.676E-03
4	0.125	7.914E-03	6.581E-02	3.686E-02	53	1.595	2.786E-03	4.320E-03	3.553E-03
5	0.135	1.121E-02	4.521E-02	2.821E-02	54	1.645	2.685E-03	4.208E-03	3.446E-03
6	0.145	2.425E-03	5.814E-02	3.028E-02	55	1.695	3.019E-03	4.574E-03	3.797E-03
7	0.155	1.214E-02	3.755E-02	2.485E-02	56	1.745	2.535E-03	4.108E-03	3.321E-03
8	0.165	1.607E-02	2.842E-02	2.225E-02	57	1.800	3.044E-03	4.651E-03	3.847E-03
9	0.175	1.308E-02	3.269E-02	2.288E-02	58	1.860	1.928E-03	3.571E-03	2.750E-03
10	0.185	1.715E-02	2.571E-02	2.143E-02	59	1.920	1.323E-03	2.951E-03	2.137E-03
11	0.200	2.258E-02	2.773E-02	2.516E-02	60	1.980	3.247E-03	4.843E-03	4.045E-03
12	0.220	2.308E-02	2.819E-02	2.563E-02	61	2.040	1.805E-03	3.309E-03	2.557E-03
13	0.240	1.995E-02	2.413E-02	2.204E-02	62	2.100	2.190E-03	3.745E-03	2.967E-03
14	0.260	2.021E-02	2.376E-02	2.199E-02	63	2.160	2.162E-03	3.731E-03	2.947E-03
15	0.280	2.081E-02	2.405E-02	2.243E-02	64	2.220	7.490E-04	2.134E-03	1.441E-03
16	0.300	1.607E-02	1.901E-02	1.754E-02	65	2.280	9.874E-04	2.508E-03	1.748E-03
17	0.320	1.345E-02	1.627E-02	1.486E-02	66	2.340	2.072E-03	3.720E-03	2.896E-03
18	0.340	1.360E-02	1.645E-02	1.503E-02	67	2.405	2.389E-03	4.086E-03	3.237E-03
19	0.360	1.468E-02	1.763E-02	1.615E-02	68	2.475	1.694E-03	3.190E-03	2.442E-03
20	0.380	1.692E-02	1.989E-02	1.841E-02	69	2.545	1.326E-03	2.830E-03	2.078E-03
21	0.400	1.945E-02	2.254E-02	2.100E-02	70	2.615	1.190E-03	2.605E-03	1.898E-03
22	0.420	1.757E-02	2.041E-02	1.899E-02	71	2.685	2.097E-03	3.684E-03	2.890E-03
23	0.445	1.316E-02	1.580E-02	1.448E-02	72	2.755	1.355E-03	2.924E-03	2.139E-03
24	0.475	1.158E-02	1.414E-02	1.286E-02	73	2.825	1.191E-03	2.771E-03	1.981E-03
25	0.505	1.294E-02	1.553E-02	1.424E-02	74	2.895	6.671E-04	2.198E-03	1.433E-03
26	0.535	1.913E-02	2.178E-02	2.046E-02	75	2.965	1.592E-04	1.475E-03	8.172E-04
27	0.565	1.875E-02	2.138E-02	2.006E-02	76	3.035	6.832E-04	1.992E-03	1.337E-03
28	0.595	1.764E-02	2.014E-02	1.889E-02	77	3.110	-1.067E-04	1.223E-03	5.582E-04
29	0.625	1.335E-02	1.571E-02	1.453E-02	78	3.190	-1.028E-03	4.449E-04	-2.916E-04
30	0.655	1.052E-02	1.275E-02	1.163E-02	79	3.270	-7.910E-04	6.434E-04	-7.381E-05
31	0.685	1.102E-02	1.324E-02	1.213E-02	80	3.350	-6.763E-04	6.413E-04	-1.750E-05
32	0.715	1.105E-02	1.325E-02	1.215E-02	81	3.430	-3.479E-04	8.079E-04	2.300E-04
33	0.745	9.686E-03	1.187E-02	1.078E-02	82	3.510	-1.304E-04	7.197E-04	2.946E-04
34	0.775	9.407E-03	1.156E-02	1.048E-02	83	3.590	-1.097E-04	9.078E-04	3.991E-04
35	0.810	1.047E-02	1.266E-02	1.156E-02	84	3.670	4.280E-04	1.427E-03	9.276E-04
36	0.850	8.118E-03	1.024E-02	9.178E-03	85	3.750	1.009E-03	1.989E-03	1.499E-03
37	0.890	7.880E-03	9.976E-03	8.928E-03	86	3.830	7.393E-04	1.632E-03	1.186E-03
38	0.930	8.881E-03	1.107E-02	9.977E-03	87	3.915	2.236E-04	1.021E-03	6.223E-04
39	0.970	7.853E-03	9.992E-03	8.923E-03	88	4.005	-1.473E-04	7.132E-04	2.830E-04
40	1.010	1.152E-02	1.381E-02	1.267E-02	89	4.095	2.383E-05	8.326E-04	4.282E-04
41	1.050	8.665E-03	1.074E-02	9.702E-03	90	4.185	1.694E-05	1.089E-03	5.528E-04
42	1.090	7.095E-03	9.031E-03	8.063E-03	91	4.275	-3.408E-04	8.999E-04	2.795E-04
43	1.130	6.800E-03	8.671E-03	7.735E-03	92	4.365	-6.363E-04	6.053E-04	-1.547E-05
44	1.170	7.708E-03	9.546E-03	8.627E-03	93	4.455	-8.422E-04	9.046E-05	-3.759E-04
45	1.210	8.563E-03	1.036E-02	9.462E-03	94	4.550	-1.125E-03	3.524E-05	-5.448E-04
46	1.250	8.628E-03	1.107E-02	9.846E-03	95	4.650	-9.779E-04	4.693E-04	-2.543E-04
47	1.295	9.254E-03	1.098E-02	1.012E-02	96	4.750	-4.683E-04	7.644E-04	1.480E-04
48	1.345	7.537E-03	9.365E-03	8.451E-03	97	4.850	2.103E-04	8.624E-04	5.364E-04
49	1.395	6.982E-03	8.789E-03	7.885E-03	98	4.950	4.572E-04	9.949E-04	7.261E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 45 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.908E-02	6.516E-02	4.212E-02	50	1.445	3.786E-03	5.210E-03	4.498E-03
2	0.111	1.556E-02	7.042E-02	4.299E-02	51	1.495	4.291E-03	5.678E-03	4.984E-03
3	0.117	-5.375E-05	6.347E-02	3.171E-02	52	1.545	3.415E-03	4.716E-03	4.066E-03
4	0.125	1.466E-03	3.629E-02	1.888E-02	53	1.595	2.420E-03	3.681E-03	3.051E-03
5	0.135	4.780E-03	2.606E-02	1.542E-02	54	1.645	1.291E-03	2.459E-03	1.875E-03
6	0.145	-3.485E-03	3.126E-02	1.389E-02	55	1.695	1.294E-03	2.475E-03	1.884E-03
7	0.155	5.668E-03	2.123E-02	1.345E-02	56	1.745	1.505E-03	2.717E-03	2.111E-03
8	0.165	8.578E-03	1.772E-02	1.315E-02	57	1.800	1.241E-03	2.513E-03	1.877E-03
9	0.175	4.602E-03	1.881E-02	1.171E-02	58	1.860	3.596E-04	1.564E-03	9.616E-04
10	0.185	9.485E-03	1.584E-02	1.266E-02	59	1.920	1.183E-03	2.458E-03	1.820E-03
11	0.200	1.296E-02	1.695E-02	1.495E-02	60	1.980	1.560E-03	2.816E-03	2.188E-03
12	0.220	1.510E-02	1.910E-02	1.710E-02	61	2.040	2.060E-03	3.287E-03	2.673E-03
13	0.240	1.209E-02	1.533E-02	1.371E-02	62	2.100	2.343E-03	3.656E-03	2.999E-03
14	0.260	1.042E-02	1.316E-02	1.179E-02	63	2.160	1.458E-03	2.655E-03	2.057E-03
15	0.280	1.138E-02	1.390E-02	1.264E-02	64	2.220	1.133E-03	2.263E-03	1.698E-03
16	0.300	9.887E-03	1.223E-02	1.106E-02	65	2.280	1.147E-03	2.377E-03	1.762E-03
17	0.320	8.674E-03	1.095E-02	9.814E-03	66	2.340	1.087E-03	2.295E-03	1.691E-03
18	0.340	9.242E-03	1.155E-02	1.040E-02	67	2.405	6.265E-04	1.787E-03	1.207E-03
19	0.360	1.050E-02	1.292E-02	1.171E-02	68	2.475	4.236E-04	1.538E-03	9.808E-04
20	0.380	1.235E-02	1.481E-02	1.358E-02	69	2.545	5.077E-05	1.087E-03	5.688E-04
21	0.400	1.341E-02	1.594E-02	1.467E-02	70	2.615	9.057E-04	1.995E-03	1.450E-03
22	0.420	1.203E-02	1.431E-02	1.317E-02	71	2.685	-4.454E-06	9.934E-04	4.945E-04
23	0.445	8.252E-03	1.033E-02	9.293E-03	72	2.755	4.296E-04	1.527E-03	9.785E-04
24	0.475	5.781E-03	7.756E-03	6.768E-03	73	2.825	1.209E-03	2.337E-03	1.773E-03
25	0.505	7.750E-03	9.776E-03	8.763E-03	74	2.895	3.644E-04	1.394E-03	8.793E-04
26	0.535	9.881E-03	1.192E-02	1.090E-02	75	2.965	2.711E-04	1.248E-03	7.594E-04
27	0.565	9.825E-03	1.186E-02	1.084E-02	76	3.035	9.848E-05	1.074E-03	5.862E-04
28	0.595	1.112E-02	1.313E-02	1.212E-02	77	3.110	-4.537E-04	3.559E-04	-4.887E-05
29	0.625	9.087E-03	1.099E-02	1.004E-02	78	3.190	-4.008E-04	5.187E-04	5.897E-05
30	0.655	5.890E-03	7.638E-03	6.764E-03	79	3.270	9.537E-05	9.755E-04	5.354E-04
31	0.685	6.850E-03	8.611E-03	7.730E-03	80	3.350	1.992E-04	1.048E-03	6.238E-04
32	0.715	6.670E-03	8.415E-03	7.542E-03	81	3.430	-2.663E-05	6.767E-04	3.250E-04
33	0.745	5.958E-03	7.691E-03	6.824E-03	82	3.510	6.826E-05	7.660E-04	4.171E-04
34	0.775	5.977E-03	7.693E-03	6.835E-03	83	3.590	1.476E-04	8.488E-04	4.982E-04
35	0.810	6.486E-03	8.263E-03	7.374E-03	84	3.670	5.378E-05	7.278E-04	3.908E-04
36	0.850	6.644E-03	8.414E-03	7.529E-03	85	3.750	-2.370E-05	6.425E-04	3.331E-04
37	0.890	6.118E-03	7.860E-03	6.989E-03	86	3.830	6.796E-07	5.994E-04	3.000E-04
38	0.930	6.122E-03	7.881E-03	7.002E-03	87	3.915	-1.559E-04	4.550E-04	1.495E-04
39	0.970	5.667E-03	7.362E-03	6.514E-03	88	4.005	-1.884E-04	3.935E-04	1.025E-04
40	1.010	5.061E-03	6.780E-03	5.920E-03	89	4.095	1.018E-04	6.441E-04	3.730E-04
41	1.050	3.689E-03	5.253E-03	4.471E-03	90	4.185	2.164E-04	7.891E-04	5.027E-04
42	1.090	3.302E-03	4.846E-03	4.074E-03	91	4.275	-8.763E-05	5.203E-04	2.163E-04
43	1.130	5.197E-03	6.739E-03	5.968E-03	92	4.365	-3.133E-04	2.527E-04	-3.028E-05
44	1.170	5.080E-03	6.523E-03	5.802E-03	93	4.455	-4.541E-04	6.868E-05	-1.927E-04
45	1.210	3.896E-03	5.236E-03	4.566E-03	94	4.550	-5.188E-04	-2.450E-05	-2.717E-04
46	1.250	3.127E-03	4.987E-03	4.057E-03	95	4.650	-3.461E-04	1.791E-04	-8.348E-05
47	1.295	4.897E-03	6.237E-03	5.567E-03	96	4.750	-5.961E-05	3.747E-04	1.575E-04
48	1.345	6.061E-03	7.561E-03	6.811E-03	97	4.850	1.717E-04	4.397E-04	3.057E-04
49	1.395	4.235E-03	5.639E-03	4.937E-03	98	4.950	2.382E-04	4.578E-04	3.480E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 75 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.439E-02	3.973E-02	2.706E-02	50	1.445	3.043E-03	3.844E-03	3.444E-03
2	0.111	1.116E-02	4.194E-02	2.655E-02	51	1.495	2.088E-03	2.789E-03	2.439E-03
3	0.117	2.999E-04	3.496E-02	1.763E-02	52	1.545	1.813E-03	2.507E-03	2.160E-03
4	0.125	-1.758E-03	1.731E-02	7.774E-03	53	1.595	1.187E-03	1.847E-03	1.517E-03
5	0.135	9.343E-04	1.221E-02	6.571E-03	54	1.645	1.320E-03	1.992E-03	1.656E-03
6	0.145	-1.719E-03	1.681E-02	7.547E-03	55	1.695	1.350E-03	2.004E-03	1.677E-03
7	0.155	1.822E-03	1.009E-02	5.955E-03	56	1.745	6.367E-04	1.269E-03	9.527E-04
8	0.165	3.776E-03	8.695E-03	6.236E-03	57	1.800	9.393E-04	1.610E-03	1.275E-03
9	0.175	3.549E-03	1.121E-02	7.380E-03	58	1.860	6.835E-04	1.366E-03	1.025E-03
10	0.185	5.692E-03	9.112E-03	7.402E-03	59	1.920	8.088E-04	1.494E-03	1.151E-03
11	0.200	8.121E-03	1.026E-02	9.193E-03	60	1.980	9.039E-04	1.567E-03	1.236E-03
12	0.220	8.375E-03	1.051E-02	9.442E-03	61	2.040	1.011E-03	1.647E-03	1.329E-03
13	0.240	6.842E-03	8.588E-03	7.715E-03	62	2.100	1.006E-03	1.667E-03	1.336E-03
14	0.260	6.101E-03	7.573E-03	6.837E-03	63	2.160	7.271E-04	1.367E-03	1.047E-03
15	0.280	7.190E-03	8.565E-03	7.878E-03	64	2.220	5.557E-04	1.155E-03	8.552E-04
16	0.300	6.406E-03	7.680E-03	7.043E-03	65	2.280	5.487E-04	1.147E-03	8.480E-04
17	0.320	5.038E-03	6.259E-03	5.649E-03	66	2.340	7.921E-04	1.432E-03	1.112E-03
18	0.340	5.342E-03	6.589E-03	5.966E-03	67	2.405	6.485E-04	1.312E-03	9.804E-04
19	0.360	6.295E-03	7.612E-03	6.954E-03	68	2.475	8.557E-04	1.477E-03	1.166E-03
20	0.380	8.194E-03	9.550E-03	8.872E-03	69	2.545	3.234E-04	8.783E-04	6.008E-04
21	0.400	8.891E-03	1.027E-02	9.583E-03	70	2.615	-6.656E-05	4.325E-04	1.830E-04
22	0.420	7.336E-03	8.569E-03	7.952E-03	71	2.685	4.013E-04	9.690E-04	6.852E-04
23	0.445	4.786E-03	5.902E-03	5.344E-03	72	2.755	1.677E-04	6.802E-04	4.240E-04
24	0.475	3.492E-03	4.547E-03	4.019E-03	73	2.825	4.165E-04	9.580E-04	6.873E-04
25	0.505	3.491E-03	4.544E-03	4.017E-03	74	2.895	2.783E-04	8.194E-04	5.488E-04
26	0.535	4.927E-03	5.997E-03	5.462E-03	75	2.965	1.638E-06	4.877E-04	2.447E-04
27	0.565	6.108E-03	7.213E-03	6.661E-03	76	3.035	1.457E-04	6.631E-04	4.044E-04
28	0.595	6.281E-03	7.355E-03	6.818E-03	77	3.110	1.658E-04	6.507E-04	4.083E-04
29	0.625	4.433E-03	5.435E-03	4.934E-03	78	3.190	-1.405E-04	3.120E-04	8.576E-05
30	0.655	3.234E-03	4.180E-03	3.707E-03	79	3.270	-2.579E-04	1.663E-04	-4.579E-05
31	0.685	3.896E-03	4.864E-03	4.380E-03	80	3.350	-1.644E-04	2.301E-04	3.284E-05
32	0.715	5.053E-03	6.044E-03	5.548E-03	81	3.430	-1.225E-04	2.425E-04	5.998E-05
33	0.745	3.616E-03	4.566E-03	4.091E-03	82	3.510	1.841E-05	3.951E-04	2.068E-04
34	0.775	3.292E-03	4.225E-03	3.759E-03	83	3.590	1.527E-04	5.276E-04	3.401E-04
35	0.810	4.476E-03	5.464E-03	4.970E-03	84	3.670	1.334E-04	4.797E-04	3.066E-04
36	0.850	4.270E-03	5.240E-03	4.755E-03	85	3.750	8.400E-05	3.714E-04	2.277E-04
37	0.890	3.299E-03	4.237E-03	3.768E-03	86	3.830	8.933E-05	3.912E-04	2.403E-04
38	0.930	4.409E-03	5.415E-03	4.912E-03	87	3.915	2.311E-05	3.170E-04	1.701E-04
39	0.970	4.869E-03	5.844E-03	5.356E-03	88	4.005	-6.936E-05	2.162E-04	7.343E-05
40	1.010	4.173E-03	5.148E-03	4.660E-03	89	4.095	1.080E-05	2.725E-04	1.416E-04
41	1.050	2.405E-03	3.279E-03	2.842E-03	90	4.185	3.601E-05	3.012E-04	1.686E-04
42	1.090	3.340E-03	4.219E-03	3.779E-03	91	4.275	-2.812E-05	2.136E-04	9.272E-05
43	1.130	3.303E-03	4.130E-03	3.717E-03	92	4.365	-5.970E-05	1.896E-04	6.495E-05
44	1.170	2.560E-03	3.312E-03	2.936E-03	93	4.455	-1.014E-04	1.614E-04	2.997E-05
45	1.210	1.921E-03	2.625E-03	2.273E-03	94	4.550	-1.317E-04	8.183E-05	-2.495E-05
46	1.250	1.771E-03	2.749E-03	2.260E-03	95	4.650	-1.217E-04	8.179E-05	-1.995E-05
47	1.295	3.228E-03	3.966E-03	3.597E-03	96	4.750	-5.240E-05	1.096E-04	2.862E-05
48	1.345	3.112E-03	3.900E-03	3.506E-03	97	4.850	3.634E-05	1.559E-04	9.612E-05
49	1.395	2.665E-03	3.452E-03	3.059E-03	98	4.950	9.554E-05	1.816E-04	1.386E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>238</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 115 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.234E-02	2.798E-02	2.016E-02	50	1.445	1.678E-03	2.101E-03	1.890E-03
2	0.111	8.603E-03	2.794E-02	1.827E-02	51	1.495	1.479E-03	1.867E-03	1.673E-03
3	0.117	2.552E-05	2.130E-02	1.066E-02	52	1.545	1.139E-03	1.502E-03	1.321E-03
4	0.125	-2.035E-03	9.682E-03	3.824E-03	53	1.595	6.415E-04	9.857E-04	8.136E-04
5	0.135	6.718E-04	7.324E-03	3.998E-03	54	1.645	7.135E-04	1.054E-03	8.835E-04
6	0.145	-7.606E-04	1.024E-02	4.738E-03	55	1.695	6.652E-04	1.003E-03	8.339E-04
7	0.155	1.220E-03	6.126E-03	3.673E-03	56	1.745	4.561E-04	7.868E-04	6.215E-04
8	0.165	2.486E-03	5.229E-03	3.858E-03	57	1.800	7.769E-04	1.143E-03	9.599E-04
9	0.175	2.381E-03	6.687E-03	4.534E-03	58	1.860	6.416E-04	1.003E-03	8.222E-04
10	0.185	3.739E-03	5.643E-03	4.691E-03	59	1.920	5.193E-04	8.683E-04	6.938E-04
11	0.200	5.103E-03	6.274E-03	5.688E-03	60	1.980	5.600E-04	8.875E-04	7.237E-04
12	0.220	4.880E-03	6.037E-03	5.458E-03	61	2.040	4.263E-04	7.408E-04	5.835E-04
13	0.240	3.838E-03	4.784E-03	4.311E-03	62	2.100	3.224E-04	6.452E-04	4.838E-04
14	0.260	3.666E-03	4.469E-03	4.067E-03	63	2.160	3.370E-04	6.592E-04	4.981E-04
15	0.280	4.089E-03	4.837E-03	4.463E-03	64	2.220	1.006E-04	3.850E-04	2.428E-04
16	0.300	4.200E-03	4.911E-03	4.556E-03	65	2.280	1.445E-04	4.641E-04	3.043E-04
17	0.320	4.016E-03	4.717E-03	4.366E-03	66	2.340	1.904E-04	5.115E-04	3.510E-04
18	0.340	4.192E-03	4.898E-03	4.545E-03	67	2.405	2.889E-04	6.272E-04	4.580E-04
19	0.360	4.094E-03	4.812E-03	4.453E-03	68	2.475	3.155E-04	6.348E-04	4.752E-04
20	0.380	3.917E-03	4.620E-03	4.268E-03	69	2.545	2.282E-04	5.345E-04	3.813E-04
21	0.400	4.210E-03	4.937E-03	4.574E-03	70	2.615	3.437E-04	6.430E-04	4.933E-04
22	0.420	4.377E-03	5.060E-03	4.718E-03	71	2.685	2.596E-04	5.716E-04	4.156E-04
23	0.445	3.610E-03	4.242E-03	3.926E-03	72	2.755	1.491E-04	4.603E-04	3.047E-04
24	0.475	2.510E-03	3.100E-03	2.805E-03	73	2.825	1.984E-04	5.011E-04	3.497E-04
25	0.505	2.379E-03	2.952E-03	2.665E-03	74	2.895	2.017E-04	5.089E-04	3.553E-04
26	0.535	2.261E-03	2.820E-03	2.540E-03	75	2.965	9.241E-05	3.596E-04	2.260E-04
27	0.565	3.453E-03	4.046E-03	3.749E-03	76	3.035	-4.501E-05	1.978E-04	7.641E-05
28	0.595	4.094E-03	4.690E-03	4.392E-03	77	3.110	-1.553E-04	7.361E-05	-4.085E-05
29	0.625	3.031E-03	3.593E-03	3.312E-03	78	3.190	-6.177E-05	2.056E-04	7.190E-05
30	0.655	2.238E-03	2.769E-03	2.503E-03	79	3.270	8.124E-05	3.532E-04	2.172E-04
31	0.685	2.673E-03	3.217E-03	2.945E-03	80	3.350	4.033E-05	2.832E-04	1.618E-04
32	0.715	3.418E-03	3.975E-03	3.697E-03	81	3.430	-5.396E-05	1.612E-04	5.363E-05
33	0.745	2.763E-03	3.292E-03	3.028E-03	82	3.510	-4.616E-05	1.342E-04	4.401E-05
34	0.775	1.661E-03	2.152E-03	1.907E-03	83	3.590	-1.498E-05	1.743E-04	7.964E-05
35	0.810	2.019E-03	2.529E-03	2.274E-03	84	3.670	-1.827E-06	1.670E-04	8.256E-05
36	0.850	2.066E-03	2.583E-03	2.324E-03	85	3.750	1.842E-05	1.886E-04	1.035E-04
37	0.890	2.230E-03	2.751E-03	2.490E-03	86	3.830	5.285E-06	1.748E-04	9.002E-05
38	0.930	2.274E-03	2.807E-03	2.541E-03	87	3.915	1.216E-05	1.760E-04	9.406E-05
39	0.970	2.765E-03	3.303E-03	3.034E-03	88	4.005	6.696E-05	2.385E-04	1.527E-04
40	1.010	3.085E-03	3.645E-03	3.365E-03	89	4.095	5.867E-05	2.196E-04	1.391E-04
41	1.050	2.062E-03	2.553E-03	2.308E-03	90	4.185	4.120E-06	1.902E-04	9.715E-05
42	1.090	2.039E-03	2.516E-03	2.278E-03	91	4.275	-5.582E-05	1.624E-04	5.327E-05
43	1.130	1.912E-03	2.360E-03	2.136E-03	92	4.365	-1.061E-04	1.018E-04	-2.150E-06
44	1.170	1.812E-03	2.231E-03	2.021E-03	93	4.455	-1.625E-04	1.308E-05	-7.472E-05
45	1.210	1.506E-03	1.901E-03	1.703E-03	94	4.550	-2.071E-04	-9.748E-06	-1.084E-04
46	1.250	1.664E-03	2.211E-03	1.937E-03	95	4.650	-1.633E-04	6.282E-05	-5.025E-05
47	1.295	2.003E-03	2.401E-03	2.202E-03	96	4.750	-6.078E-05	1.301E-04	3.467E-05
48	1.345	2.179E-03	2.621E-03	2.400E-03	97	4.850	4.297E-05	1.509E-04	9.694E-05
49	1.395	1.756E-03	2.178E-03	1.967E-03	98	4.950	6.622E-05	1.658E-04	1.160E-04



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 195 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.095E-02	1.986E-02	1.540E-02	50	1.445	8.684E-04	1.126E-03	9.974E-04
2	0.111	6.975E-03	1.813E-02	1.255E-02	51	1.495	8.000E-04	1.032E-03	9.158E-04
3	0.117	1.271E-04	1.216E-02	6.144E-03	52	1.545	5.133E-04	7.160E-04	6.146E-04
4	0.125	-1.970E-03	4.626E-03	1.328E-03	53	1.595	3.643E-04	5.774E-04	4.709E-04
5	0.135	1.778E-04	4.122E-03	2.150E-03	54	1.645	2.976E-04	4.956E-04	3.966E-04
6	0.145	-2.428E-05	6.452E-03	3.214E-03	55	1.695	3.850E-04	5.864E-04	4.857E-04
7	0.155	9.134E-04	3.817E-03	2.365E-03	56	1.745	3.294E-04	5.354E-04	4.324E-04
8	0.165	1.641E-03	3.296E-03	2.469E-03	57	1.800	2.922E-04	4.988E-04	3.955E-04
9	0.175	1.641E-03	4.217E-03	2.929E-03	58	1.860	2.465E-04	4.533E-04	3.499E-04
10	0.185	2.025E-03	3.168E-03	2.597E-03	59	1.920	2.435E-04	4.429E-04	3.432E-04
11	0.200	2.774E-03	3.478E-03	3.126E-03	60	1.980	1.412E-04	3.226E-04	2.319E-04
12	0.220	2.387E-03	3.082E-03	2.735E-03	61	2.040	1.127E-04	2.925E-04	2.026E-04
13	0.240	1.879E-03	2.450E-03	2.165E-03	62	2.100	1.819E-04	3.818E-04	2.818E-04
14	0.260	1.763E-03	2.250E-03	2.007E-03	63	2.160	1.828E-04	3.763E-04	2.795E-04
15	0.280	2.256E-03	2.720E-03	2.488E-03	64	2.220	1.670E-04	3.553E-04	2.612E-04
16	0.300	2.686E-03	3.139E-03	2.912E-03	65	2.280	2.122E-04	4.018E-04	3.070E-04
17	0.320	2.761E-03	3.210E-03	2.986E-03	66	2.340	1.488E-04	3.340E-04	2.414E-04
18	0.340	2.398E-03	2.835E-03	2.616E-03	67	2.405	7.288E-05	2.582E-04	1.655E-04
19	0.360	2.120E-03	2.553E-03	2.337E-03	68	2.475	1.591E-04	3.355E-04	2.473E-04
20	0.380	1.756E-03	2.171E-03	1.963E-03	69	2.545	5.920E-05	2.221E-04	1.407E-04
21	0.400	1.627E-03	2.050E-03	1.839E-03	70	2.615	1.893E-04	3.675E-04	2.784E-04
22	0.420	1.819E-03	2.233E-03	2.026E-03	71	2.685	1.978E-04	3.674E-04	2.826E-04
23	0.445	2.229E-03	2.634E-03	2.432E-03	72	2.755	1.093E-04	2.674E-04	1.884E-04
24	0.475	1.633E-03	2.008E-03	1.821E-03	73	2.825	1.648E-04	3.224E-04	2.436E-04
25	0.505	1.204E-03	1.558E-03	1.381E-03	74	2.895	1.775E-04	3.375E-04	2.575E-04
26	0.535	1.249E-03	1.595E-03	1.422E-03	75	2.965	-6.086E-07	1.283E-04	6.385E-05
27	0.565	1.610E-03	1.968E-03	1.789E-03	76	3.035	-1.199E-04	1.179E-06	-5.934E-05
28	0.595	1.888E-03	2.249E-03	2.069E-03	77	3.110	-7.287E-05	5.215E-05	-1.036E-05
29	0.625	2.016E-03	2.380E-03	2.198E-03	78	3.190	-3.964E-05	1.019E-04	3.111E-05
30	0.655	1.579E-03	1.920E-03	1.750E-03	79	3.270	-7.411E-05	4.282E-05	-1.564E-05
31	0.685	1.352E-03	1.687E-03	1.520E-03	80	3.350	-6.374E-05	5.237E-05	-5.686E-06
32	0.715	2.096E-03	2.449E-03	2.272E-03	81	3.430	-3.165E-05	8.875E-05	2.855E-05
33	0.745	1.766E-03	2.105E-03	1.935E-03	82	3.510	1.807E-06	1.143E-04	5.803E-05
34	0.775	1.213E-03	1.529E-03	1.371E-03	83	3.590	4.684E-05	1.591E-04	1.030E-04
35	0.810	1.357E-03	1.689E-03	1.523E-03	84	3.670	5.894E-05	1.746E-04	1.168E-04
36	0.850	1.790E-03	2.131E-03	1.960E-03	85	3.750	1.053E-05	1.080E-04	5.929E-05
37	0.890	1.709E-03	2.043E-03	1.876E-03	86	3.830	-3.744E-05	4.882E-05	5.689E-06
38	0.930	1.424E-03	1.756E-03	1.590E-03	87	3.915	-3.848E-05	4.520E-05	3.362E-06
39	0.970	1.724E-03	2.057E-03	1.891E-03	88	4.005	-1.851E-05	6.124E-05	2.137E-05
40	1.010	1.922E-03	2.260E-03	2.091E-03	89	4.095	-9.095E-06	8.002E-05	3.546E-05
41	1.050	1.280E-03	1.585E-03	1.432E-03	90	4.185	1.753E-05	9.838E-05	5.796E-05
42	1.090	9.869E-04	1.266E-03	1.127E-03	91	4.275	1.757E-05	9.345E-05	5.551E-05
43	1.130	1.165E-03	1.443E-03	1.304E-03	92	4.365	2.383E-06	7.066E-05	3.652E-05
44	1.170	9.857E-04	1.233E-03	1.109E-03	93	4.455	-1.485E-05	4.545E-05	1.530E-05
45	1.210	7.808E-04	1.015E-03	8.980E-04	94	4.550	-3.656E-05	2.134E-05	-7.610E-06
46	1.250	4.968E-04	8.037E-04	6.503E-04	95	4.650	-3.687E-05	1.993E-05	-8.474E-06
47	1.295	8.710E-04	1.098E-03	9.846E-04	96	4.750	-1.466E-05	3.186E-05	8.600E-06
48	1.345	9.699E-04	1.224E-03	1.097E-03	97	4.850	7.007E-06	3.767E-05	2.234E-05
49	1.395	8.785E-04	1.127E-03	1.003E-03	98	4.950	1.894E-05	4.042E-05	2.968E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>238</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 315 SEC

COUNTING TIME : 80 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.111E-02	1.652E-02	1.382E-02	50	1.445	4.854E-04	6.538E-04	5.696E-04
2	0.111	6.466E-03	1.321E-02	9.840E-03	51	1.495	3.078E-04	4.557E-04	3.817E-04
3	0.117	9.445E-05	7.337E-03	3.716E-03	52	1.545	3.086E-04	4.523E-04	3.804E-04
4	0.125	-1.712E-03	2.223E-03	2.555E-04	53	1.595	1.759E-04	3.137E-04	2.448E-04
5	0.135	1.457E-04	2.711E-03	1.428E-03	54	1.645	2.565E-04	3.905E-04	3.235E-04
6	0.145	-1.641E-05	4.152E-03	2.068E-03	55	1.695	2.348E-04	3.742E-04	3.045E-04
7	0.155	6.310E-04	2.506E-03	1.568E-03	56	1.745	1.709E-04	2.997E-04	2.353E-04
8	0.165	1.156E-03	2.283E-03	1.719E-03	57	1.800	1.818E-04	3.121E-04	2.470E-04
9	0.175	1.039E-03	2.777E-03	1.908E-03	58	1.860	3.001E-05	1.536E-04	9.179E-05
10	0.185	1.336E-03	2.115E-03	1.726E-03	59	1.920	1.097E-04	2.401E-04	1.749E-04
11	0.200	1.642E-03	2.127E-03	1.885E-03	60	1.980	1.620E-04	2.915E-04	2.267E-04
12	0.220	1.407E-03	1.890E-03	1.648E-03	61	2.040	1.526E-04	2.804E-04	2.165E-04
13	0.240	1.194E-03	1.596E-03	1.395E-03	62	2.100	1.208E-04	2.485E-04	1.846E-04
14	0.260	1.240E-03	1.586E-03	1.413E-03	63	2.160	-3.013E-05	8.002E-05	2.494E-05
15	0.280	1.474E-03	1.800E-03	1.637E-03	64	2.220	5.207E-05	1.605E-04	1.063E-04
16	0.300	1.893E-03	2.214E-03	2.054E-03	65	2.280	5.782E-05	1.778E-04	1.178E-04
17	0.320	2.009E-03	2.330E-03	2.170E-03	66	2.340	4.330E-05	1.573E-04	1.003E-04
18	0.340	1.657E-03	1.963E-03	1.810E-03	67	2.405	1.188E-04	2.415E-04	1.802E-04
19	0.360	1.329E-03	1.626E-03	1.477E-03	68	2.475	6.623E-05	1.743E-04	1.203E-04
20	0.380	9.669E-04	1.247E-03	1.107E-03	69	2.545	9.993E-05	2.219E-04	1.609E-04
21	0.400	9.393E-04	1.229E-03	1.084E-03	70	2.615	1.791E-04	2.960E-04	2.375E-04
22	0.420	1.123E-03	1.410E-03	1.267E-03	71	2.685	6.944E-05	1.761E-04	1.228E-04
23	0.445	1.480E-03	1.763E-03	1.621E-03	72	2.755	4.286E-05	1.418E-04	9.233E-05
24	0.475	1.144E-03	1.407E-03	1.276E-03	73	2.825	2.182E-05	1.242E-04	7.301E-05
25	0.505	7.284E-04	9.695E-04	8.490E-04	74	2.895	-3.135E-05	5.969E-05	1.417E-05
26	0.535	5.405E-04	7.684E-04	6.544E-04	75	2.965	-3.770E-05	5.434E-05	8.320E-06
27	0.565	7.103E-04	9.439E-04	8.271E-04	76	3.035	-4.735E-05	4.166E-05	-2.843E-06
28	0.595	1.050E-03	1.290E-03	1.170E-03	77	3.110	-4.775E-05	3.736E-05	-5.193E-06
29	0.625	8.125E-04	1.046E-03	9.293E-04	78	3.190	-5.329E-05	3.974E-05	-6.775E-06
30	0.655	7.916E-04	1.021E-03	9.064E-04	79	3.270	-5.403E-05	3.872E-05	-7.654E-06
31	0.685	9.115E-04	1.146E-03	1.029E-03	80	3.350	-2.151E-05	5.850E-05	1.850E-05
32	0.715	1.192E-03	1.433E-03	1.313E-03	81	3.430	1.169E-05	9.917E-05	5.543E-05
33	0.745	1.165E-03	1.403E-03	1.284E-03	82	3.510	2.160E-05	9.738E-05	5.949E-05
34	0.775	8.425E-04	1.062E-03	9.522E-04	83	3.590	9.840E-06	7.858E-05	4.421E-05
35	0.810	7.035E-04	9.269E-04	8.152E-04	84	3.670	-6.001E-06	6.039E-05	2.719E-05
36	0.850	1.025E-03	1.257E-03	1.141E-03	85	3.750	6.461E-07	6.518E-05	3.292E-05
37	0.890	1.166E-03	1.403E-03	1.285E-03	86	3.830	-3.460E-06	7.084E-05	3.369E-05
38	0.930	9.747E-04	1.210E-03	1.092E-03	87	3.915	-2.282E-05	4.819E-05	1.269E-05
39	0.970	1.264E-03	1.501E-03	1.382E-03	88	4.005	-3.320E-05	3.923E-05	3.014E-06
40	1.010	1.222E-03	1.459E-03	1.341E-03	89	4.095	-2.250E-05	5.351E-05	1.551E-05
41	1.050	8.581E-04	1.065E-03	9.616E-04	90	4.185	-1.066E-05	6.662E-05	2.798E-05
42	1.090	5.811E-04	7.641E-04	6.726E-04	91	4.275	-1.735E-05	6.380E-05	2.322E-05
43	1.130	4.104E-04	5.823E-04	4.963E-04	92	4.365	-3.968E-05	4.816E-05	4.245E-06
44	1.170	5.070E-04	6.757E-04	5.914E-04	93	4.455	-6.230E-05	2.500E-05	-1.865E-05
45	1.210	6.453E-04	8.148E-04	7.300E-04	94	4.550	-7.427E-05	9.784E-06	-3.225E-05
46	1.250	5.820E-04	8.045E-04	6.933E-04	95	4.650	-6.210E-05	1.553E-05	-2.328E-05
47	1.295	5.894E-04	7.444E-04	6.669E-04	96	4.750	-3.108E-05	3.673E-05	2.824E-06
48	1.345	4.652E-04	6.282E-04	5.467E-04	97	4.850	4.739E-06	5.502E-05	2.988E-05
49	1.395	4.502E-04	6.152E-04	5.327E-04	98	4.950	1.965E-05	6.017E-05	3.991E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 495 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.074E-02	1.426E-02	1.250E-02	50	1.445	2.199E-04	3.351E-04	2.775E-04
2	0.111	6.159E-03	1.047E-02	8.313E-03	51	1.495	2.116E-04	3.209E-04	2.662E-04
3	0.117	2.988E-04	4.936E-03	2.618E-03	52	1.545	1.736E-04	2.756E-04	2.246E-04
4	0.125	-1.516E-03	9.825E-04	-2.668E-04	53	1.595	9.686E-05	1.895E-04	1.432E-04
5	0.135	-2.966E-05	1.741E-03	8.559E-04	54	1.645	1.349E-04	2.301E-04	1.825E-04
6	0.145	-1.353E-05	2.838E-03	1.412E-03	55	1.695	1.285E-04	2.231E-04	1.758E-04
7	0.155	4.197E-04	1.706E-03	1.063E-03	56	1.745	7.849E-05	1.684E-04	1.235E-04
8	0.165	8.746E-04	1.711E-03	1.293E-03	57	1.800	8.435E-05	1.773E-04	1.308E-04
9	0.175	8.722E-04	2.147E-03	1.509E-03	58	1.860	8.355E-05	1.756E-04	1.296E-04
10	0.185	1.091E-03	1.668E-03	1.379E-03	59	1.920	3.889E-05	1.286E-04	8.375E-05
11	0.200	1.315E-03	1.679E-03	1.497E-03	60	1.980	1.077E-04	1.959E-04	1.518E-04
12	0.220	9.036E-04	1.265E-03	1.085E-03	61	2.040	1.116E-04	1.999E-04	1.557E-04
13	0.240	7.626E-04	1.068E-03	9.154E-04	62	2.100	1.715E-05	9.682E-05	5.698E-05
14	0.260	9.650E-04	1.232E-03	1.099E-03	63	2.160	6.585E-05	1.513E-04	1.086E-04
15	0.280	1.143E-03	1.394E-03	1.268E-03	64	2.220	3.530E-05	1.137E-04	7.451E-05
16	0.300	1.370E-03	1.615E-03	1.493E-03	65	2.280	7.932E-05	1.603E-04	1.198E-04
17	0.320	1.395E-03	1.636E-03	1.516E-03	66	2.340	7.850E-05	1.561E-04	1.173E-04
18	0.340	1.102E-03	1.331E-03	1.216E-03	67	2.405	2.883E-05	9.593E-05	6.238E-05
19	0.360	8.721E-04	1.094E-03	9.829E-04	68	2.475	1.952E-05	8.746E-05	5.349E-05
20	0.380	7.056E-04	9.169E-04	8.112E-04	69	2.545	3.385E-06	6.567E-05	3.453E-05
21	0.400	6.334E-04	8.493E-04	7.414E-04	70	2.615	2.989E-05	9.963E-05	6.476E-05
22	0.420	7.269E-04	9.371E-04	8.320E-04	71	2.685	3.581E-05	1.035E-04	6.965E-05
23	0.445	7.927E-04	9.992E-04	8.959E-04	72	2.755	1.735E-05	8.232E-05	4.983E-05
24	0.475	8.255E-04	1.025E-03	9.250E-04	73	2.825	1.557E-05	7.305E-05	4.431E-05
25	0.505	5.697E-04	7.543E-04	6.620E-04	74	2.895	1.053E-06	5.833E-05	2.969E-05
26	0.535	3.659E-04	5.363E-04	4.511E-04	75	2.965	-1.550E-05	4.006E-05	1.228E-05
27	0.565	4.823E-04	6.584E-04	5.704E-04	76	3.035	-1.353E-05	4.505E-05	1.576E-05
28	0.595	7.637E-04	9.465E-04	8.551E-04	77	3.110	-4.309E-06	5.167E-05	2.368E-05
29	0.625	7.234E-04	9.038E-04	8.136E-04	78	3.190	-1.055E-05	4.990E-05	1.968E-05
30	0.655	5.622E-04	7.317E-04	6.469E-04	79	3.270	-3.161E-05	1.784E-05	-6.886E-06
31	0.685	5.034E-04	6.714E-04	5.874E-04	80	3.350	-4.126E-05	9.501E-06	-1.588E-05
32	0.715	7.229E-04	8.983E-04	8.106E-04	81	3.430	-2.609E-05	2.442E-05	-8.356E-07
33	0.745	7.649E-04	9.430E-04	8.539E-04	82	3.510	-2.314E-05	2.888E-05	2.870E-06
34	0.775	6.649E-04	8.329E-04	7.489E-04	83	3.590	-9.600E-06	3.204E-05	1.122E-05
35	0.810	5.810E-04	7.506E-04	6.658E-04	84	3.670	-6.674E-07	4.359E-05	2.146E-05
36	0.850	6.784E-04	8.507E-04	7.646E-04	85	3.750	-8.188E-07	3.642E-05	1.780E-05
37	0.890	8.082E-04	9.839E-04	8.960E-04	86	3.830	-6.586E-06	3.968E-05	1.655E-05
38	0.930	6.279E-04	7.994E-04	7.137E-04	87	3.915	-7.551E-06	4.332E-05	1.789E-05
39	0.970	8.263E-04	9.983E-04	9.123E-04	88	4.005	-3.870E-06	3.166E-05	1.390E-05
40	1.010	7.155E-04	8.868E-04	8.011E-04	89	4.095	-3.684E-06	2.965E-05	1.299E-05
41	1.050	5.892E-04	7.424E-04	6.658E-04	90	4.185	-4.758E-06	2.963E-05	1.244E-05
42	1.090	3.480E-04	4.811E-04	4.146E-04	91	4.275	-1.036E-05	2.397E-05	6.804E-06
43	1.130	2.906E-04	4.154E-04	3.530E-04	92	4.365	-1.805E-05	1.568E-05	-1.187E-06
44	1.170	3.479E-04	4.723E-04	4.101E-04	93	4.455	-2.573E-05	6.851E-06	-9.441E-06
45	1.210	2.814E-04	3.920E-04	3.367E-04	94	4.550	-3.014E-05	2.412E-06	-1.387E-05
46	1.250	3.645E-04	5.237E-04	4.441E-04	95	4.650	-2.582E-05	6.879E-06	-9.469E-06
47	1.295	2.926E-04	3.988E-04	3.457E-04	96	4.750	-1.335E-05	1.350E-05	7.754E-08
48	1.345	3.502E-04	4.754E-04	4.128E-04	97	4.850	8.306E-07	1.956E-05	1.019E-05
49	1.395	3.264E-04	4.489E-04	3.877E-04	98	4.950	7.613E-06	2.248E-05	1.504E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 795 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	9.127E-03	1.124E-02	1.018E-02	50	1.445	1.845E-04	2.572E-04	2.209E-04
2	0.111	5.346E-03	7.881E-03	6.614E-03	51	1.495	9.483E-05	1.573E-04	1.260E-04
3	0.117	4.146E-04	3.281E-03	1.848E-03	52	1.545	1.143E-04	1.732E-04	1.438E-04
4	0.125	-1.269E-03	2.144E-04	-5.273E-04	53	1.595	1.145E-04	1.723E-04	1.434E-04
5	0.135	-2.075E-05	1.116E-03	5.475E-04	54	1.645	8.377E-05	1.363E-04	1.100E-04
6	0.145	2.185E-04	2.037E-03	1.128E-03	55	1.695	4.873E-05	9.989E-05	7.431E-05
7	0.155	2.941E-04	1.117E-03	7.053E-04	56	1.745	8.059E-05	1.323E-04	1.064E-04
8	0.165	5.929E-04	1.098E-03	8.453E-04	57	1.800	1.011E-04	1.548E-04	1.279E-04
9	0.175	7.018E-04	1.479E-03	1.090E-03	58	1.860	3.354E-05	8.105E-05	5.729E-05
10	0.185	7.676E-04	1.115E-03	9.415E-04	59	1.920	5.298E-05	1.030E-04	7.797E-05
11	0.200	9.105E-04	1.126E-03	1.018E-03	60	1.980	5.993E-05	1.090E-04	8.447E-05
12	0.220	6.468E-04	8.612E-04	7.540E-04	61	2.040	6.987E-05	1.203E-04	9.509E-05
13	0.240	5.946E-04	7.747E-04	6.847E-04	62	2.100	4.787E-05	9.189E-05	6.988E-05
14	0.260	6.397E-04	7.943E-04	7.170E-04	63	2.160	3.026E-05	7.728E-05	5.377E-05
15	0.280	7.672E-04	9.136E-04	8.404E-04	64	2.220	2.607E-05	6.672E-05	4.639E-05
16	0.300	1.062E-03	1.208E-03	1.135E-03	65	2.280	1.653E-05	5.735E-05	3.694E-05
17	0.320	1.158E-03	1.304E-03	1.231E-03	66	2.340	3.289E-06	3.889E-05	2.109E-05
18	0.340	8.635E-04	1.001E-03	9.321E-04	67	2.405	1.967E-05	6.104E-05	4.036E-05
19	0.360	6.829E-04	8.136E-04	7.482E-04	68	2.475	2.474E-05	6.169E-05	4.321E-05
20	0.380	5.307E-04	6.534E-04	5.920E-04	69	2.545	2.112E-05	5.835E-05	3.973E-05
21	0.400	3.973E-04	5.198E-04	4.586E-04	70	2.615	2.798E-05	6.652E-05	4.725E-05
22	0.420	4.426E-04	5.631E-04	5.028E-04	71	2.685	1.405E-05	5.190E-05	3.297E-05
23	0.445	6.673E-04	7.895E-04	7.284E-04	72	2.755	1.600E-06	3.486E-05	1.823E-05
24	0.475	5.762E-04	6.903E-04	6.332E-04	73	2.825	-4.387E-06	2.612E-05	1.087E-05
25	0.505	3.638E-04	4.688E-04	4.163E-04	74	2.895	-8.643E-06	2.386E-05	7.606E-06
26	0.535	3.169E-04	4.174E-04	3.672E-04	75	2.965	-1.031E-05	1.939E-05	4.543E-06
27	0.565	3.781E-04	4.804E-04	4.293E-04	76	3.035	-1.339E-05	1.455E-05	5.785E-07
28	0.595	4.724E-04	5.753E-04	5.238E-04	77	3.110	-2.241E-05	1.494E-05	-3.736E-06
29	0.625	4.029E-04	5.030E-04	4.529E-04	78	3.190	-1.085E-05	2.364E-05	6.394E-06
30	0.655	3.777E-04	4.744E-04	4.261E-04	79	3.270	2.298E-06	3.458E-05	1.844E-05
31	0.685	2.644E-04	3.556E-04	3.100E-04	80	3.350	-5.736E-06	2.249E-05	8.377E-06
32	0.715	3.051E-04	3.976E-04	3.513E-04	81	3.430	-1.045E-05	1.627E-05	2.909E-06
33	0.745	3.392E-04	4.338E-04	3.865E-04	82	3.510	-3.552E-06	2.208E-05	9.262E-06
34	0.775	3.504E-04	4.433E-04	3.969E-04	83	3.590	-5.615E-06	1.708E-05	5.730E-06
35	0.810	3.197E-04	4.129E-04	3.663E-04	84	3.670	-8.425E-06	1.071E-05	1.141E-06
36	0.850	3.613E-04	4.582E-04	4.098E-04	85	3.750	-6.686E-06	1.131E-05	2.312E-06
37	0.890	5.748E-04	6.789E-04	6.268E-04	86	3.830	-6.497E-06	1.413E-05	3.817E-06
38	0.930	6.426E-04	7.476E-04	6.951E-04	87	3.915	-5.324E-06	1.825E-05	6.463E-06
39	0.970	5.323E-04	6.295E-04	5.809E-04	88	4.005	-9.920E-07	2.244E-05	1.072E-05
40	1.010	3.951E-04	4.889E-04	4.420E-04	89	4.095	3.024E-06	2.262E-05	1.282E-05
41	1.050	3.725E-04	4.607E-04	4.166E-04	90	4.185	8.425E-07	1.842E-05	9.629E-06
42	1.090	2.609E-04	3.391E-04	3.000E-04	91	4.275	-4.675E-06	1.343E-05	4.376E-06
43	1.130	1.927E-04	2.640E-04	2.284E-04	92	4.365	-1.015E-05	8.397E-06	-8.752E-07
44	1.170	1.638E-04	2.301E-04	1.969E-04	93	4.455	-1.550E-05	1.947E-06	-6.776E-06
45	1.210	1.394E-04	2.014E-04	1.704E-04	94	4.550	-1.956E-05	-1.506E-06	-1.053E-05
46	1.250	1.395E-04	2.264E-04	1.830E-04	95	4.650	-1.691E-05	1.575E-06	-7.667E-06
47	1.295	2.024E-04	2.623E-04	2.323E-04	96	4.750	-8.678E-06	7.230E-06	-7.242E-07
48	1.345	1.618E-04	2.305E-04	1.961E-04	97	4.850	4.543E-07	1.114E-05	5.797E-06
49	1.395	1.458E-04	2.141E-04	1.800E-04	98	4.950	4.271E-06	1.296E-05	8.615E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1395 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.576E-03	7.882E-03	7.229E-03	50	1.445	1.223E-04	1.674E-04	1.448E-04
2	0.111	3.903E-03	5.482E-03	4.692E-03	51	1.495	1.152E-04	1.560E-04	1.356E-04
3	0.117	4.331E-04	2.181E-03	1.307E-03	52	1.545	6.611E-05	9.845E-05	8.228E-05
4	0.125	-8.482E-04	7.200E-05	-3.881E-04	53	1.595	2.570E-05	5.478E-05	4.024E-05
5	0.135	-3.895E-06	6.707E-04	3.334E-04	54	1.645	4.105E-05	7.088E-05	5.596E-05
6	0.145	1.562E-04	1.240E-03	6.982E-04	55	1.695	4.501E-05	7.404E-05	5.953E-05
7	0.155	1.405E-04	6.302E-04	3.854E-04	56	1.745	3.511E-05	6.405E-05	4.958E-05
8	0.165	3.366E-04	6.269E-04	4.817E-04	57	1.800	3.625E-05	6.452E-05	5.038E-05
9	0.175	4.277E-04	8.770E-04	6.524E-04	58	1.860	4.091E-05	7.073E-05	5.582E-05
10	0.185	4.596E-04	6.596E-04	5.596E-04	59	1.920	3.506E-05	6.217E-05	4.861E-05
11	0.200	6.003E-04	7.235E-04	6.619E-04	60	1.980	1.503E-05	3.977E-05	2.740E-05
12	0.220	4.169E-04	5.381E-04	4.775E-04	61	2.040	3.582E-05	6.305E-05	4.944E-05
13	0.240	3.217E-04	4.225E-04	3.721E-04	62	2.100	2.522E-05	5.190E-05	3.856E-05
14	0.260	3.187E-04	4.051E-04	3.619E-04	63	2.160	1.885E-05	4.399E-05	3.142E-05
15	0.280	4.712E-04	5.549E-04	5.131E-04	64	2.220	2.712E-05	5.258E-05	3.985E-05
16	0.300	7.838E-04	8.698E-04	8.268E-04	65	2.280	1.100E-05	3.432E-05	2.266E-05
17	0.320	8.315E-04	9.173E-04	8.744E-04	66	2.340	6.881E-06	2.763E-05	1.725E-05
18	0.340	5.572E-04	6.361E-04	5.966E-04	67	2.405	4.451E-06	2.604E-05	1.525E-05
19	0.360	4.078E-04	4.817E-04	4.447E-04	68	2.475	-3.357E-06	1.530E-05	5.972E-06
20	0.380	2.984E-04	3.675E-04	3.329E-04	69	2.545	3.398E-06	2.414E-05	1.377E-05
21	0.400	2.250E-04	2.946E-04	2.598E-04	70	2.615	1.424E-05	3.698E-05	2.561E-05
22	0.420	2.589E-04	3.273E-04	2.931E-04	71	2.685	1.643E-05	3.885E-05	2.764E-05
23	0.445	3.765E-04	4.456E-04	4.110E-04	72	2.755	1.430E-05	3.459E-05	2.445E-05
24	0.475	3.777E-04	4.436E-04	4.106E-04	73	2.825	4.912E-06	2.126E-05	1.309E-05
25	0.505	2.279E-04	2.886E-04	2.583E-04	74	2.895	-2.097E-06	1.551E-05	6.709E-06
26	0.535	2.209E-04	2.793E-04	2.501E-04	75	2.965	-5.742E-06	9.238E-06	1.748E-06
27	0.565	2.434E-04	3.022E-04	2.728E-04	76	3.035	-6.258E-06	8.820E-06	1.281E-06
28	0.595	2.466E-04	3.038E-04	2.752E-04	77	3.110	-4.105E-06	1.137E-05	3.635E-06
29	0.625	2.454E-04	3.027E-04	2.740E-04	78	3.190	-6.620E-06	1.130E-05	2.341E-06
30	0.655	2.192E-04	2.738E-04	2.465E-04	79	3.270	-5.048E-06	8.942E-06	1.947E-06
31	0.685	1.708E-04	2.234E-04	1.971E-04	80	3.350	-4.025E-06	8.738E-06	2.357E-06
32	0.715	1.758E-04	2.283E-04	2.021E-04	81	3.430	-3.340E-06	1.252E-05	4.589E-06
33	0.745	2.078E-04	2.623E-04	2.350E-04	82	3.510	-2.099E-06	1.350E-05	5.701E-06
34	0.775	2.179E-04	2.707E-04	2.443E-04	83	3.590	-2.088E-06	8.815E-06	3.364E-06
35	0.810	1.600E-04	2.125E-04	1.862E-04	84	3.670	-2.403E-06	7.206E-06	2.401E-06
36	0.850	2.287E-04	2.846E-04	2.567E-04	85	3.750	-7.020E-07	8.758E-06	4.028E-06
37	0.890	3.215E-04	3.798E-04	3.506E-04	86	3.830	-8.971E-07	8.420E-06	3.762E-06
38	0.930	3.874E-04	4.470E-04	4.172E-04	87	3.915	-1.721E-06	7.448E-06	2.863E-06
39	0.970	3.078E-04	3.630E-04	3.354E-04	88	4.005	-1.221E-06	8.467E-06	3.623E-06
40	1.010	2.216E-04	2.746E-04	2.481E-04	89	4.095	2.622E-07	8.835E-06	4.548E-06
41	1.050	1.911E-04	2.414E-04	2.163E-04	90	4.185	-1.508E-07	8.288E-06	4.068E-06
42	1.090	1.608E-04	2.060E-04	1.834E-04	91	4.275	-2.163E-06	6.410E-06	2.124E-06
43	1.130	8.494E-05	1.254E-04	1.052E-04	92	4.365	-4.816E-06	3.573E-06	-6.219E-07
44	1.170	7.532E-05	1.134E-04	9.434E-05	93	4.455	-7.366E-06	3.213E-07	-3.522E-06
45	1.210	8.916E-05	1.266E-04	1.079E-04	94	4.550	-8.705E-06	-7.075E-07	-4.707E-06
46	1.250	8.684E-05	1.363E-04	1.115E-04	95	4.650	-6.975E-06	1.040E-06	-2.968E-06
47	1.295	1.144E-04	1.488E-04	1.316E-04	96	4.750	-3.373E-06	3.287E-06	-4.302E-08
48	1.345	8.287E-05	1.226E-04	1.027E-04	97	4.850	3.603E-07	5.055E-06	2.702E-06
49	1.395	9.876E-05	1.419E-04	1.203E-04	98	4.950	2.034E-06	5.852E-06	3.943E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2195 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.488E-03	5.455E-03	4.971E-03	50	1.445	1.111E-04	1.501E-04	1.306E-04
2	0.111	2.665E-03	3.848E-03	3.256E-03	51	1.495	9.649E-05	1.301E-04	1.133E-04
3	0.117	3.219E-04	1.589E-03	9.554E-04	52	1.545	3.491E-05	5.928E-05	4.709E-05
4	0.125	-5.483E-04	1.361E-04	-2.061E-04	53	1.595	1.656E-05	3.919E-05	2.787E-05
5	0.135	-8.599E-06	4.679E-04	2.297E-04	54	1.645	2.412E-05	4.758E-05	3.585E-05
6	0.145	5.722E-05	8.255E-04	4.414E-04	55	1.695	2.527E-05	4.718E-05	3.622E-05
7	0.155	1.039E-04	4.503E-04	2.771E-04	56	1.745	3.164E-05	5.445E-05	4.304E-05
8	0.165	2.242E-04	4.416E-04	3.329E-04	57	1.800	2.353E-05	4.507E-05	3.430E-05
9	0.175	2.407E-04	5.738E-04	4.073E-04	58	1.860	1.145E-05	3.234E-05	2.189E-05
10	0.185	2.730E-04	4.231E-04	3.481E-04	59	1.920	1.190E-05	3.146E-05	2.168E-05
11	0.200	3.434E-04	4.374E-04	3.904E-04	60	1.980	8.836E-06	2.768E-05	1.826E-05
12	0.220	2.844E-04	3.781E-04	3.312E-04	61	2.040	2.186E-05	4.298E-05	3.242E-05
13	0.240	2.044E-04	2.824E-04	2.434E-04	62	2.100	2.304E-05	4.459E-05	3.381E-05
14	0.260	2.071E-04	2.743E-04	2.407E-04	63	2.160	1.548E-05	3.490E-05	2.519E-05
15	0.280	3.291E-04	3.939E-04	3.615E-04	64	2.220	5.341E-06	2.483E-05	1.508E-05
16	0.300	4.931E-04	5.582E-04	5.257E-04	65	2.280	4.012E-06	2.267E-05	1.334E-05
17	0.320	5.030E-04	5.675E-04	5.353E-04	66	2.340	5.263E-06	2.136E-05	1.331E-05
18	0.340	3.344E-04	3.939E-04	3.642E-04	67	2.405	-3.544E-06	1.165E-05	4.052E-06
19	0.360	2.266E-04	2.827E-04	2.547E-04	68	2.475	-5.973E-06	7.947E-06	9.873E-07
20	0.380	1.716E-04	2.247E-04	1.981E-04	69	2.545	6.547E-07	1.660E-05	8.629E-06
21	0.400	1.303E-04	1.844E-04	1.574E-04	70	2.615	5.889E-06	2.327E-05	1.458E-05
22	0.420	1.641E-04	2.178E-04	1.910E-04	71	2.685	4.860E-06	2.688E-05	1.587E-05
23	0.445	2.572E-04	3.115E-04	2.844E-04	72	2.755	1.405E-05	3.007E-05	2.206E-05
24	0.475	2.637E-04	3.159E-04	2.898E-04	73	2.825	1.010E-05	2.295E-05	1.652E-05
25	0.505	1.760E-04	2.242E-04	2.001E-04	74	2.895	2.721E-07	1.167E-05	5.972E-06
26	0.535	1.343E-04	1.801E-04	1.572E-04	75	2.965	-5.127E-06	6.438E-06	6.553E-07
27	0.565	1.727E-04	2.187E-04	1.957E-04	76	3.035	-8.471E-06	2.677E-06	-2.897E-06
28	0.595	1.432E-04	1.877E-04	1.655E-04	77	3.110	-1.113E-05	1.668E-06	-4.733E-06
29	0.625	1.495E-04	1.941E-04	1.718E-04	78	3.190	-9.654E-06	3.723E-06	-2.966E-06
30	0.655	1.645E-04	2.082E-04	1.863E-04	79	3.270	-6.004E-06	4.500E-06	-7.515E-07
31	0.685	1.353E-04	1.771E-04	1.562E-04	80	3.350	-4.424E-06	5.430E-06	5.028E-07
32	0.715	1.040E-04	1.440E-04	1.240E-04	81	3.430	-3.195E-06	7.234E-06	2.019E-06
33	0.745	9.730E-05	1.388E-04	1.180E-04	82	3.510	-1.583E-06	1.048E-05	4.447E-06
34	0.775	1.155E-04	1.567E-04	1.361E-04	83	3.590	1.240E-06	1.178E-05	6.511E-06
35	0.810	1.377E-04	1.804E-04	1.591E-04	84	3.670	2.775E-06	1.302E-05	7.898E-06
36	0.850	1.561E-04	2.000E-04	1.780E-04	85	3.750	9.981E-07	9.810E-06	5.404E-06
37	0.890	2.404E-04	2.866E-04	2.635E-04	86	3.830	-4.775E-06	3.767E-06	-5.037E-07
38	0.930	2.392E-04	2.853E-04	2.623E-04	87	3.915	-9.187E-06	7.082E-07	-4.240E-06
39	0.970	2.156E-04	2.590E-04	2.373E-04	88	4.005	-8.584E-06	1.686E-06	-3.449E-06
40	1.010	1.519E-04	1.943E-04	1.731E-04	89	4.095	-5.488E-06	3.699E-06	-8.942E-07
41	1.050	1.382E-04	1.785E-04	1.583E-04	90	4.185	-3.561E-06	5.410E-06	9.245E-07
42	1.090	1.061E-04	1.421E-04	1.241E-04	91	4.275	-1.577E-06	7.390E-06	2.906E-06
43	1.130	6.500E-05	9.793E-05	8.146E-05	92	4.365	-8.772E-07	9.359E-06	4.241E-06
44	1.170	3.844E-05	6.800E-05	5.322E-05	93	4.455	-2.527E-06	7.194E-06	2.333E-06
45	1.210	3.424E-05	6.238E-05	4.831E-05	94	4.550	-5.586E-06	2.630E-06	-1.478E-06
46	1.250	2.955E-05	6.604E-05	4.779E-05	95	4.650	-6.393E-06	1.304E-06	-2.545E-06
47	1.295	4.269E-05	6.797E-05	5.533E-05	96	4.750	-3.613E-06	2.469E-06	-5.719E-07
48	1.345	2.949E-05	6.067E-05	4.508E-05	97	4.850	2.047E-07	4.184E-06	2.194E-06
49	1.395	5.318E-05	8.834E-05	7.076E-05	98	4.950	1.912E-06	5.351E-06	3.631E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>238</sup>U BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3195 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.741E-03	3.547E-03	3.144E-03	50	1.445	7.337E-05	1.070E-04	9.017E-05
2	0.111	1.590E-03	2.605E-03	2.098E-03	51	1.495	8.846E-05	1.183E-04	1.034E-04
3	0.117	1.628E-04	1.226E-03	6.942E-04	52	1.545	4.602E-05	6.778E-05	5.690E-05
4	0.125	-2.851E-04	2.947E-04	4.789E-06	53	1.595	1.580E-05	3.409E-05	2.494E-05
5	0.135	5.618E-05	4.166E-04	2.364E-04	54	1.645	1.151E-05	2.872E-05	2.011E-05
6	0.145	-9.560E-06	5.757E-04	2.831E-04	55	1.695	1.012E-05	2.672E-05	1.842E-05
7	0.155	5.525E-05	3.179E-04	1.866E-04	56	1.745	5.772E-06	2.211E-05	1.394E-05
8	0.165	1.470E-04	3.160E-04	2.315E-04	57	1.800	1.845E-05	3.582E-05	2.713E-05
9	0.175	1.351E-04	3.918E-04	2.635E-04	58	1.860	5.625E-06	2.197E-05	1.380E-05
10	0.185	1.821E-04	2.994E-04	2.407E-04	59	1.920	-4.044E-06	1.078E-05	3.370E-06
11	0.200	2.195E-04	2.944E-04	2.570E-04	60	1.980	1.148E-06	1.584E-05	8.493E-06
12	0.220	1.818E-04	2.561E-04	2.190E-04	61	2.040	3.324E-07	1.598E-05	8.155E-06
13	0.240	1.236E-04	1.857E-04	1.546E-04	62	2.100	2.180E-06	1.826E-05	1.022E-05
14	0.260	1.116E-04	1.647E-04	1.382E-04	63	2.160	4.455E-06	2.062E-05	1.254E-05
15	0.280	1.695E-04	2.195E-04	1.945E-04	64	2.220	-3.129E-07	1.431E-05	6.998E-06
16	0.300	2.914E-04	3.417E-04	3.166E-04	65	2.280	3.743E-06	1.948E-05	1.161E-05
17	0.320	2.925E-04	3.426E-04	3.176E-04	66	2.340	4.042E-06	1.769E-05	1.087E-05
18	0.340	1.880E-04	2.347E-04	2.113E-04	67	2.405	4.387E-06	1.829E-05	1.134E-05
19	0.360	1.263E-04	1.709E-04	1.486E-04	68	2.475	3.126E-06	1.567E-05	9.398E-06
20	0.380	9.237E-05	1.350E-04	1.137E-04	69	2.545	-1.880E-07	1.283E-05	6.323E-06
21	0.400	6.888E-05	1.127E-04	9.080E-05	70	2.615	2.028E-06	1.613E-05	9.079E-06
22	0.420	8.968E-05	1.332E-04	1.115E-04	71	2.685	-2.173E-06	1.221E-05	5.017E-06
23	0.445	1.632E-04	2.075E-04	1.853E-04	72	2.755	2.516E-07	1.208E-05	6.165E-06
24	0.475	1.949E-04	2.379E-04	2.164E-04	73	2.825	2.214E-06	1.295E-05	7.581E-06
25	0.505	1.091E-04	1.486E-04	1.289E-04	74	2.895	9.153E-07	1.120E-05	6.056E-06
26	0.535	7.247E-05	1.097E-04	9.108E-05	75	2.965	-2.374E-06	7.719E-06	2.672E-06
27	0.565	1.024E-04	1.399E-04	1.211E-04	76	3.035	-5.314E-06	4.278E-06	-5.180E-07
28	0.595	7.898E-05	1.150E-04	9.701E-05	77	3.110	-4.449E-06	5.155E-06	3.529E-07
29	0.625	8.391E-05	1.202E-04	1.021E-04	78	3.190	-2.538E-06	7.408E-06	2.435E-06
30	0.655	8.802E-05	1.232E-04	1.056E-04	79	3.270	-3.824E-06	6.562E-06	1.369E-06
31	0.685	7.615E-05	1.101E-04	9.314E-05	80	3.350	-3.598E-06	5.496E-06	9.488E-07
32	0.715	6.228E-05	9.533E-05	7.881E-05	81	3.430	-3.363E-06	5.630E-06	1.133E-06
33	0.745	6.233E-05	9.662E-05	7.948E-05	82	3.510	-3.586E-06	6.815E-06	1.615E-06
34	0.775	5.853E-05	9.205E-05	7.529E-05	83	3.590	-2.161E-06	8.059E-06	2.949E-06
35	0.810	5.745E-05	9.252E-05	7.499E-05	84	3.670	-1.503E-06	7.965E-06	3.231E-06
36	0.850	1.427E-04	1.810E-04	1.619E-04	85	3.750	-2.002E-06	6.212E-06	2.105E-06
37	0.890	2.006E-04	2.400E-04	2.203E-04	86	3.830	-4.674E-06	4.909E-06	1.177E-07
38	0.930	1.717E-04	2.098E-04	1.907E-04	87	3.915	-7.509E-06	3.555E-06	-1.977E-06
39	0.970	1.189E-04	1.538E-04	1.364E-04	88	4.005	-8.428E-06	2.880E-06	-2.774E-06
40	1.010	9.287E-05	1.279E-04	1.104E-04	89	4.095	-6.806E-06	2.817E-06	-1.994E-06
41	1.050	7.123E-05	1.042E-04	8.770E-05	90	4.185	-4.856E-06	3.684E-06	-5.862E-07
42	1.090	6.294E-05	9.320E-05	7.807E-05	91	4.275	-2.585E-06	5.670E-06	1.543E-06
43	1.130	4.293E-05	7.143E-05	5.718E-05	92	4.365	-1.409E-06	8.475E-06	3.533E-06
44	1.170	4.942E-05	7.637E-05	6.289E-05	93	4.455	-1.274E-06	8.369E-06	3.547E-06
45	1.210	4.906E-05	7.434E-05	6.170E-05	94	4.550	-2.393E-06	5.056E-06	1.331E-06
46	1.250	2.652E-05	5.769E-05	4.210E-05	95	4.650	-3.330E-06	2.152E-06	-5.893E-07
47	1.295	3.017E-05	5.163E-05	4.090E-05	96	4.750	-2.304E-06	1.666E-06	-3.187E-07
48	1.345	4.772E-06	3.005E-05	1.741E-05	97	4.850	-2.613E-08	2.477E-06	1.226E-06
49	1.395	2.409E-05	5.411E-05	3.910E-05	98	4.950	1.201E-06	3.334E-06	2.268E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 17 SEC

COUNTING TIME : 8 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.018E-02	1.349E-01	8.256E-02	50	1.445	7.243E-03	1.000E-02	8.623E-03
2	0.111	2.820E-02	1.509E-01	8.956E-02	51	1.495	6.380E-03	9.004E-03	7.692E-03
3	0.117	2.288E-04	1.464E-01	7.329E-02	52	1.545	5.420E-03	7.950E-03	6.685E-03
4	0.125	1.199E-02	9.150E-02	5.174E-02	53	1.595	4.894E-03	7.466E-03	6.180E-03
5	0.135	1.955E-02	6.881E-02	4.418E-02	54	1.645	4.662E-03	7.133E-03	5.898E-03
6	0.145	-1.549E-03	7.865E-02	3.855E-02	55	1.695	2.500E-03	4.831E-03	3.665E-03
7	0.155	1.807E-02	5.429E-02	3.618E-02	56	1.745	2.467E-03	4.878E-03	3.673E-03
8	0.165	2.351E-02	4.271E-02	3.311E-02	57	1.800	4.584E-03	7.222E-03	5.903E-03
9	0.175	1.303E-02	4.316E-02	2.810E-02	58	1.860	4.751E-03	7.416E-03	6.083E-03
10	0.185	2.365E-02	3.694E-02	3.029E-02	59	1.920	2.384E-03	4.890E-03	3.637E-03
11	0.200	2.927E-02	3.742E-02	3.334E-02	60	1.980	2.689E-03	5.162E-03	3.925E-03
12	0.220	3.110E-02	3.922E-02	3.516E-02	61	2.040	3.048E-03	5.507E-03	4.277E-03
13	0.240	2.663E-02	3.329E-02	2.996E-02	62	2.100	1.452E-03	3.914E-03	2.683E-03
14	0.260	2.691E-02	3.261E-02	2.976E-02	63	2.160	1.876E-03	4.302E-03	3.089E-03
15	0.280	2.848E-02	3.367E-02	3.108E-02	64	2.220	2.004E-03	4.346E-03	3.175E-03
16	0.300	2.187E-02	2.656E-02	2.421E-02	65	2.280	4.773E-04	2.792E-03	1.635E-03
17	0.320	1.664E-02	2.110E-02	1.887E-02	66	2.340	8.503E-04	3.274E-03	2.062E-03
18	0.340	1.610E-02	2.053E-02	1.831E-02	67	2.405	1.664E-03	4.284E-03	2.974E-03
19	0.360	1.716E-02	2.179E-02	1.947E-02	68	2.475	2.913E-03	5.409E-03	4.161E-03
20	0.380	2.190E-02	2.665E-02	2.427E-02	69	2.545	3.210E-03	5.693E-03	4.452E-03
21	0.400	2.716E-02	3.215E-02	2.966E-02	70	2.615	2.905E-03	5.220E-03	4.063E-03
22	0.420	2.471E-02	2.931E-02	2.701E-02	71	2.685	3.053E-03	5.364E-03	4.209E-03
23	0.445	1.913E-02	2.343E-02	2.128E-02	72	2.755	2.025E-03	4.256E-03	3.141E-03
24	0.475	1.722E-02	2.141E-02	1.932E-02	73	2.825	3.282E-04	2.363E-03	1.346E-03
25	0.505	2.392E-02	2.825E-02	2.608E-02	74	2.895	6.407E-04	2.833E-03	1.737E-03
26	0.535	2.622E-02	3.046E-02	2.834E-02	75	2.965	6.843E-05	2.079E-03	1.074E-03
27	0.565	2.396E-02	2.813E-02	2.604E-02	76	3.035	-6.704E-04	1.130E-03	2.299E-04
28	0.595	2.564E-02	2.967E-02	2.766E-02	77	3.110	-2.576E-04	1.619E-03	6.805E-04
29	0.625	1.841E-02	2.217E-02	2.029E-02	78	3.190	-1.156E-03	6.745E-04	-2.407E-04
30	0.655	1.340E-02	1.687E-02	1.513E-02	79	3.270	-5.297E-04	1.326E-03	3.979E-04
31	0.685	1.381E-02	1.725E-02	1.553E-02	80	3.350	1.313E-03	3.099E-03	2.206E-03
32	0.715	1.147E-02	1.482E-02	1.315E-02	81	3.430	1.071E-03	2.751E-03	1.911E-03
33	0.745	1.081E-02	1.417E-02	1.249E-02	82	3.510	2.162E-04	1.626E-03	9.212E-04
34	0.775	1.251E-02	1.592E-02	1.421E-02	83	3.590	-1.477E-04	1.236E-03	5.440E-04
35	0.810	1.261E-02	1.606E-02	1.433E-02	84	3.670	-4.779E-04	9.079E-04	2.150E-04
36	0.850	1.241E-02	1.583E-02	1.412E-02	85	3.750	-1.731E-04	1.071E-03	4.491E-04
37	0.890	9.681E-03	1.301E-02	1.134E-02	86	3.830	-1.745E-04	1.128E-03	4.767E-04
38	0.930	1.171E-02	1.510E-02	1.341E-02	87	3.915	-5.764E-04	5.658E-04	-5.292E-06
39	0.970	1.080E-02	1.418E-02	1.249E-02	88	4.005	-4.366E-04	6.671E-04	1.152E-04
40	1.010	1.179E-02	1.527E-02	1.353E-02	89	4.095	6.945E-04	1.763E-03	1.229E-03
41	1.050	1.025E-02	1.355E-02	1.190E-02	90	4.185	1.294E-03	2.550E-03	1.922E-03
42	1.090	1.116E-02	1.437E-02	1.277E-02	91	4.275	7.095E-04	1.889E-03	1.299E-03
43	1.130	1.424E-02	1.745E-02	1.585E-02	92	4.365	-1.579E-05	1.070E-03	5.273E-04
44	1.170	1.088E-02	1.371E-02	1.230E-02	93	4.455	-6.855E-04	3.323E-04	-1.766E-04
45	1.210	9.251E-03	1.198E-02	1.062E-02	94	4.550	-1.299E-03	-3.003E-04	-7.998E-04
46	1.250	8.514E-03	1.230E-02	1.041E-02	95	4.650	-1.188E-03	-3.312E-04	-6.596E-04
47	1.295	1.244E-02	1.513E-02	1.379E-02	96	4.750	-4.531E-04	3.762E-04	-3.842E-05
48	1.345	9.102E-03	1.190E-02	1.050E-02	97	4.850	2.290E-04	7.843E-04	5.067E-04
49	1.395	7.440E-03	1.015E-02	8.793E-03	98	4.950	5.509E-04	9.971E-04	7.740E-04



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 35 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.052E-02	7.735E-02	4.893E-02	50	1.445	4.541E-03	6.473E-03	5.507E-03
2	0.111	1.728E-02	8.437E-02	5.083E-02	51	1.495	4.090E-03	5.835E-03	4.962E-03
3	0.117	-1.035E-03	7.775E-02	3.836E-02	52	1.545	2.627E-03	4.338E-03	3.482E-03
4	0.125	2.008E-03	4.493E-02	2.347E-02	53	1.595	2.739E-03	4.446E-03	3.593E-03
5	0.135	6.041E-03	3.370E-02	1.987E-02	54	1.645	2.905E-03	4.574E-03	3.739E-03
6	0.145	-3.503E-03	4.132E-02	1.891E-02	55	1.695	1.587E-03	3.187E-03	2.387E-03
7	0.155	8.132E-03	2.829E-02	1.821E-02	56	1.745	1.625E-03	3.282E-03	2.453E-03
8	0.165	1.157E-02	2.379E-02	1.768E-02	57	1.800	2.249E-03	4.053E-03	3.151E-03
9	0.175	6.111E-03	2.495E-02	1.553E-02	58	1.860	1.343E-03	2.975E-03	2.159E-03
10	0.185	1.142E-02	1.991E-02	1.566E-02	59	1.920	5.922E-04	2.279E-03	1.436E-03
11	0.200	1.604E-02	2.144E-02	1.874E-02	60	1.980	1.711E-03	3.381E-03	2.546E-03
12	0.220	1.957E-02	2.498E-02	2.228E-02	61	2.040	2.337E-03	4.012E-03	3.175E-03
13	0.240	1.526E-02	1.963E-02	1.744E-02	62	2.100	1.146E-03	2.760E-03	1.953E-03
14	0.260	1.214E-02	1.580E-02	1.397E-02	63	2.160	1.108E-03	2.719E-03	1.914E-03
15	0.280	1.399E-02	1.739E-02	1.569E-02	64	2.220	1.549E-03	3.144E-03	2.346E-03
16	0.300	1.229E-02	1.545E-02	1.387E-02	65	2.280	1.706E-03	3.379E-03	2.543E-03
17	0.320	9.804E-03	1.284E-02	1.132E-02	66	2.340	7.101E-04	2.267E-03	1.489E-03
18	0.340	9.678E-03	1.271E-02	1.119E-02	67	2.405	1.674E-03	3.382E-03	2.528E-03
19	0.360	1.154E-02	1.475E-02	1.314E-02	68	2.475	1.447E-03	3.007E-03	2.227E-03
20	0.380	1.370E-02	1.697E-02	1.534E-02	69	2.545	7.548E-04	2.253E-03	1.504E-03
21	0.400	1.532E-02	1.870E-02	1.701E-02	70	2.615	7.644E-05	1.455E-03	7.657E-04
22	0.420	1.373E-02	1.684E-02	1.529E-02	71	2.685	5.142E-06	1.421E-03	7.132E-04
23	0.445	1.128E-02	1.418E-02	1.273E-02	72	2.755	9.143E-04	2.426E-03	1.670E-03
24	0.475	9.378E-03	1.215E-02	1.077E-02	73	2.825	9.675E-04	2.424E-03	1.696E-03
25	0.505	9.133E-03	1.187E-02	1.050E-02	74	2.895	3.231E-04	1.747E-03	1.035E-03
26	0.535	1.157E-02	1.430E-02	1.293E-02	75	2.965	-4.345E-04	7.934E-04	1.795E-04
27	0.565	1.088E-02	1.360E-02	1.224E-02	76	3.035	-5.267E-04	7.358E-04	1.046E-04
28	0.595	1.215E-02	1.482E-02	1.349E-02	77	3.110	-3.022E-04	9.690E-04	3.334E-04
29	0.625	1.088E-02	1.346E-02	1.217E-02	78	3.190	-2.763E-04	9.654E-04	3.445E-04
30	0.655	6.431E-03	8.743E-03	7.587E-03	79	3.270	-7.679E-05	1.194E-03	5.587E-04
31	0.685	6.569E-03	8.890E-03	7.730E-03	80	3.350	-1.197E-04	9.530E-04	4.167E-04
32	0.715	8.202E-03	1.058E-02	9.393E-03	81	3.430	-8.868E-05	1.005E-03	4.582E-04
33	0.745	7.541E-03	9.942E-03	8.742E-03	82	3.510	1.571E-04	1.126E-03	6.415E-04
34	0.775	6.771E-03	9.110E-03	7.940E-03	83	3.590	2.348E-04	1.180E-03	7.074E-04
35	0.810	9.592E-03	1.208E-02	1.084E-02	84	3.670	4.311E-04	1.378E-03	9.048E-04
36	0.850	8.050E-03	1.040E-02	9.226E-03	85	3.750	3.544E-04	1.211E-03	7.825E-04
37	0.890	4.955E-03	7.179E-03	6.067E-03	86	3.830	2.291E-05	8.199E-04	4.214E-04
38	0.930	6.685E-03	9.063E-03	7.874E-03	87	3.915	-1.494E-04	6.808E-04	2.657E-04
39	0.970	7.607E-03	9.982E-03	8.794E-03	88	4.005	-2.386E-04	5.219E-04	1.417E-04
40	1.010	8.992E-03	1.150E-02	1.024E-02	89	4.095	-2.474E-04	5.078E-04	1.302E-04
41	1.050	6.554E-03	8.808E-03	7.681E-03	90	4.185	-1.627E-04	6.202E-04	2.288E-04
42	1.090	6.085E-03	8.214E-03	7.149E-03	91	4.275	-1.473E-04	6.479E-04	2.503E-04
43	1.130	6.713E-03	8.793E-03	7.753E-03	92	4.365	-3.067E-04	4.843E-04	8.878E-05
44	1.170	4.844E-03	6.709E-03	5.776E-03	93	4.455	-4.496E-04	2.488E-04	-1.004E-04
45	1.210	4.794E-03	6.622E-03	5.708E-03	94	4.550	-5.004E-04	1.733E-04	-1.635E-04
46	1.250	5.142E-03	7.679E-03	6.410E-03	95	4.650	-3.887E-04	2.931E-04	-4.779E-05
47	1.295	5.630E-03	7.400E-03	6.515E-03	96	4.750	-1.409E-04	4.224E-04	1.408E-04
48	1.345	4.874E-03	6.764E-03	5.819E-03	97	4.850	1.656E-04	5.274E-04	3.465E-04
49	1.395	4.985E-03	6.893E-03	5.939E-03	98	4.950	3.046E-04	5.968E-04	4.507E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 55 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.583E-02	4.880E-02	3.231E-02	50	1.445	4.093E-03	5.211E-03	4.652E-03
2	0.111	1.241E-02	5.192E-02	3.216E-02	51	1.495	3.025E-03	4.048E-03	3.536E-03
3	0.117	-6.858E-04	4.474E-02	2.203E-02	52	1.545	2.161E-03	3.097E-03	2.629E-03
4	0.125	-1.621E-03	2.317E-02	1.077E-02	53	1.595	2.352E-03	3.345E-03	2.849E-03
5	0.135	2.124E-03	1.782E-02	9.975E-03	54	1.645	1.519E-03	2.449E-03	1.984E-03
6	0.145	-1.370E-03	2.420E-02	1.141E-02	55	1.695	1.453E-03	2.326E-03	1.889E-03
7	0.155	3.474E-03	1.493E-02	9.204E-03	56	1.745	1.521E-03	2.450E-03	1.985E-03
8	0.165	5.344E-03	1.218E-02	8.760E-03	57	1.800	6.577E-04	1.545E-03	1.101E-03
9	0.175	4.209E-03	1.482E-02	9.516E-03	58	1.860	7.354E-04	1.691E-03	1.213E-03
10	0.185	6.941E-03	1.170E-02	9.319E-03	59	1.920	1.044E-03	1.989E-03	1.517E-03
11	0.200	9.352E-03	1.235E-02	1.085E-02	60	1.980	1.421E-03	2.321E-03	1.871E-03
12	0.220	1.075E-02	1.377E-02	1.226E-02	61	2.040	9.287E-04	1.833E-03	1.381E-03
13	0.240	9.938E-03	1.243E-02	1.118E-02	62	2.100	1.182E-03	2.059E-03	1.620E-03
14	0.260	8.914E-03	1.101E-02	9.964E-03	63	2.160	7.139E-04	1.592E-03	1.153E-03
15	0.280	9.367E-03	1.128E-02	1.033E-02	64	2.220	5.376E-05	8.446E-04	4.492E-04
16	0.300	7.577E-03	9.337E-03	8.457E-03	65	2.280	6.647E-04	1.531E-03	1.098E-03
17	0.320	6.685E-03	8.399E-03	7.542E-03	66	2.340	8.595E-04	1.790E-03	1.325E-03
18	0.340	7.095E-03	8.827E-03	7.961E-03	67	2.405	7.484E-04	1.661E-03	1.205E-03
19	0.360	7.443E-03	9.241E-03	8.342E-03	68	2.475	1.110E-03	1.958E-03	1.534E-03
20	0.380	9.042E-03	1.087E-02	9.957E-03	69	2.545	6.996E-04	1.502E-03	1.101E-03
21	0.400	9.817E-03	1.170E-02	1.076E-02	70	2.615	5.187E-04	1.293E-03	9.059E-04
22	0.420	9.525E-03	1.127E-02	1.040E-02	71	2.685	8.520E-04	1.688E-03	1.270E-03
23	0.445	7.683E-03	9.286E-03	8.484E-03	72	2.755	4.729E-04	1.204E-03	8.383E-04
24	0.475	4.332E-03	5.799E-03	5.066E-03	73	2.825	9.199E-04	1.716E-03	1.318E-03
25	0.505	4.613E-03	6.080E-03	5.347E-03	74	2.895	8.541E-04	1.648E-03	1.251E-03
26	0.535	6.774E-03	8.273E-03	7.524E-03	75	2.965	-7.787E-05	5.329E-04	2.275E-04
27	0.565	6.884E-03	8.408E-03	7.646E-03	76	3.035	-5.180E-04	1.113E-04	-2.033E-04
28	0.595	9.653E-03	1.121E-02	1.043E-02	77	3.110	-6.653E-04	-4.188E-05	-3.536E-04
29	0.625	7.790E-03	9.265E-03	8.528E-03	78	3.190	-6.525E-04	-4.993E-05	-3.512E-04
30	0.655	3.585E-03	4.866E-03	4.226E-03	79	3.270	-4.013E-05	6.009E-04	2.804E-04
31	0.685	5.100E-03	6.439E-03	5.769E-03	80	3.350	-1.383E-04	4.365E-04	1.491E-04
32	0.715	5.780E-03	7.101E-03	6.441E-03	81	3.430	-1.855E-04	3.371E-04	7.580E-05
33	0.745	3.490E-03	4.752E-03	4.121E-03	82	3.510	1.945E-04	7.041E-04	4.493E-04
34	0.775	3.108E-03	4.338E-03	3.723E-03	83	3.590	3.593E-04	8.586E-04	6.089E-04
35	0.810	4.556E-03	5.923E-03	5.240E-03	84	3.670	4.844E-04	9.889E-04	7.366E-04
36	0.850	6.051E-03	7.434E-03	6.742E-03	85	3.750	2.708E-04	6.918E-04	4.813E-04
37	0.890	5.069E-03	6.422E-03	5.745E-03	86	3.830	-3.012E-05	3.577E-04	1.638E-04
38	0.930	5.200E-03	6.566E-03	5.883E-03	87	3.915	-1.078E-04	2.949E-04	9.357E-05
39	0.970	4.767E-03	6.078E-03	5.422E-03	88	4.005	-1.781E-04	2.240E-04	2.293E-05
40	1.010	4.755E-03	6.112E-03	5.433E-03	89	4.095	-1.783E-04	2.170E-04	1.939E-05
41	1.050	3.972E-03	5.217E-03	4.594E-03	90	4.185	-2.442E-05	3.956E-04	1.856E-04
42	1.090	2.885E-03	4.043E-03	3.464E-03	91	4.275	7.172E-05	5.001E-04	2.859E-04
43	1.130	4.292E-03	5.471E-03	4.882E-03	92	4.365	-1.783E-05	4.093E-04	1.957E-04
44	1.170	3.302E-03	4.355E-03	3.829E-03	93	4.455	-2.231E-04	2.076E-04	-7.787E-06
45	1.210	3.061E-03	4.078E-03	3.569E-03	94	4.550	-4.462E-04	1.435E-06	-2.224E-04
46	1.250	3.585E-03	5.028E-03	4.306E-03	95	4.650	-4.513E-04	-4.346E-05	-2.474E-04
47	1.295	3.745E-03	4.748E-03	4.247E-03	96	4.750	-2.328E-04	9.690E-05	-6.798E-05
48	1.345	4.324E-03	5.461E-03	4.892E-03	97	4.850	4.590E-05	2.876E-04	1.667E-04
49	1.395	3.562E-03	4.657E-03	4.110E-03	98	4.950	1.852E-04	3.937E-04	2.894E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 95 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.416E-02	3.454E-02	2.435E-02	50	1.445	2.719E-03	3.611E-03	3.165E-03
2	0.111	9.443E-03	3.419E-02	2.182E-02	51	1.495	1.580E-03	2.350E-03	1.965E-03
3	0.117	-1.327E-03	2.628E-02	1.248E-02	52	1.545	1.175E-03	1.911E-03	1.543E-03
4	0.125	-3.161E-03	1.192E-02	4.381E-03	53	1.595	4.978E-04	1.158E-03	8.280E-04
5	0.135	-3.885E-06	9.703E-03	4.850E-03	54	1.645	8.459E-04	1.581E-03	1.214E-03
6	0.145	-2.068E-03	1.364E-02	5.786E-03	55	1.695	1.327E-03	2.064E-03	1.695E-03
7	0.155	1.299E-03	8.379E-03	4.839E-03	56	1.745	1.275E-03	2.021E-03	1.648E-03
8	0.165	2.804E-03	7.670E-03	5.237E-03	57	1.800	4.633E-04	1.141E-03	8.021E-04
9	0.175	2.082E-03	9.450E-03	5.766E-03	58	1.860	6.230E-04	1.353E-03	9.882E-04
10	0.185	4.073E-03	7.495E-03	5.784E-03	59	1.920	2.263E-04	9.093E-04	5.678E-04
11	0.200	5.857E-03	8.116E-03	6.987E-03	60	1.980	2.178E-04	8.755E-04	5.466E-04
12	0.220	5.833E-03	8.100E-03	6.966E-03	61	2.040	8.411E-04	1.562E-03	1.202E-03
13	0.240	4.728E-03	6.616E-03	5.672E-03	62	2.100	4.371E-04	1.097E-03	7.669E-04
14	0.260	4.358E-03	5.969E-03	5.164E-03	63	2.160	4.839E-04	1.165E-03	8.245E-04
15	0.280	4.951E-03	6.454E-03	5.703E-03	64	2.220	3.747E-04	1.012E-03	6.934E-04
16	0.300	4.800E-03	6.217E-03	5.508E-03	65	2.280	3.889E-04	1.071E-03	7.300E-04
17	0.320	4.436E-03	5.823E-03	5.130E-03	66	2.340	7.889E-04	1.466E-03	1.127E-03
18	0.340	4.540E-03	5.939E-03	5.240E-03	67	2.405	1.767E-04	8.167E-04	4.967E-04
19	0.360	5.008E-03	6.461E-03	5.735E-03	68	2.475	3.578E-05	6.472E-04	3.415E-04
20	0.380	5.038E-03	6.478E-03	5.758E-03	69	2.545	5.555E-05	6.375E-04	3.465E-04
21	0.400	5.544E-03	7.036E-03	6.290E-03	70	2.615	6.376E-05	6.546E-04	3.592E-04
22	0.420	5.307E-03	6.687E-03	5.997E-03	71	2.685	8.609E-05	7.025E-04	3.943E-04
23	0.445	4.093E-03	5.365E-03	4.729E-03	72	2.755	-4.022E-05	5.413E-04	2.505E-04
24	0.475	3.023E-03	4.227E-03	3.625E-03	73	2.825	-1.566E-04	3.906E-04	1.170E-04
25	0.505	2.813E-03	3.999E-03	3.406E-03	74	2.895	1.428E-04	7.519E-04	4.473E-04
26	0.535	3.789E-03	4.982E-03	4.386E-03	75	2.965	2.256E-04	7.982E-04	5.119E-04
27	0.565	4.349E-03	5.565E-03	4.957E-03	76	3.035	1.604E-05	5.436E-04	2.798E-04
28	0.595	4.515E-03	5.697E-03	5.106E-03	77	3.110	1.940E-05	5.062E-04	2.628E-04
29	0.625	3.916E-03	5.065E-03	4.490E-03	78	3.190	-7.323E-05	4.370E-04	1.819E-04
30	0.655	2.631E-03	3.689E-03	3.160E-03	79	3.270	3.220E-05	5.216E-04	2.769E-04
31	0.685	2.635E-03	3.699E-03	3.167E-03	80	3.350	2.125E-04	7.101E-04	4.613E-04
32	0.715	3.318E-03	4.397E-03	3.858E-03	81	3.430	-2.162E-05	3.709E-04	1.746E-04
33	0.745	3.297E-03	4.387E-03	3.842E-03	82	3.510	-1.428E-04	2.925E-04	7.485E-05
34	0.775	2.610E-03	3.635E-03	3.122E-03	83	3.590	-6.813E-05	3.421E-04	1.370E-04
35	0.810	2.035E-03	3.090E-03	2.563E-03	84	3.670	-6.323E-05	3.429E-04	1.399E-04
36	0.850	3.917E-03	5.040E-03	4.478E-03	85	3.750	-6.058E-05	2.781E-04	1.087E-04
37	0.890	2.461E-03	3.511E-03	2.986E-03	86	3.830	-1.436E-04	2.227E-04	3.952E-05
38	0.930	2.895E-03	3.999E-03	3.447E-03	87	3.915	-1.928E-04	1.644E-04	-1.419E-05
39	0.970	3.800E-03	4.912E-03	4.356E-03	88	4.005	-2.393E-04	1.535E-04	-4.286E-05
40	1.010	3.026E-03	4.120E-03	3.573E-03	89	4.095	-1.394E-04	2.370E-04	4.882E-05
41	1.050	2.091E-03	3.086E-03	2.588E-03	90	4.185	-8.089E-06	3.398E-04	1.659E-04
42	1.090	2.153E-03	3.118E-03	2.636E-03	91	4.275	-2.048E-05	3.030E-04	1.413E-04
43	1.130	2.687E-03	3.640E-03	3.164E-03	92	4.365	-8.156E-05	2.443E-04	8.136E-05
44	1.170	2.160E-03	3.001E-03	2.580E-03	93	4.455	-1.088E-04	1.921E-04	4.165E-05
45	1.210	1.759E-03	2.580E-03	2.170E-03	94	4.550	-1.539E-04	1.204E-04	-1.676E-05
46	1.250	1.541E-03	2.642E-03	2.092E-03	95	4.650	-1.715E-04	9.700E-05	-3.727E-05
47	1.295	2.512E-03	3.349E-03	2.931E-03	96	4.750	-8.987E-05	1.226E-04	1.638E-05
48	1.345	2.817E-03	3.744E-03	3.280E-03	97	4.850	3.061E-05	1.848E-04	1.077E-04
49	1.395	2.619E-03	3.525E-03	3.072E-03	98	4.950	9.507E-05	2.074E-04	1.512E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 155 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.338E-02	2.463E-02	1.901E-02	50	1.445	1.069E-03	1.506E-03	1.288E-03
2	0.111	8.000E-03	2.182E-02	1.491E-02	51	1.495	7.670E-04	1.162E-03	9.644E-04
3	0.117	-7.668E-04	1.439E-02	6.810E-03	52	1.545	6.963E-04	1.090E-03	8.932E-04
4	0.125	-2.741E-03	5.481E-03	1.370E-03	53	1.595	6.917E-04	1.071E-03	8.815E-04
5	0.135	5.525E-05	5.515E-03	2.785E-03	54	1.645	5.061E-04	8.510E-04	6.786E-04
6	0.145	-7.034E-04	8.122E-03	3.709E-03	55	1.695	2.343E-04	5.700E-04	4.021E-04
7	0.155	7.263E-04	4.699E-03	2.713E-03	56	1.745	3.006E-04	6.591E-04	4.798E-04
8	0.165	1.571E-03	4.221E-03	2.896E-03	57	1.800	2.912E-04	6.498E-04	4.705E-04
9	0.175	1.360E-03	5.397E-03	3.379E-03	58	1.860	4.177E-04	7.970E-04	6.074E-04
10	0.185	2.423E-03	4.279E-03	3.351E-03	59	1.920	2.384E-04	5.912E-04	4.148E-04
11	0.200	3.542E-03	4.751E-03	4.147E-03	60	1.980	1.893E-04	5.246E-04	3.570E-04
12	0.220	3.222E-03	4.429E-03	3.826E-03	61	2.040	4.007E-04	7.542E-04	5.774E-04
13	0.240	2.661E-03	3.665E-03	3.163E-03	62	2.100	2.480E-04	5.843E-04	4.162E-04
14	0.260	2.885E-03	3.239E-03	2.812E-03	63	2.160	6.485E-05	3.865E-04	2.257E-04
15	0.280	2.866E-03	3.669E-03	3.267E-03	64	2.220	1.412E-04	4.539E-04	2.975E-04
16	0.300	3.045E-03	3.813E-03	3.429E-03	65	2.280	8.258E-05	4.116E-04	2.471E-04
17	0.320	2.877E-03	3.632E-03	3.255E-03	66	2.340	1.769E-04	5.044E-04	3.407E-04
18	0.340	2.956E-03	3.712E-03	3.334E-03	67	2.405	3.287E-04	6.853E-04	5.070E-04
19	0.360	2.859E-03	3.628E-03	3.244E-03	68	2.475	1.524E-04	4.605E-04	3.064E-04
20	0.380	2.628E-03	3.377E-03	3.002E-03	69	2.545	5.013E-05	3.389E-04	1.945E-04
21	0.400	2.803E-03	3.573E-03	3.188E-03	70	2.615	8.522E-05	3.746E-04	2.299E-04
22	0.420	2.538E-03	3.258E-03	2.898E-03	71	2.685	1.103E-04	4.125E-04	2.614E-04
23	0.445	2.407E-03	3.098E-03	2.753E-03	72	2.755	2.294E-04	5.388E-04	3.841E-04
24	0.475	2.124E-03	2.785E-03	2.454E-03	73	2.825	1.104E-04	3.784E-04	2.444E-04
25	0.505	1.700E-03	2.330E-03	2.015E-03	74	2.895	8.314E-05	3.723E-04	2.277E-04
26	0.535	1.667E-03	2.277E-03	1.972E-03	75	2.965	2.303E-05	2.886E-04	1.558E-04
27	0.565	2.192E-03	2.822E-03	2.507E-03	76	3.035	-8.365E-05	1.557E-04	3.600E-05
28	0.595	2.552E-03	3.179E-03	2.865E-03	77	3.110	-8.472E-05	1.410E-04	2.816E-05
29	0.625	2.092E-03	2.696E-03	2.394E-03	78	3.190	-6.000E-05	1.864E-04	6.320E-05
30	0.655	1.496E-03	2.061E-03	1.778E-03	79	3.270	-8.492E-05	1.610E-04	3.804E-05
31	0.685	1.683E-03	2.261E-03	1.972E-03	80	3.350	-9.785E-05	1.344E-04	1.825E-05
32	0.715	2.363E-03	2.967E-03	2.665E-03	81	3.430	-6.965E-05	1.796E-04	5.496E-05
33	0.745	2.376E-03	2.978E-03	2.677E-03	82	3.510	-1.309E-05	1.878E-04	8.733E-05
34	0.775	1.714E-03	2.275E-03	1.994E-03	83	3.590	-1.639E-05	2.131E-04	9.836E-05
35	0.810	1.569E-03	2.135E-03	1.852E-03	84	3.670	-5.763E-05	1.704E-04	5.637E-05
36	0.850	1.960E-03	2.536E-03	2.248E-03	85	3.750	-7.979E-05	1.277E-04	2.394E-05
37	0.890	1.672E-03	2.228E-03	1.950E-03	86	3.830	-8.189E-05	1.090E-04	1.354E-05
38	0.930	1.359E-03	1.926E-03	1.642E-03	87	3.915	-6.021E-05	1.267E-04	3.324E-05
39	0.970	2.274E-03	2.874E-03	2.574E-03	88	4.005	-2.938E-05	1.526E-04	6.162E-05
40	1.010	2.733E-03	3.355E-03	3.044E-03	89	4.095	-1.649E-05	1.884E-04	8.595E-05
41	1.050	1.858E-03	2.405E-03	2.131E-03	90	4.185	-1.325E-05	2.008E-04	9.376E-05
42	1.090	1.128E-03	1.612E-03	1.370E-03	91	4.275	-2.938E-05	1.507E-04	6.064E-05
43	1.130	1.358E-03	1.828E-03	1.593E-03	92	4.365	-7.495E-05	9.898E-05	1.202E-05
44	1.170	1.039E-03	1.468E-03	1.254E-03	93	4.455	-1.143E-04	4.572E-05	-3.427E-05
45	1.210	7.781E-04	1.171E-03	9.748E-04	94	4.550	-1.173E-04	2.339E-05	-4.698E-05
46	1.250	8.174E-04	1.380E-03	1.099E-03	95	4.650	-8.703E-05	6.974E-05	-8.642E-06
47	1.295	1.153E-03	1.558E-03	1.355E-03	96	4.750	-2.145E-05	1.055E-04	4.204E-05
48	1.345	1.527E-03	2.002E-03	1.765E-03	97	4.850	3.175E-05	1.098E-04	7.079E-05
49	1.395	1.336E-03	1.789E-03	1.563E-03	98	4.950	4.480E-05	1.004E-04	7.261E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 255 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.393E-02	2.003E-02	1.698E-02	50	1.445	5.761E-04	8.476E-04	7.118E-04
2	0.111	7.967E-03	1.535E-02	1.166E-02	51	1.495	3.503E-04	5.975E-04	4.739E-04
3	0.117	-9.457E-05	7.978E-03	3.942E-03	52	1.545	4.259E-04	6.628E-04	5.444E-04
4	0.125	-2.420E-03	1.900E-03	-2.603E-04	53	1.595	2.919E-04	5.132E-04	4.025E-04
5	0.135	-2.304E-04	2.972E-03	1.371E-03	54	1.645	1.603E-04	3.681E-04	2.642E-04
6	0.145	-1.464E-04	4.964E-03	2.409E-03	55	1.695	1.503E-04	3.568E-04	2.535E-04
7	0.155	4.911E-04	2.812E-03	1.651E-03	56	1.745	2.646E-04	4.863E-04	3.755E-04
8	0.165	1.020E-03	2.649E-03	1.835E-03	57	1.800	1.744E-04	3.990E-04	2.867E-04
9	0.175	1.131E-03	3.583E-03	2.357E-03	58	1.860	2.095E-04	4.292E-04	3.193E-04
10	0.185	1.594E-03	2.734E-03	2.164E-03	59	1.920	1.698E-04	3.829E-04	2.763E-04
11	0.200	1.908E-03	2.652E-03	2.280E-03	60	1.980	1.150E-04	3.200E-04	2.175E-04
12	0.220	1.375E-03	2.123E-03	1.749E-03	61	2.040	1.561E-04	3.477E-04	2.519E-04
13	0.240	1.400E-03	2.039E-03	1.719E-03	62	2.100	9.319E-05	2.992E-04	1.962E-04
14	0.260	1.554E-03	2.106E-03	1.830E-03	63	2.160	5.206E-05	2.441E-04	1.481E-04
15	0.280	1.666E-03	2.179E-03	1.922E-03	64	2.220	9.328E-05	2.883E-04	1.908E-04
16	0.300	1.833E-03	2.327E-03	2.080E-03	65	2.280	1.322E-04	3.274E-04	2.298E-04
17	0.320	2.027E-03	2.524E-03	2.276E-03	66	2.340	2.600E-05	2.171E-04	1.215E-04
18	0.340	2.092E-03	2.588E-03	2.340E-03	67	2.405	-1.924E-05	1.513E-04	6.604E-05
19	0.360	1.857E-03	2.346E-03	2.102E-03	68	2.475	9.306E-05	2.908E-04	1.919E-04
20	0.380	1.286E-03	1.741E-03	1.513E-03	69	2.545	6.514E-05	2.392E-04	1.522E-04
21	0.400	9.890E-04	1.445E-03	1.217E-03	70	2.615	3.780E-05	2.280E-04	1.329E-04
22	0.420	1.245E-03	1.697E-03	1.471E-03	71	2.685	4.341E-05	2.314E-04	1.374E-04
23	0.445	1.601E-03	2.050E-03	1.825E-03	72	2.755	4.714E-05	2.324E-04	1.398E-04
24	0.475	1.213E-03	1.629E-03	1.421E-03	73	2.825	3.061E-05	2.147E-04	1.226E-04
25	0.505	7.210E-04	1.107E-03	9.139E-04	74	2.895	-3.583E-05	1.439E-04	5.405E-05
26	0.535	7.000E-04	1.068E-03	8.838E-04	75	2.965	-5.856E-05	1.084E-04	2.490E-05
27	0.565	7.573E-04	1.134E-03	9.456E-04	76	3.035	-1.086E-04	5.975E-05	-2.443E-05
28	0.595	1.206E-03	1.595E-03	1.401E-03	77	3.110	-9.120E-05	7.261E-05	-9.295E-06
29	0.625	1.387E-03	1.781E-03	1.584E-03	78	3.190	-3.573E-05	1.397E-04	5.198E-05
30	0.655	6.386E-04	9.956E-04	8.171E-04	79	3.270	-8.323E-05	1.028E-04	9.785E-06
31	0.685	1.003E-03	1.376E-03	1.189E-03	80	3.350	-9.085E-05	1.230E-04	1.609E-05
32	0.715	1.659E-03	2.056E-03	1.857E-03	81	3.430	-3.698E-05	1.276E-04	4.532E-05
33	0.745	1.190E-03	1.560E-03	1.375E-03	82	3.510	5.633E-05	1.942E-04	1.253E-04
34	0.775	8.494E-04	1.198E-03	1.024E-03	83	3.590	3.254E-05	1.650E-04	9.877E-05
35	0.810	7.861E-04	1.150E-03	9.680E-04	84	3.670	-3.761E-05	8.093E-05	2.166E-05
36	0.850	1.363E-03	1.750E-03	1.556E-03	85	3.750	-2.809E-05	8.405E-05	2.798E-05
37	0.890	1.277E-03	1.650E-03	1.464E-03	86	3.830	-2.311E-05	7.970E-05	2.830E-05
38	0.930	1.131E-03	1.512E-03	1.322E-03	87	3.915	-2.642E-05	7.587E-05	2.472E-05
39	0.970	1.453E-03	1.841E-03	1.647E-03	88	4.005	-1.482E-06	1.063E-04	5.242E-05
40	1.010	1.751E-03	2.145E-03	1.948E-03	89	4.095	1.852E-05	1.152E-04	6.688E-05
41	1.050	9.203E-04	1.260E-03	1.090E-03	90	4.185	1.391E-05	1.164E-04	6.516E-05
42	1.090	8.166E-04	1.131E-03	9.739E-04	91	4.275	-4.034E-06	8.556E-05	4.076E-05
43	1.130	1.174E-03	1.501E-03	1.337E-03	92	4.365	-3.529E-05	4.657E-05	5.636E-06
44	1.170	6.820E-04	9.502E-04	8.161E-04	93	4.455	-7.105E-05	1.025E-05	-3.040E-05
45	1.210	6.658E-04	9.262E-04	7.960E-04	94	4.550	-9.353E-05	-9.730E-06	-5.163E-05
46	1.250	5.369E-04	8.888E-04	7.129E-04	95	4.650	-7.894E-05	1.955E-06	-3.849E-05
47	1.295	5.994E-04	8.456E-04	7.225E-04	96	4.750	-3.559E-05	2.839E-05	-3.597E-06
48	1.345	6.589E-04	9.326E-04	7.958E-04	97	4.850	8.587E-06	5.476E-05	3.167E-05
49	1.395	5.942E-04	8.658E-04	7.300E-04	98	4.950	2.604E-05	6.498E-05	4.551E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 395 SEC

COUNTING TIME : 100 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
	1 0.105	1.294E-02	1.630E-02		1.462E-02	50 1.445	1.876E-04
2 0.111	7.437E-03	1.115E-02	9.295E-03	51 1.495	2.350E-04	3.936E-04	3.143E-04
3 0.117	5.113E-06	4.597E-03	2.301E-03	52 1.545	1.626E-04	3.054E-04	2.340E-04
4 0.125	-2.189E-03	2.761E-05	-1.081E-03	53 1.595	1.770E-04	3.198E-04	2.484E-04
5 0.135	-1.851E-04	1.875E-03	8.450E-04	54 1.645	1.946E-04	3.290E-04	2.618E-04
6 0.145	3.230E-04	3.543E-03	1.933E-03	55 1.695	1.801E-04	3.172E-04	2.486E-04
7 0.155	3.551E-04	1.828E-03	1.092E-03	56 1.745	3.688E-05	1.588E-04	9.782E-05
8 0.165	7.682E-04	1.825E-03	1.296E-03	57 1.800	1.243E-04	2.616E-04	1.929E-04
9 0.175	1.029E-03	2.618E-03	1.823E-03	58 1.860	1.887E-04	3.262E-04	2.574E-04
10 0.185	1.235E-03	1.971E-03	1.603E-03	59 1.920	1.423E-04	2.750E-04	2.087E-04
11 0.200	1.531E-03	2.008E-03	1.769E-03	60 1.980	9.782E-05	2.187E-04	1.583E-04
12 0.220	1.051E-03	1.527E-03	1.289E-03	61 2.040	1.878E-04	3.144E-04	2.511E-04
13 0.240	8.708E-04	1.271E-03	1.071E-03	62 2.100	1.386E-04	2.644E-04	2.015E-04
14 0.260	9.174E-04	1.263E-03	1.090E-03	63 2.160	5.740E-05	1.717E-04	1.146E-04
15 0.280	1.117E-03	1.444E-03	1.281E-03	64 2.220	5.300E-05	1.611E-04	1.071E-04
16 0.300	1.480E-03	1.803E-03	1.641E-03	65 2.280	2.116E-05	1.288E-04	7.499E-05
17 0.320	1.583E-03	1.904E-03	1.744E-03	66 2.340	1.755E-06	9.744E-05	4.960E-05
18 0.340	1.209E-03	1.514E-03	1.362E-03	67 2.405	-1.227E-05	9.319E-05	4.046E-05
19 0.360	1.019E-03	1.318E-03	1.169E-03	68 2.475	-5.129E-05	4.830E-05	-1.494E-06
20 0.380	8.689E-04	1.155E-03	1.012E-03	69 2.545	-5.035E-05	5.092E-05	2.831E-07
21 0.400	7.152E-04	1.005E-03	8.601E-04	70 2.615	-6.127E-06	9.804E-05	4.596E-05
22 0.420	7.189E-04	1.001E-03	8.598E-04	71 2.685	7.889E-05	1.993E-04	1.391E-04
23 0.445	1.053E-03	1.340E-03	1.197E-03	72 2.755	6.573E-05	1.766E-04	1.212E-04
24 0.475	1.049E-03	1.321E-03	1.185E-03	73 2.825	2.393E-06	9.388E-05	4.814E-05
25 0.505	5.547E-04	8.003E-04	6.775E-04	74 2.895	6.364E-07	9.608E-05	4.836E-05
26 0.535	3.815E-04	6.119E-04	4.967E-04	75 2.965	9.249E-06	1.027E-04	5.595E-05
27 0.565	6.270E-04	8.679E-04	7.474E-04	76 3.035	-1.394E-05	8.121E-05	3.363E-05
28 0.595	7.540E-04	9.934E-04	8.737E-04	77 3.110	-5.162E-05	3.855E-05	-6.533E-06
29 0.625	5.778E-04	8.107E-04	6.943E-04	78 3.190	-6.387E-05	1.743E-05	-2.322E-05
30 0.655	7.357E-04	9.711E-04	8.534E-04	79 3.270	-4.767E-05	3.823E-05	-4.724E-06
31 0.685	6.321E-04	8.628E-04	7.475E-04	80 3.350	-1.673E-05	7.689E-05	3.008E-05
32 0.715	8.513E-04	1.088E-03	9.697E-04	81 3.430	-2.198E-06	8.764E-05	4.272E-05
33 0.745	8.951E-04	1.134E-03	1.014E-03	82 3.510	-1.590E-06	8.075E-05	3.958E-05
34 0.775	6.937E-04	9.189E-04	8.063E-04	83 3.590	1.706E-05	1.103E-04	6.369E-05
35 0.810	6.480E-04	8.776E-04	7.628E-04	84 3.670	4.765E-06	1.087E-04	5.674E-05
36 0.850	8.565E-04	1.093E-03	9.746E-04	85 3.750	-3.488E-05	5.485E-05	9.987E-06
37 0.890	8.085E-04	1.042E-03	9.255E-04	86 3.830	-6.499E-05	1.898E-05	-2.301E-05
38 0.930	8.090E-04	1.047E-03	9.280E-04	87 3.915	-7.553E-05	1.775E-05	-2.889E-05
39 0.970	9.425E-04	1.176E-03	1.060E-03	88 4.005	-7.593E-05	1.828E-05	-2.883E-05
40 1.010	8.392E-04	1.073E-03	9.559E-04	89 4.095	-5.404E-05	2.266E-05	-1.569E-05
41 1.050	6.975E-04	9.131E-04	8.053E-04	90 4.185	-2.931E-05	6.680E-05	1.874E-05
42 1.090	5.266E-04	7.203E-04	6.234E-04	91 4.275	1.591E-06	8.103E-05	4.131E-05
43 1.130	4.622E-04	6.430E-04	5.526E-04	92 4.365	1.125E-06	8.596E-05	4.354E-05
44 1.170	4.117E-04	5.824E-04	4.971E-04	93 4.455	-1.052E-05	7.397E-05	3.172E-05
45 1.210	3.084E-04	4.570E-04	3.827E-04	94 4.550	-1.946E-05	3.328E-05	6.907E-06
46 1.250	3.228E-04	5.392E-04	4.310E-04	95 4.650	-2.332E-05	1.476E-05	-4.281E-06
47 1.295	2.709E-04	4.102E-04	3.405E-04	96 4.750	-1.072E-05	2.178E-05	5.529E-06
48 1.345	3.360E-04	5.045E-04	4.202E-04	97 4.850	4.160E-06	2.808E-05	1.612E-05
49 1.395	3.785E-04	5.486E-04	4.636E-04	98 4.950	1.060E-05	2.717E-05	1.888E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 595 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.150E-02	1.373E-02	1.261E-02	50	1.445	1.358E-04	2.349E-04	1.853E-04
2	0.111	6.696E-03	9.156E-03	7.926E-03	51	1.495	1.114E-04	2.026E-04	1.570E-04
3	0.117	3.280E-04	3.380E-03	1.854E-03	52	1.545	1.116E-04	1.929E-04	1.522E-04
4	0.125	-1.737E-03	-2.668E-04	-1.002E-03	53	1.595	7.570E-05	1.495E-04	1.126E-04
5	0.135	-8.370E-05	1.275E-03	5.954E-04	54	1.645	4.931E-05	1.202E-04	8.477E-05
6	0.145	2.616E-04	2.392E-03	1.327E-03	55	1.695	9.332E-05	1.662E-04	1.297E-04
7	0.155	2.734E-04	1.244E-03	7.587E-04	56	1.745	1.019E-04	1.809E-04	1.414E-04
8	0.165	6.126E-04	1.273E-03	9.427E-04	57	1.800	6.411E-05	1.380E-04	1.011E-04
9	0.175	6.929E-04	1.696E-03	1.194E-03	58	1.860	8.787E-05	1.658E-04	1.268E-04
10	0.185	8.787E-04	1.335E-03	1.107E-03	59	1.920	6.639E-05	1.368E-04	1.016E-04
11	0.200	1.074E-03	1.365E-03	1.219E-03	60	1.980	8.857E-05	1.623E-04	1.254E-04
12	0.220	7.626E-04	1.054E-03	9.083E-04	61	2.040	7.983E-05	1.500E-04	1.149E-04
13	0.240	6.694E-04	9.148E-04	7.921E-04	62	2.100	7.886E-05	1.468E-04	1.128E-04
14	0.260	7.406E-04	9.523E-04	8.464E-04	63	2.160	2.023E-05	7.805E-05	4.914E-05
15	0.280	8.304E-04	1.029E-03	9.296E-04	64	2.220	2.529E-05	8.711E-05	5.620E-05
16	0.300	1.174E-03	1.371E-03	1.272E-03	65	2.280	5.918E-05	1.232E-04	9.120E-05
17	0.320	1.283E-03	1.479E-03	1.381E-03	66	2.340	3.807E-05	9.798E-05	6.803E-05
18	0.340	9.092E-04	1.093E-03	1.001E-03	67	2.405	-1.925E-05	3.593E-05	8.337E-06
19	0.360	7.148E-04	8.925E-04	8.036E-04	68	2.475	2.670E-05	8.478E-05	5.574E-05
20	0.380	5.871E-04	7.566E-04	6.718E-04	69	2.545	2.450E-05	8.313E-05	5.381E-05
21	0.400	5.298E-04	7.025E-04	6.162E-04	70	2.615	2.251E-06	5.674E-05	2.950E-05
22	0.420	5.597E-04	7.268E-04	6.433E-04	71	2.685	-7.525E-06	4.887E-05	2.067E-05
23	0.445	6.711E-04	8.376E-04	7.544E-04	72	2.755	-1.004E-06	5.643E-05	2.771E-05
24	0.475	6.753E-04	8.365E-04	7.559E-04	73	2.825	1.056E-05	6.633E-05	3.845E-05
25	0.505	5.598E-04	7.125E-04	6.361E-04	74	2.895	-1.016E-05	5.470E-05	2.227E-05
26	0.535	4.231E-04	5.658E-04	4.944E-04	75	2.965	2.228E-06	4.990E-05	2.606E-05
27	0.565	3.644E-04	5.061E-04	4.353E-04	76	3.035	-4.161E-06	4.549E-05	2.066E-05
28	0.595	7.013E-04	8.499E-04	7.756E-04	77	3.110	-1.320E-05	3.236E-05	9.579E-06
29	0.625	5.495E-04	6.921E-04	6.208E-04	78	3.190	-1.593E-05	3.038E-05	7.226E-06
30	0.655	3.947E-04	5.281E-04	4.614E-04	79	3.270	-1.502E-05	3.236E-05	8.672E-06
31	0.685	3.542E-04	4.866E-04	4.204E-04	80	3.350	-7.874E-06	3.532E-05	1.373E-05
32	0.715	5.703E-04	7.077E-04	6.390E-04	81	3.430	-6.849E-06	3.574E-05	1.445E-05
33	0.745	5.130E-04	6.482E-04	5.806E-04	82	3.510	-5.737E-06	2.977E-05	1.202E-05
34	0.775	3.564E-04	4.838E-04	4.201E-04	83	3.590	-4.111E-06	3.557E-05	1.573E-05
35	0.810	4.061E-04	5.396E-04	4.729E-04	84	3.670	-8.562E-06	3.399E-05	1.271E-05
36	0.850	5.022E-04	6.387E-04	5.705E-04	85	3.750	-1.405E-05	2.495E-05	5.451E-06
37	0.890	5.937E-04	7.344E-04	6.640E-04	86	3.830	-1.586E-05	2.222E-05	3.179E-06
38	0.930	6.550E-04	7.993E-04	7.272E-04	87	3.915	-1.712E-05	2.094E-05	1.911E-06
39	0.970	6.144E-04	7.522E-04	6.833E-04	88	4.005	-1.907E-05	2.084E-05	8.857E-07
40	1.010	6.663E-04	8.086E-04	7.375E-04	89	4.095	-1.385E-05	2.531E-05	5.733E-06
41	1.050	5.444E-04	6.715E-04	6.079E-04	90	4.185	-1.049E-05	3.585E-05	1.268E-05
42	1.090	3.007E-04	4.117E-04	3.562E-04	91	4.275	-1.251E-05	3.407E-05	1.078E-05
43	1.130	3.144E-04	4.188E-04	3.666E-04	92	4.365	-1.997E-05	2.250E-05	1.265E-06
44	1.170	3.086E-04	4.090E-04	3.588E-04	93	4.455	-2.808E-05	1.146E-05	-8.311E-06
45	1.210	2.283E-04	3.197E-04	2.740E-04	94	4.550	-3.185E-05	6.362E-06	-1.274E-05
46	1.250	2.820E-04	4.093E-04	3.456E-04	95	4.650	-2.805E-05	1.084E-05	-8.606E-06
47	1.295	2.923E-04	3.816E-04	3.369E-04	96	4.750	-1.536E-05	1.790E-05	1.266E-06
48	1.345	2.589E-04	3.568E-04	3.078E-04	97	4.850	9.179E-07	2.300E-05	1.196E-05
49	1.395	1.547E-04	2.482E-04	2.014E-04	98	4.950	8.129E-06	2.569E-05	1.691E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 995 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.936E-03	1.034E-02	9.640E-03	50	1.445	1.728E-04	2.393E-04	2.051E-04
2	0.111	5.315E-03	6.862E-03	6.088E-03	51	1.495	8.701E-05	1.450E-04	1.160E-04
3	0.117	4.908E-04	2.410E-03	1.451E-03	52	1.545	2.198E-05	6.762E-05	4.480E-05
4	0.125	-1.262E-03	-3.335E-04	-7.979E-04	53	1.595	5.043E-05	9.438E-05	7.240E-05
5	0.135	-7.508E-05	7.692E-04	3.470E-04	54	1.645	4.543E-05	8.547E-05	6.545E-05
6	0.145	2.704E-04	1.597E-03	9.338E-04	55	1.695	5.574E-05	9.842E-05	7.708E-05
7	0.155	2.023E-04	8.071E-04	5.047E-04	56	1.745	5.442E-05	9.864E-05	7.653E-05
8	0.165	4.369E-04	8.317E-04	6.343E-04	57	1.800	5.364E-05	9.581E-05	7.473E-05
9	0.175	5.288E-04	1.131E-03	8.301E-04	58	1.860	4.268E-05	8.383E-05	6.326E-05
10	0.185	5.991E-04	8.711E-04	7.351E-04	59	1.920	2.378E-05	6.243E-05	4.311E-05
11	0.200	7.209E-04	8.915E-04	8.062E-04	60	1.980	3.275E-05	7.085E-05	5.180E-05
12	0.220	5.138E-04	6.839E-04	5.988E-04	61	2.040	8.673E-05	1.276E-04	1.072E-04
13	0.240	3.828E-04	5.243E-04	4.536E-04	62	2.100	5.627E-05	9.478E-05	7.552E-05
14	0.260	4.022E-04	5.242E-04	4.632E-04	63	2.160	1.740E-05	5.016E-05	3.378E-05
15	0.280	5.578E-04	6.749E-04	6.163E-04	64	2.220	3.600E-05	7.205E-05	5.403E-05
16	0.300	8.556E-04	9.735E-04	9.146E-04	65	2.280	3.016E-05	6.172E-05	4.594E-05
17	0.320	9.816E-04	1.100E-03	1.041E-03	66	2.340	6.792E-06	3.744E-05	2.212E-05
18	0.340	7.289E-04	8.401E-04	7.845E-04	67	2.405	-3.006E-06	2.272E-05	9.858E-06
19	0.360	4.661E-04	5.699E-04	5.180E-04	68	2.475	4.239E-06	3.384E-05	1.904E-05
20	0.380	3.270E-04	4.239E-04	3.755E-04	69	2.545	-3.525E-07	2.845E-05	1.405E-05
21	0.400	2.719E-04	3.706E-04	3.213E-04	70	2.615	7.122E-06	3.744E-05	2.228E-05
22	0.420	3.781E-04	4.763E-04	4.272E-04	71	2.685	5.682E-07	3.494E-05	1.775E-05
23	0.445	4.619E-04	5.595E-04	5.107E-04	72	2.755	2.481E-06	3.486E-05	1.867E-05
24	0.475	4.225E-04	5.154E-04	4.689E-04	73	2.825	3.201E-06	2.974E-05	1.647E-05
25	0.505	3.114E-04	3.990E-04	3.552E-04	74	2.895	-8.165E-06	1.640E-05	4.116E-06
26	0.535	2.554E-04	3.388E-04	2.971E-04	75	2.965	-9.690E-06	1.561E-05	2.957E-06
27	0.565	2.521E-04	3.356E-04	2.939E-04	76	3.035	-1.332E-05	1.025E-05	-1.532E-06
28	0.595	3.325E-04	4.156E-04	3.740E-04	77	3.110	-1.680E-05	8.078E-06	-4.360E-06
29	0.625	3.325E-04	4.152E-04	3.738E-04	78	3.190	-1.584E-05	9.345E-06	-3.247E-06
30	0.655	2.807E-04	3.592E-04	3.199E-04	79	3.270	-8.777E-06	1.725E-05	4.237E-06
31	0.685	1.954E-04	2.703E-04	2.328E-04	80	3.350	-3.557E-06	1.895E-05	7.697E-06
32	0.715	2.042E-04	2.779E-04	2.411E-04	81	3.430	-1.068E-05	1.452E-05	1.920E-06
33	0.745	2.853E-04	3.630E-04	3.242E-04	82	3.510	-9.771E-06	1.501E-05	2.620E-06
34	0.775	2.512E-04	3.268E-04	2.890E-04	83	3.590	5.423E-07	2.161E-05	1.108E-05
35	0.810	2.697E-04	3.490E-04	3.093E-04	84	3.670	2.670E-06	2.410E-05	1.339E-05
36	0.850	3.745E-04	4.560E-04	4.153E-04	85	3.750	-1.494E-06	1.431E-05	6.409E-06
37	0.890	4.226E-04	5.058E-04	4.642E-04	86	3.830	-5.893E-06	1.003E-05	2.067E-06
38	0.930	4.361E-04	5.212E-04	4.786E-04	87	3.915	-2.734E-06	1.483E-05	6.046E-06
39	0.970	4.001E-04	4.803E-04	4.402E-04	88	4.005	6.847E-07	1.976E-05	1.022E-05
40	1.010	3.562E-04	4.356E-04	3.959E-04	89	4.095	2.859E-07	1.523E-05	7.760E-06
41	1.050	2.518E-04	3.238E-04	2.878E-04	90	4.185	-2.601E-06	1.315E-05	5.274E-06
42	1.090	1.788E-04	2.444E-04	2.116E-04	91	4.275	-5.085E-06	1.176E-05	3.338E-06
43	1.130	1.415E-04	2.019E-04	1.717E-04	92	4.365	-9.480E-06	5.694E-06	-1.893E-06
44	1.170	1.308E-04	1.874E-04	1.591E-04	93	4.455	-1.451E-05	2.498E-07	-7.130E-06
45	1.210	1.196E-04	1.733E-04	1.465E-04	94	4.550	-1.504E-05	-8.050E-08	-7.559E-06
46	1.250	1.054E-04	1.774E-04	1.414E-04	95	4.650	-1.047E-05	3.799E-06	-3.334E-06
47	1.295	1.511E-04	2.013E-04	1.762E-04	96	4.750	-3.275E-06	7.602E-06	2.164E-06
48	1.345	9.850E-05	1.549E-04	1.267E-04	97	4.850	2.072E-06	1.050E-05	6.286E-06
49	1.395	1.312E-04	1.937E-04	1.625E-04	98	4.950	3.462E-06	1.052E-05	6.993E-06



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1795 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.170E-03	7.164E-03	6.667E-03	50	1.445	1.083E-04	1.721E-04	1.402E-04
2	0.111	3.646E-03	4.723E-03	4.184E-03	51	1.495	7.499E-05	1.302E-04	1.026E-04
3	0.117	3.164E-04	1.642E-03	9.793E-04	52	1.545	3.758E-05	8.094E-05	5.926E-05
4	0.125	-8.366E-04	-1.964E-04	-5.165E-04	53	1.595	1.202E-05	4.737E-05	2.969E-05
5	0.135	-2.096E-05	5.808E-04	2.799E-04	54	1.645	5.388E-05	9.289E-05	7.338E-05
6	0.145	1.070E-04	1.044E-03	5.755E-04	55	1.695	5.670E-05	9.693E-05	7.682E-05
7	0.155	9.271E-05	5.222E-04	3.075E-04	56	1.745	2.889E-05	6.652E-05	4.771E-05
8	0.165	2.680E-04	5.804E-04	4.242E-04	57	1.800	3.867E-05	7.690E-05	5.779E-05
9	0.175	2.793E-04	7.466E-04	5.130E-04	58	1.860	1.317E-05	4.695E-05	3.006E-05
10	0.185	3.568E-04	5.740E-04	4.654E-04	59	1.920	-9.525E-06	2.183E-05	6.151E-06
11	0.200	4.361E-04	5.780E-04	5.071E-04	60	1.980	1.345E-06	3.239E-05	1.687E-05
12	0.220	2.863E-04	4.283E-04	3.573E-04	61	2.040	-5.745E-06	2.183E-05	8.041E-06
13	0.240	2.032E-04	3.230E-04	2.631E-04	62	2.100	1.515E-06	3.228E-05	1.690E-05
14	0.260	2.179E-04	3.219E-04	2.699E-04	63	2.160	1.514E-05	4.740E-05	3.127E-05
15	0.280	3.469E-04	4.475E-04	3.972E-04	64	2.220	1.676E-05	4.988E-05	3.332E-05
16	0.300	6.208E-04	7.234E-04	6.721E-04	65	2.280	3.237E-05	6.756E-05	4.997E-05
17	0.320	6.622E-04	7.637E-04	7.129E-04	66	2.340	2.100E-05	5.477E-05	3.789E-05
18	0.340	4.169E-04	5.102E-04	4.635E-04	67	2.405	-3.267E-06	2.709E-05	1.191E-05
19	0.360	2.642E-04	3.524E-04	3.083E-04	68	2.475	3.839E-06	3.867E-05	2.126E-05
20	0.380	2.051E-04	2.890E-04	2.470E-04	69	2.545	1.316E-05	5.067E-05	3.191E-05
21	0.400	1.861E-04	2.716E-04	2.288E-04	70	2.615	4.165E-06	4.417E-05	2.417E-05
22	0.420	2.283E-04	3.128E-04	2.706E-04	71	2.685	6.660E-07	4.516E-05	2.291E-05
23	0.445	2.779E-04	3.624E-04	3.201E-04	72	2.755	-9.459E-06	3.639E-05	1.347E-05
24	0.475	2.802E-04	3.617E-04	3.209E-04	73	2.825	-2.150E-05	2.483E-05	1.666E-06
25	0.505	1.922E-04	2.686E-04	2.304E-04	74	2.895	-3.173E-05	1.548E-05	-8.125E-06
26	0.535	2.004E-04	2.739E-04	2.371E-04	75	2.965	-3.214E-05	9.872E-06	-1.113E-05
27	0.565	1.443E-04	2.160E-04	1.802E-04	76	3.035	-3.599E-05	6.551E-06	-1.472E-05
28	0.595	1.632E-04	2.325E-04	1.978E-04	77	3.110	-4.609E-05	1.011E-06	-2.254E-05
29	0.625	1.561E-04	2.248E-04	1.905E-04	78	3.190	-4.805E-05	6.085E-06	-2.098E-05
30	0.655	1.371E-04	2.036E-04	1.704E-04	79	3.270	-4.339E-05	1.217E-05	-1.561E-05
31	0.685	1.284E-04	1.936E-04	1.610E-04	80	3.350	-3.038E-05	1.964E-05	-5.374E-06
32	0.715	1.282E-04	1.918E-04	1.600E-04	81	3.430	-1.209E-05	2.963E-05	8.773E-06
33	0.745	1.363E-04	2.012E-04	1.687E-04	82	3.510	-3.433E-06	3.130E-05	1.393E-05
34	0.775	1.663E-04	2.314E-04	1.989E-04	83	3.590	-4.342E-06	3.223E-05	1.394E-05
35	0.810	7.938E-05	1.441E-04	1.118E-04	84	3.670	-2.346E-06	3.644E-05	1.705E-05
36	0.850	1.977E-04	2.678E-04	2.328E-04	85	3.750	-1.253E-06	4.127E-05	2.001E-05
37	0.890	2.736E-04	3.465E-04	3.101E-04	86	3.830	-4.201E-06	4.269E-05	1.924E-05
38	0.930	2.687E-04	3.421E-04	3.054E-04	87	3.915	-8.308E-06	4.089E-05	1.629E-05
39	0.970	1.781E-04	2.446E-04	2.113E-04	88	4.005	-1.424E-05	4.160E-05	1.368E-05
40	1.010	1.303E-04	1.981E-04	1.642E-04	89	4.095	-2.067E-05	4.215E-05	1.074E-05
41	1.050	1.674E-04	2.324E-04	1.999E-04	90	4.185	-3.118E-05	4.135E-05	5.086E-06
42	1.090	1.366E-04	1.968E-04	1.667E-04	91	4.275	-4.846E-05	3.327E-05	-7.593E-06
43	1.130	6.632E-05	1.182E-04	9.225E-05	92	4.365	-6.348E-05	1.580E-05	-2.384E-05
44	1.170	4.479E-05	9.491E-05	6.985E-05	93	4.455	-6.956E-05	4.205E-06	-3.268E-05
45	1.210	7.167E-05	1.195E-04	9.557E-05	94	4.550	-6.790E-05	1.315E-05	-2.738E-05
46	1.250	8.702E-05	1.522E-04	1.196E-04	95	4.650	-5.294E-05	2.960E-05	-1.167E-05
47	1.295	6.551E-05	1.095E-04	8.753E-05	96	4.750	-2.769E-05	4.143E-05	6.870E-06
48	1.345	8.468E-05	1.393E-04	1.120E-04	97	4.850	8.363E-07	4.603E-05	2.343E-05
49	1.395	7.821E-05	1.355E-04	1.069E-04	98	4.950	9.073E-06	4.866E-05	2.887E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2695 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.014E-03	4.781E-03	4.398E-03	50	1.445	8.918E-05	1.428E-04	1.160E-04
2	0.111	2.367E-03	3.251E-03	2.809E-03	51	1.495	4.817E-05	9.366E-05	7.091E-05
3	0.117	2.348E-04	1.234E-03	7.344E-04	52	1.545	1.944E-05	5.277E-05	3.611E-05
4	0.125	-5.109E-04	4.542E-06	-2.532E-04	53	1.595	7.884E-06	3.449E-05	2.119E-05
5	0.135	-1.647E-05	4.089E-04	1.962E-04	54	1.645	-3.920E-07	2.448E-05	1.205E-05
6	0.145	1.139E-05	6.774E-04	3.444E-04	55	1.695	1.389E-05	4.129E-05	2.759E-05
7	0.155	2.572E-05	3.314E-04	1.786E-04	56	1.745	2.342E-05	5.247E-05	3.794E-05
8	0.165	1.426E-04	3.769E-04	2.597E-04	57	1.800	9.325E-06	3.560E-05	2.246E-05
9	0.175	1.710E-04	5.174E-04	3.442E-04	58	1.860	4.781E-07	2.760E-05	1.404E-05
10	0.185	2.292E-04	3.950E-04	3.121E-04	59	1.920	-5.290E-06	2.006E-05	7.384E-06
11	0.200	2.805E-04	3.922E-04	3.363E-04	60	1.980	6.487E-06	3.109E-05	1.879E-05
12	0.220	1.943E-04	3.069E-04	2.506E-04	61	2.040	4.802E-07	2.321E-05	1.185E-05
13	0.240	1.404E-04	2.368E-04	1.886E-04	62	2.100	4.643E-06	2.965E-05	1.714E-05
14	0.260	1.687E-04	2.531E-04	2.109E-04	63	2.160	-3.287E-06	2.647E-05	1.159E-05
15	0.280	2.306E-04	3.102E-04	2.704E-04	64	2.220	8.882E-09	2.510E-05	1.255E-05
16	0.300	3.561E-04	4.348E-04	3.955E-04	65	2.280	1.105E-05	3.628E-05	2.366E-05
17	0.320	3.845E-04	4.625E-04	4.235E-04	66	2.340	6.325E-06	3.348E-05	1.990E-05
18	0.340	2.613E-04	3.345E-04	2.979E-04	67	2.405	6.198E-06	2.811E-05	1.716E-05
19	0.360	1.533E-04	2.235E-04	1.884E-04	68	2.475	-1.275E-06	1.904E-05	8.880E-06
20	0.380	1.094E-04	1.759E-04	1.427E-04	69	2.545	1.277E-06	2.253E-05	1.191E-05
21	0.400	9.745E-05	1.649E-04	1.312E-04	70	2.615	-3.645E-06	1.661E-05	6.480E-06
22	0.420	1.042E-04	1.710E-04	1.376E-04	71	2.685	-8.378E-06	1.553E-05	3.576E-06
23	0.445	1.724E-04	2.410E-04	2.067E-04	72	2.755	-4.719E-06	1.739E-05	6.334E-06
24	0.475	2.069E-04	2.737E-04	2.403E-04	73	2.825	-2.887E-06	1.303E-05	5.070E-06
25	0.505	1.156E-04	1.771E-04	1.464E-04	74	2.895	-4.075E-06	1.223E-05	4.080E-06
26	0.535	5.874E-05	1.163E-04	8.752E-05	75	2.965	-2.864E-06	1.266E-05	4.896E-06
27	0.565	9.771E-05	1.565E-04	1.271E-04	76	3.035	-2.317E-06	1.098E-05	4.332E-06
28	0.595	1.002E-04	1.563E-04	1.282E-04	77	3.110	-4.322E-06	1.105E-05	3.366E-06
29	0.625	8.231E-05	1.374E-04	1.099E-04	78	3.190	-4.287E-06	1.079E-05	3.250E-06
30	0.655	9.771E-05	1.526E-04	1.252E-04	79	3.270	-4.013E-06	1.094E-05	3.462E-06
31	0.685	8.570E-05	1.394E-04	1.126E-04	80	3.350	-4.760E-06	9.555E-06	2.398E-06
32	0.715	1.062E-04	1.585E-04	1.323E-04	81	3.430	-4.699E-06	7.730E-06	1.516E-06
33	0.745	1.037E-04	1.567E-04	1.302E-04	82	3.510	-4.732E-06	7.572E-06	1.420E-06
34	0.775	1.121E-04	1.650E-04	1.385E-04	83	3.590	-6.154E-06	5.994E-06	-8.041E-08
35	0.810	4.899E-05	1.020E-04	7.549E-05	84	3.670	-8.351E-06	4.014E-06	-2.169E-06
36	0.850	1.290E-04	1.855E-04	1.573E-04	85	3.750	-9.028E-06	3.666E-06	-2.681E-06
37	0.890	2.211E-04	2.813E-04	2.512E-04	86	3.830	-8.621E-06	4.031E-06	-2.295E-06
38	0.930	1.947E-04	2.547E-04	2.247E-04	87	3.915	-6.893E-06	4.719E-06	-1.087E-06
39	0.970	1.166E-04	1.711E-04	1.439E-04	88	4.005	-4.480E-06	7.641E-06	1.580E-06
40	1.010	1.121E-04	1.680E-04	1.401E-04	89	4.095	-1.660E-06	1.101E-05	4.676E-06
41	1.050	1.147E-04	1.679E-04	1.413E-04	90	4.185	1.611E-07	1.341E-05	6.785E-06
42	1.090	5.610E-05	1.029E-04	7.950E-05	91	4.275	1.190E-08	1.296E-05	6.486E-06
43	1.130	3.832E-05	8.127E-05	5.979E-05	92	4.365	-2.949E-06	7.854E-06	2.453E-06
44	1.170	2.256E-05	6.290E-05	4.273E-05	93	4.455	-6.806E-06	1.593E-06	-2.606E-06
45	1.210	3.592E-05	7.418E-05	5.505E-05	94	4.550	-8.825E-06	-4.632E-07	-4.644E-06
46	1.250	3.994E-05	8.934E-05	6.464E-05	95	4.650	-7.379E-06	1.411E-06	-2.984E-06
47	1.295	2.198E-05	5.633E-05	3.915E-05	96	4.750	-3.741E-06	3.459E-06	-1.413E-07
48	1.345	1.761E-05	5.812E-05	3.787E-05	97	4.850	2.017E-07	4.891E-06	2.547E-06
49	1.395	5.954E-05	1.072E-04	8.337E-05	98	4.950	1.747E-06	5.903E-06	3.825E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3795 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.318E-03	3.009E-03	2.663E-03	50	1.445	3.534E-05	8.252E-05	5.893E-05
2	0.111	1.317E-03	2.153E-03	1.735E-03	51	1.495	3.316E-05	7.514E-05	5.415E-05
3	0.117	9.115E-05	9.762E-04	5.337E-04	52	1.545	2.193E-05	5.316E-05	3.754E-05
4	0.125	-2.487E-04	2.336E-04	-7.532E-06	53	1.595	9.842E-06	3.382E-05	2.183E-05
5	0.135	4.869E-05	3.763E-04	2.125E-04	54	1.645	-2.633E-06	1.824E-05	7.805E-06
6	0.145	-5.234E-05	4.635E-04	2.056E-04	55	1.695	-5.449E-06	1.715E-05	5.853E-06
7	0.155	1.616E-05	2.540E-04	1.351E-04	56	1.745	-1.461E-06	2.142E-05	9.979E-06
8	0.165	1.004E-04	2.799E-04	1.901E-04	57	1.800	-8.059E-06	1.367E-05	2.804E-06
9	0.175	6.651E-05	3.269E-04	1.967E-04	58	1.860	-5.463E-06	1.892E-05	6.729E-06
10	0.185	1.125E-04	2.415E-04	1.770E-04	59	1.920	-1.059E-05	2.133E-05	5.370E-06
11	0.200	1.415E-04	2.318E-04	1.867E-04	60	1.980	7.236E-06	3.179E-05	1.951E-05
12	0.220	1.351E-04	2.267E-04	1.809E-04	61	2.040	3.694E-06	2.433E-05	1.401E-05
13	0.240	9.955E-05	1.789E-04	1.392E-04	62	2.100	8.877E-07	2.561E-05	1.325E-05
14	0.260	8.609E-05	1.551E-04	1.206E-04	63	2.160	8.212E-06	3.004E-05	1.912E-05
15	0.280	1.315E-04	1.966E-04	1.640E-04	64	2.220	6.485E-06	2.671E-05	1.660E-05
16	0.300	2.001E-04	2.634E-04	2.318E-04	65	2.280	1.141E-05	3.304E-05	2.222E-05
17	0.320	1.940E-04	2.556E-04	2.248E-04	66	2.340	1.550E-06	1.988E-05	1.071E-05
18	0.340	1.060E-04	1.643E-04	1.352E-04	67	2.405	-5.556E-06	1.348E-05	3.963E-06
19	0.360	3.579E-05	9.264E-05	6.421E-05	68	2.475	-2.048E-06	1.713E-05	7.541E-06
20	0.380	4.052E-05	9.586E-05	6.819E-05	69	2.545	-1.446E-06	2.050E-05	9.528E-06
21	0.400	4.926E-05	1.065E-04	7.790E-05	70	2.615	-2.988E-07	2.002E-05	9.861E-06
22	0.420	7.230E-05	1.295E-04	1.009E-04	71	2.685	-6.052E-06	1.373E-05	3.841E-06
23	0.445	1.152E-04	1.740E-04	1.446E-04	72	2.755	-7.478E-06	1.043E-05	1.477E-06
24	0.475	1.505E-04	2.077E-04	1.791E-04	73	2.825	-7.846E-06	8.957E-06	5.556E-07
25	0.505	7.455E-05	1.278E-04	1.012E-04	74	2.895	-8.305E-06	8.051E-06	-1.268E-07
26	0.535	5.747E-05	1.081E-04	8.277E-05	75	2.965	-8.628E-06	6.527E-06	-1.051E-06
27	0.565	6.078E-05	1.118E-04	8.627E-05	76	3.035	-9.521E-06	6.541E-06	-1.490E-06
28	0.595	7.371E-05	1.225E-04	9.810E-05	77	3.110	-8.501E-06	6.886E-06	-8.077E-07
29	0.625	7.832E-05	1.266E-04	1.025E-04	78	3.190	-1.096E-05	5.624E-06	-2.668E-06
30	0.655	6.547E-05	1.119E-04	8.871E-05	79	3.270	-9.127E-06	6.292E-06	-1.417E-06
31	0.685	3.767E-05	8.227E-05	5.997E-05	80	3.350	-6.130E-06	1.146E-05	2.665E-06
32	0.715	5.190E-05	9.498E-05	7.344E-05	81	3.430	-2.509E-06	1.241E-05	4.949E-06
33	0.745	6.160E-05	1.059E-04	8.373E-05	82	3.510	-3.195E-06	1.471E-05	7.339E-06
34	0.775	6.749E-05	1.124E-04	8.996E-05	83	3.590	3.212E-07	1.473E-05	7.528E-06
35	0.810	4.200E-05	8.803E-05	6.501E-05	84	3.670	-2.841E-06	1.187E-05	4.513E-06
36	0.850	9.651E-05	1.454E-04	1.210E-04	85	3.750	-5.345E-06	9.778E-06	2.217E-06
37	0.890	1.631E-04	2.142E-04	1.887E-04	86	3.830	-7.388E-06	8.231E-06	4.219E-07
38	0.930	1.260E-04	1.771E-04	1.516E-04	87	3.915	-9.387E-06	6.154E-06	-1.616E-06
39	0.970	7.500E-05	1.215E-04	9.824E-05	88	4.005	-1.087E-05	5.010E-06	-2.930E-06
40	1.010	4.748E-05	9.383E-05	7.065E-05	89	4.095	-9.535E-06	7.036E-06	-1.249E-06
41	1.050	3.329E-05	7.733E-05	5.531E-05	90	4.185	-7.562E-06	1.078E-05	1.611E-06
42	1.090	3.556E-05	7.707E-05	5.632E-05	91	4.275	-7.404E-06	1.187E-05	2.234E-06
43	1.130	2.066E-05	5.834E-05	3.950E-05	92	4.365	-8.593E-06	9.557E-06	4.823E-07
44	1.170	1.440E-05	4.917E-05	3.179E-05	93	4.455	-1.037E-05	6.540E-06	-1.917E-06
45	1.210	1.949E-06	3.453E-05	1.824E-05	94	4.550	-1.167E-05	5.295E-06	-3.188E-06
46	1.250	-6.429E-06	3.258E-05	1.307E-05	95	4.650	-9.778E-06	5.984E-06	-1.897E-06
47	1.295	1.030E-05	4.100E-05	2.565E-05	96	4.750	-5.117E-06	7.477E-06	1.180E-06
48	1.345	6.674E-06	4.142E-05	2.405E-05	97	4.850	5.146E-07	8.649E-06	4.582E-06
49	1.395	3.282E-05	7.408E-05	5.345E-05	98	4.950	2.748E-06	9.334E-06	6.041E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>238</sup>U BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 150 SEC

COUNTING TIME : 60 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	7.190E-03	1.501E-02	1.110E-02	50 1.445	8.945E-04	9.790E-04	9.367E-04
2 0.111	4.776E-03	1.456E-02	9.667E-03	51 1.495	6.335E-04	7.100E-04	6.717E-04
3 0.117	-3.147E-05	1.059E-02	5.279E-03	52 1.545	5.498E-04	6.236E-04	5.867E-04
4 0.125	-1.150E-03	4.721E-03	1.785E-03	53 1.595	5.162E-04	5.918E-04	5.540E-04
5 0.135	8.707E-04	3.951E-03	2.411E-03	54 1.645	5.418E-04	6.162E-04	5.790E-04
6 0.145	3.609E-04	5.519E-03	2.940E-03	55 1.695	4.360E-04	5.059E-04	4.709E-04
7 0.155	1.179E-03	3.555E-03	2.367E-03	56 1.745	3.985E-04	4.693E-04	4.339E-04
8 0.165	2.157E-03	2.813E-03	2.485E-03	57 1.800	3.210E-04	3.913E-04	3.561E-04
9 0.175	2.205E-03	3.408E-03	2.807E-03	58 1.860	2.789E-04	3.503E-04	3.146E-04
10 0.185	2.610E-03	3.109E-03	2.859E-03	59 1.920	3.002E-04	3.729E-04	3.366E-04
11 0.200	3.008E-03	3.264E-03	3.136E-03	60 1.980	3.275E-04	3.935E-04	3.605E-04
12 0.220	2.506E-03	2.747E-03	2.626E-03	61 2.040	2.964E-04	3.637E-04	3.301E-04
13 0.240	2.138E-03	2.335E-03	2.236E-03	62 2.100	2.666E-04	3.339E-04	3.003E-04
14 0.260	2.163E-03	2.333E-03	2.248E-03	63 2.160	2.397E-04	3.061E-04	2.729E-04
15 0.280	2.524E-03	2.685E-03	2.604E-03	64 2.220	2.358E-04	2.990E-04	2.674E-04
16 0.300	2.757E-03	2.913E-03	2.835E-03	65 2.280	2.007E-04	2.647E-04	2.327E-04
17 0.320	2.648E-03	2.802E-03	2.725E-03	66 2.340	1.974E-04	2.637E-04	2.305E-04
18 0.340	2.423E-03	2.575E-03	2.499E-03	67 2.405	2.206E-04	2.917E-04	2.561E-04
19 0.360	2.251E-03	2.403E-03	2.327E-03	68 2.475	1.884E-04	2.533E-04	2.208E-04
20 0.380	2.116E-03	2.265E-03	2.191E-03	69 2.545	1.618E-04	2.239E-04	1.928E-04
21 0.400	2.219E-03	2.372E-03	2.295E-03	70 2.615	1.677E-04	2.295E-04	1.986E-04
22 0.420	2.277E-03	2.423E-03	2.350E-03	71 2.685	1.260E-04	1.866E-04	1.563E-04
23 0.445	2.223E-03	2.363E-03	2.293E-03	72 2.755	1.418E-04	1.982E-04	1.700E-04
24 0.475	1.675E-03	1.806E-03	1.740E-03	73 2.825	1.186E-04	1.748E-04	1.467E-04
25 0.505	1.404E-03	1.529E-03	1.467E-03	74 2.895	8.978E-05	1.457E-04	1.177E-04
26 0.535	1.517E-03	1.640E-03	1.579E-03	75 2.965	2.893E-05	8.240E-05	5.567E-05
27 0.565	1.819E-03	1.946E-03	1.882E-03	76 3.035	2.292E-05	7.642E-05	4.967E-05
28 0.595	2.114E-03	2.240E-03	2.177E-03	77 3.110	3.789E-05	8.999E-05	6.394E-05
29 0.625	1.656E-03	1.777E-03	1.717E-03	78 3.190	8.398E-06	5.971E-05	3.405E-05
30 0.655	1.278E-03	1.394E-03	1.336E-03	79 3.270	1.472E-05	6.341E-05	3.907E-05
31 0.685	1.862E-03	1.984E-03	1.923E-03	80 3.350	2.014E-05	6.575E-05	4.294E-05
32 0.715	2.114E-03	2.236E-03	2.175E-03	81 3.430	3.377E-05	7.596E-05	5.487E-05
33 0.745	1.476E-03	1.590E-03	1.533E-03	82 3.510	3.141E-05	6.970E-05	5.055E-05
34 0.775	1.248E-03	1.358E-03	1.303E-03	83 3.590	3.807E-05	7.511E-05	5.659E-05
35 0.810	1.552E-03	1.669E-03	1.610E-03	84 3.670	5.381E-05	8.893E-05	7.137E-05
36 0.850	1.764E-03	1.881E-03	1.823E-03	85 3.750	3.146E-05	6.213E-05	4.680E-05
37 0.890	1.650E-03	1.767E-03	1.708E-03	86 3.830	3.141E-06	3.246E-05	1.780E-05
38 0.930	1.663E-03	1.781E-03	1.722E-03	87 3.915	1.593E-05	4.397E-05	2.995E-05
39 0.970	2.006E-03	2.125E-03	2.065E-03	88 4.005	2.244E-05	4.869E-05	3.557E-05
40 1.010	1.916E-03	2.034E-03	1.975E-03	89 4.095	1.919E-05	4.128E-05	3.024E-05
41 1.050	1.293E-03	1.399E-03	1.346E-03	90 4.185	3.406E-05	5.850E-05	4.628E-05
42 1.090	1.219E-03	1.319E-03	1.269E-03	91 4.275	3.545E-05	5.917E-05	4.731E-05
43 1.130	1.214E-03	1.310E-03	1.262E-03	92 4.365	2.366E-05	4.492E-05	3.429E-05
44 1.170	1.025E-03	1.113E-03	1.069E-03	93 4.455	6.859E-06	2.527E-05	1.606E-05
45 1.210	9.228E-04	1.007E-03	9.647E-04	94 4.550	-1.331E-05	5.519E-06	-3.895E-06
46 1.250	1.006E-03	1.119E-03	1.063E-03	95 4.650	-1.707E-05	3.936E-06	-6.570E-06
47 1.295	1.118E-03	1.201E-03	1.160E-03	96 4.750	-2.625E-06	1.376E-05	5.566E-06
48 1.345	1.025E-03	1.112E-03	1.068E-03	97 4.850	1.412E-05	2.368E-05	1.890E-05
49 1.395	9.626E-04	1.049E-03	1.006E-03	98 4.950	2.156E-05	2.947E-05	2.552E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 210 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.548E-03	1.365E-02	1.060E-02	50	1.445	6.337E-04	7.063E-04	6.700E-04
2	0.111	4.579E-03	1.228E-02	8.430E-03	51	1.495	5.112E-04	5.777E-04	5.445E-04
3	0.117	-1.682E-04	8.122E-03	3.977E-03	52	1.545	3.480E-04	4.091E-04	3.786E-04
4	0.125	-1.201E-03	3.362E-03	1.081E-03	53	1.595	3.479E-04	4.124E-04	3.802E-04
5	0.135	7.330E-04	3.228E-03	1.980E-03	54	1.645	3.591E-04	4.223E-04	3.907E-04
6	0.145	2.853E-04	4.440E-03	2.363E-03	55	1.695	3.988E-04	4.614E-04	4.301E-04
7	0.155	1.045E-03	2.960E-03	2.002E-03	56	1.745	3.449E-04	4.068E-04	3.758E-04
8	0.165	1.867E-03	2.438E-03	2.152E-03	57	1.800	2.698E-04	3.304E-04	3.001E-04
9	0.175	1.762E-03	2.785E-03	2.274E-03	58	1.860	2.562E-04	3.177E-04	2.870E-04
10	0.185	2.124E-03	2.551E-03	2.338E-03	59	1.920	2.057E-04	2.663E-04	2.360E-04
11	0.200	2.325E-03	2.550E-03	2.438E-03	60	1.980	1.929E-04	2.470E-04	2.200E-04
12	0.220	1.950E-03	2.163E-03	2.056E-03	61	2.040	2.180E-04	2.751E-04	2.455E-04
13	0.240	1.708E-03	1.882E-03	1.795E-03	62	2.100	1.461E-04	2.005E-04	1.733E-04
14	0.260	1.673E-03	1.822E-03	1.748E-03	63	2.160	1.769E-04	2.332E-04	2.050E-04
15	0.280	1.943E-03	2.085E-03	2.014E-03	64	2.220	1.887E-04	2.430E-04	2.158E-04
16	0.300	2.275E-03	2.414E-03	2.344E-03	65	2.280	1.761E-04	2.301E-04	2.031E-04
17	0.320	2.214E-03	2.351E-03	2.283E-03	66	2.340	1.097E-04	1.640E-04	1.368E-04
18	0.340	1.948E-03	2.082E-03	2.015E-03	67	2.405	9.922E-05	1.554E-04	1.273E-04
19	0.360	1.717E-03	1.849E-03	1.783E-03	68	2.475	8.553E-05	1.383E-04	1.119E-04
20	0.380	1.490E-03	1.618E-03	1.554E-03	69	2.545	1.197E-04	1.733E-04	1.465E-04
21	0.400	1.427E-03	1.558E-03	1.493E-03	70	2.615	1.383E-04	1.886E-04	1.634E-04
22	0.420	1.596E-03	1.722E-03	1.659E-03	71	2.685	1.210E-04	1.715E-04	1.463E-04
23	0.445	1.822E-03	1.945E-03	1.884E-03	72	2.755	8.679E-05	1.328E-04	1.098E-04
24	0.475	1.270E-03	1.385E-03	1.328E-03	73	2.825	9.770E-05	1.444E-04	1.211E-04
25	0.505	1.101E-03	1.211E-03	1.156E-03	74	2.895	6.965E-05	1.158E-04	9.273E-05
26	0.535	9.927E-04	1.098E-03	1.045E-03	75	2.965	4.471E-05	8.836E-05	6.653E-05
27	0.565	1.253E-03	1.362E-03	1.308E-03	76	3.035	1.160E-05	5.583E-05	3.371E-05
28	0.595	1.624E-03	1.734E-03	1.679E-03	77	3.110	-1.141E-05	2.788E-05	8.232E-06
29	0.625	1.184E-03	1.290E-03	1.237E-03	78	3.190	-1.907E-05	2.060E-05	7.646E-07
30	0.655	9.560E-04	1.058E-03	1.007E-03	79	3.270	-3.396E-06	3.517E-05	1.589E-05
31	0.685	1.475E-03	1.584E-03	1.530E-03	80	3.350	1.404E-05	5.193E-05	3.298E-05
32	0.715	1.706E-03	1.815E-03	1.760E-03	81	3.430	7.663E-06	4.024E-05	2.395E-05
33	0.745	1.336E-03	1.439E-03	1.387E-03	82	3.510	1.816E-05	4.920E-05	3.368E-05
34	0.775	1.052E-03	1.150E-03	1.101E-03	83	3.590	2.665E-05	5.715E-05	4.190E-05
35	0.810	1.212E-03	1.315E-03	1.264E-03	84	3.670	4.011E-05	6.905E-05	5.458E-05
36	0.850	1.447E-03	1.551E-03	1.499E-03	85	3.750	2.885E-05	5.332E-05	4.109E-05
37	0.890	1.334E-03	1.437E-03	1.385E-03	86	3.830	9.176E-06	3.409E-05	2.163E-05
38	0.930	1.393E-03	1.498E-03	1.446E-03	87	3.915	-1.865E-07	2.211E-05	1.096E-05
39	0.970	1.755E-03	1.862E-03	1.808E-03	88	4.005	-1.390E-06	1.998E-05	9.296E-06
40	1.010	1.462E-03	1.563E-03	1.513E-03	89	4.095	1.769E-05	3.672E-05	2.721E-05
41	1.050	1.011E-03	1.101E-03	1.056E-03	90	4.185	2.595E-05	4.696E-05	3.645E-05
42	1.090	8.778E-04	9.633E-04	9.205E-04	91	4.275	1.748E-05	3.611E-05	2.680E-05
43	1.130	8.458E-04	9.262E-04	8.860E-04	92	4.365	1.557E-05	3.356E-05	2.457E-05
44	1.170	7.129E-04	7.877E-04	7.503E-04	93	4.455	4.381E-06	2.245E-05	1.341E-05
45	1.210	6.474E-04	7.191E-04	6.832E-04	94	4.550	-1.447E-05	1.632E-06	-6.417E-06
46	1.250	7.201E-04	8.175E-04	7.688E-04	95	4.650	-1.715E-05	-1.023E-06	-9.085E-06
47	1.295	8.577E-04	9.288E-04	8.932E-04	96	4.750	-5.749E-06	7.122E-06	6.863E-07
48	1.345	7.637E-04	8.379E-04	8.008E-04	97	4.850	7.170E-06	1.687E-05	1.202E-05
49	1.395	5.743E-04	6.457E-04	6.100E-04	98	4.950	1.484E-05	2.210E-05	1.847E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 270 SEC

COUNTING TIME : 80 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.542E-03	1.235E-02	9.945E-03	50	1.445	4.156E-04	4.680E-04	4.418E-04
2	0.111	4.526E-03	1.061E-02	7.566E-03	51	1.495	3.172E-04	3.654E-04	3.413E-04
3	0.117	-7.055E-08	6.504E-03	3.252E-03	52	1.545	2.837E-04	3.302E-04	3.069E-04
4	0.125	-1.233E-03	2.336E-03	5.516E-04	53	1.595	2.490E-04	2.966E-04	2.728E-04
5	0.135	5.280E-04	2.533E-03	1.531E-03	54	1.645	2.622E-04	3.088E-04	2.855E-04
6	0.145	4.727E-04	3.802E-03	2.137E-03	55	1.695	2.697E-04	3.159E-04	2.928E-04
7	0.155	8.385E-04	2.377E-03	1.608E-03	56	1.745	2.374E-04	2.835E-04	2.604E-04
8	0.165	1.521E-03	1.959E-03	1.740E-03	57	1.800	2.228E-04	2.686E-04	2.457E-04
9	0.175	1.612E-03	2.408E-03	2.010E-03	58	1.860	1.618E-04	2.075E-04	1.846E-04
10	0.185	1.673E-03	2.004E-03	1.838E-03	59	1.920	1.614E-04	2.067E-04	1.841E-04
11	0.200	1.836E-03	2.006E-03	1.921E-03	60	1.980	1.885E-04	2.308E-04	2.097E-04
12	0.220	1.403E-03	1.564E-03	1.484E-03	61	2.040	1.928E-04	2.357E-04	2.142E-04
13	0.240	1.317E-03	1.451E-03	1.384E-03	62	2.100	1.753E-04	2.176E-04	1.964E-04
14	0.260	1.419E-03	1.535E-03	1.477E-03	63	2.160	1.494E-04	1.911E-04	1.703E-04
15	0.280	1.636E-03	1.746E-03	1.691E-03	64	2.220	1.484E-04	1.880E-04	1.682E-04
16	0.300	1.981E-03	2.089E-03	2.035E-03	65	2.280	1.270E-04	1.664E-04	1.467E-04
17	0.320	1.956E-03	2.064E-03	2.010E-03	66	2.340	9.167E-05	1.319E-04	1.118E-04
18	0.340	1.583E-03	1.686E-03	1.635E-03	67	2.405	8.798E-05	1.300E-04	1.090E-04
19	0.360	1.310E-03	1.410E-03	1.360E-03	68	2.475	7.213E-05	1.099E-04	9.101E-05
20	0.380	1.083E-03	1.179E-03	1.131E-03	69	2.545	5.652E-05	9.314E-05	7.483E-05
21	0.400	1.108E-03	1.208E-03	1.158E-03	70	2.615	7.858E-05	1.150E-04	9.678E-05
22	0.420	1.360E-03	1.459E-03	1.409E-03	71	2.685	5.893E-05	9.382E-05	7.637E-05
23	0.445	1.571E-03	1.667E-03	1.619E-03	72	2.755	5.503E-05	8.940E-05	7.222E-05
24	0.475	1.170E-03	1.259E-03	1.214E-03	73	2.825	7.246E-05	1.087E-04	9.056E-05
25	0.505	8.048E-04	8.875E-04	8.461E-04	74	2.895	6.506E-05	1.002E-04	8.264E-05
26	0.535	7.613E-04	8.414E-04	8.013E-04	75	2.965	1.717E-05	4.910E-05	3.314E-05
27	0.565	1.062E-03	1.146E-03	1.104E-03	76	3.035	1.031E-05	4.152E-05	2.592E-05
28	0.595	1.189E-03	1.272E-03	1.231E-03	77	3.110	2.963E-06	3.108E-05	1.702E-05
29	0.625	9.425E-04	1.023E-03	9.827E-04	78	3.190	-1.234E-05	1.700E-05	2.329E-06
30	0.655	7.713E-04	8.488E-04	8.100E-04	79	3.270	1.128E-06	3.058E-05	1.586E-05
31	0.685	9.911E-04	1.071E-03	1.031E-03	80	3.350	1.904E-05	4.768E-05	3.336E-05
32	0.715	1.327E-03	1.409E-03	1.368E-03	81	3.430	2.211E-05	4.846E-05	3.529E-05
33	0.745	1.079E-03	1.157E-03	1.118E-03	82	3.510	1.569E-05	3.742E-05	2.655E-05
34	0.775	7.844E-04	8.583E-04	8.213E-04	83	3.590	1.398E-05	3.590E-05	2.494E-05
35	0.810	9.985E-04	1.077E-03	1.038E-03	84	3.670	1.231E-05	3.262E-05	2.246E-05
36	0.850	1.141E-03	1.221E-03	1.181E-03	85	3.750	1.054E-05	2.939E-05	1.996E-05
37	0.890	1.144E-03	1.224E-03	1.184E-03	86	3.830	3.039E-06	2.044E-05	1.174E-05
38	0.930	1.216E-03	1.297E-03	1.257E-03	87	3.915	9.496E-07	1.751E-05	9.232E-06
39	0.970	1.391E-03	1.472E-03	1.432E-03	88	4.005	-2.164E-06	1.326E-05	5.550E-06
40	1.010	1.234E-03	1.312E-03	1.273E-03	89	4.095	5.877E-06	2.101E-05	1.344E-05
41	1.050	8.321E-04	9.010E-04	8.666E-04	90	4.185	1.789E-05	3.403E-05	2.596E-05
42	1.090	6.834E-04	7.475E-04	7.154E-04	91	4.275	1.361E-05	2.855E-05	2.108E-05
43	1.130	6.926E-04	7.537E-04	7.231E-04	92	4.365	6.948E-06	2.254E-05	1.475E-05
44	1.170	5.959E-04	6.526E-04	6.243E-04	93	4.455	1.194E-06	1.600E-05	8.595E-06
45	1.210	5.229E-04	5.764E-04	5.496E-04	94	4.550	-7.951E-06	5.073E-06	-1.439E-06
46	1.250	5.538E-04	6.253E-04	5.896E-04	95	4.650	-1.022E-05	4.993E-06	-2.613E-06
47	1.295	5.957E-04	6.477E-04	6.217E-04	96	4.750	-3.974E-06	9.568E-06	2.797E-06
48	1.345	4.957E-04	5.493E-04	5.225E-04	97	4.850	3.392E-06	1.289E-05	8.142E-06
49	1.395	4.360E-04	4.887E-04	4.624E-04	98	4.950	7.407E-06	1.324E-05	1.032E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>238</sup>U BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 350 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.605E-03	1.134E-02	9.471E-03	50	1.445	2.773E-04	3.168E-04	2.971E-04
2	0.111	4.424E-03	9.130E-03	6.777E-03	51	1.495	2.200E-04	2.570E-04	2.385E-04
3	0.117	2.478E-05	5.056E-03	2.541E-03	52	1.545	1.937E-04	2.292E-04	2.114E-04
4	0.125	-1.223E-03	1.522E-03	1.495E-04	53	1.595	1.903E-04	2.271E-04	2.087E-04
5	0.135	3.820E-04	2.004E-03	1.193E-03	54	1.645	1.895E-04	2.257E-04	2.076E-04
6	0.145	4.540E-04	3.132E-03	1.793E-03	55	1.695	1.997E-04	2.355E-04	2.176E-04
7	0.155	6.960E-04	1.936E-03	1.316E-03	56	1.745	2.015E-04	2.375E-04	2.195E-04
8	0.165	1.308E-03	1.662E-03	1.485E-03	57	1.800	1.895E-04	2.253E-04	2.074E-04
9	0.175	1.463E-03	2.106E-03	1.785E-03	58	1.860	1.431E-04	1.781E-04	1.606E-04
10	0.185	1.473E-03	1.741E-03	1.607E-03	59	1.920	1.429E-04	1.777E-04	1.603E-04
11	0.200	1.556E-03	1.694E-03	1.625E-03	60	1.980	1.460E-04	1.781E-04	1.621E-04
12	0.220	1.149E-03	1.280E-03	1.214E-03	61	2.040	1.541E-04	1.869E-04	1.705E-04
13	0.240	1.154E-03	1.263E-03	1.208E-03	62	2.100	9.583E-05	1.270E-04	1.114E-04
14	0.260	1.203E-03	1.297E-03	1.250E-03	63	2.160	1.096E-04	1.418E-04	1.257E-04
15	0.280	1.365E-03	1.454E-03	1.409E-03	64	2.220	9.064E-05	1.199E-04	1.053E-04
16	0.300	1.732E-03	1.820E-03	1.776E-03	65	2.280	7.579E-05	1.057E-04	9.073E-05
17	0.320	1.698E-03	1.785E-03	1.742E-03	66	2.340	6.654E-05	9.632E-05	8.143E-05
18	0.340	1.313E-03	1.395E-03	1.354E-03	67	2.405	5.306E-05	8.452E-05	6.879E-05
19	0.360	1.090E-03	1.170E-03	1.130E-03	68	2.475	5.772E-05	8.626E-05	7.199E-05
20	0.380	8.805E-04	9.571E-04	9.188E-04	69	2.545	4.653E-05	7.529E-05	6.091E-05
21	0.400	9.283E-04	1.008E-03	9.681E-04	70	2.615	6.929E-05	9.765E-05	8.347E-05
22	0.420	1.116E-03	1.195E-03	1.155E-03	71	2.685	7.846E-05	1.066E-04	9.251E-05
23	0.445	1.255E-03	1.332E-03	1.293E-03	72	2.755	6.875E-05	9.457E-05	8.166E-05
24	0.475	9.526E-04	1.024E-03	9.681E-04	73	2.825	4.650E-05	7.158E-05	5.904E-05
25	0.505	7.457E-04	8.126E-04	7.792E-04	74	2.895	2.328E-05	4.759E-05	3.543E-05
26	0.535	6.325E-04	6.963E-04	6.644E-04	75	2.965	-1.941E-06	1.974E-05	8.899E-06
27	0.565	8.448E-04	9.111E-04	8.780E-04	76	3.035	2.016E-06	2.461E-05	1.331E-05
28	0.595	9.406E-04	1.006E-03	9.734E-04	77	3.110	6.677E-06	2.757E-05	1.712E-05
29	0.625	7.331E-04	7.965E-04	7.648E-04	78	3.190	-2.583E-07	2.114E-05	1.044E-05
30	0.655	6.002E-04	6.611E-04	6.306E-04	79	3.270	-6.656E-06	1.189E-05	2.617E-06
31	0.685	8.269E-04	8.907E-04	8.588E-04	80	3.350	1.023E-05	2.861E-05	1.942E-05
32	0.715	9.900E-04	1.054E-03	1.022E-03	81	3.430	2.328E-05	4.076E-05	3.202E-05
33	0.745	7.992E-04	8.604E-04	8.298E-04	82	3.510	2.365E-05	3.958E-05	3.162E-05
34	0.775	6.307E-04	6.890E-04	6.599E-04	83	3.590	1.964E-05	3.494E-05	2.729E-05
35	0.810	7.731E-04	8.350E-04	8.040E-04	84	3.670	1.352E-05	2.691E-05	2.021E-05
36	0.850	9.444E-04	1.007E-03	9.760E-04	85	3.750	4.086E-06	1.614E-05	1.011E-05
37	0.890	9.106E-04	9.739E-04	9.422E-04	86	3.830	-1.757E-06	9.602E-06	3.922E-06
38	0.930	1.090E-03	1.155E-03	1.122E-03	87	3.915	-4.840E-06	5.835E-06	4.973E-07
39	0.970	1.104E-03	1.168E-03	1.136E-03	88	4.005	-5.689E-06	4.052E-06	-8.185E-07
40	1.010	9.573E-04	1.018E-03	9.876E-04	89	4.095	3.196E-06	1.255E-05	7.871E-06
41	1.050	6.725E-04	7.264E-04	6.995E-04	90	4.185	1.095E-05	2.081E-05	1.588E-05
42	1.090	5.398E-04	5.894E-04	5.646E-04	91	4.275	9.338E-06	1.904E-05	1.419E-05
43	1.130	4.932E-04	5.397E-04	5.164E-04	92	4.365	4.738E-06	1.428E-05	9.508E-06
44	1.170	4.442E-04	4.879E-04	4.660E-04	93	4.455	-1.572E-07	8.873E-06	4.358E-06
45	1.210	4.126E-04	4.539E-04	4.332E-04	94	4.550	-5.922E-06	1.874E-06	-2.024E-06
46	1.250	4.173E-04	4.724E-04	4.448E-04	95	4.650	-6.958E-06	1.437E-06	-2.761E-06
47	1.295	4.179E-04	4.573E-04	4.376E-04	96	4.750	-2.086E-06	5.197E-06	1.555E-06
48	1.345	3.907E-04	4.325E-04	4.116E-04	97	4.850	2.709E-06	7.953E-06	5.331E-06
49	1.395	3.198E-04	3.600E-04	3.399E-04	98	4.950	4.679E-06	8.044E-06	6.361E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 450 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.536E-03	1.059E-02	9.063E-03	50	1.445	2.339E-04	2.694E-04	2.516E-04
2	0.111	4.279E-03	8.121E-03	6.200E-03	51	1.495	1.595E-04	1.922E-04	1.759E-04
3	0.117	2.923E-05	4.140E-03	2.085E-03	52	1.545	1.562E-04	1.878E-04	1.720E-04
4	0.125	-1.137E-03	1.096E-03	-2.045E-05	53	1.595	1.307E-04	1.627E-04	1.467E-04
5	0.135	3.238E-04	1.689E-03	1.007E-03	54	1.645	1.216E-04	1.529E-04	1.372E-04
6	0.145	3.247E-04	2.569E-03	1.447E-03	55	1.695	1.691E-04	2.018E-04	1.854E-04
7	0.155	5.679E-04	1.607E-03	1.088E-03	56	1.745	1.651E-04	1.970E-04	1.810E-04
8	0.165	1.118E-03	1.441E-03	1.279E-03	57	1.800	1.263E-04	1.575E-04	1.419E-04
9	0.175	1.222E-03	1.793E-03	1.508E-03	58	1.860	1.098E-04	1.415E-04	1.257E-04
10	0.185	1.299E-03	1.539E-03	1.419E-03	59	1.920	9.880E-05	1.293E-04	1.140E-04
11	0.200	1.330E-03	1.457E-03	1.394E-03	60	1.980	1.230E-04	1.519E-04	1.375E-04
12	0.220	1.014E-03	1.135E-03	1.074E-03	61	2.040	1.293E-04	1.583E-04	1.438E-04
13	0.240	9.857E-04	1.086E-03	1.036E-03	62	2.100	1.048E-04	1.336E-04	1.192E-04
14	0.260	1.004E-03	1.090E-03	1.047E-03	63	2.160	9.058E-05	1.189E-04	1.047E-04
15	0.280	1.166E-03	1.248E-03	1.207E-03	64	2.220	8.213E-05	1.087E-04	9.540E-05
16	0.300	1.530E-03	1.612E-03	1.571E-03	65	2.280	7.545E-05	1.014E-04	8.842E-05
17	0.320	1.526E-03	1.607E-03	1.567E-03	66	2.340	5.520E-05	8.168E-05	6.844E-05
18	0.340	1.166E-03	1.242E-03	1.204E-03	67	2.405	3.878E-05	6.576E-05	5.227E-05
19	0.360	8.886E-04	9.615E-04	9.250E-04	68	2.475	2.656E-05	5.082E-05	3.869E-05
20	0.380	7.024E-04	7.717E-04	7.370E-04	69	2.545	2.665E-05	5.062E-05	3.864E-05
21	0.400	7.113E-04	7.830E-04	7.472E-04	70	2.615	3.471E-05	5.880E-05	4.675E-05
22	0.420	8.783E-04	9.497E-04	9.140E-04	71	2.685	5.957E-05	8.421E-05	7.189E-05
23	0.445	1.079E-03	1.149E-03	1.114E-03	72	2.755	2.339E-05	4.396E-05	3.367E-05
24	0.475	7.952E-04	8.596E-04	8.274E-04	73	2.825	2.231E-05	4.429E-05	3.330E-05
25	0.505	5.640E-04	6.242E-04	5.941E-04	74	2.895	3.046E-05	5.262E-05	4.154E-05
26	0.535	5.209E-04	5.790E-04	5.500E-04	75	2.965	1.106E-05	3.124E-05	2.115E-05
27	0.565	6.748E-04	7.352E-04	7.050E-04	76	3.035	-3.925E-06	1.538E-05	5.729E-06
28	0.595	8.354E-04	8.961E-04	8.657E-04	77	3.110	3.551E-07	1.830E-05	9.327E-06
29	0.625	6.250E-04	6.832E-04	6.541E-04	78	3.190	-1.946E-06	1.568E-05	6.868E-06
30	0.655	5.339E-04	5.897E-04	5.618E-04	79	3.270	7.012E-06	2.380E-05	1.541E-05
31	0.685	6.339E-04	6.908E-04	6.623E-04	80	3.350	1.802E-05	3.314E-05	2.558E-05
32	0.715	7.429E-04	8.003E-04	7.716E-04	81	3.430	1.212E-05	2.655E-05	1.934E-05
33	0.745	6.637E-04	7.195E-04	6.916E-04	82	3.510	9.115E-06	2.141E-05	1.526E-05
34	0.775	5.694E-04	6.233E-04	5.964E-04	83	3.590	2.366E-05	3.748E-05	3.057E-05
35	0.810	6.312E-04	6.879E-04	6.596E-04	84	3.670	1.672E-05	2.852E-05	2.262E-05
36	0.850	8.615E-04	9.202E-04	8.908E-04	85	3.750	2.556E-06	1.185E-05	7.204E-06
37	0.890	8.401E-04	8.988E-04	8.695E-04	86	3.830	1.603E-07	9.618E-06	4.889E-06
38	0.930	8.608E-04	9.195E-04	8.901E-04	87	3.915	-2.868E-06	5.371E-06	1.251E-06
39	0.970	8.985E-04	9.560E-04	9.272E-04	88	4.005	-3.446E-06	4.202E-06	3.779E-07
40	1.010	7.978E-04	8.527E-04	8.253E-04	89	4.095	-1.384E-06	6.094E-06	2.355E-06
41	1.050	5.691E-04	6.178E-04	5.934E-04	90	4.185	4.674E-07	7.947E-06	4.207E-06
42	1.090	4.129E-04	4.570E-04	4.350E-04	91	4.275	2.399E-06	9.479E-06	5.939E-06
43	1.130	3.658E-04	4.068E-04	3.863E-04	92	4.365	2.956E-06	8.754E-06	5.855E-06
44	1.170	3.519E-04	3.910E-04	3.714E-04	93	4.455	2.671E-06	8.365E-06	5.518E-06
45	1.210	3.368E-04	3.742E-04	3.555E-04	94	4.550	1.676E-06	6.346E-06	4.011E-06
46	1.250	3.302E-04	3.797E-04	3.550E-04	95	4.650	5.143E-07	5.047E-06	2.780E-06
47	1.295	3.567E-04	3.925E-04	3.746E-04	96	4.750	3.007E-07	3.690E-06	1.995E-06
48	1.345	3.202E-04	3.578E-04	3.390E-04	97	4.850	4.953E-07	2.612E-06	1.554E-06
49	1.395	2.484E-04	2.844E-04	2.664E-04	98	4.950	9.291E-07	2.307E-06	1.618E-06



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 550 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.300E-03	9.732E-03	8.516E-03	50	1.445	1.927E-04	2.150E-04	2.038E-04
2	0.111	4.148E-03	7.180E-03	5.664E-03	51	1.495	1.452E-04	1.658E-04	1.555E-04
3	0.117	1.324E-04	3.377E-03	1.755E-03	52	1.545	1.265E-04	1.463E-04	1.364E-04
4	0.125	-1.039E-03	7.129E-04	-1.631E-04	53	1.595	1.301E-04	1.506E-04	1.403E-04
5	0.135	3.028E-04	1.394E-03	8.486E-04	54	1.645	1.485E-04	1.689E-04	1.587E-04
6	0.145	4.086E-04	2.200E-03	1.304E-03	55	1.695	1.410E-04	1.638E-04	1.539E-04
7	0.155	5.086E-04	1.343E-03	9.256E-04	56	1.745	1.323E-04	1.521E-04	1.422E-04
8	0.165	9.808E-04	1.194E-03	1.088E-03	57	1.800	1.325E-04	1.518E-04	1.421E-04
9	0.175	1.119E-03	1.516E-03	1.317E-03	58	1.860	7.472E-05	9.316E-05	8.394E-05
10	0.185	1.124E-03	1.288E-03	1.206E-03	59	1.920	7.933E-05	9.757E-05	8.845E-05
11	0.200	1.171E-03	1.252E-03	1.211E-03	60	1.980	8.924E-05	1.066E-04	9.791E-05
12	0.220	8.247E-04	8.993E-04	8.620E-04	61	2.040	9.844E-05	1.163E-04	1.074E-04
13	0.240	8.047E-04	8.669E-04	8.358E-04	62	2.100	8.690E-05	1.040E-04	9.545E-05
14	0.260	8.751E-04	9.292E-04	9.021E-04	63	2.160	7.161E-05	8.856E-05	8.008E-05
15	0.280	1.020E-03	1.072E-03	1.046E-03	64	2.220	7.658E-05	9.255E-05	8.456E-05
16	0.300	1.331E-03	1.383E-03	1.357E-03	65	2.280	5.374E-05	6.888E-05	6.131E-05
17	0.320	1.319E-03	1.370E-03	1.344E-03	66	2.340	3.373E-05	4.870E-05	4.121E-05
18	0.340	9.618E-04	1.010E-03	9.856E-04	67	2.405	2.405E-05	3.943E-05	3.174E-05
19	0.360	7.516E-04	7.972E-04	7.744E-04	68	2.475	2.600E-05	4.047E-05	3.324E-05
20	0.380	5.903E-04	6.335E-04	6.119E-04	69	2.545	5.160E-05	6.727E-05	5.944E-05
21	0.400	5.744E-04	6.187E-04	5.965E-04	70	2.615	3.802E-05	5.195E-05	4.498E-05
22	0.420	7.029E-04	7.469E-04	7.249E-04	71	2.685	3.209E-05	4.578E-05	3.893E-05
23	0.445	8.330E-04	8.763E-04	8.547E-04	72	2.755	2.248E-05	3.494E-05	2.871E-05
24	0.475	6.584E-04	6.985E-04	6.785E-04	73	2.825	2.023E-05	3.215E-05	2.619E-05
25	0.505	4.579E-04	4.952E-04	4.766E-04	74	2.895	1.029E-05	2.225E-05	1.627E-05
26	0.535	4.568E-04	4.932E-04	4.750E-04	75	2.965	-1.134E-08	1.093E-05	5.459E-06
27	0.565	5.838E-04	6.217E-04	6.027E-04	76	3.035	3.138E-06	1.422E-05	8.677E-06
28	0.595	6.569E-04	6.945E-04	6.757E-04	77	3.110	2.722E-06	1.310E-05	7.912E-06
29	0.625	5.195E-04	5.556E-04	5.375E-04	78	3.190	5.404E-06	1.565E-05	1.053E-05
30	0.655	4.524E-04	4.870E-04	4.697E-04	79	3.270	1.294E-06	1.056E-05	5.929E-06
31	0.685	4.694E-04	5.039E-04	4.866E-04	80	3.350	2.676E-06	1.124E-05	6.957E-06
32	0.715	5.383E-04	5.729E-04	5.556E-04	81	3.430	9.489E-06	1.726E-05	1.337E-05
33	0.745	4.973E-04	5.313E-04	5.143E-04	82	3.510	1.190E-05	1.942E-05	1.566E-05
34	0.775	4.288E-04	4.618E-04	4.453E-04	83	3.590	1.281E-05	1.998E-05	1.639E-05
35	0.810	5.219E-04	5.569E-04	5.394E-04	84	3.670	1.156E-05	1.794E-05	1.475E-05
36	0.850	6.440E-04	6.799E-04	6.619E-04	85	3.750	5.057E-06	1.050E-05	7.778E-06
37	0.890	6.979E-04	7.346E-04	7.163E-04	86	3.830	7.770E-07	5.740E-06	3.259E-06
38	0.930	7.097E-04	7.461E-04	7.279E-04	87	3.915	-1.727E-07	4.699E-06	2.263E-06
39	0.970	6.896E-04	7.246E-04	7.071E-04	88	4.005	-3.255E-06	9.428E-07	-1.156E-06
40	1.010	5.611E-04	5.941E-04	5.776E-04	89	4.095	-2.847E-06	1.023E-06	-9.119E-07
41	1.050	4.498E-04	4.800E-04	4.649E-04	90	4.185	9.517E-07	4.853E-06	2.902E-06
42	1.090	3.110E-04	3.379E-04	3.245E-04	91	4.275	2.848E-06	6.633E-06	4.741E-06
43	1.130	2.888E-04	3.143E-04	3.016E-04	92	4.365	2.949E-06	6.401E-06	4.675E-06
44	1.170	2.693E-04	2.935E-04	2.814E-04	93	4.455	2.109E-06	5.386E-06	3.748E-06
45	1.210	2.682E-04	2.914E-04	2.798E-04	94	4.550	4.648E-07	3.442E-06	1.953E-06
46	1.250	2.878E-04	3.183E-04	3.031E-04	95	4.650	-3.828E-07	2.162E-06	8.896E-07
47	1.295	2.551E-04	2.769E-04	2.660E-04	96	4.750	-1.908E-07	1.872E-06	8.408E-07
48	1.345	2.246E-04	2.475E-04	2.360E-04	97	4.850	4.070E-07	1.821E-06	1.114E-06
49	1.395	2.192E-04	2.420E-04	2.306E-04	98	4.950	8.231E-07	1.830E-06	1.326E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>238</sup>U BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 750 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	7.009E-03	8.901E-03	7.955E-03	50	1.445	1.614E-04	1.814E-04	1.714E-04
2	0.111	3.978E-03	6.303E-03	5.140E-03	51	1.495	1.323E-04	1.508E-04	1.415E-04
3	0.117	1.552E-04	2.716E-03	1.435E-03	52	1.545	9.791E-05	1.151E-04	1.065E-04
4	0.125	-9.703E-04	3.764E-04	-2.969E-04	53	1.595	8.536E-05	1.028E-04	9.407E-05
5	0.135	2.385E-04	1.132E-03	6.855E-04	54	1.645	8.848E-05	1.054E-04	9.695E-05
6	0.145	3.638E-04	1.820E-03	1.092E-03	55	1.695	1.047E-04	1.220E-04	1.134E-04
7	0.155	4.014E-04	1.079E-03	7.403E-04	56	1.745	8.870E-05	1.056E-04	9.714E-05
8	0.165	7.831E-04	9.708E-04	8.769E-04	57	1.800	8.651E-05	1.032E-04	9.485E-05
9	0.175	8.978E-04	1.242E-03	1.070E-03	58	1.860	5.336E-05	6.900E-05	6.118E-05
10	0.185	9.225E-04	1.065E-03	9.939E-04	59	1.920	5.322E-05	6.926E-05	6.124E-05
11	0.200	9.750E-04	1.047E-03	1.011E-03	60	1.980	8.018E-05	9.562E-05	8.790E-05
12	0.220	6.757E-04	7.434E-04	7.096E-04	61	2.040	9.200E-05	1.079E-04	9.995E-05
13	0.240	6.418E-04	6.984E-04	6.701E-04	62	2.100	5.164E-05	6.602E-05	5.883E-05
14	0.260	7.287E-04	7.782E-04	7.534E-04	63	2.160	5.335E-05	6.816E-05	6.076E-05
15	0.280	8.874E-04	9.352E-04	9.113E-04	64	2.220	6.121E-05	7.513E-05	6.817E-05
16	0.300	1.179E-03	1.228E-03	1.203E-03	65	2.280	3.994E-05	5.297E-05	4.646E-05
17	0.320	1.140E-03	1.187E-03	1.164E-03	66	2.340	2.489E-05	3.773E-05	3.131E-05
18	0.340	8.045E-04	8.479E-04	8.262E-04	67	2.405	2.505E-05	3.820E-05	3.162E-05
19	0.360	6.320E-04	6.733E-04	6.526E-04	68	2.475	1.458E-05	2.642E-05	2.050E-05
20	0.380	5.085E-04	5.476E-04	5.281E-04	69	2.545	3.123E-05	4.423E-05	3.773E-05
21	0.400	4.701E-04	5.099E-04	4.900E-04	70	2.615	3.253E-05	4.482E-05	3.868E-05
22	0.420	5.448E-04	5.840E-04	5.644E-04	71	2.685	2.023E-05	3.156E-05	2.590E-05
23	0.445	6.602E-04	6.990E-04	6.796E-04	72	2.755	1.442E-05	2.471E-05	1.956E-05
24	0.475	5.523E-04	5.884E-04	5.703E-04	73	2.825	1.280E-05	2.283E-05	1.781E-05
25	0.505	3.628E-04	3.962E-04	3.795E-04	74	2.895	3.899E-06	1.326E-05	8.580E-06
26	0.535	3.730E-04	4.057E-04	3.894E-04	75	2.965	1.270E-06	1.055E-05	5.911E-06
27	0.565	4.549E-04	4.886E-04	4.718E-04	76	3.035	4.150E-07	9.215E-06	4.815E-06
28	0.595	5.083E-04	5.417E-04	5.250E-04	77	3.110	1.020E-06	9.419E-06	5.220E-06
29	0.625	4.420E-04	4.746E-04	4.583E-04	78	3.190	2.742E-06	1.090E-05	6.822E-06
30	0.655	3.762E-04	4.070E-04	3.916E-04	79	3.270	2.701E-06	1.055E-05	6.626E-06
31	0.685	3.205E-04	3.504E-04	3.355E-04	80	3.350	3.415E-06	1.017E-05	6.792E-06
32	0.715	3.713E-04	4.015E-04	3.864E-04	81	3.430	5.294E-06	1.164E-05	8.468E-06
33	0.745	3.799E-04	4.100E-04	3.950E-04	82	3.510	5.678E-06	1.153E-05	8.604E-06
34	0.775	3.549E-04	3.843E-04	3.696E-04	83	3.590	8.796E-06	1.428E-05	1.154E-05
35	0.810	3.841E-04	4.147E-04	3.994E-04	84	3.670	8.469E-06	1.391E-05	1.119E-05
36	0.850	4.730E-04	5.046E-04	4.888E-04	85	3.750	3.554E-06	7.858E-06	5.706E-06
37	0.890	5.613E-04	5.942E-04	5.777E-04	86	3.830	6.948E-07	4.601E-06	2.648E-06
38	0.930	6.023E-04	6.353E-04	6.188E-04	87	3.915	-2.903E-07	3.439E-06	1.574E-06
39	0.970	5.363E-04	5.672E-04	5.518E-04	88	4.005	-9.221E-07	2.382E-06	7.299E-07
40	1.010	4.344E-04	4.637E-04	4.490E-04	89	4.095	-6.353E-07	2.281E-06	8.230E-07
41	1.050	3.376E-04	3.643E-04	3.509E-04	90	4.185	-6.633E-08	2.945E-06	1.439E-06
42	1.090	2.641E-04	2.883E-04	2.762E-04	91	4.275	2.494E-07	3.356E-06	1.803E-06
43	1.130	2.144E-04	2.366E-04	2.255E-04	92	4.365	1.181E-07	3.083E-06	1.600E-06
44	1.170	1.996E-04	2.209E-04	2.102E-04	93	4.455	-2.160E-08	2.280E-06	1.129E-06
45	1.210	1.986E-04	2.191E-04	2.088E-04	94	4.550	-1.085E-07	1.704E-06	7.976E-07
46	1.250	2.343E-04	2.618E-04	2.481E-04	95	4.650	-2.322E-07	1.575E-06	6.713E-07
47	1.295	2.226E-04	2.420E-04	2.323E-04	96	4.750	-5.131E-08	1.359E-06	6.540E-07
48	1.345	1.642E-04	1.842E-04	1.742E-04	97	4.850	1.728E-07	1.057E-06	6.151E-07
49	1.395	1.736E-04	1.938E-04	1.837E-04	98	4.950	3.370E-07	8.261E-07	5.815E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>238</sup>U BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 950 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.337E-03	7.815E-03	7.076E-03	50	1.445	1.381E-04	1.505E-04	1.443E-04
2	0.111	3.643E-03	5.438E-03	4.541E-03	51	1.495	9.674E-05	1.080E-04	1.024E-04
3	0.117	2.274E-04	2.211E-03	1.219E-03	52	1.545	8.165E-05	9.236E-05	8.701E-05
4	0.125	-8.450E-04	1.892E-04	-3.279E-04	53	1.595	7.554E-05	8.632E-05	8.093E-05
5	0.135	2.130E-04	9.046E-04	5.588E-04	54	1.645	6.788E-05	7.828E-05	7.308E-05
6	0.145	3.503E-04	1.475E-03	9.127E-04	55	1.695	7.554E-05	8.590E-05	8.072E-05
7	0.155	3.118E-04	8.382E-04	5.750E-04	56	1.745	7.853E-05	8.903E-05	8.378E-05
8	0.165	6.322E-04	7.605E-04	6.963E-04	57	1.800	6.398E-05	7.395E-05	6.897E-05
9	0.175	7.457E-04	9.876E-04	8.666E-04	58	1.860	4.681E-05	5.657E-05	5.169E-05
10	0.185	7.423E-04	8.419E-04	7.921E-04	59	1.920	4.279E-05	5.247E-05	4.763E-05
11	0.200	8.053E-04	8.536E-04	8.295E-04	60	1.980	5.329E-05	6.249E-05	5.789E-05
12	0.220	5.584E-04	6.002E-04	5.793E-04	61	2.040	6.658E-05	7.608E-05	7.133E-05
13	0.240	5.186E-04	5.533E-04	5.360E-04	62	2.100	4.568E-05	5.463E-05	5.016E-05
14	0.260	5.624E-04	5.928E-04	5.776E-04	63	2.160	3.786E-05	4.674E-05	4.230E-05
15	0.280	7.212E-04	7.515E-04	7.364E-04	64	2.220	4.478E-05	5.327E-05	4.903E-05
16	0.300	1.010E-03	1.042E-03	1.026E-03	65	2.280	3.803E-05	4.609E-05	4.206E-05
17	0.320	9.854E-04	1.016E-03	1.001E-03	66	2.340	2.587E-05	3.371E-05	2.979E-05
18	0.340	6.689E-04	6.960E-04	6.825E-04	67	2.405	2.259E-05	3.051E-05	2.655E-05
19	0.360	4.958E-04	5.213E-04	5.085E-04	68	2.475	2.044E-05	2.773E-05	2.408E-05
20	0.380	3.848E-04	4.088E-04	3.968E-04	69	2.545	2.319E-05	3.080E-05	2.699E-05
21	0.400	3.664E-04	3.907E-04	3.786E-04	70	2.615	2.595E-05	3.338E-05	2.966E-05
22	0.420	4.380E-04	4.622E-04	4.501E-04	71	2.685	2.681E-05	3.410E-05	3.045E-05
23	0.445	5.201E-04	5.439E-04	5.320E-04	72	2.755	1.191E-05	1.755E-05	1.473E-05
24	0.475	4.116E-04	4.336E-04	4.226E-04	73	2.825	4.825E-06	9.984E-06	7.405E-06
25	0.505	2.903E-04	3.109E-04	3.006E-04	74	2.895	2.508E-06	8.184E-06	5.346E-06
26	0.535	3.125E-04	3.328E-04	3.227E-04	75	2.965	-9.045E-07	4.040E-06	1.568E-06
27	0.565	3.565E-04	3.771E-04	3.668E-04	76	3.035	-8.868E-07	4.196E-06	1.655E-06
28	0.595	3.564E-04	3.765E-04	3.665E-04	77	3.110	2.301E-07	5.163E-06	2.697E-06
29	0.625	3.278E-04	3.476E-04	3.377E-04	78	3.190	2.090E-06	6.900E-06	4.495E-06
30	0.655	2.925E-04	3.114E-04	3.019E-04	79	3.270	1.726E-06	5.896E-06	3.811E-06
31	0.685	2.416E-04	2.598E-04	2.507E-04	80	3.350	4.086E-06	8.091E-06	6.089E-06
32	0.715	2.441E-04	2.620E-04	2.531E-04	81	3.430	2.492E-06	5.944E-06	4.218E-06
33	0.745	2.676E-04	2.857E-04	2.767E-04	82	3.510	4.492E-06	7.793E-06	6.143E-06
34	0.775	2.686E-04	2.865E-04	2.775E-04	83	3.590	6.288E-06	9.493E-06	7.890E-06
35	0.810	2.922E-04	3.111E-04	3.016E-04	84	3.670	6.008E-06	8.899E-06	7.454E-06
36	0.850	3.847E-04	4.044E-04	3.945E-04	85	3.750	3.460E-06	5.737E-06	4.599E-06
37	0.890	4.641E-04	4.846E-04	4.744E-04	86	3.830	1.085E-06	3.030E-06	2.057E-06
38	0.930	4.852E-04	5.055E-04	4.954E-04	87	3.915	4.730E-07	2.294E-06	1.383E-06
39	0.970	3.977E-04	4.165E-04	4.071E-04	88	4.005	7.734E-07	2.466E-06	1.620E-06
40	1.010	3.262E-04	3.440E-04	3.351E-04	89	4.095	9.812E-07	2.696E-06	1.839E-06
41	1.050	2.730E-04	2.895E-04	2.813E-04	90	4.185	4.602E-07	2.088E-06	1.274E-06
42	1.090	1.769E-04	1.913E-04	1.841E-04	91	4.275	-3.985E-07	1.083E-06	3.423E-07
43	1.130	1.553E-04	1.688E-04	1.621E-04	92	4.365	-9.933E-07	5.396E-07	-2.269E-07
44	1.170	1.499E-04	1.629E-04	1.564E-04	93	4.455	-1.294E-06	3.204E-07	-4.870E-07
45	1.210	1.479E-04	1.603E-04	1.541E-04	94	4.550	-1.251E-06	2.075E-07	-5.216E-07
46	1.250	1.834E-04	2.000E-04	1.917E-04	95	4.650	-7.029E-07	4.626E-07	-1.201E-07
47	1.295	1.568E-04	1.687E-04	1.627E-04	96	4.750	-2.425E-08	9.314E-07	4.536E-07
48	1.345	1.357E-04	1.481E-04	1.419E-04	97	4.850	3.434E-07	1.261E-06	8.022E-07
49	1.395	1.424E-04	1.551E-04	1.488E-04	98	4.950	4.299E-07	1.086E-06	7.580E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1350 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	5.393E-03	6.498E-03	5.946E-03	50	1.445	1.209E-04	1.323E-04	1.266E-04
2	0.111	3.128E-03	4.451E-03	3.789E-03	51	1.495	9.326E-05	1.036E-04	9.842E-05
3	0.117	2.229E-04	1.724E-03	9.735E-04	52	1.545	6.902E-05	7.840E-05	7.371E-05
4	0.125	-7.238E-04	4.147E-05	-3.411E-04	53	1.595	5.431E-05	6.353E-05	5.892E-05
5	0.135	1.509E-04	6.902E-04	4.205E-04	54	1.645	4.957E-05	5.853E-05	5.405E-05
6	0.145	3.045E-04	1.177E-03	7.408E-04	55	1.695	4.849E-05	5.720E-05	5.284E-05
7	0.155	2.405E-04	6.485E-04	4.445E-04	56	1.745	4.883E-05	5.772E-05	5.327E-05
8	0.165	4.912E-04	5.966E-04	5.439E-04	57	1.800	4.198E-05	5.063E-05	4.631E-05
9	0.175	5.848E-04	7.811E-04	6.829E-04	58	1.860	4.007E-05	4.875E-05	4.441E-05
10	0.185	5.613E-04	6.425E-04	6.019E-04	59	1.920	3.651E-05	4.502E-05	4.076E-05
11	0.200	6.146E-04	6.546E-04	6.346E-04	60	1.980	3.945E-05	4.743E-05	4.344E-05
12	0.220	4.265E-04	4.633E-04	4.449E-04	61	2.040	4.031E-05	4.828E-05	4.429E-05
13	0.240	3.875E-04	4.181E-04	4.028E-04	62	2.100	3.252E-05	4.029E-05	3.640E-05
14	0.260	4.205E-04	4.473E-04	4.339E-04	63	2.160	3.006E-05	3.779E-05	3.393E-05
15	0.280	5.778E-04	6.043E-04	5.911E-04	64	2.220	3.493E-05	4.233E-05	3.863E-05
16	0.300	8.341E-04	8.614E-04	8.478E-04	65	2.280	3.162E-05	3.888E-05	3.525E-05
17	0.320	7.935E-04	8.200E-04	8.068E-04	66	2.340	2.170E-05	2.840E-05	2.505E-05
18	0.340	5.163E-04	5.401E-04	5.282E-04	67	2.405	1.813E-05	2.492E-05	2.152E-05
19	0.360	3.814E-04	4.036E-04	3.925E-04	68	2.475	1.252E-05	1.870E-05	1.561E-05
20	0.380	2.848E-04	3.055E-04	2.952E-04	69	2.545	7.848E-06	1.390E-05	1.087E-05
21	0.400	2.534E-04	2.744E-04	2.639E-04	70	2.615	1.446E-05	2.058E-05	1.752E-05
22	0.420	3.101E-04	3.311E-04	3.206E-04	71	2.685	1.665E-05	2.269E-05	1.967E-05
23	0.445	4.065E-04	4.275E-04	4.170E-04	72	2.755	9.800E-06	1.480E-05	1.230E-05
24	0.475	3.433E-04	3.628E-04	3.531E-04	73	2.825	4.660E-06	9.109E-06	6.884E-06
25	0.505	2.171E-04	2.351E-04	2.261E-04	74	2.895	2.082E-06	6.765E-06	4.424E-06
26	0.535	2.393E-04	2.570E-04	2.482E-04	75	2.965	4.868E-07	4.757E-06	2.622E-06
27	0.565	2.600E-04	2.780E-04	2.690E-04	76	3.035	2.162E-06	6.545E-06	4.354E-06
28	0.595	2.713E-04	2.890E-04	2.802E-04	77	3.110	3.943E-06	8.176E-06	6.060E-06
29	0.625	2.560E-04	2.735E-04	2.648E-04	78	3.190	1.627E-06	5.623E-06	3.625E-06
30	0.655	2.326E-04	2.492E-04	2.409E-04	79	3.270	-1.773E-07	3.186E-06	1.505E-06
31	0.685	1.652E-04	1.808E-04	1.730E-04	80	3.350	3.607E-07	3.594E-06	1.977E-06
32	0.715	1.721E-04	1.876E-04	1.798E-04	81	3.430	5.503E-07	3.280E-06	1.915E-06
33	0.745	2.039E-04	2.198E-04	2.119E-04	82	3.510	2.693E-06	5.542E-06	4.118E-06
34	0.775	2.055E-04	2.212E-04	2.134E-04	83	3.590	3.913E-06	6.711E-06	5.312E-06
35	0.810	2.075E-04	2.238E-04	2.157E-04	84	3.670	3.198E-06	5.700E-06	4.449E-06
36	0.850	3.038E-04	3.212E-04	3.125E-04	85	3.750	1.715E-06	3.900E-06	2.808E-06
37	0.890	3.582E-04	3.763E-04	3.673E-04	86	3.830	5.295E-07	2.463E-06	1.496E-06
38	0.930	3.708E-04	3.886E-04	3.797E-04	87	3.915	1.162E-07	1.982E-06	1.049E-06
39	0.970	2.956E-04	3.119E-04	3.037E-04	88	4.005	-3.733E-07	1.211E-06	4.186E-07
40	1.010	2.381E-04	2.536E-04	2.458E-04	89	4.095	-6.104E-07	1.034E-06	2.117E-07
41	1.050	2.106E-04	2.251E-04	2.179E-04	90	4.185	-3.481E-07	1.321E-06	4.863E-07
42	1.090	1.328E-04	1.454E-04	1.391E-04	91	4.275	4.057E-08	1.603E-06	8.216E-07
43	1.130	1.025E-04	1.141E-04	1.083E-04	92	4.365	2.022E-07	1.492E-06	8.468E-07
44	1.170	1.045E-04	1.158E-04	1.102E-04	93	4.455	1.178E-07	1.198E-06	6.578E-07
45	1.210	1.032E-04	1.139E-04	1.086E-04	94	4.550	-1.889E-07	8.868E-07	3.490E-07
46	1.250	1.199E-04	1.342E-04	1.271E-04	95	4.650	-3.034E-07	5.098E-07	1.032E-07
47	1.295	1.085E-04	1.186E-04	1.136E-04	96	4.750	-2.265E-07	3.924E-07	8.296E-08
48	1.345	9.230E-05	1.031E-04	9.772E-05	97	4.850	8.857E-09	3.761E-07	1.925E-07
49	1.395	1.175E-04	1.289E-04	1.232E-04	98	4.950	1.505E-07	4.125E-07	2.815E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1750 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.664E-03	5.606E-03	5.135E-03	50	1.445	1.181E-04	1.289E-04	1.235E-04
2	0.111	2.733E-03	3.871E-03	3.302E-03	51	1.495	8.479E-05	9.425E-05	8.952E-05
3	0.117	2.588E-04	1.513E-03	8.858E-04	52	1.545	5.240E-05	6.066E-05	5.653E-05
4	0.125	-5.977E-04	5.683E-05	-2.704E-04	53	1.595	3.951E-05	4.763E-05	4.357E-05
5	0.135	1.163E-04	5.583E-04	3.373E-04	54	1.645	3.390E-05	4.169E-05	3.779E-05
6	0.145	2.421E-04	9.604E-04	6.013E-04	55	1.695	3.916E-05	4.698E-05	4.307E-05
7	0.155	1.741E-04	5.088E-04	3.415E-04	56	1.745	4.157E-05	4.956E-05	4.556E-05
8	0.165	3.734E-04	4.659E-04	4.196E-04	57	1.800	3.441E-05	4.206E-05	3.823E-05
9	0.175	4.675E-04	6.369E-04	5.522E-04	58	1.860	2.112E-05	2.838E-05	2.475E-05
10	0.185	4.483E-04	5.188E-04	4.835E-04	59	1.920	1.964E-05	2.692E-05	2.328E-05
11	0.200	5.069E-04	5.426E-04	5.248E-04	60	1.980	2.512E-05	3.214E-05	2.863E-05
12	0.220	3.500E-04	3.830E-04	3.665E-04	61	2.040	2.929E-05	3.654E-05	3.292E-05
13	0.240	2.967E-04	3.241E-04	3.104E-04	62	2.100	2.746E-05	3.456E-05	3.101E-05
14	0.260	3.250E-04	3.491E-04	3.371E-04	63	2.160	2.059E-05	2.753E-05	2.406E-05
15	0.280	4.597E-04	4.836E-04	4.717E-04	64	2.220	2.742E-05	3.416E-05	3.079E-05
16	0.300	6.728E-04	6.974E-04	6.851E-04	65	2.280	2.800E-05	3.463E-05	3.132E-05
17	0.320	6.428E-04	6.667E-04	6.548E-04	66	2.340	1.595E-05	2.179E-05	1.887E-05
18	0.340	4.064E-04	4.277E-04	4.170E-04	67	2.405	1.200E-05	1.789E-05	1.494E-05
19	0.360	2.984E-04	3.184E-04	3.084E-04	68	2.475	1.036E-05	1.593E-05	1.315E-05
20	0.380	2.313E-04	2.500E-04	2.407E-04	69	2.545	1.620E-05	2.204E-05	1.912E-05
21	0.400	1.981E-04	2.171E-04	2.076E-04	70	2.615	1.744E-05	2.303E-05	2.024E-05
22	0.420	2.465E-04	2.655E-04	2.560E-04	71	2.685	1.637E-05	2.171E-05	1.904E-05
23	0.445	3.384E-04	3.576E-04	3.480E-04	72	2.755	7.557E-06	1.164E-05	9.597E-06
24	0.475	2.940E-04	3.119E-04	3.030E-04	73	2.825	1.995E-06	5.678E-06	3.837E-06
25	0.505	1.858E-04	2.022E-04	1.940E-04	74	2.895	-1.087E-06	2.475E-06	6.939E-07
26	0.535	2.025E-04	2.186E-04	2.105E-04	75	2.965	-2.454E-07	3.428E-06	1.591E-06
27	0.565	2.098E-04	2.259E-04	2.178E-04	76	3.035	-4.870E-07	3.042E-06	1.277E-06
28	0.595	1.851E-04	2.005E-04	1.928E-04	77	3.110	-1.552E-06	1.709E-06	7.819E-08
29	0.625	1.932E-04	2.088E-04	2.010E-04	78	3.190	6.071E-07	3.863E-06	2.235E-06
30	0.655	1.863E-04	2.013E-04	1.938E-04	79	3.270	4.796E-07	3.503E-06	1.991E-06
31	0.685	1.307E-04	1.446E-04	1.377E-04	80	3.350	6.828E-07	3.404E-06	2.044E-06
32	0.715	1.251E-04	1.389E-04	1.320E-04	81	3.430	5.921E-07	3.256E-06	1.924E-06
33	0.745	1.592E-04	1.734E-04	1.663E-04	82	3.510	1.495E-06	3.837E-06	2.666E-06
34	0.775	1.633E-04	1.773E-04	1.703E-04	83	3.590	3.205E-06	5.648E-06	4.427E-06
35	0.810	1.575E-04	1.722E-04	1.648E-04	84	3.670	2.718E-06	4.843E-06	3.781E-06
36	0.850	2.426E-04	2.582E-04	2.504E-04	85	3.750	1.120E-06	2.859E-06	1.989E-06
37	0.890	3.013E-04	3.177E-04	3.095E-04	86	3.830	9.918E-09	1.595E-06	8.026E-07
38	0.930	3.050E-04	3.211E-04	3.131E-04	87	3.915	1.491E-07	1.606E-06	8.778E-07
39	0.970	2.361E-04	2.508E-04	2.435E-04	88	4.005	2.513E-07	1.635E-06	9.430E-07
40	1.010	1.910E-04	2.049E-04	1.980E-04	89	4.095	1.362E-07	1.313E-06	7.248E-07
41	1.050	1.650E-04	1.779E-04	1.715E-04	90	4.185	2.508E-08	1.214E-06	6.194E-07
42	1.090	9.284E-05	1.039E-04	9.838E-05	91	4.275	-7.676E-08	9.918E-07	4.575E-07
43	1.130	9.134E-05	1.020E-04	9.665E-05	92	4.365	-3.224E-07	7.435E-07	2.106E-07
44	1.170	8.044E-05	9.047E-05	8.546E-05	93	4.455	-5.818E-07	3.208E-07	-1.305E-07
45	1.210	7.555E-05	8.500E-05	8.028E-05	94	4.550	-6.531E-07	1.362E-07	-2.584E-07
46	1.250	8.907E-05	1.017E-04	9.538E-05	95	4.650	-4.665E-07	3.254E-07	-7.054E-08
47	1.295	7.459E-05	8.337E-05	7.898E-05	96	4.750	-2.050E-07	4.790E-07	1.370E-07
48	1.345	6.385E-05	7.342E-05	6.863E-05	97	4.850	3.932E-08	5.147E-07	2.770E-07
49	1.395	9.438E-05	1.048E-04	9.960E-05	98	4.950	1.810E-07	4.823E-07	3.317E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2150 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.860E-03	4.648E-03	4.254E-03	50	1.445	1.127E-04	1.218E-04	1.173E-04
2	0.111	2.254E-03	3.211E-03	2.732E-03	51	1.495	7.834E-05	8.618E-05	8.226E-05
3	0.117	2.187E-04	1.256E-03	7.374E-04	52	1.545	4.640E-05	5.307E-05	4.974E-05
4	0.125	-4.748E-04	7.372E-05	-2.005E-04	53	1.595	3.404E-05	4.051E-05	3.727E-05
5	0.135	1.143E-04	4.746E-04	2.944E-04	54	1.645	2.281E-05	2.880E-05	2.581E-05
6	0.145	1.831E-04	7.703E-04	4.767E-04	55	1.695	2.623E-05	3.232E-05	2.927E-05
7	0.155	1.466E-04	4.199E-04	2.833E-04	56	1.745	2.617E-05	3.237E-05	2.927E-05
8	0.165	3.141E-04	3.885E-04	3.513E-04	57	1.800	2.828E-05	3.451E-05	3.140E-05
9	0.175	3.653E-04	5.021E-04	4.337E-04	58	1.860	2.197E-05	2.776E-05	2.487E-05
10	0.185	3.555E-04	4.122E-04	3.839E-04	59	1.920	1.493E-05	2.066E-05	1.780E-05
11	0.200	4.016E-04	4.302E-04	4.159E-04	60	1.980	1.567E-05	2.121E-05	1.844E-05
12	0.220	2.875E-04	3.139E-04	3.007E-04	61	2.040	2.568E-05	3.144E-05	2.856E-05
13	0.240	2.306E-04	2.524E-04	2.415E-04	62	2.100	1.703E-05	2.244E-05	1.973E-05
14	0.260	2.494E-04	2.686E-04	2.590E-04	63	2.160	1.642E-05	2.200E-05	1.921E-05
15	0.280	3.698E-04	3.889E-04	3.794E-04	64	2.220	2.325E-05	2.868E-05	2.597E-05
16	0.300	5.354E-04	5.551E-04	5.452E-04	65	2.280	2.524E-05	3.050E-05	2.787E-05
17	0.320	4.993E-04	5.183E-04	5.088E-04	66	2.340	1.025E-05	1.482E-05	1.254E-05
18	0.340	3.143E-04	3.313E-04	3.228E-04	67	2.405	8.282E-06	1.294E-05	1.061E-05
19	0.360	2.255E-04	2.413E-04	2.334E-04	68	2.475	1.090E-05	1.551E-05	1.321E-05
20	0.380	1.671E-04	1.820E-04	1.746E-04	69	2.545	8.677E-06	1.293E-05	1.080E-05
21	0.400	1.544E-04	1.696E-04	1.620E-04	70	2.615	1.168E-05	1.601E-05	1.384E-05
22	0.420	1.982E-04	2.136E-04	2.059E-04	71	2.685	1.347E-05	1.778E-05	1.562E-05
23	0.445	2.721E-04	2.876E-04	2.799E-04	72	2.755	6.152E-06	9.374E-06	7.763E-06
24	0.475	2.404E-04	2.549E-04	2.476E-04	73	2.825	1.296E-06	4.197E-06	2.747E-06
25	0.505	1.391E-04	1.523E-04	1.457E-04	74	2.895	-4.875E-07	2.336E-06	9.245E-07
26	0.535	1.738E-04	1.869E-04	1.804E-04	75	2.965	4.964E-07	3.333E-06	1.915E-06
27	0.565	1.698E-04	1.829E-04	1.764E-04	76	3.035	7.862E-07	3.479E-06	2.133E-06
28	0.595	1.549E-04	1.673E-04	1.611E-04	77	3.110	7.509E-07	3.520E-06	2.136E-06
29	0.625	1.527E-04	1.653E-04	1.590E-04	78	3.190	-4.130E-07	1.982E-06	7.843E-07
30	0.655	1.531E-04	1.652E-04	1.591E-04	79	3.270	-1.789E-07	2.142E-06	9.813E-07
31	0.685	1.125E-04	1.239E-04	1.182E-04	80	3.350	3.689E-07	2.493E-06	1.431E-06
32	0.715	1.009E-04	1.120E-04	1.064E-04	81	3.430	7.551E-07	2.630E-06	1.692E-06
33	0.745	1.366E-04	1.482E-04	1.424E-04	82	3.510	1.025E-06	2.854E-06	1.940E-06
34	0.775	1.425E-04	1.540E-04	1.483E-04	83	3.590	9.980E-07	2.618E-06	1.808E-06
35	0.810	1.373E-04	1.493E-04	1.433E-04	84	3.670	1.248E-06	2.855E-06	2.051E-06
36	0.850	2.107E-04	2.235E-04	2.171E-04	85	3.750	1.551E-06	2.986E-06	2.269E-06
37	0.890	2.547E-04	2.681E-04	2.614E-04	86	3.830	8.229E-07	2.133E-06	1.478E-06
38	0.930	2.478E-04	2.607E-04	2.543E-04	87	3.915	-3.579E-08	1.083E-06	5.238E-07
39	0.970	1.847E-04	1.963E-04	1.905E-04	88	4.005	-1.420E-07	8.592E-07	3.586E-07
40	1.010	1.473E-04	1.584E-04	1.529E-04	89	4.095	-1.317E-08	9.594E-07	4.731E-07
41	1.050	1.262E-04	1.365E-04	1.314E-04	90	4.185	7.057E-08	1.059E-06	5.647E-07
42	1.090	8.047E-05	8.945E-05	8.496E-05	91	4.275	-9.684E-08	8.590E-07	3.811E-07
43	1.130	6.439E-05	7.282E-05	6.861E-05	92	4.365	-3.843E-07	4.250E-07	2.036E-08
44	1.170	6.030E-05	6.833E-05	6.432E-05	93	4.455	-6.092E-07	2.316E-07	-1.888E-07
45	1.210	6.411E-05	7.179E-05	6.795E-05	94	4.550	-6.874E-07	1.484E-07	-2.695E-07
46	1.250	6.849E-05	7.857E-05	7.353E-05	95	4.650	-4.978E-07	1.700E-07	-1.639E-07
47	1.295	5.632E-05	6.323E-05	5.978E-05	96	4.750	-1.466E-07	3.581E-07	1.058E-07
48	1.345	4.370E-05	5.132E-05	4.751E-05	97	4.850	9.800E-08	5.379E-07	3.180E-07
49	1.395	7.431E-05	8.280E-05	7.855E-05	98	4.950	1.679E-07	5.337E-07	3.508E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2650 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.094E-03	3.794E-03	3.444E-03	50	1.445	9.229E-05	1.006E-04	9.646E-05
2	0.111	1.809E-03	2.678E-03	2.244E-03	51	1.495	6.633E-05	7.350E-05	6.991E-05
3	0.117	1.991E-04	1.109E-03	6.542E-04	52	1.545	3.465E-05	4.062E-05	3.763E-05
4	0.125	-3.542E-04	1.409E-04	-1.067E-04	53	1.595	2.553E-05	3.125E-05	2.839E-05
5	0.135	9.621E-05	3.943E-04	2.452E-04	54	1.645	2.436E-05	3.001E-05	2.719E-05
6	0.145	1.187E-04	6.090E-04	3.639E-04	55	1.695	2.055E-05	2.599E-05	2.327E-05
7	0.155	1.137E-04	3.408E-04	2.272E-04	56	1.745	2.193E-05	2.754E-05	2.473E-05
8	0.165	2.529E-04	3.188E-04	2.858E-04	57	1.800	2.349E-05	2.902E-05	2.626E-05
9	0.175	2.851E-04	4.042E-04	3.446E-04	58	1.860	1.676E-05	2.210E-05	1.943E-05
10	0.185	2.796E-04	3.293E-04	3.044E-04	59	1.920	1.451E-05	1.965E-05	1.708E-05
11	0.200	3.175E-04	3.432E-04	3.303E-04	60	1.980	1.351E-05	1.840E-05	1.596E-05
12	0.220	2.370E-04	2.610E-04	2.490E-04	61	2.040	1.388E-05	1.877E-05	1.632E-05
13	0.240	1.819E-04	2.015E-04	1.917E-04	62	2.100	1.002E-05	1.480E-05	1.241E-05
14	0.260	1.922E-04	2.095E-04	2.009E-04	63	2.160	1.390E-05	1.894E-05	1.642E-05
15	0.280	3.025E-04	3.198E-04	3.111E-04	64	2.220	1.878E-05	2.366E-05	2.122E-05
16	0.300	4.287E-04	4.464E-04	4.376E-04	65	2.280	1.753E-05	2.231E-05	1.992E-05
17	0.320	3.944E-04	4.115E-04	4.030E-04	66	2.340	9.579E-06	1.374E-05	1.166E-05
18	0.340	2.414E-04	2.565E-04	2.489E-04	67	2.405	4.974E-06	9.021E-06	6.998E-06
19	0.360	1.661E-04	1.802E-04	1.732E-04	68	2.475	8.493E-06	1.258E-05	1.054E-05
20	0.380	1.270E-04	1.403E-04	1.337E-04	69	2.545	6.602E-06	1.043E-05	8.517E-06
21	0.400	1.178E-04	1.315E-04	1.246E-04	70	2.615	7.437E-06	1.115E-05	9.296E-06
22	0.420	1.471E-04	1.609E-04	1.540E-04	71	2.685	7.206E-06	1.093E-05	9.066E-06
23	0.445	2.279E-04	2.421E-04	2.350E-04	72	2.755	5.735E-06	9.003E-06	7.369E-06
24	0.475	2.077E-04	2.211E-04	2.144E-04	73	2.825	2.580E-06	5.245E-06	3.913E-06
25	0.505	1.258E-04	1.379E-04	1.319E-04	74	2.895	2.257E-07	2.948E-06	1.587E-06
26	0.535	1.339E-04	1.457E-04	1.398E-04	75	2.965	1.457E-06	3.992E-06	2.725E-06
27	0.565	1.375E-04	1.493E-04	1.434E-04	76	3.035	9.597E-08	2.430E-06	1.263E-06
28	0.595	1.151E-04	1.263E-04	1.207E-04	77	3.110	-1.029E-06	1.065E-06	1.818E-08
29	0.625	1.159E-04	1.272E-04	1.215E-04	78	3.190	9.170E-07	3.287E-06	2.102E-06
30	0.655	1.264E-04	1.374E-04	1.319E-04	79	3.270	9.107E-07	3.017E-06	1.964E-06
31	0.685	8.704E-05	9.730E-05	9.217E-05	80	3.350	2.224E-07	2.053E-06	1.138E-06
32	0.715	7.764E-05	8.768E-05	8.266E-05	81	3.430	-1.963E-07	1.543E-06	6.733E-07
33	0.745	1.130E-04	1.236E-04	1.183E-04	82	3.510	1.839E-07	1.774E-06	9.791E-07
34	0.775	1.144E-04	1.248E-04	1.196E-04	83	3.590	4.875E-07	2.005E-06	1.247E-06
35	0.810	1.045E-04	1.153E-04	1.099E-04	84	3.670	1.017E-06	2.484E-06	1.750E-06
36	0.850	1.714E-04	1.831E-04	1.772E-04	85	3.750	9.820E-07	2.282E-06	1.632E-06
37	0.890	2.296E-04	2.420E-04	2.358E-04	86	3.830	2.403E-07	1.380E-06	8.100E-07
38	0.930	1.949E-04	2.065E-04	2.007E-04	87	3.915	4.544E-08	1.174E-06	6.095E-07
39	0.970	1.473E-04	1.579E-04	1.526E-04	88	4.005	1.538E-07	1.361E-06	7.573E-07
40	1.010	1.223E-04	1.325E-04	1.274E-04	89	4.095	-5.149E-08	8.937E-07	4.211E-07
41	1.050	1.080E-04	1.175E-04	1.127E-04	90	4.185	-1.863E-07	6.070E-07	2.104E-07
42	1.090	6.589E-05	7.413E-05	7.001E-05	91	4.275	-2.772E-07	5.601E-07	1.414E-07
43	1.130	5.364E-05	6.134E-05	5.749E-05	92	4.365	-3.866E-07	4.682E-07	4.076E-08
44	1.170	5.225E-05	5.961E-05	5.593E-05	93	4.455	-4.368E-07	3.489E-07	-4.399E-08
45	1.210	4.658E-05	5.336E-05	4.997E-05	94	4.550	-4.788E-07	1.975E-07	-1.406E-07
46	1.250	4.506E-05	5.387E-05	4.946E-05	95	4.650	-3.351E-07	2.160E-07	-5.954E-08
47	1.295	3.587E-05	4.196E-05	3.892E-05	96	4.750	-1.237E-07	4.056E-07	1.409E-07
48	1.345	3.618E-05	4.320E-05	3.969E-05	97	4.850	4.382E-08	4.410E-07	2.424E-07
49	1.395	6.514E-05	7.310E-05	6.912E-05	98	4.950	1.295E-07	3.609E-07	2.452E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3150 SEC

COUNTING TIME : 600 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	2.480E-03	3.098E-03	2.789E-03	50 1.445	7.990E-05	8.694E-05	8.342E-05
2 0.111	1.445E-03	2.227E-03	1.836E-03	51 1.495	5.891E-05	6.499E-05	6.195E-05
3 0.117	1.664E-04	9.711E-04	5.687E-04	52 1.545	2.903E-05	3.390E-05	3.147E-05
4 0.125	-2.591E-04	1.825E-04	-3.831E-05	53 1.595	2.061E-05	2.529E-05	2.295E-05
5 0.135	9.469E-05	3.406E-04	2.176E-04	54 1.645	1.376E-05	1.805E-05	1.590E-05
6 0.145	8.060E-05	4.887E-04	2.846E-04	55 1.695	1.301E-05	1.729E-05	1.515E-05
7 0.155	9.374E-05	2.822E-04	1.880E-04	56 1.745	1.822E-05	2.291E-05	2.056E-05
8 0.165	2.080E-04	2.625E-04	2.352E-04	57 1.800	2.099E-05	2.550E-05	2.325E-05
9 0.175	2.197E-04	3.181E-04	2.689E-04	58 1.860	1.365E-05	1.795E-05	1.580E-05
10 0.185	2.187E-04	2.598E-04	2.393E-04	59 1.920	1.051E-05	1.464E-05	1.258E-05
11 0.200	2.483E-04	2.695E-04	2.589E-04	60 1.980	7.553E-06	1.134E-05	9.445E-06
12 0.220	2.072E-04	2.270E-04	2.171E-04	61 2.040	9.153E-06	1.307E-05	1.111E-05
13 0.240	1.494E-04	1.655E-04	1.574E-04	62 2.100	7.433E-06	1.134E-05	9.387E-06
14 0.260	1.477E-04	1.617E-04	1.547E-04	63 2.160	8.142E-06	1.207E-05	1.011E-05
15 0.280	2.321E-04	2.461E-04	2.391E-04	64 2.220	1.276E-05	1.668E-05	1.472E-05
16 0.300	3.181E-04	3.323E-04	3.252E-04	65 2.280	1.108E-05	1.490E-05	1.299E-05
17 0.320	2.896E-04	3.033E-04	2.964E-04	66 2.340	9.083E-06	1.264E-05	1.086E-05
18 0.340	1.804E-04	1.927E-04	1.866E-04	67 2.405	6.988E-06	1.058E-05	8.783E-06
19 0.360	1.231E-04	1.345E-04	1.288E-04	68 2.475	5.352E-06	8.545E-06	6.948E-06
20 0.380	9.617E-05	1.071E-04	1.016E-04	69 2.545	6.463E-06	9.762E-06	8.113E-06
21 0.400	9.046E-05	1.018E-04	9.611E-05	70 2.615	8.430E-06	1.162E-05	1.002E-05
22 0.420	1.201E-04	1.316E-04	1.258E-04	71 2.685	7.839E-06	1.098E-05	9.410E-06
23 0.445	1.832E-04	1.950E-04	1.891E-04	72 2.755	4.906E-06	7.474E-06	6.190E-06
24 0.475	1.740E-04	1.851E-04	1.795E-04	73 2.825	8.873E-07	3.044E-06	1.966E-06
25 0.505	9.370E-05	1.037E-04	9.868E-05	74 2.895	-4.265E-07	1.744E-06	6.589E-07
26 0.535	1.020E-04	1.117E-04	1.069E-04	75 2.965	4.270E-07	2.523E-06	1.475E-06
27 0.565	1.047E-04	1.144E-04	1.095E-04	76 3.035	-6.462E-07	1.311E-06	3.322E-07
28 0.595	9.067E-05	9.994E-05	9.530E-05	77 3.110	-1.708E-06	1.696E-06	-8.455E-07
29 0.625	9.140E-05	1.008E-04	9.610E-05	78 3.190	-1.845E-06	-1.509E-07	-9.980E-07
30 0.655	1.106E-04	1.199E-04	1.152E-04	79 3.270	-8.653E-07	8.044E-07	-3.045E-08
31 0.685	7.269E-05	8.128E-05	7.699E-05	80 3.350	9.100E-07	2.626E-06	1.768E-06
32 0.715	6.189E-05	7.024E-05	6.607E-05	81 3.430	1.304E-06	2.960E-06	2.132E-06
33 0.745	1.031E-04	1.120E-04	1.075E-04	82 3.510	6.766E-07	2.258E-06	1.467E-06
34 0.775	9.872E-05	1.075E-04	1.031E-04	83 3.590	1.331E-06	2.731E-06	2.031E-06
35 0.810	8.145E-05	9.044E-05	8.594E-05	84 3.670	1.427E-06	2.820E-06	2.124E-06
36 0.850	1.589E-04	1.690E-04	1.639E-04	85 3.750	4.389E-07	1.543E-06	9.909E-07
37 0.890	1.986E-04	2.090E-04	2.038E-04	86 3.830	-2.021E-07	8.837E-07	3.408E-07
38 0.930	1.669E-04	1.765E-04	1.717E-04	87 3.915	-3.862E-07	6.840E-07	1.489E-07
39 0.970	1.163E-04	1.250E-04	1.207E-04	88 4.005	-5.311E-07	5.153E-07	-7.916E-09
40 1.010	8.860E-05	9.684E-05	9.272E-05	89 4.095	-4.129E-07	6.179E-07	1.025E-07
41 1.050	8.806E-05	9.598E-05	9.202E-05	90 4.185	-3.724E-07	8.023E-07	2.150E-07
42 1.090	6.088E-05	6.786E-05	6.437E-05	91 4.275	-4.674E-07	7.624E-07	1.475E-07
43 1.130	4.388E-05	5.023E-05	4.705E-05	92 4.365	-5.918E-07	6.047E-07	6.479E-09
44 1.170	3.920E-05	4.517E-05	4.219E-05	93 4.455	-7.237E-07	3.605E-07	-1.816E-07
45 1.210	3.363E-05	3.914E-05	3.638E-05	94 4.550	-8.306E-07	2.189E-07	-3.059E-07
46 1.250	3.384E-05	4.107E-05	3.745E-05	95 4.650	-7.402E-07	3.460E-07	-1.971E-07
47 1.295	2.840E-05	3.340E-05	3.090E-05	96 4.750	-3.710E-07	5.066E-07	6.784E-08
48 1.345	2.922E-05	3.507E-05	3.214E-05	97 4.850	4.595E-08	6.263E-07	3.361E-07
49 1.395	5.426E-05	6.095E-05	5.761E-05	98 4.950	2.293E-07	6.771E-07	4.532E-07



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3750 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.867E-03	2.431E-03	2.149E-03	50	1.445	6.731E-05	7.392E-05	7.061E-05
2	0.111	1.090E-03	1.820E-03	1.455E-03	51	1.495	5.060E-05	5.625E-05	5.342E-05
3	0.117	1.329E-04	8.738E-04	5.033E-04	52	1.545	2.623E-05	3.073E-05	2.848E-05
4	0.125	-1.744E-04	2.362E-04	3.090E-05	53	1.595	1.369E-05	1.788E-05	1.578E-05
5	0.135	9.165E-05	2.992E-04	1.954E-04	54	1.645	1.158E-05	1.553E-05	1.356E-05
6	0.145	4.740E-05	3.957E-04	2.216E-04	55	1.695	1.409E-05	1.818E-05	1.614E-05
7	0.155	6.827E-05	2.280E-04	1.482E-04	56	1.745	1.318E-05	1.724E-05	1.521E-05
8	0.165	1.610E-04	2.106E-04	1.858E-04	57	1.800	1.464E-05	1.874E-05	1.669E-05
9	0.175	1.639E-04	2.515E-04	2.077E-04	58	1.860	7.299E-06	1.119E-05	9.243E-06
10	0.185	1.689E-04	2.055E-04	1.872E-04	59	1.920	9.665E-06	1.351E-05	1.159E-05
11	0.200	2.011E-04	2.206E-04	2.108E-04	60	1.980	7.175E-06	1.076E-05	8.969E-06
12	0.220	1.737E-04	1.921E-04	1.829E-04	61	2.040	7.557E-06	1.113E-05	9.342E-06
13	0.240	1.262E-04	1.411E-04	1.337E-04	62	2.100	6.562E-06	1.021E-05	8.385E-06
14	0.260	1.278E-04	1.407E-04	1.342E-04	63	2.160	5.716E-06	9.408E-06	7.562E-06
15	0.280	1.953E-04	2.082E-04	2.018E-04	64	2.220	9.949E-06	1.355E-05	1.175E-05
16	0.300	2.503E-04	2.631E-04	2.567E-04	65	2.280	1.143E-05	1.505E-05	1.324E-05
17	0.320	2.160E-04	2.282E-04	2.221E-04	66	2.340	5.274E-06	8.512E-06	6.893E-06
18	0.340	1.319E-04	1.429E-04	1.374E-04	67	2.405	4.196E-06	7.320E-06	5.758E-06
19	0.360	8.767E-05	9.794E-05	9.281E-05	68	2.475	5.231E-06	8.235E-06	6.733E-06
20	0.380	6.906E-05	7.896E-05	7.401E-05	69	2.545	3.355E-06	6.171E-06	4.763E-06
21	0.400	7.380E-05	8.417E-05	7.898E-05	70	2.615	6.029E-06	9.065E-06	7.547E-06
22	0.420	9.883E-05	1.094E-04	1.041E-04	71	2.685	7.112E-06	1.011E-05	8.609E-06
23	0.445	1.450E-04	1.557E-04	1.503E-04	72	2.755	2.976E-06	5.279E-06	4.128E-06
24	0.475	1.369E-04	1.471E-04	1.420E-04	73	2.825	2.173E-06	4.426E-06	3.299E-06
25	0.505	7.248E-05	8.163E-05	7.706E-05	74	2.895	7.917E-07	2.781E-06	1.786E-06
26	0.535	8.876E-05	9.778E-05	9.327E-05	75	2.965	-7.884E-07	9.878E-07	9.971E-08
27	0.565	8.557E-05	9.451E-05	9.004E-05	76	3.035	-5.287E-07	1.063E-06	2.670E-07
28	0.595	6.797E-05	7.644E-05	7.220E-05	77	3.110	-8.090E-08	1.735E-06	8.268E-07
29	0.625	7.833E-05	8.704E-05	8.269E-05	78	3.190	5.426E-08	1.749E-06	9.018E-07
30	0.655	8.538E-05	9.388E-05	8.963E-05	79	3.270	3.442E-07	2.006E-06	1.175E-06
31	0.685	6.296E-05	7.093E-05	6.694E-05	80	3.350	-1.616E-07	1.401E-06	6.198E-07
32	0.715	5.160E-05	5.930E-05	5.545E-05	81	3.430	-2.292E-08	1.378E-06	6.775E-07
33	0.745	7.734E-05	8.550E-05	8.142E-05	82	3.510	3.614E-07	1.566E-06	9.637E-07
34	0.775	8.311E-05	9.127E-05	8.719E-05	83	3.590	5.832E-07	1.861E-06	1.222E-06
35	0.810	7.735E-05	8.591E-05	8.163E-05	84	3.670	2.284E-07	1.393E-06	8.107E-07
36	0.850	1.431E-04	1.526E-04	1.479E-04	85	3.750	-1.627E-07	8.862E-07	3.617E-07
37	0.890	1.854E-04	1.953E-04	1.904E-04	86	3.830	-3.465E-07	6.528E-07	1.532E-07
38	0.930	1.458E-04	1.548E-04	1.503E-04	87	3.915	-3.267E-07	6.258E-07	1.496E-07
39	0.970	9.565E-05	1.035E-04	9.959E-05	88	4.005	-2.140E-07	7.601E-07	2.730E-07
40	1.010	7.188E-05	7.940E-05	7.564E-05	89	4.095	-1.070E-07	8.701E-07	3.815E-07
41	1.050	6.868E-05	7.589E-05	7.228E-05	90	4.185	-6.853E-08	9.002E-07	4.158E-07
42	1.090	4.657E-05	5.295E-05	4.976E-05	91	4.275	-1.283E-07	8.210E-07	3.464E-07
43	1.130	3.832E-05	4.423E-05	4.127E-05	92	4.365	-2.130E-07	6.774E-07	2.322E-07
44	1.170	3.391E-05	3.942E-05	3.666E-05	93	4.455	-4.485E-07	3.646E-07	-4.198E-08
45	1.210	2.199E-05	2.693E-05	2.446E-05	94	4.550	-8.139E-07	8.771E-08	-3.631E-07
46	1.250	2.072E-05	2.730E-05	2.401E-05	95	4.650	-8.797E-07	7.317E-08	-4.033E-07
47	1.295	2.736E-05	3.205E-05	2.970E-05	96	4.750	-5.440E-07	1.976E-07	-1.732E-07
48	1.345	1.992E-05	2.519E-05	2.255E-05	97	4.850	-2.747E-08	3.875E-07	1.800E-07
49	1.395	4.288E-05	4.906E-05	4.597E-05	98	4.950	2.275E-07	6.009E-07	4.142E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 4350 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.370E-03	1.916E-03	1.643E-03	50	1.445	5.611E-05	6.142E-05	5.876E-05
2	0.111	8.218E-04	1.549E-03	1.185E-03	51	1.495	4.325E-05	4.775E-05	4.550E-05
3	0.117	1.334E-04	8.511E-04	4.922E-04	52	1.545	1.924E-05	2.273E-05	2.098E-05
4	0.125	-8.988E-05	3.145E-04	1.123E-04	53	1.595	1.177E-05	1.506E-05	1.341E-05
5	0.135	9.767E-05	2.705E-04	1.841E-04	54	1.645	1.048E-05	1.364E-05	1.206E-05
6	0.145	1.914E-05	3.155E-04	1.673E-04	55	1.695	1.034E-05	1.339E-05	1.186E-05
7	0.155	5.448E-05	1.896E-04	1.220E-04	56	1.745	1.012E-05	1.331E-05	1.172E-05
8	0.165	1.381E-04	1.774E-04	1.577E-04	57	1.800	1.089E-05	1.404E-05	1.246E-05
9	0.175	1.301E-04	2.009E-04	1.655E-04	58	1.860	9.540E-06	1.266E-05	1.110E-05
10	0.185	1.345E-04	1.639E-04	1.492E-04	59	1.920	6.631E-06	9.597E-06	8.114E-06
11	0.200	1.527E-04	1.681E-04	1.604E-04	60	1.980	3.109E-06	5.771E-06	4.440E-06
12	0.220	1.481E-04	1.627E-04	1.554E-04	61	2.040	3.680E-06	6.433E-06	5.057E-06
13	0.240	1.098E-04	1.215E-04	1.156E-04	62	2.100	4.431E-06	7.242E-06	5.837E-06
14	0.260	1.054E-04	1.155E-04	1.104E-04	63	2.160	2.984E-06	5.750E-06	4.367E-06
15	0.280	1.551E-04	1.651E-04	1.601E-04	64	2.220	7.373E-06	1.023E-05	8.804E-06
16	0.300	1.828E-04	1.926E-04	1.877E-04	65	2.280	9.689E-06	1.259E-05	1.114E-05
17	0.320	1.485E-04	1.576E-04	1.530E-04	66	2.340	5.600E-06	8.203E-06	6.902E-06
18	0.340	8.988E-05	9.816E-05	9.402E-05	67	2.405	4.188E-06	6.732E-06	5.460E-06
19	0.360	6.205E-05	6.996E-05	6.601E-05	68	2.475	5.108E-06	7.624E-06	6.366E-06
20	0.380	5.357E-05	6.129E-05	5.743E-05	69	2.545	4.127E-06	6.603E-06	5.365E-06
21	0.400	5.839E-05	6.652E-05	6.245E-05	70	2.615	5.408E-06	7.759E-06	6.583E-06
22	0.420	7.563E-05	8.386E-05	7.975E-05	71	2.685	5.850E-06	8.224E-06	7.037E-06
23	0.445	1.177E-04	1.261E-04	1.219E-04	72	2.755	2.141E-06	3.947E-06	3.044E-06
24	0.475	1.139E-04	1.219E-04	1.179E-04	73	2.825	-3.487E-07	1.076E-06	3.638E-07
25	0.505	5.757E-05	6.476E-05	6.116E-05	74	2.895	-1.619E-07	1.480E-06	6.588E-07
26	0.535	6.883E-05	7.591E-05	7.237E-05	75	2.965	9.010E-07	2.505E-06	1.703E-06
27	0.565	7.648E-05	8.362E-05	8.005E-05	76	3.035	3.010E-07	1.791E-06	1.046E-06
28	0.595	5.512E-05	6.181E-05	5.846E-05	77	3.110	-4.213E-07	8.879E-07	2.333E-07
29	0.625	6.279E-05	6.966E-05	6.623E-05	78	3.190	-2.305E-07	1.042E-06	4.059E-07
30	0.655	7.508E-05	8.185E-05	7.847E-05	79	3.270	4.963E-08	1.214E-06	6.320E-07
31	0.685	5.089E-05	5.713E-05	5.401E-05	80	3.350	5.341E-07	1.699E-06	1.116E-06
32	0.715	4.052E-05	4.652E-05	4.352E-05	81	3.430	2.798E-07	1.331E-06	8.053E-07
33	0.745	6.039E-05	6.674E-05	6.357E-05	82	3.510	1.072E-07	1.041E-06	5.739E-07
34	0.775	6.540E-05	7.181E-05	6.861E-05	83	3.590	1.853E-07	1.075E-06	6.301E-07
35	0.810	6.544E-05	7.228E-05	6.886E-05	84	3.670	1.457E-07	9.849E-07	5.653E-07
36	0.850	1.292E-04	1.368E-04	1.330E-04	85	3.750	4.127E-08	8.513E-07	4.463E-07
37	0.890	1.631E-04	1.710E-04	1.671E-04	86	3.830	-1.376E-07	7.283E-07	2.953E-07
38	0.930	1.189E-04	1.258E-04	1.223E-04	87	3.915	-3.893E-08	8.153E-07	3.882E-07
39	0.970	7.069E-05	7.672E-05	7.371E-05	88	4.005	9.553E-08	1.023E-06	5.592E-07
40	1.010	5.123E-05	5.701E-05	5.412E-05	89	4.095	-1.117E-07	9.330E-07	4.107E-07
41	1.050	5.376E-05	5.941E-05	5.658E-05	90	4.185	-4.202E-07	6.566E-07	1.182E-07
42	1.090	4.046E-05	4.558E-05	4.302E-05	91	4.275	-7.331E-07	3.398E-07	-1.967E-07
43	1.130	3.372E-05	3.842E-05	3.607E-05	92	4.365	-1.005E-06	1.742E-08	-4.936E-07
44	1.170	2.775E-05	3.210E-05	2.992E-05	93	4.455	-1.138E-06	-4.208E-08	-5.902E-07
45	1.210	1.911E-05	2.300E-05	2.105E-05	94	4.550	-9.567E-07	1.653E-07	-3.957E-07
46	1.250	1.548E-05	2.050E-05	1.799E-05	95	4.650	-5.449E-07	4.327E-07	-5.607E-08
47	1.295	1.663E-05	2.016E-05	1.840E-05	96	4.750	-7.889E-08	6.531E-07	2.871E-07
48	1.345	1.672E-05	2.094E-05	1.883E-05	97	4.850	1.647E-07	8.109E-07	4.878E-07
49	1.395	3.269E-05	3.754E-05	3.511E-05	98	4.950	1.957E-07	6.966E-07	4.461E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5150 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	9.709E-04	1.484E-03	1.228E-03	50	1.445	4.571E-05	5.063E-05	4.817E-05
2	0.111	6.255E-04	1.324E-03	9.750E-04	51	1.495	3.395E-05	3.811E-05	3.603E-05
3	0.117	1.528E-04	8.288E-04	4.908E-04	52	1.545	1.501E-05	1.817E-05	1.659E-05
4	0.125	-2.918E-05	3.565E-04	1.636E-04	53	1.595	7.960E-06	1.086E-05	9.408E-06
5	0.135	9.278E-05	2.344E-04	1.636E-04	54	1.645	6.396E-06	9.135E-06	7.765E-06
6	0.145	1.301E-05	2.606E-04	1.368E-04	55	1.695	6.479E-06	9.282E-06	7.880E-06
7	0.155	2.997E-05	1.415E-04	8.574E-05	56	1.745	9.615E-06	1.260E-05	1.111E-05
8	0.165	9.641E-05	1.322E-04	1.143E-04	57	1.800	9.624E-06	1.251E-05	1.107E-05
9	0.175	1.013E-04	1.637E-04	1.325E-04	58	1.860	8.376E-06	1.122E-05	9.796E-06
10	0.185	9.748E-05	1.236E-04	1.105E-04	59	1.920	6.183E-06	8.881E-06	7.532E-06
11	0.200	1.205E-04	1.346E-04	1.276E-04	60	1.980	2.224E-06	4.604E-06	3.414E-06
12	0.220	1.238E-04	1.373E-04	1.305E-04	61	2.040	3.261E-06	5.776E-06	4.518E-06
13	0.240	9.609E-05	1.070E-04	1.016E-04	62	2.100	3.488E-06	5.991E-06	4.739E-06
14	0.260	9.218E-05	1.016E-04	9.689E-05	63	2.160	4.025E-06	6.578E-06	5.301E-06
15	0.280	1.305E-04	1.396E-04	1.351E-04	64	2.220	7.043E-06	9.590E-06	8.316E-06
16	0.300	1.366E-04	1.454E-04	1.410E-04	65	2.280	6.286E-06	8.746E-06	7.516E-06
17	0.320	1.069E-04	1.150E-04	1.109E-04	66	2.340	2.296E-06	4.400E-06	3.348E-06
18	0.340	6.511E-05	7.252E-05	6.882E-05	67	2.405	4.151E-06	6.508E-06	5.329E-06
19	0.360	4.028E-05	4.734E-05	4.381E-05	68	2.475	4.330E-06	6.457E-06	5.393E-06
20	0.380	3.400E-05	4.092E-05	3.746E-05	69	2.545	3.473E-06	5.528E-06	4.501E-06
21	0.400	4.352E-05	5.091E-05	4.722E-05	70	2.615	3.465E-06	5.522E-06	4.494E-06
22	0.420	5.629E-05	6.377E-05	6.003E-05	71	2.685	2.217E-06	4.047E-06	3.132E-06
23	0.445	9.065E-05	9.833E-05	9.449E-05	72	2.755	1.849E-06	3.471E-06	2.660E-06
24	0.475	8.615E-05	9.342E-05	8.978E-05	73	2.825	2.914E-07	1.553E-06	9.224E-07
25	0.505	4.419E-05	5.079E-05	4.749E-05	74	2.895	-2.733E-07	1.100E-06	4.134E-07
26	0.535	5.592E-05	6.245E-05	5.918E-05	75	2.965	-3.549E-07	8.456E-07	2.453E-07
27	0.565	5.792E-05	6.445E-05	6.118E-05	76	3.035	-1.351E-07	1.114E-06	4.892E-07
28	0.595	4.507E-05	5.126E-05	4.817E-05	77	3.110	-1.527E-07	9.614E-07	4.044E-07
29	0.625	5.571E-05	6.215E-05	5.893E-05	78	3.190	-4.363E-07	6.937E-07	1.287E-07
30	0.655	6.630E-05	7.262E-05	6.946E-05	79	3.270	-3.585E-07	7.520E-07	1.967E-07
31	0.685	4.119E-05	4.698E-05	4.409E-05	80	3.350	1.413E-08	1.070E-06	5.420E-07
32	0.715	3.577E-05	4.139E-05	3.858E-05	81	3.430	3.209E-07	1.352E-06	8.366E-07
33	0.745	5.879E-05	6.483E-05	6.181E-05	82	3.510	3.484E-07	1.246E-06	7.972E-07
34	0.775	5.984E-05	6.580E-05	6.282E-05	83	3.590	3.138E-07	1.190E-06	7.517E-07
35	0.810	4.818E-05	5.441E-05	5.129E-05	84	3.670	9.207E-08	8.407E-07	4.664E-07
36	0.850	1.121E-04	1.192E-04	1.157E-04	85	3.750	-1.404E-07	5.737E-07	2.166E-07
37	0.890	1.455E-04	1.529E-04	1.492E-04	86	3.830	-2.550E-07	5.331E-07	1.390E-07
38	0.930	1.021E-04	1.086E-04	1.053E-04	87	3.915	-2.601E-07	4.711E-07	1.055E-07
39	0.970	5.605E-05	6.154E-05	5.880E-05	88	4.005	-2.019E-07	4.934E-07	1.458E-07
40	1.010	4.432E-05	4.968E-05	4.700E-05	89	4.095	-2.055E-07	5.112E-07	1.529E-07
41	1.050	3.983E-05	4.490E-05	4.237E-05	90	4.185	-2.303E-07	5.090E-07	1.393E-07
42	1.090	3.061E-05	3.527E-05	3.294E-05	91	4.275	-2.485E-07	5.101E-07	1.308E-07
43	1.130	2.581E-05	3.009E-05	2.795E-05	92	4.365	-3.649E-07	3.631E-07	-8.811E-10
44	1.170	2.106E-05	2.502E-05	2.304E-05	93	4.455	-5.400E-07	1.349E-07	-2.026E-07
45	1.210	1.531E-05	1.887E-05	1.709E-05	94	4.550	-5.966E-07	6.994E-08	-2.633E-07
46	1.250	1.161E-05	1.614E-05	1.387E-05	95	4.650	-4.430E-07	1.673E-07	-1.378E-07
47	1.295	1.013E-05	1.330E-05	1.172E-05	96	4.750	-1.713E-07	3.166E-07	7.266E-08
48	1.345	1.434E-05	1.827E-05	1.631E-05	97	4.850	7.205E-08	4.386E-07	2.553E-07
49	1.395	2.847E-05	3.301E-05	3.074E-05	98	4.950	1.683E-07	4.482E-07	3.083E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.938E-04	1.152E-03	9.231E-04	50	1.445	3.844E-05	4.253E-05	4.049E-05
2	0.111	4.569E-04	1.089E-03	7.729E-04	51	1.495	2.575E-05	2.911E-05	2.743E-05
3	0.117	1.370E-04	7.406E-04	4.388E-04	52	1.545	1.234E-05	1.496E-05	1.365E-05
4	0.125	2.913E-05	3.766E-04	2.029E-04	53	1.595	6.652E-06	9.028E-06	7.840E-06
5	0.135	1.012E-04	2.139E-04	1.576E-04	54	1.645	5.545E-06	7.802E-06	6.673E-06
6	0.145	-1.253E-05	1.898E-04	8.866E-05	55	1.695	7.083E-06	9.387E-06	8.235E-06
7	0.155	2.351E-05	1.130E-04	6.825E-05	56	1.745	6.673E-06	8.978E-06	7.825E-06
8	0.165	8.010E-05	1.096E-04	9.483E-05	57	1.800	6.658E-06	9.002E-06	7.830E-06
9	0.175	6.731E-05	1.182E-04	9.275E-05	58	1.860	6.721E-06	9.027E-06	7.874E-06
10	0.185	7.778E-05	9.907E-05	8.843E-05	59	1.920	4.797E-06	6.943E-06	5.870E-06
11	0.200	9.426E-05	1.059E-04	1.001E-04	60	1.980	2.697E-06	4.703E-06	3.700E-06
12	0.220	1.132E-04	1.245E-04	1.188E-04	61	2.040	2.108E-06	4.115E-06	3.111E-06
13	0.240	8.561E-05	9.462E-05	9.012E-05	62	2.100	2.556E-06	4.607E-06	3.581E-06
14	0.260	7.800E-05	8.571E-05	8.186E-05	63	2.160	2.540E-06	4.533E-06	3.537E-06
15	0.280	1.075E-04	1.149E-04	1.112E-04	64	2.220	4.367E-06	6.382E-06	5.374E-06
16	0.300	1.016E-04	1.086E-04	1.051E-04	65	2.280	4.598E-06	6.608E-06	5.603E-06
17	0.320	7.160E-05	7.799E-05	7.479E-05	66	2.340	3.710E-06	5.577E-06	4.643E-06
18	0.340	4.708E-05	5.303E-05	5.005E-05	67	2.405	2.134E-06	3.888E-06	3.011E-06
19	0.360	2.986E-05	3.560E-05	3.273E-05	68	2.475	2.120E-06	3.833E-06	2.977E-06
20	0.380	2.630E-05	3.194E-05	2.912E-05	69	2.545	3.496E-06	5.304E-06	4.400E-06
21	0.400	3.367E-05	3.972E-05	3.669E-05	70	2.615	2.845E-06	4.506E-06	3.675E-06
22	0.420	4.608E-05	5.218E-05	4.913E-05	71	2.685	1.738E-06	3.257E-06	2.498E-06
23	0.445	6.893E-05	7.512E-05	7.203E-05	72	2.755	1.180E-06	2.465E-06	1.822E-06
24	0.475	6.515E-05	7.102E-05	6.808E-05	73	2.825	2.760E-07	1.328E-06	8.018E-07
25	0.505	3.226E-05	3.766E-05	3.496E-05	74	2.895	-3.266E-07	6.997E-07	1.866E-07
26	0.535	4.793E-05	5.334E-05	5.064E-05	75	2.965	3.609E-07	1.398E-06	8.795E-07
27	0.565	4.922E-05	5.463E-05	5.192E-05	76	3.035	7.437E-07	1.768E-06	1.256E-06
28	0.595	3.573E-05	4.082E-05	3.828E-05	77	3.110	4.282E-07	1.354E-06	8.912E-07
29	0.625	4.498E-05	5.026E-05	4.762E-05	78	3.190	-1.048E-08	8.007E-07	3.951E-07
30	0.655	4.945E-05	5.460E-05	5.202E-05	79	3.270	-1.540E-07	6.194E-07	2.327E-07
31	0.685	3.257E-05	3.730E-05	3.493E-05	80	3.350	-7.544E-08	6.691E-07	2.968E-07
32	0.715	2.644E-05	3.103E-05	2.873E-05	81	3.430	4.934E-08	7.855E-07	4.174E-07
33	0.745	4.500E-05	4.989E-05	4.745E-05	82	3.510	-8.092E-08	5.760E-07	2.476E-07
34	0.775	4.762E-05	5.254E-05	5.008E-05	83	3.590	-2.292E-07	3.744E-07	7.260E-08
35	0.810	3.979E-05	4.498E-05	4.238E-05	84	3.670	-2.275E-07	3.576E-07	6.504E-08
36	0.850	1.016E-04	1.076E-04	1.046E-04	85	3.750	-1.960E-07	3.262E-07	6.509E-08
37	0.890	1.356E-04	1.419E-04	1.388E-04	86	3.830	-1.863E-07	3.000E-07	5.683E-08
38	0.930	8.501E-05	9.031E-05	8.766E-05	87	3.915	-1.271E-07	3.758E-07	1.244E-07
39	0.970	4.332E-05	4.778E-05	4.555E-05	88	4.005	-2.103E-08	5.074E-07	2.432E-07
40	1.010	3.309E-05	3.748E-05	3.529E-05	89	4.095	5.813E-08	5.247E-07	2.914E-07
41	1.050	3.446E-05	3.871E-05	3.659E-05	90	4.185	-7.806E-09	4.589E-07	2.255E-07
42	1.090	2.402E-05	2.785E-05	2.594E-05	91	4.275	-1.153E-07	3.180E-07	1.014E-07
43	1.130	2.124E-05	2.481E-05	2.302E-05	92	4.365	-2.078E-07	2.157E-07	3.934E-09
44	1.170	1.883E-05	2.214E-05	2.049E-05	93	4.455	-2.874E-07	9.011E-08	-9.863E-08
45	1.210	1.141E-05	1.433E-05	1.287E-05	94	4.550	-3.701E-07	1.418E-08	-1.779E-07
46	1.250	9.951E-06	1.377E-05	1.186E-05	95	4.650	-3.489E-07	8.360E-08	-1.326E-07
47	1.295	1.042E-05	1.312E-05	1.177E-05	96	4.750	-1.929E-07	1.669E-07	-1.298E-08
48	1.345	1.104E-05	1.431E-05	1.267E-05	97	4.850	-1.014E-09	2.199E-07	1.094E-07
49	1.395	2.847E-05	3.240E-05	3.043E-05	98	4.950	8.758E-08	2.598E-07	1.737E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>238</sup>U BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 6950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.958E-04	9.070E-04	7.014E-04	50	1.445	2.818E-05	3.195E-05	3.006E-05
2	0.111	3.636E-04	9.266E-04	6.451E-04	51	1.495	2.016E-05	2.333E-05	2.174E-05
3	0.117	1.540E-04	6.963E-04	4.251E-04	52	1.545	8.356E-06	1.074E-05	9.550E-06
4	0.125	7.397E-05	3.881E-04	2.310E-04	53	1.595	4.446E-06	6.586E-06	5.516E-06
5	0.135	9.849E-05	1.897E-04	1.441E-04	54	1.645	2.926E-06	4.933E-06	3.930E-06
6	0.145	-2.242E-05	1.533E-04	6.544E-05	55	1.695	4.112E-06	6.202E-06	5.157E-06
7	0.155	9.162E-06	8.392E-05	4.654E-05	56	1.745	4.575E-06	6.763E-06	5.669E-06
8	0.165	5.429E-05	8.138E-05	6.784E-05	57	1.800	7.586E-06	9.858E-06	8.722E-06
9	0.175	4.663E-05	9.164E-05	6.914E-05	58	1.860	6.510E-06	8.686E-06	7.598E-06
10	0.185	5.948E-05	7.849E-05	6.898E-05	59	1.920	3.139E-06	5.143E-06	4.141E-06
11	0.200	7.936E-05	9.027E-05	8.481E-05	60	1.980	2.406E-06	4.277E-06	3.341E-06
12	0.220	1.009E-04	1.116E-04	1.062E-04	61	2.040	1.807E-06	3.720E-06	2.764E-06
13	0.240	7.673E-05	8.526E-05	8.100E-05	62	2.100	1.173E-06	3.016E-06	2.094E-06
14	0.260	6.952E-05	7.677E-05	7.315E-05	63	2.160	2.169E-06	4.116E-06	3.143E-06
15	0.280	9.243E-05	9.933E-05	9.588E-05	64	2.220	3.377E-06	5.244E-06	4.311E-06
16	0.300	8.036E-05	8.670E-05	8.353E-05	65	2.280	1.843E-06	3.616E-06	2.729E-06
17	0.320	5.254E-05	5.833E-05	5.543E-05	66	2.340	9.883E-07	2.685E-06	1.837E-06
18	0.340	3.704E-05	4.250E-05	3.977E-05	67	2.405	2.769E-06	4.600E-06	3.684E-06
19	0.360	2.178E-05	2.705E-05	2.441E-05	68	2.475	2.011E-06	3.641E-06	2.826E-06
20	0.380	1.733E-05	2.250E-05	1.992E-05	69	2.545	2.881E-06	4.610E-06	3.746E-06
21	0.400	2.518E-05	3.072E-05	2.795E-05	70	2.615	2.966E-06	4.636E-06	3.801E-06
22	0.420	3.714E-05	4.273E-05	3.993E-05	71	2.685	2.535E-06	4.162E-06	3.349E-06
23	0.445	4.909E-05	5.469E-05	5.189E-05	72	2.755	1.289E-06	2.624E-06	1.957E-06
24	0.475	4.667E-05	5.203E-05	4.935E-05	73	2.825	2.226E-07	1.419E-06	8.206E-07
25	0.505	3.116E-05	3.624E-05	3.370E-05	74	2.895	1.366E-07	1.238E-06	6.874E-07
26	0.535	3.889E-05	4.392E-05	4.141E-05	75	2.965	2.653E-08	1.078E-06	5.521E-07
27	0.565	4.108E-05	4.612E-05	4.360E-05	76	3.035	-4.126E-07	5.204E-07	5.390E-08
28	0.595	3.179E-05	3.657E-05	3.418E-05	77	3.110	-5.716E-07	4.490E-07	-6.130E-08
29	0.625	3.938E-05	4.433E-05	4.185E-05	78	3.190	-5.625E-07	4.909E-07	-3.578E-08
30	0.655	4.279E-05	4.761E-05	4.520E-05	79	3.270	-1.495E-07	9.433E-07	3.969E-07
31	0.685	3.239E-05	3.688E-05	3.464E-05	80	3.350	1.019E-07	1.123E-06	6.125E-07
32	0.715	2.369E-05	2.796E-05	2.583E-05	81	3.430	-1.699E-07	6.654E-07	2.477E-07
33	0.745	3.361E-05	3.805E-05	3.583E-05	82	3.510	-1.548E-07	6.272E-07	2.362E-07
34	0.775	3.582E-05	4.032E-05	3.807E-05	83	3.590	-6.032E-08	7.329E-07	3.363E-07
35	0.810	3.278E-05	3.760E-05	3.519E-05	84	3.670	-1.144E-07	9.062E-07	3.959E-07
36	0.850	8.626E-05	9.189E-05	8.908E-05	85	3.750	-9.946E-08	8.646E-07	3.826E-07
37	0.890	1.130E-04	1.188E-04	1.159E-04	86	3.830	-2.417E-07	5.383E-07	1.483E-07
38	0.930	7.252E-05	7.747E-05	7.499E-05	87	3.915	-4.055E-07	3.088E-07	-4.835E-08
39	0.970	3.638E-05	4.051E-05	3.844E-05	88	4.005	-3.743E-07	3.328E-07	-2.073E-08
40	1.010	2.680E-05	3.085E-05	2.882E-05	89	4.095	-1.900E-07	5.108E-07	1.604E-07
41	1.050	2.378E-05	2.762E-05	2.570E-05	90	4.185	-9.414E-08	7.039E-07	3.049E-07
42	1.090	1.965E-05	2.324E-05	2.144E-05	91	4.275	-1.201E-07	7.271E-07	3.035E-07
43	1.130	1.968E-05	2.304E-05	2.136E-05	92	4.365	-2.357E-07	5.262E-07	1.452E-07
44	1.170	1.628E-05	1.938E-05	1.783E-05	93	4.455	-4.245E-07	2.003E-07	-1.121E-07
45	1.210	9.018E-06	1.172E-05	1.037E-05	94	4.550	-6.434E-07	2.562E-08	-3.089E-07
46	1.250	9.227E-06	1.280E-05	1.101E-05	95	4.650	-6.510E-07	1.249E-07	-2.631E-07
47	1.295	8.397E-06	1.089E-05	9.644E-06	96	4.750	-3.719E-07	2.476E-07	-6.217E-08
48	1.345	9.303E-06	1.236E-05	1.083E-05	97	4.850	-1.035E-08	3.520E-07	1.708E-07
49	1.395	2.169E-05	2.531E-05	2.350E-05	98	4.950	1.614E-07	4.559E-07	3.086E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 7950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.642E-04	7.060E-04	5.351E-04	50	1.445	2.117E-05	2.365E-05	2.241E-05
2	0.111	3.005E-04	7.573E-04	5.289E-04	51	1.495	1.310E-05	1.512E-05	1.411E-05
3	0.117	1.721E-04	6.212E-04	3.966E-04	52	1.545	5.303E-06	6.822E-06	6.062E-06
4	0.125	1.182E-04	3.827E-04	2.505E-04	53	1.595	3.423E-06	4.837E-06	4.130E-06
5	0.135	9.998E-05	1.636E-04	1.318E-04	54	1.645	3.314E-06	4.627E-06	3.970E-06
6	0.145	-2.634E-05	1.094E-04	4.154E-05	55	1.695	3.626E-06	4.943E-06	4.285E-06
7	0.155	-5.938E-07	5.659E-05	2.800E-05	56	1.745	3.876E-06	5.242E-06	4.559E-06
8	0.165	3.906E-05	5.690E-05	4.798E-05	57	1.800	5.666E-06	7.083E-06	6.375E-06
9	0.175	3.286E-05	6.322E-05	4.804E-05	58	1.860	5.303E-06	6.692E-06	5.997E-06
10	0.185	4.070E-05	5.342E-05	4.706E-05	59	1.920	1.928E-06	3.158E-06	2.543E-06
11	0.200	5.914E-05	6.631E-05	6.273E-05	60	1.980	8.560E-07	2.019E-06	1.438E-06
12	0.220	8.901E-05	9.612E-05	9.256E-05	61	2.040	8.792E-07	2.082E-06	1.481E-06
13	0.240	7.533E-05	8.101E-05	7.817E-05	62	2.100	1.513E-06	2.743E-06	2.128E-06
14	0.260	6.809E-05	7.289E-05	7.049E-05	63	2.160	1.714E-06	2.950E-06	2.332E-06
15	0.280	8.287E-05	8.736E-05	8.512E-05	64	2.220	1.606E-06	2.758E-06	2.182E-06
16	0.300	6.383E-05	6.786E-05	6.585E-05	65	2.280	1.610E-06	2.749E-06	2.180E-06
17	0.320	3.795E-05	4.160E-05	3.977E-05	66	2.340	1.202E-06	2.335E-06	1.769E-06
18	0.340	2.723E-05	3.070E-05	2.897E-05	67	2.405	2.582E-06	3.788E-06	3.185E-06
19	0.360	1.682E-05	2.019E-05	1.850E-05	68	2.475	2.946E-06	4.083E-06	3.515E-06
20	0.380	1.341E-05	1.671E-05	1.506E-05	69	2.545	2.101E-06	3.224E-06	2.663E-06
21	0.400	1.913E-05	2.266E-05	2.090E-05	70	2.615	2.382E-06	3.496E-06	2.939E-06
22	0.420	2.903E-05	3.256E-05	3.080E-05	71	2.685	1.518E-06	2.512E-06	2.015E-06
23	0.445	3.394E-05	3.743E-05	3.568E-05	72	2.755	5.313E-07	1.339E-06	9.349E-07
24	0.475	3.167E-05	3.503E-05	3.335E-05	73	2.825	1.865E-07	9.515E-07	5.690E-07
25	0.505	2.172E-05	2.496E-05	2.334E-05	74	2.895	-2.799E-07	5.007E-07	1.104E-07
26	0.535	3.314E-05	3.639E-05	3.476E-05	75	2.965	5.816E-09	7.194E-07	3.626E-07
27	0.565	3.277E-05	3.600E-05	3.439E-05	76	3.035	1.668E-07	9.101E-07	5.385E-07
28	0.595	2.498E-05	2.804E-05	2.651E-05	77	3.110	-1.978E-07	4.973E-07	1.498E-07
29	0.625	3.099E-05	3.417E-05	3.258E-05	78	3.190	-5.025E-07	1.949E-07	-1.538E-07
30	0.655	3.695E-05	4.008E-05	3.852E-05	79	3.270	-4.817E-07	1.752E-07	-1.533E-07
31	0.685	2.529E-05	2.817E-05	2.673E-05	80	3.350	-2.967E-07	4.943E-07	9.881E-08
32	0.715	1.939E-05	2.215E-05	2.077E-05	81	3.430	-1.309E-07	6.102E-07	2.397E-07
33	0.745	2.894E-05	3.183E-05	3.038E-05	82	3.510	-1.432E-07	4.791E-07	1.680E-07
34	0.775	2.802E-05	3.088E-05	2.945E-05	83	3.590	-8.404E-08	5.110E-07	2.135E-07
35	0.810	2.404E-05	2.709E-05	2.556E-05	84	3.670	-1.915E-08	5.560E-07	2.684E-07
36	0.850	6.744E-05	7.101E-05	6.923E-05	85	3.750	-1.032E-07	4.819E-07	1.894E-07
37	0.890	9.128E-05	9.500E-05	9.314E-05	86	3.830	-1.462E-07	4.572E-07	1.555E-07
38	0.930	5.965E-05	6.284E-05	6.125E-05	87	3.915	-1.667E-07	5.098E-07	1.715E-07
39	0.970	2.773E-05	3.036E-05	2.904E-05	88	4.005	-1.703E-07	5.844E-07	2.070E-07
40	1.010	1.826E-05	2.085E-05	1.955E-05	89	4.095	-8.295E-08	5.798E-07	2.484E-07
41	1.050	1.813E-05	2.062E-05	1.938E-05	90	4.185	-9.821E-08	5.486E-07	2.252E-07
42	1.090	1.684E-05	1.920E-05	1.802E-05	91	4.275	-2.057E-07	4.740E-07	1.341E-07
43	1.130	1.593E-05	1.814E-05	1.703E-05	92	4.365	-3.461E-07	3.467E-07	2.950E-07
44	1.170	1.437E-05	1.641E-05	1.539E-05	93	4.455	-5.005E-07	1.330E-07	-1.838E-07
45	1.210	8.922E-06	1.071E-05	9.815E-06	94	4.550	-6.291E-07	-2.743E-08	-3.282E-07
46	1.250	7.879E-06	1.020E-05	9.039E-06	95	4.650	-5.624E-07	3.875E-08	-2.618E-07
47	1.295	6.507E-06	8.139E-06	7.323E-06	96	4.750	-3.138E-07	2.107E-07	-5.157E-08
48	1.345	8.553E-06	1.060E-05	9.578E-06	97	4.850	-1.784E-09	3.595E-07	1.788E-07
49	1.395	1.777E-05	2.015E-05	1.896E-05	98	4.950	1.929E-07	4.368E-07	3.148E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 9950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.711E-04	5.655E-04	4.183E-04	50	1.445	1.471E-05	1.700E-05	1.586E-05
2	0.111	2.549E-04	6.438E-04	4.494E-04	51	1.495	8.306E-06	1.018E-05	9.243E-06
3	0.117	1.892E-04	5.691E-04	3.792E-04	52	1.545	4.667E-06	6.120E-06	5.394E-06
4	0.125	1.489E-04	3.790E-04	2.640E-04	53	1.595	1.783E-06	3.000E-06	2.392E-06
5	0.135	1.019E-04	1.513E-04	1.266E-04	54	1.645	1.977E-06	3.164E-06	2.570E-06
6	0.145	-2.503E-05	8.402E-05	2.950E-05	55	1.695	3.110E-06	4.312E-06	3.711E-06
7	0.155	-8.974E-06	3.637E-05	1.370E-05	56	1.745	3.455E-06	4.726E-06	4.091E-06
8	0.165	2.337E-05	3.953E-05	3.145E-05	57	1.800	4.502E-06	5.787E-06	5.145E-06
9	0.175	2.050E-05	4.724E-05	3.387E-05	58	1.860	4.357E-06	5.614E-06	4.985E-06
10	0.185	2.630E-05	3.762E-05	3.196E-05	59	1.920	2.309E-06	3.461E-06	2.885E-06
11	0.200	4.242E-05	4.906E-05	4.574E-05	60	1.980	3.931E-07	1.446E-06	9.198E-07
12	0.220	7.768E-05	8.443E-05	8.106E-05	61	2.040	3.780E-07	1.419E-06	8.983E-07
13	0.240	6.961E-05	7.501E-05	7.231E-05	62	2.100	1.093E-06	2.188E-06	1.641E-06
14	0.260	6.105E-05	6.558E-05	6.332E-05	63	2.160	5.538E-07	1.619E-06	1.087E-06
15	0.280	7.439E-05	7.860E-05	7.650E-05	64	2.220	1.059E-06	2.079E-06	1.569E-06
16	0.300	5.377E-05	5.749E-05	5.563E-05	65	2.280	9.620E-07	1.961E-06	1.461E-06
17	0.320	2.892E-05	3.225E-05	3.058E-05	66	2.340	-1.359E-08	9.070E-07	4.467E-07
18	0.340	2.236E-05	2.554E-05	2.395E-05	67	2.405	1.715E-06	2.793E-06	2.254E-06
19	0.360	1.166E-05	1.472E-05	1.319E-05	68	2.475	2.871E-06	3.930E-06	3.400E-06
20	0.380	8.378E-06	1.135E-05	9.865E-06	69	2.545	2.071E-06	3.064E-06	2.568E-06
21	0.400	1.254E-05	1.570E-05	1.412E-05	70	2.615	7.520E-07	1.679E-06	1.216E-06
22	0.420	1.938E-05	2.253E-05	2.096E-05	71	2.685	-1.584E-09	8.410E-07	4.197E-07
23	0.445	2.157E-05	2.466E-05	2.312E-05	72	2.755	-8.210E-08	6.259E-07	2.719E-07
24	0.475	1.855E-05	2.152E-05	2.004E-05	73	2.825	-1.193E-07	4.954E-07	1.880E-07
25	0.505	1.559E-05	1.852E-05	1.706E-05	74	2.895	-2.402E-07	4.506E-07	1.052E-07
26	0.535	2.645E-05	2.941E-05	2.793E-05	75	2.965	2.047E-08	6.353E-07	3.279E-07
27	0.565	2.460E-05	2.751E-05	2.606E-05	76	3.035	-3.297E-08	5.783E-07	2.727E-07
28	0.595	1.845E-05	2.121E-05	1.983E-05	77	3.110	-7.599E-08	5.595E-07	2.417E-07
29	0.625	2.377E-05	2.664E-05	2.520E-05	78	3.190	2.274E-07	8.243E-07	5.259E-07
30	0.655	2.759E-05	3.042E-05	2.900E-05	79	3.270	1.275E-07	6.734E-07	4.005E-07
31	0.685	2.293E-05	2.562E-05	2.427E-05	80	3.350	-7.530E-08	4.674E-07	1.961E-07
32	0.715	1.776E-05	2.033E-05	1.904E-05	81	3.430	-1.220E-07	4.104E-07	1.412E-07
33	0.745	2.427E-05	2.692E-05	2.560E-05	82	3.510	-1.636E-07	3.248E-07	8.060E-08
34	0.775	2.069E-05	2.327E-05	2.198E-05	83	3.590	-1.940E-07	2.754E-07	4.074E-08
35	0.810	1.830E-05	2.103E-05	1.966E-05	84	3.670	-2.104E-07	2.737E-07	3.167E-08
36	0.850	4.717E-05	5.031E-05	4.874E-05	85	3.750	-2.780E-07	2.265E-07	-2.574E-08
37	0.890	6.461E-05	6.787E-05	6.624E-05	86	3.830	-3.103E-07	1.830E-07	-6.365E-08
38	0.930	4.339E-05	4.625E-05	4.482E-05	87	3.915	-2.158E-07	2.770E-07	3.061E-08
39	0.970	2.017E-05	2.257E-05	2.137E-05	88	4.005	-1.359E-07	4.222E-07	1.431E-07
40	1.010	1.291E-05	1.529E-05	1.410E-05	89	4.095	-9.336E-08	4.645E-07	1.856E-07
41	1.050	1.392E-05	1.622E-05	1.507E-05	90	4.185	-9.819E-08	5.111E-07	2.065E-07
42	1.090	1.166E-05	1.384E-05	1.275E-05	91	4.275	-1.734E-07	4.076E-07	1.171E-07
43	1.130	1.246E-05	1.450E-05	1.348E-05	92	4.365	-3.111E-07	1.782E-07	-6.647E-08
44	1.170	1.161E-05	1.352E-05	1.257E-05	93	4.455	-4.401E-07	5.879E-08	-1.906E-07
45	1.210	5.422E-06	7.037E-06	6.229E-06	94	4.550	-4.489E-07	6.419E-08	-1.923E-07
46	1.250	4.237E-06	6.348E-06	5.293E-06	95	4.650	-3.068E-07	1.490E-07	-7.890E-08
47	1.295	4.496E-06	6.006E-06	5.251E-06	96	4.750	-1.005E-07	2.489E-07	7.421E-08
48	1.345	6.477E-06	8.392E-06	7.435E-06	97	4.850	4.687E-08	3.352E-07	1.910E-07
49	1.395	1.478E-05	1.707E-05	1.593E-05	98	4.950	1.017E-07	3.287E-07	2.152E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 11950 SEC

COUNTING TIME : 3000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.360E-04	4.884E-04	3.622E-04	50	1.445	1.065E-05	1.249E-05	1.157E-05
2	0.111	2.424E-04	5.892E-04	4.158E-04	51	1.495	6.102E-06	7.603E-06	6.853E-06
3	0.117	2.095E-04	5.335E-04	3.715E-04	52	1.545	1.904E-06	3.005E-06	2.454E-06
4	0.125	1.580E-04	3.554E-04	2.567E-04	53	1.595	1.403E-06	2.391E-06	1.897E-06
5	0.135	9.319E-05	1.293E-04	1.113E-04	54	1.645	2.118E-06	3.057E-06	2.588E-06
6	0.145	-2.023E-05	6.261E-05	2.119E-05	55	1.695	2.243E-06	3.184E-06	2.713E-06
7	0.155	-1.526E-05	1.871E-05	1.721E-06	56	1.745	2.706E-06	3.687E-06	3.197E-06
8	0.165	1.115E-05	2.363E-05	1.739E-05	57	1.800	3.406E-06	4.386E-06	3.896E-06
9	0.175	1.407E-05	3.484E-05	2.446E-05	58	1.860	2.318E-06	3.270E-06	2.794E-06
10	0.185	1.699E-05	2.578E-05	2.139E-05	59	1.920	1.526E-06	2.424E-06	1.975E-06
11	0.200	3.563E-05	4.081E-05	3.822E-05	60	1.980	-1.360E-07	6.862E-07	2.751E-07
12	0.220	7.061E-05	7.591E-05	7.326E-05	61	2.040	2.113E-07	1.050E-06	6.305E-07
13	0.240	6.658E-05	7.085E-05	6.871E-05	62	2.100	7.310E-07	1.625E-06	1.178E-06
14	0.260	5.887E-05	6.245E-05	6.066E-05	63	2.160	5.938E-07	1.472E-06	1.033E-06
15	0.280	7.105E-05	7.436E-05	7.271E-05	64	2.220	9.170E-07	1.785E-06	1.351E-06
16	0.300	4.913E-05	5.201E-05	5.057E-05	65	2.280	7.016E-07	1.514E-06	1.108E-06
17	0.320	2.368E-05	2.621E-05	2.494E-05	66	2.340	5.983E-07	1.444E-06	1.021E-06
18	0.340	1.772E-05	2.013E-05	1.892E-05	67	2.405	1.080E-06	1.940E-06	1.510E-06
19	0.360	9.835E-06	1.217E-05	1.100E-05	68	2.475	1.940E-06	2.806E-06	2.373E-06
20	0.380	6.503E-06	8.765E-06	7.634E-06	69	2.545	1.499E-06	2.408E-06	1.953E-06
21	0.400	1.041E-05	1.280E-05	1.161E-05	70	2.615	1.015E-06	1.935E-06	1.475E-06
22	0.420	1.371E-05	1.604E-05	1.488E-05	71	2.685	5.398E-07	1.408E-06	9.740E-07
23	0.445	1.345E-05	1.572E-05	1.459E-05	72	2.755	1.811E-08	8.009E-07	4.095E-07
24	0.475	1.154E-05	1.375E-05	1.264E-05	73	2.825	-6.315E-08	6.826E-07	3.097E-07
25	0.505	1.280E-05	1.503E-05	1.391E-05	74	2.895	-1.708E-07	6.309E-07	2.301E-07
26	0.535	2.262E-05	2.487E-05	2.375E-05	75	2.965	-3.420E-07	4.133E-07	3.562E-08
27	0.565	2.173E-05	2.393E-05	2.283E-05	76	3.035	-5.304E-07	2.765E-07	-1.270E-07
28	0.595	1.369E-05	1.574E-05	1.472E-05	77	3.110	-6.671E-07	1.697E-07	-2.487E-07
29	0.625	1.604E-05	1.815E-05	1.709E-05	78	3.190	-6.281E-07	2.680E-07	-1.801E-07
30	0.655	2.287E-05	2.500E-05	2.393E-05	79	3.270	-5.524E-07	3.494E-07	-1.015E-07
31	0.685	1.847E-05	2.049E-05	1.948E-05	80	3.350	-5.117E-07	3.862E-07	-6.275E-08
32	0.715	1.387E-05	1.580E-05	1.484E-05	81	3.430	-3.545E-07	5.666E-07	1.060E-07
33	0.745	1.969E-05	2.169E-05	2.069E-05	82	3.510	-1.644E-07	7.185E-07	2.771E-07
34	0.775	1.620E-05	1.813E-05	1.717E-05	83	3.590	-1.383E-07	7.834E-07	3.225E-07
35	0.810	1.150E-05	1.348E-05	1.249E-05	84	3.670	-2.586E-07	7.467E-07	2.441E-07
36	0.850	3.124E-05	3.349E-05	3.236E-05	85	3.750	-3.409E-07	6.453E-07	1.522E-07
37	0.890	4.478E-05	4.713E-05	4.595E-05	86	3.830	-3.987E-07	6.284E-07	1.148E-07
38	0.930	2.868E-05	3.076E-05	2.972E-05	87	3.915	-4.370E-07	5.983E-07	8.065E-08
39	0.970	1.174E-05	1.354E-05	1.264E-05	88	4.005	-4.469E-07	6.122E-07	8.263E-08
40	1.010	8.347E-06	1.017E-05	9.256E-06	89	4.095	-3.487E-07	7.477E-07	1.995E-07
41	1.050	8.962E-06	1.072E-05	9.841E-06	90	4.185	-2.908E-07	8.428E-07	2.760E-07
42	1.090	7.834E-06	9.500E-06	8.667E-06	91	4.275	-3.946E-07	7.567E-07	1.811E-07
43	1.130	1.012E-05	1.172E-05	1.092E-05	92	4.365	-5.989E-07	5.441E-07	-2.736E-08
44	1.170	7.964E-06	9.422E-06	8.693E-06	93	4.455	-8.378E-07	2.952E-07	-2.713E-07
45	1.210	4.106E-06	5.395E-06	4.750E-06	94	4.550	-9.505E-07	1.088E-07	-4.209E-07
46	1.250	4.615E-06	6.335E-06	5.475E-06	95	4.650	-7.760E-07	1.993E-07	-2.883E-07
47	1.295	5.196E-06	6.418E-06	5.807E-06	96	4.750	-3.954E-07	4.320E-07	1.833E-08
48	1.345	5.073E-06	6.589E-06	5.831E-06	97	4.850	-4.960E-09	6.293E-07	3.122E-07
49	1.395	1.029E-05	1.207E-05	1.118E-05	98	4.950	2.152E-07	6.762E-07	4.457E-07



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 14950 SEC

COUNTING TIME : 3000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.670E-04	4.881E-04	3.275E-04	50	1.445	7.725E-06	9.492E-06	8.609E-06
2	0.111	2.156E-04	5.969E-04	4.063E-04	51	1.495	3.720E-06	5.135E-06	4.427E-06
3	0.117	1.605E-04	5.953E-04	3.779E-04	52	1.545	1.271E-06	2.316E-06	1.794E-06
4	0.125	1.273E-04	3.708E-04	2.491E-04	53	1.595	7.328E-07	1.633E-06	1.183E-06
5	0.135	2.421E-05	1.742E-04	9.923E-05	54	1.645	1.178E-06	2.032E-06	1.605E-06
6	0.145	-8.499E-05	1.464E-04	3.070E-05	55	1.695	1.898E-06	2.776E-06	2.337E-06
7	0.155	-7.125E-05	1.038E-04	1.629E-05	56	1.745	1.789E-06	2.674E-06	2.232E-06
8	0.165	6.034E-06	2.105E-05	1.354E-05	57	1.800	2.347E-06	3.229E-06	2.788E-06
9	0.175	2.862E-07	2.479E-05	1.254E-05	58	1.860	1.948E-06	2.830E-06	2.389E-06
10	0.185	1.279E-05	2.241E-05	1.760E-05	59	1.920	1.622E-06	2.468E-06	2.045E-06
11	0.200	3.096E-05	3.601E-05	3.349E-05	60	1.980	5.535E-07	1.310E-06	9.317E-07
12	0.220	6.671E-05	7.179E-05	6.925E-05	61	2.040	9.963E-08	8.333E-07	4.665E-07
13	0.240	6.338E-05	6.747E-05	6.542E-05	62	2.100	6.129E-07	1.412E-06	1.012E-06
14	0.260	5.711E-05	6.055E-05	5.883E-05	63	2.160	3.425E-07	1.123E-06	7.327E-07
15	0.280	6.852E-05	7.170E-05	7.011E-05	64	2.220	1.528E-07	8.613E-07	5.071E-07
16	0.300	4.646E-05	4.921E-05	4.783E-05	65	2.280	5.209E-07	1.251E-06	8.858E-07
17	0.320	2.065E-05	2.304E-05	2.184E-05	66	2.340	6.320E-07	1.335E-06	9.836E-07
18	0.340	1.636E-05	1.863E-05	1.750E-05	67	2.405	9.620E-07	1.696E-06	1.329E-06
19	0.360	8.241E-06	1.042E-05	9.331E-06	68	2.475	1.102E-06	1.801E-06	1.451E-06
20	0.380	3.919E-06	5.994E-06	4.956E-06	69	2.545	4.564E-07	1.141E-06	7.987E-07
21	0.400	6.275E-06	8.464E-06	7.370E-06	70	2.615	7.320E-07	1.472E-06	1.102E-06
22	0.420	8.547E-06	1.067E-05	9.607E-06	71	2.685	3.469E-07	1.020E-06	6.835E-07
23	0.445	7.260E-06	9.314E-06	8.287E-06	72	2.755	6.301E-08	6.263E-07	3.446E-07
24	0.475	7.188E-06	9.218E-06	8.203E-06	73	2.825	6.977E-08	5.224E-07	2.961E-07
25	0.505	9.222E-06	1.129E-05	1.026E-05	74	2.895	-2.054E-07	2.844E-07	3.951E-08
26	0.535	1.988E-05	2.199E-05	2.093E-05	75	2.965	-3.137E-07	1.382E-07	-8.774E-08
27	0.565	1.669E-05	1.871E-05	1.770E-05	76	3.035	-3.128E-07	1.458E-07	-8.352E-08
28	0.595	8.686E-06	1.054E-05	9.611E-06	77	3.110	-2.804E-07	1.905E-07	-4.496E-08
29	0.625	1.131E-05	1.324E-05	1.228E-05	78	3.190	-2.107E-07	2.374E-07	1.333E-08
30	0.655	1.839E-05	2.037E-05	1.938E-05	79	3.270	-2.615E-07	1.726E-07	-4.442E-08
31	0.685	1.647E-05	1.837E-05	1.742E-05	80	3.350	-3.103E-07	1.186E-07	-9.587E-08
32	0.715	1.174E-05	1.355E-05	1.264E-05	81	3.430	-2.071E-07	2.650E-07	2.891E-08
33	0.745	1.540E-05	1.726E-05	1.633E-05	82	3.510	-3.640E-08	4.368E-07	2.002E-07
34	0.775	1.301E-05	1.478E-05	1.389E-05	83	3.590	-2.820E-09	4.091E-07	2.031E-07
35	0.810	7.523E-06	9.299E-06	8.411E-06	84	3.670	-8.349E-08	2.971E-07	1.068E-07
36	0.850	1.823E-05	2.019E-05	1.921E-05	85	3.750	-1.266E-07	2.328E-07	5.311E-08
37	0.890	2.778E-05	2.983E-05	2.880E-05	86	3.830	-1.547E-07	2.644E-07	5.485E-08
38	0.930	1.736E-05	1.925E-05	1.831E-05	87	3.915	-1.481E-07	2.770E-07	6.446E-08
39	0.970	8.476E-06	1.016E-05	9.320E-06	88	4.005	-1.321E-07	2.859E-07	7.690E-08
40	1.010	5.074E-06	6.801E-06	5.937E-06	89	4.095	-6.893E-08	3.274E-07	1.292E-07
41	1.050	6.826E-06	8.487E-06	7.657E-06	90	4.185	-4.482E-08	3.751E-07	1.652E-07
42	1.090	6.743E-06	8.340E-06	7.542E-06	91	4.275	-9.596E-08	3.332E-07	1.186E-07
43	1.130	6.126E-06	7.606E-06	6.866E-06	92	4.365	-2.036E-07	2.040E-07	2.055E-10
44	1.170	6.851E-06	8.248E-06	7.549E-06	93	4.455	-3.556E-07	6.226E-08	-1.467E-07
45	1.210	2.317E-06	3.514E-06	2.916E-06	94	4.550	-4.465E-07	-2.942E-08	-2.379E-07
46	1.250	2.362E-06	3.960E-06	3.161E-06	95	4.650	-3.712E-07	6.784E-09	-1.822E-07
47	1.295	3.863E-06	5.009E-06	4.436E-06	96	4.750	-1.735E-07	1.239E-07	-2.483E-08
48	1.345	3.180E-06	4.609E-06	3.895E-06	97	4.850	2.428E-08	2.542E-07	1.392E-07
49	1.395	7.420E-06	9.122E-06	8.271E-06	98	4.950	1.156E-07	3.075E-07	2.115E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 17950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.669E-04	4.663E-04	3.166E-04	50	1.445	5.605E-06	7.149E-06	6.377E-06
2	0.111	2.105E-04	5.683E-04	3.894E-04	51	1.495	2.679E-06	3.927E-06	3.303E-06
3	0.117	1.649E-04	5.691E-04	3.670E-04	52	1.545	7.553E-07	1.635E-06	1.195E-06
4	0.125	1.412E-04	3.688E-04	2.550E-04	53	1.595	1.337E-07	8.538E-07	4.938E-07
5	0.135	4.282E-05	1.703E-04	1.066E-04	54	1.645	4.574E-07	1.162E-06	8.097E-07
6	0.145	-7.264E-05	1.279E-04	2.762E-05	55	1.695	1.196E-06	1.916E-06	1.556E-06
7	0.155	-5.715E-05	7.967E-05	1.126E-05	56	1.745	1.602E-06	2.338E-06	1.970E-06
8	0.165	2.902E-06	1.512E-05	9.011E-06	57	1.800	1.679E-06	2.391E-06	2.035E-06
9	0.175	-2.661E-06	1.779E-05	7.566E-06	58	1.860	1.153E-06	1.882E-06	1.517E-06
10	0.185	8.330E-06	1.643E-05	1.238E-05	59	1.920	7.536E-07	1.433E-06	1.093E-06
11	0.200	2.514E-05	2.944E-05	2.729E-05	60	1.980	5.730E-07	1.225E-06	8.989E-07
12	0.220	6.219E-05	6.655E-05	6.437E-05	61	2.040	2.194E-07	8.397E-07	5.295E-07
13	0.240	6.302E-05	6.656E-05	6.479E-05	62	2.100	1.220E-07	7.684E-07	4.452E-07
14	0.260	5.600E-05	5.896E-05	5.748E-05	63	2.160	3.831E-07	1.048E-06	7.156E-07
15	0.280	6.596E-05	6.868E-05	6.732E-05	64	2.220	-8.847E-08	5.613E-07	2.364E-07
16	0.300	4.560E-05	4.795E-05	4.678E-05	65	2.280	1.211E-07	7.096E-07	4.153E-07
17	0.320	1.992E-05	2.195E-05	2.093E-05	66	2.340	2.958E-07	9.148E-07	6.053E-07
18	0.340	1.437E-05	1.629E-05	1.533E-05	67	2.405	3.746E-07	9.726E-07	6.736E-07
19	0.360	7.020E-06	8.861E-06	7.940E-06	68	2.475	6.737E-07	1.267E-06	9.705E-07
20	0.380	3.189E-06	4.941E-06	4.065E-06	69	2.545	3.067E-07	9.063E-07	6.065E-07
21	0.400	4.292E-06	6.115E-06	5.203E-06	70	2.615	8.564E-08	7.165E-07	4.011E-07
22	0.420	4.790E-06	6.541E-06	5.666E-06	71	2.685	1.458E-08	7.032E-07	3.589E-07
23	0.445	4.579E-06	6.288E-06	5.433E-06	72	2.755	-7.253E-08	4.778E-07	2.027E-07
24	0.475	4.320E-06	6.017E-06	5.168E-06	73	2.825	-5.652E-08	3.597E-07	1.516E-07
25	0.505	7.781E-06	9.524E-06	8.652E-06	74	2.895	-2.205E-07	2.354E-07	7.444E-09
26	0.535	1.700E-05	1.877E-05	1.789E-05	75	2.965	-3.379E-07	1.252E-07	-1.064E-07
27	0.565	1.489E-05	1.658E-05	1.573E-05	76	3.035	-3.844E-07	8.195E-08	-1.512E-07
28	0.595	6.754E-06	8.289E-06	7.521E-06	77	3.110	-3.383E-07	1.047E-07	-1.168E-07
29	0.625	7.719E-06	9.293E-06	8.506E-06	78	3.190	-2.048E-07	2.017E-07	-1.514E-09
30	0.655	1.454E-05	1.616E-05	1.535E-05	79	3.270	-1.865E-07	2.326E-07	2.305E-08
31	0.685	1.325E-05	1.482E-05	1.403E-05	80	3.350	-1.951E-07	2.417E-07	2.332E-08
32	0.715	1.132E-05	1.286E-05	1.209E-05	81	3.430	-1.215E-07	2.684E-07	7.343E-08
33	0.745	1.372E-05	1.529E-05	1.450E-05	82	3.510	-6.988E-08	2.913E-07	1.107E-07
34	0.775	1.060E-05	1.208E-05	1.134E-05	83	3.590	-2.510E-08	3.340E-07	1.545E-07
35	0.810	6.278E-06	7.748E-06	7.013E-06	84	3.670	-3.317E-08	3.166E-07	1.417E-07
36	0.850	1.113E-05	1.267E-05	1.190E-05	85	3.750	-7.829E-08	2.573E-07	8.951E-08
37	0.890	1.541E-05	1.701E-05	1.621E-05	86	3.830	-9.983E-08	2.626E-07	8.140E-08
38	0.930	9.767E-06	1.129E-05	1.053E-05	87	3.915	-1.142E-07	2.248E-07	5.529E-08
39	0.970	5.626E-06	7.070E-06	6.348E-06	88	4.005	-1.511E-07	1.915E-07	2.018E-08
40	1.010	3.522E-06	5.004E-06	4.263E-06	89	4.095	-1.068E-07	2.420E-07	6.758E-08
41	1.050	5.037E-06	6.457E-06	5.747E-06	90	4.185	-6.133E-08	3.259E-07	1.323E-07
42	1.090	4.187E-06	5.528E-06	4.857E-06	91	4.275	-8.484E-08	3.238E-07	1.195E-07
43	1.130	4.607E-06	5.879E-06	5.243E-06	92	4.365	-1.598E-07	2.310E-07	3.561E-08
44	1.170	4.672E-06	5.852E-06	5.262E-06	93	4.455	-2.638E-07	9.460E-08	-8.461E-08
45	1.210	2.189E-06	3.242E-06	2.715E-06	94	4.550	-3.604E-07	-5.663E-09	-1.830E-07
46	1.250	2.773E-06	4.182E-06	3.478E-06	95	4.650	-3.362E-07	2.081E-08	-1.577E-07
47	1.295	3.989E-06	4.993E-06	4.491E-06	96	4.750	-1.905E-07	1.107E-07	-3.986E-08
48	1.345	3.418E-06	4.675E-06	4.046E-06	97	4.850	-7.482E-09	2.024E-07	9.745E-08
49	1.395	6.431E-06	7.910E-06	7.170E-06	98	4.950	9.880E-08	2.590E-07	1.789E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{238}\text{U}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 21950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.563E-04	4.518E-04	3.040E-04	50	1.445	4.901E-06	6.423E-06	5.662E-06
2	0.111	2.085E-04	5.650E-04	3.867E-04	51	1.495	1.401E-06	2.593E-06	1.997E-06
3	0.117	1.643E-04	5.705E-04	3.674E-04	52	1.545	-1.027E-07	7.349E-07	3.161E-07
4	0.125	1.336E-04	3.571E-04	2.453E-04	53	1.595	-2.376E-07	4.496E-07	1.060E-07
5	0.135	3.000E-05	1.705E-04	1.002E-04	54	1.645	4.434E-07	1.128E-06	7.855E-07
6	0.145	-8.604E-05	1.481E-04	3.101E-05	55	1.695	7.363E-07	1.412E-06	1.074E-06
7	0.155	-6.688E-05	8.974E-05	1.143E-05	56	1.745	1.240E-06	1.953E-06	1.597E-06
8	0.165	-8.115E-05	1.009E-04	9.855E-06	57	1.800	1.565E-06	2.274E-06	1.920E-06
9	0.175	-2.267E-05	3.854E-05	7.938E-06	58	1.860	1.156E-06	1.882E-06	1.519E-06
10	0.185	4.130E-06	1.555E-05	9.840E-06	59	1.920	5.165E-07	1.165E-06	8.410E-07
11	0.200	2.349E-05	2.771E-05	2.560E-05	60	1.980	-1.716E-07	4.322E-07	1.303E-07
12	0.220	6.007E-05	6.420E-05	6.213E-05	61	2.040	-2.726E-07	3.107E-07	1.902E-08
13	0.240	6.095E-05	6.430E-05	6.263E-05	62	2.100	-1.067E-07	5.495E-07	2.214E-07
14	0.260	5.408E-05	5.690E-05	5.549E-05	63	2.160	1.504E-07	8.163E-07	4.833E-07
15	0.280	6.354E-05	6.616E-05	6.485E-05	64	2.220	6.959E-08	6.700E-07	3.698E-07
16	0.300	4.378E-05	4.605E-05	4.492E-05	65	2.280	3.862E-08	6.622E-07	3.504E-07
17	0.320	1.957E-05	2.154E-05	2.055E-05	66	2.340	4.642E-08	7.388E-07	3.926E-07
18	0.340	1.385E-05	1.571E-05	1.478E-05	67	2.405	4.120E-07	1.119E-06	7.654E-07
19	0.360	6.369E-06	8.146E-06	7.257E-06	68	2.475	6.288E-07	1.241E-06	9.351E-07
20	0.380	2.700E-06	4.385E-06	3.543E-06	69	2.545	2.105E-07	7.691E-07	4.898E-07
21	0.400	2.428E-06	4.167E-06	3.297E-06	70	2.615	-2.189E-07	3.722E-07	7.667E-08
22	0.420	2.748E-06	4.423E-06	3.586E-06	71	2.685	-2.228E-07	4.269E-07	1.020E-07
23	0.445	3.102E-06	4.748E-06	3.925E-06	72	2.755	-2.201E-07	3.663E-07	7.310E-08
24	0.475	2.965E-06	4.602E-06	3.783E-06	73	2.825	-2.182E-07	2.865E-07	3.418E-08
25	0.505	6.593E-06	8.280E-06	7.436E-06	74	2.895	-3.345E-07	3.159E-07	-9.301E-09
26	0.535	1.527E-05	1.698E-05	1.613E-05	75	2.965	-3.826E-07	2.247E-07	-7.894E-08
27	0.565	1.498E-05	1.360E-05	1.279E-05	76	3.035	-3.216E-07	1.664E-07	-7.758E-08
28	0.595	5.641E-06	7.107E-06	6.374E-06	77	3.110	-3.053E-07	1.476E-07	-7.883E-08
29	0.625	5.184E-06	6.672E-06	5.928E-06	78	3.190	-2.883E-07	2.556E-07	-1.636E-08
30	0.655	1.112E-05	1.266E-05	1.189E-05	79	3.270	-2.228E-07	2.694E-07	2.328E-08
31	0.685	1.216E-05	1.369E-05	1.293E-05	80	3.350	-2.851E-07	3.206E-07	1.772E-08
32	0.715	8.717E-06	1.018E-05	9.451E-06	81	3.430	-1.074E-07	3.571E-07	1.248E-07
33	0.745	1.137E-05	1.289E-05	1.213E-05	82	3.510	-8.739E-08	2.971E-07	1.049E-07
34	0.775	9.649E-06	1.109E-05	1.037E-05	83	3.590	-8.109E-08	3.018E-07	1.103E-07
35	0.810	5.695E-06	7.093E-06	6.394E-06	84	3.670	-2.483E-08	3.997E-07	1.874E-07
36	0.850	6.152E-06	7.573E-06	6.863E-06	85	3.750	-1.549E-08	3.944E-07	1.895E-07
37	0.890	7.504E-06	8.944E-06	8.224E-06	86	3.830	-4.740E-08	4.066E-07	1.796E-07
38	0.930	5.978E-06	7.440E-06	6.709E-06	87	3.915	-7.683E-08	3.648E-07	1.440E-07
39	0.970	4.236E-06	5.648E-06	4.942E-06	88	4.005	-1.368E-07	2.785E-07	7.087E-08
40	1.010	3.196E-06	4.654E-06	3.925E-06	89	4.095	-1.777E-07	2.792E-07	5.074E-08
41	1.050	3.896E-06	5.274E-06	4.585E-06	90	4.185	-2.239E-07	3.031E-07	3.960E-08
42	1.090	1.542E-06	2.804E-06	2.173E-06	91	4.275	-2.850E-07	2.534E-07	-1.583E-08
43	1.130	2.620E-06	3.846E-06	3.233E-06	92	4.365	-3.493E-07	1.604E-07	-9.447E-08
44	1.170	3.230E-06	4.378E-06	3.804E-06	93	4.455	-3.855E-07	6.146E-08	-1.620E-07
45	1.210	2.064E-06	3.096E-06	2.580E-06	94	4.550	-4.085E-07	8.182E-08	-1.633E-07
46	1.250	2.870E-06	4.251E-06	3.561E-06	95	4.650	-3.336E-07	1.854E-07	-7.411E-08
47	1.295	2.468E-06	3.425E-06	2.946E-06	96	4.750	-1.630E-07	2.411E-07	3.906E-08
48	1.345	1.809E-06	3.025E-06	2.417E-06	97	4.850	2.052E-08	2.745E-07	1.475E-07
49	1.395	4.566E-06	6.024E-06	5.295E-06	98	4.950	1.024E-07	3.022E-07	2.023E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 11 SEC

COUNTING TIME : 6 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.947E-02	8.520E-02	6.734E-02	50	1.445	8.998E-03	1.110E-02	1.005E-02
2	0.111	2.919E-02	4.725E-02	3.822E-02	51	1.495	7.883E-03	9.829E-03	8.856E-03
3	0.117	9.642E-03	7.424E-02	4.194E-02	52	1.545	4.478E-03	6.242E-03	5.360E-03
4	0.125	4.586E-02	7.481E-02	6.033E-02	53	1.595	5.474E-03	7.341E-03	6.407E-03
5	0.135	2.511E-02	6.671E-02	4.591E-02	54	1.645	4.418E-03	6.185E-03	5.301E-03
6	0.145	1.722E-02	7.734E-02	4.728E-02	55	1.695	2.207E-03	3.923E-03	3.065E-03
7	0.155	2.417E-02	5.334E-02	3.875E-02	56	1.745	4.315E-03	6.154E-03	5.235E-03
8	0.165	2.461E-02	3.876E-02	3.168E-02	57	1.800	5.672E-03	7.562E-03	6.617E-03
9	0.175	1.871E-02	4.103E-02	2.987E-02	58	1.860	9.750E-04	2.634E-03	1.804E-03
10	0.185	2.480E-02	3.454E-02	2.967E-02	59	1.920	2.811E-03	4.621E-03	3.716E-03
11	0.200	2.969E-02	3.562E-02	3.266E-02	60	1.980	2.712E-03	4.392E-03	3.552E-03
12	0.220	2.449E-02	3.037E-02	2.743E-02	61	2.040	2.877E-03	4.551E-03	3.714E-03
13	0.240	2.268E-02	2.763E-02	2.515E-02	62	2.100	2.470E-03	4.155E-03	3.313E-03
14	0.260	3.027E-02	3.462E-02	3.244E-02	63	2.160	2.649E-03	4.354E-03	3.502E-03
15	0.280	3.130E-02	3.525E-02	3.327E-02	64	2.220	3.047E-03	4.769E-03	3.908E-03
16	0.300	2.070E-02	2.415E-02	2.243E-02	65	2.280	2.353E-03	4.001E-03	3.177E-03
17	0.320	1.313E-02	1.635E-02	1.474E-02	66	2.340	2.545E-03	4.247E-03	3.396E-03
18	0.340	1.417E-02	1.744E-02	1.580E-02	67	2.405	9.609E-04	2.576E-03	1.768E-03
19	0.360	2.065E-02	2.420E-02	2.243E-02	68	2.475	6.591E-04	2.161E-03	1.410E-03
20	0.380	2.607E-02	2.970E-02	2.788E-02	69	2.545	9.659E-04	2.464E-03	1.715E-03
21	0.400	2.485E-02	2.850E-02	2.667E-02	70	2.615	2.932E-04	1.671E-03	9.823E-04
22	0.420	2.121E-02	2.458E-02	2.290E-02	71	2.685	2.122E-03	3.715E-03	2.919E-03
23	0.445	2.045E-02	2.369E-02	2.207E-02	72	2.755	2.394E-03	3.904E-03	3.149E-03
24	0.475	1.855E-02	2.171E-02	2.013E-02	73	2.825	1.283E-03	2.715E-03	1.999E-03
25	0.505	2.275E-02	2.595E-02	2.435E-02	74	2.895	1.020E-03	2.426E-03	1.723E-03
26	0.535	2.809E-02	3.128E-02	2.969E-02	75	2.965	5.389E-04	1.879E-03	1.209E-03
27	0.565	2.045E-02	2.344E-02	2.195E-02	76	3.035	-1.705E-05	1.179E-03	5.811E-04
28	0.595	2.037E-02	2.322E-02	2.180E-02	77	3.110	1.297E-04	1.280E-03	7.046E-04
29	0.625	1.644E-02	1.918E-02	1.781E-02	78	3.190	-3.884E-04	7.428E-04	1.772E-04
30	0.655	1.249E-02	1.503E-02	1.376E-02	79	3.270	-3.745E-04	7.209E-04	1.732E-04
31	0.685	1.246E-02	1.496E-02	1.371E-02	80	3.350	-2.926E-05	1.097E-03	5.339E-04
32	0.715	1.069E-02	1.312E-02	1.190E-02	81	3.430	1.297E-04	1.116E-03	6.227E-04
33	0.745	1.013E-02	1.259E-02	1.136E-02	82	3.510	1.876E-04	1.092E-03	6.396E-04
34	0.775	1.211E-02	1.460E-02	1.336E-02	83	3.590	2.719E-04	1.155E-03	7.135E-04
35	0.810	1.182E-02	1.432E-02	1.307E-02	84	3.670	8.381E-05	8.787E-04	4.813E-04
36	0.850	1.075E-02	1.320E-02	1.198E-02	85	3.750	-4.038E-05	7.239E-04	3.417E-04
37	0.890	9.210E-03	1.163E-02	1.042E-02	86	3.830	2.719E-04	9.953E-04	6.336E-04
38	0.930	1.173E-02	1.426E-02	1.299E-02	87	3.915	2.803E-04	1.022E-03	6.510E-04
39	0.970	1.208E-02	1.456E-02	1.332E-02	88	4.005	-1.345E-04	5.315E-04	1.985E-04
40	1.010	1.058E-02	1.310E-02	1.184E-02	89	4.095	-3.899E-05	6.457E-04	3.033E-04
41	1.050	9.942E-03	1.233E-02	1.114E-02	90	4.185	2.483E-04	9.526E-04	6.004E-04
42	1.090	1.080E-02	1.311E-02	1.196E-02	91	4.275	1.639E-04	8.766E-04	5.203E-04
43	1.130	1.033E-02	1.253E-02	1.143E-02	92	4.365	-1.654E-04	4.935E-04	1.641E-04
44	1.170	8.007E-03	1.001E-02	9.009E-03	93	4.455	-4.005E-04	2.142E-04	-9.311E-05
45	1.210	8.070E-03	1.002E-02	9.044E-03	94	4.550	-5.295E-04	8.822E-05	-2.206E-04
46	1.250	8.561E-03	1.122E-02	9.890E-03	95	4.650	-5.379E-04	1.234E-04	-2.072E-04
47	1.295	7.654E-03	9.471E-03	8.563E-03	96	4.750	-2.830E-04	2.448E-04	-1.910E-05
48	1.345	7.982E-03	1.003E-02	9.005E-03	97	4.850	6.455E-05	4.209E-04	2.427E-04
49	1.395	6.535E-03	8.485E-03	7.510E-03	98	4.950	2.864E-04	5.391E-04	4.128E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 25 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.969E-02	5.871E-02	4.920E-02	50	1.445	5.093E-03	6.287E-03	5.690E-03
2	0.111	9.793E-03	1.954E-02	1.467E-02	51	1.495	4.049E-03	5.135E-03	4.592E-03
3	0.117	-1.501E-02	1.910E-02	2.043E-03	52	1.545	3.084E-03	4.109E-03	3.596E-03
4	0.125	3.304E-02	4.855E-02	4.080E-02	53	1.595	2.910E-03	3.945E-03	3.428E-03
5	0.135	2.153E-02	4.293E-02	3.223E-02	54	1.645	1.977E-03	2.978E-03	2.477E-03
6	0.145	-7.810E-03	2.320E-02	7.697E-03	55	1.695	1.226E-03	2.159E-03	1.692E-03
7	0.155	1.773E-02	3.269E-02	2.521E-02	56	1.745	2.405E-03	3.460E-03	2.932E-03
8	0.165	1.197E-02	1.969E-02	1.583E-02	57	1.800	1.753E-03	2.787E-03	2.270E-03
9	0.175	5.784E-03	1.796E-02	1.187E-02	58	1.860	1.761E-03	2.793E-03	2.277E-03
10	0.185	1.532E-02	2.065E-02	1.798E-02	59	1.920	1.185E-03	2.231E-03	1.708E-03
11	0.200	1.736E-02	2.064E-02	1.900E-02	60	1.980	1.617E-03	2.565E-03	2.091E-03
12	0.220	1.585E-02	1.907E-02	1.746E-02	61	2.040	1.336E-03	2.300E-03	1.818E-03
13	0.240	1.163E-02	1.430E-02	1.296E-02	62	2.100	1.008E-03	1.957E-03	1.482E-03
14	0.260	1.564E-02	1.800E-02	1.682E-02	63	2.160	1.501E-03	2.490E-03	1.996E-03
15	0.280	1.600E-02	1.813E-02	1.707E-02	64	2.220	1.547E-03	2.501E-03	2.024E-03
16	0.300	1.061E-02	1.248E-02	1.155E-02	65	2.280	1.725E-03	2.729E-03	2.227E-03
17	0.320	7.354E-03	9.115E-03	8.235E-03	66	2.340	1.491E-03	2.475E-03	1.983E-03
18	0.340	8.176E-03	9.985E-03	9.080E-03	67	2.405	1.071E-03	2.082E-03	1.576E-03
19	0.360	1.092E-02	1.287E-02	1.189E-02	68	2.475	7.282E-04	1.634E-03	1.181E-03
20	0.380	1.587E-02	1.792E-02	1.690E-02	69	2.545	4.253E-04	1.333E-03	8.790E-04
21	0.400	1.682E-02	1.890E-02	1.786E-02	70	2.615	8.980E-04	1.805E-03	1.351E-03
22	0.420	1.239E-02	1.421E-02	1.330E-02	71	2.685	8.978E-04	1.817E-03	1.357E-03
23	0.445	8.826E-03	1.050E-02	9.664E-03	72	2.755	8.466E-04	1.775E-03	1.311E-03
24	0.475	7.890E-03	9.516E-03	8.703E-03	73	2.825	1.063E-03	2.002E-03	1.533E-03
25	0.505	8.702E-03	1.033E-02	9.516E-03	74	2.895	4.871E-04	1.371E-03	9.293E-04
26	0.535	1.129E-02	1.293E-02	1.211E-02	75	2.965	2.587E-04	1.105E-03	6.818E-04
27	0.565	9.952E-03	1.155E-02	1.075E-02	76	3.035	1.568E-04	9.516E-04	5.542E-04
28	0.595	1.025E-02	1.180E-02	1.102E-02	77	3.110	-3.236E-04	4.443E-04	6.039E-04
29	0.625	8.806E-03	1.030E-02	9.553E-03	78	3.190	-5.744E-04	2.033E-04	-1.856E-05
30	0.655	5.755E-03	7.128E-03	6.442E-03	79	3.270	-5.826E-04	1.651E-04	-2.087E-04
31	0.685	7.415E-03	8.820E-03	8.117E-03	80	3.350	1.442E-05	7.666E-04	3.905E-04
32	0.715	6.664E-03	8.036E-03	7.350E-03	81	3.430	1.633E-04	8.270E-04	4.952E-04
33	0.745	5.424E-03	6.777E-03	6.101E-03	82	3.510	1.106E-04	6.770E-04	3.938E-04
34	0.775	6.846E-03	8.226E-03	7.536E-03	83	3.590	2.481E-04	8.039E-04	5.260E-04
35	0.810	6.668E-03	8.052E-03	7.360E-03	84	3.670	2.433E-04	7.762E-04	5.097E-04
36	0.850	5.392E-03	6.732E-03	6.062E-03	85	3.750	1.937E-04	6.995E-04	4.466E-04
37	0.890	5.928E-03	7.286E-03	6.607E-03	86	3.830	9.937E-05	6.022E-04	3.508E-04
38	0.930	5.615E-03	6.993E-03	6.304E-03	87	3.915	-1.290E-04	3.857E-04	1.283E-04
39	0.970	5.870E-03	7.223E-03	6.546E-03	88	4.005	-2.076E-04	3.426E-04	6.753E-05
40	1.010	6.214E-03	7.608E-03	6.911E-03	89	4.095	-3.376E-05	5.619E-04	2.641E-04
41	1.050	4.764E-03	6.059E-03	5.412E-03	90	4.185	-3.306E-06	6.377E-04	3.172E-04
42	1.090	4.189E-03	5.398E-03	4.794E-03	91	4.275	-9.806E-05	6.159E-04	2.589E-04
43	1.130	4.350E-03	5.536E-03	4.943E-03	92	4.365	-2.834E-04	4.759E-04	9.624E-05
44	1.170	4.622E-03	5.764E-03	5.193E-03	93	4.455	-5.275E-04	2.160E-04	-1.557E-04
45	1.210	4.307E-03	5.402E-03	4.855E-03	94	4.550	-7.165E-04	5.114E-05	-3.327E-04
46	1.250	3.879E-03	5.358E-03	4.619E-03	95	4.650	-6.157E-04	1.482E-04	-2.337E-04
47	1.295	5.151E-03	6.222E-03	5.687E-03	96	4.750	-2.998E-04	3.818E-04	4.103E-05
48	1.345	4.330E-03	5.469E-03	4.900E-03	97	4.850	4.212E-05	5.125E-04	2.773E-04
49	1.395	4.442E-03	5.590E-03	5.016E-03	98	4.950	1.689E-04	5.589E-04	3.639E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 45 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.470E-02	3.627E-02	3.048E-02	50	1.445	3.253E-03	4.229E-03	3.741E-03
2	0.111	4.859E-03	1.131E-02	8.084E-03	51	1.495	2.889E-03	3.779E-03	3.334E-03
3	0.117	-1.040E-02	1.086E-02	2.283E-04	52	1.545	1.531E-03	2.349E-03	1.940E-03
4	0.125	1.762E-02	2.721E-02	2.242E-02	53	1.595	1.761E-03	2.617E-03	2.189E-03
5	0.135	9.664E-03	2.371E-02	1.669E-02	54	1.645	2.050E-03	2.900E-03	2.475E-03
6	0.145	-5.595E-03	1.474E-02	4.575E-03	55	1.695	9.784E-04	1.769E-03	1.374E-03
7	0.155	1.012E-02	1.973E-02	1.492E-02	56	1.745	9.172E-04	1.723E-03	1.320E-03
8	0.165	7.286E-03	1.329E-02	1.029E-02	57	1.800	2.134E-03	3.042E-03	2.588E-03
9	0.175	5.011E-03	1.428E-02	9.644E-03	58	1.860	9.973E-04	1.791E-03	1.394E-03
10	0.185	9.267E-03	1.341E-02	1.134E-02	59	1.920	9.474E-04	1.788E-03	1.368E-03
11	0.200	1.145E-02	1.406E-02	1.276E-02	60	1.980	9.356E-04	1.707E-03	1.321E-03
12	0.220	1.031E-02	1.289E-02	1.160E-02	61	2.040	1.216E-03	2.020E-03	1.618E-03
13	0.240	7.002E-03	9.142E-03	8.072E-03	62	2.100	6.877E-04	1.458E-03	1.073E-03
14	0.260	9.371E-03	1.126E-02	1.032E-02	63	2.160	8.999E-04	1.702E-03	1.301E-03
15	0.280	1.017E-02	1.190E-02	1.104E-02	64	2.220	1.240E-03	2.059E-03	1.650E-03
16	0.300	6.936E-03	8.475E-03	7.706E-03	65	2.280	8.633E-04	1.611E-03	1.237E-03
17	0.320	5.965E-03	7.458E-03	6.712E-03	66	2.340	3.513E-04	1.072E-03	7.118E-04
18	0.340	6.926E-03	8.461E-03	7.693E-03	67	2.405	2.993E-04	1.079E-03	6.890E-04
19	0.360	8.706E-03	1.035E-02	9.527E-03	68	2.475	1.200E-04	8.100E-04	4.650E-04
20	0.380	1.070E-02	1.238E-02	1.154E-02	69	2.545	-1.262E-05	6.935E-04	3.404E-04
21	0.400	1.076E-02	1.244E-02	1.160E-02	70	2.615	4.685E-04	1.189E-03	8.287E-04
22	0.420	8.534E-03	1.002E-02	9.278E-03	71	2.685	9.774E-04	1.729E-03	1.353E-03
23	0.445	6.320E-03	7.678E-03	6.999E-03	72	2.755	5.647E-04	1.244E-03	9.042E-04
24	0.475	4.511E-03	5.788E-03	5.150E-03	73	2.825	7.700E-05	6.965E-04	3.867E-04
25	0.505	4.605E-03	5.877E-03	5.241E-03	74	2.895	2.860E-04	9.600E-04	6.230E-04
26	0.535	6.472E-03	7.768E-03	7.120E-03	75	2.965	2.687E-04	8.778E-04	5.732E-04
27	0.565	6.516E-03	7.803E-03	7.160E-03	76	3.035	1.999E-04	7.986E-04	4.993E-04
28	0.595	6.132E-03	7.358E-03	6.745E-03	77	3.110	1.026E-04	6.517E-04	3.772E-04
29	0.625	4.123E-03	5.264E-03	4.694E-03	78	3.190	-1.957E-05	5.393E-04	2.599E-04
30	0.655	3.333E-03	4.417E-03	3.875E-03	79	3.270	1.180E-04	6.090E-04	3.635E-04
31	0.685	3.535E-03	4.625E-03	4.080E-03	80	3.350	1.063E-04	5.845E-04	3.454E-04
32	0.715	3.904E-03	4.997E-03	4.451E-03	81	3.430	-5.898E-05	3.611E-04	1.511E-04
33	0.745	3.656E-03	4.753E-03	4.204E-03	82	3.510	7.161E-05	4.796E-04	2.756E-04
34	0.775	3.471E-03	4.559E-03	4.015E-03	83	3.590	-1.595E-05	4.034E-04	1.937E-04
35	0.810	4.150E-03	5.278E-03	4.714E-03	84	3.670	-5.947E-05	3.430E-04	1.418E-04
36	0.850	4.070E-03	5.198E-03	4.634E-03	85	3.750	2.765E-05	4.125E-04	2.201E-04
37	0.890	4.515E-03	5.652E-03	5.083E-03	86	3.830	-1.168E-04	2.466E-04	6.492E-05
38	0.930	3.130E-03	4.221E-03	3.676E-03	87	3.915	-2.108E-04	1.293E-04	-4.074E-05
39	0.970	4.185E-03	5.309E-03	4.747E-03	88	4.005	-1.423E-04	2.310E-04	4.438E-05
40	1.010	4.114E-03	5.257E-03	4.686E-03	89	4.095	6.301E-05	4.256E-04	2.443E-04
41	1.050	2.703E-03	3.729E-03	3.216E-03	90	4.185	9.977E-05	4.979E-04	2.988E-04
42	1.090	2.616E-03	3.604E-03	3.110E-03	91	4.275	-6.688E-05	3.055E-04	1.193E-04
43	1.130	3.057E-03	4.048E-03	3.552E-03	92	4.365	-1.803E-04	1.670E-04	-6.649E-06
44	1.170	2.666E-03	3.570E-03	3.118E-03	93	4.455	-2.302E-04	8.427E-05	-7.295E-05
45	1.210	2.809E-03	3.694E-03	3.252E-03	94	4.550	-2.530E-04	6.212E-05	-9.542E-05
46	1.250	1.687E-03	2.858E-03	2.273E-03	95	4.650	-1.610E-04	1.681E-04	3.590E-06
47	1.295	2.679E-03	3.510E-03	3.094E-03	96	4.750	-9.454E-06	2.284E-04	1.095E-04
48	1.345	2.965E-03	3.921E-03	3.443E-03	97	4.850	7.755E-05	2.293E-04	1.534E-04
49	1.395	2.838E-03	3.773E-03	3.306E-03	98	4.950	9.304E-05	2.009E-04	1.470E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 75 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.162E-02	1.788E-02	1.475E-02	50	1.445	2.481E-03	3.016E-03	2.749E-03
2	0.111	2.609E-03	5.991E-03	4.300E-03	51	1.495	1.865E-03	2.345E-03	2.105E-03
3	0.117	-5.048E-03	6.535E-03	7.432E-04	52	1.545	1.137E-03	1.562E-03	1.350E-03
4	0.125	7.924E-03	1.302E-02	1.047E-02	53	1.595	8.417E-04	1.283E-03	1.062E-03
5	0.135	4.332E-03	1.212E-02	8.228E-03	54	1.645	7.579E-04	1.176E-03	9.670E-04
6	0.145	-2.695E-03	8.593E-03	2.949E-03	55	1.695	9.303E-04	1.357E-03	1.144E-03
7	0.155	5.138E-03	1.048E-02	7.809E-03	56	1.745	5.640E-04	9.842E-04	7.741E-04
8	0.165	4.544E-03	7.858E-03	6.201E-03	57	1.800	5.839E-04	1.018E-03	8.008E-04
9	0.175	3.330E-03	8.457E-03	5.893E-03	58	1.860	8.526E-04	1.310E-03	1.081E-03
10	0.185	5.985E-03	8.266E-03	7.125E-03	59	1.920	4.383E-04	8.491E-04	6.437E-04
11	0.200	7.424E-03	8.855E-03	8.140E-03	60	1.980	6.759E-04	1.086E-03	8.808E-04
12	0.220	6.111E-03	7.524E-03	6.817E-03	61	2.040	7.052E-04	1.118E-03	9.118E-04
13	0.240	4.237E-03	5.404E-03	4.821E-03	62	2.100	4.392E-04	8.411E-04	6.401E-04
14	0.260	5.389E-03	6.411E-03	5.900E-03	63	2.160	5.594E-04	9.842E-04	7.718E-04
15	0.280	5.865E-03	6.811E-03	6.338E-03	64	2.220	4.947E-04	8.839E-04	6.893E-04
16	0.300	4.891E-03	5.758E-03	5.325E-03	65	2.280	5.544E-04	9.745E-04	7.644E-04
17	0.320	4.543E-03	5.392E-03	4.968E-03	66	2.340	3.834E-04	7.752E-04	5.793E-04
18	0.340	4.856E-03	5.720E-03	5.288E-03	67	2.405	1.940E-04	5.686E-04	3.813E-04
19	0.360	5.689E-03	6.600E-03	6.144E-03	68	2.475	1.871E-05	3.920E-04	2.054E-04
20	0.380	6.540E-03	7.456E-03	6.998E-03	69	2.545	7.438E-05	4.331E-04	2.538E-04
21	0.400	6.478E-03	7.397E-03	6.937E-03	70	2.615	2.946E-04	6.633E-04	4.790E-04
22	0.420	5.509E-03	6.332E-03	5.920E-03	71	2.685	2.255E-04	6.015E-04	4.135E-04
23	0.445	3.903E-03	4.653E-03	4.278E-03	72	2.755	4.100E-04	7.675E-04	5.888E-04
24	0.475	3.060E-03	3.768E-03	3.414E-03	73	2.825	4.310E-04	7.736E-04	6.023E-04
25	0.505	2.837E-03	3.536E-03	3.187E-03	74	2.895	1.997E-04	5.338E-04	3.668E-04
26	0.535	3.966E-03	4.673E-03	4.320E-03	75	2.965	9.980E-05	4.123E-04	2.560E-04
27	0.565	3.872E-03	4.579E-03	4.225E-03	76	3.035	3.431E-05	3.307E-04	1.825E-04
28	0.595	4.285E-03	4.978E-03	4.632E-03	77	3.110	-7.578E-05	2.031E-04	6.364E-05
29	0.625	3.516E-03	4.182E-03	3.849E-03	78	3.190	6.568E-05	3.405E-04	2.031E-04
30	0.655	2.469E-03	3.078E-03	2.774E-03	79	3.270	6.797E-05	3.413E-04	2.046E-04
31	0.685	2.302E-03	2.907E-03	2.604E-03	80	3.350	-1.497E-04	9.498E-05	-2.738E-05
32	0.715	2.646E-03	3.256E-03	2.951E-03	81	3.430	-2.891E-05	1.841E-04	7.758E-05
33	0.745	2.686E-03	3.306E-03	2.996E-03	82	3.510	5.541E-05	2.983E-04	1.768E-04
34	0.775	2.274E-03	2.866E-03	2.570E-03	83	3.590	8.454E-05	2.999E-04	1.922E-04
35	0.810	2.439E-03	3.055E-03	2.747E-03	84	3.670	1.244E-04	3.559E-04	2.401E-04
36	0.850	2.543E-03	3.159E-03	2.851E-03	85	3.750	5.426E-06	1.877E-04	9.654E-05
37	0.890	2.488E-03	3.100E-03	2.794E-03	86	3.830	-1.087E-04	6.355E-05	-2.256E-05
38	0.930	2.367E-03	2.985E-03	2.676E-03	87	3.915	-8.366E-05	8.655E-05	1.447E-06
39	0.970	2.371E-03	2.973E-03	2.672E-03	88	4.005	-5.139E-05	1.034E-04	2.601E-05
40	1.010	2.513E-03	3.141E-03	2.827E-03	89	4.095	-4.104E-05	1.163E-04	3.761E-05
41	1.050	1.948E-03	2.521E-03	2.235E-03	90	4.185	-4.400E-06	1.636E-04	7.960E-05
42	1.090	1.836E-03	2.385E-03	2.110E-03	91	4.275	4.861E-05	2.066E-04	1.276E-04
43	1.130	1.869E-03	2.401E-03	2.135E-03	92	4.365	2.939E-05	1.768E-04	1.031E-04
44	1.170	1.744E-03	2.242E-03	1.993E-03	93	4.455	-4.146E-05	8.022E-05	1.938E-05
45	1.210	1.817E-03	2.299E-03	2.058E-03	94	4.550	-8.022E-05	3.894E-05	-2.064E-05
46	1.250	1.696E-03	2.349E-03	2.022E-03	95	4.650	-6.193E-05	5.233E-05	-4.804E-06
47	1.295	1.710E-03	2.161E-03	1.936E-03	96	4.750	-2.372E-05	6.581E-05	2.104E-05
48	1.345	2.042E-03	2.566E-03	2.304E-03	97	4.850	2.011E-05	8.210E-05	5.110E-05
49	1.395	2.143E-03	2.665E-03	2.404E-03	98	4.950	4.471E-05	9.141E-05	6.806E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 115 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	5.890E-03	9.607E-03	7.749E-03	50	1.445	1.362E-03	1.643E-03	1.503E-03
2	0.111	1.892E-03	3.827E-03	2.860E-03	51	1.495	1.125E-03	1.385E-03	1.255E-03
3	0.117	-1.604E-03	5.291E-03	1.844E-03	52	1.545	7.211E-04	9.569E-04	8.390E-04
4	0.125	4.219E-03	7.238E-03	5.729E-03	53	1.595	5.872E-04	8.264E-04	7.068E-04
5	0.135	1.874E-03	6.448E-03	4.161E-03	54	1.645	4.595E-04	6.856E-04	5.726E-04
6	0.145	-2.675E-04	6.363E-03	3.048E-03	55	1.695	5.660E-04	7.899E-04	6.780E-04
7	0.155	2.525E-03	5.701E-03	4.113E-03	56	1.745	4.277E-04	6.525E-04	5.401E-04
8	0.165	2.654E-03	4.490E-03	3.572E-03	57	1.800	3.054E-04	5.341E-04	4.198E-04
9	0.175	2.791E-03	5.648E-03	4.219E-03	58	1.860	4.351E-04	6.698E-04	5.525E-04
10	0.185	3.556E-03	4.819E-03	4.188E-03	59	1.920	4.558E-04	6.902E-04	5.730E-04
11	0.200	4.304E-03	5.084E-03	4.694E-03	60	1.980	2.864E-04	4.990E-04	3.927E-04
12	0.220	3.456E-03	4.231E-03	3.844E-03	61	2.040	4.188E-04	6.441E-04	5.315E-04
13	0.240	2.762E-03	3.402E-03	3.082E-03	62	2.100	3.726E-04	5.938E-04	4.832E-04
14	0.260	3.036E-03	3.588E-03	3.312E-03	63	2.160	1.973E-04	4.092E-04	3.032E-04
15	0.280	3.590E-03	4.111E-03	3.850E-03	64	2.220	2.041E-04	4.048E-04	3.044E-04
16	0.300	3.463E-03	3.954E-03	3.708E-03	65	2.280	3.208E-04	5.376E-04	4.292E-04
17	0.320	3.416E-03	3.901E-03	3.658E-03	66	2.340	2.481E-04	4.589E-04	3.535E-04
18	0.340	3.463E-03	3.948E-03	3.705E-03	67	2.405	1.296E-04	3.400E-04	2.348E-04
19	0.360	3.359E-03	3.852E-03	3.606E-03	68	2.475	8.038E-05	2.806E-04	1.805E-04
20	0.380	3.442E-03	3.930E-03	3.686E-03	69	2.545	1.728E-04	3.719E-04	2.723E-04
21	0.400	3.723E-03	4.223E-03	3.973E-03	70	2.615	2.718E-04	4.709E-04	3.714E-04
22	0.420	3.452E-03	3.912E-03	3.682E-03	71	2.685	1.816E-04	3.702E-04	2.759E-04
23	0.445	2.790E-03	3.214E-03	3.002E-03	72	2.755	1.559E-04	3.319E-04	2.439E-04
24	0.475	2.048E-03	2.443E-03	2.246E-03	73	2.825	1.979E-04	3.774E-04	2.876E-04
25	0.505	1.834E-03	2.219E-03	2.026E-03	74	2.895	4.549E-05	2.152E-04	1.303E-04
26	0.535	2.138E-03	2.517E-03	2.327E-03	75	2.965	5.014E-05	2.082E-04	1.292E-04
27	0.565	2.216E-03	2.598E-03	2.407E-03	76	3.035	4.163E-05	1.993E-04	1.205E-04
28	0.595	2.582E-03	2.963E-03	2.773E-03	77	3.110	-3.557E-05	9.902E-05	3.172E-05
29	0.625	2.228E-03	2.595E-03	2.412E-03	78	3.190	3.323E-05	1.756E-04	1.044E-04
30	0.655	1.237E-03	1.570E-03	1.404E-03	79	3.270	-2.858E-05	1.018E-04	3.661E-05
31	0.685	1.612E-03	1.955E-03	1.783E-03	80	3.350	-2.063E-05	1.003E-04	3.983E-05
32	0.715	2.227E-03	2.585E-03	2.406E-03	81	3.430	7.031E-05	1.854E-04	1.278E-04
33	0.745	1.803E-03	2.144E-03	1.974E-03	82	3.510	7.597E-05	1.980E-04	1.370E-04
34	0.775	1.458E-03	1.783E-03	1.621E-03	83	3.590	6.112E-05	1.639E-04	1.125E-04
35	0.810	1.297E-03	1.631E-03	1.464E-03	84	3.670	4.407E-05	1.468E-04	9.544E-05
36	0.850	1.835E-03	2.184E-03	2.009E-03	85	3.750	-5.454E-06	8.149E-05	3.802E-05
37	0.890	1.912E-03	2.262E-03	2.087E-03	86	3.830	-3.495E-05	6.333E-05	1.419E-05
38	0.930	1.791E-03	2.138E-03	1.964E-03	87	3.915	-3.850E-05	5.799E-05	9.745E-06
39	0.970	1.613E-03	1.946E-03	1.780E-03	88	4.005	-6.055E-05	2.250E-05	-1.903E-05
40	1.010	1.649E-03	1.993E-03	1.821E-03	89	4.095	-5.145E-05	2.421E-05	-1.362E-05
41	1.050	1.242E-03	1.556E-03	1.399E-03	90	4.185	-3.531E-05	4.411E-05	4.397E-06
42	1.090	1.192E-03	1.494E-03	1.343E-03	91	4.275	-1.191E-06	7.615E-05	3.748E-05
43	1.130	1.337E-03	1.629E-03	1.483E-03	92	4.365	1.786E-05	9.507E-05	5.646E-05
44	1.170	1.131E-03	1.400E-03	1.266E-03	93	4.455	6.850E-06	7.707E-05	4.196E-05
45	1.210	8.880E-04	1.140E-03	1.014E-03	94	4.550	-1.564E-06	5.116E-05	2.480E-05
46	1.250	9.446E-04	1.296E-03	1.120E-03	95	4.650	-6.428E-06	4.964E-05	2.161E-05
47	1.295	1.232E-03	1.482E-03	1.357E-03	96	4.750	-7.682E-07	4.086E-05	2.004E-05
48	1.345	1.164E-03	1.441E-03	1.303E-03	97	4.850	9.301E-06	3.518E-05	2.224E-05
49	1.395	1.228E-03	1.508E-03	1.368E-03	98	4.950	1.752E-05	3.546E-05	2.649E-05



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 195 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.802E-03	3.938E-03	2.870E-03	50	1.445	6.901E-04	8.570E-04	7.735E-04
2	0.111	1.505E-03	2.615E-03	2.060E-03	51	1.495	5.266E-04	6.771E-04	6.018E-04
3	0.117	8.955E-04	4.893E-03	2.894E-03	52	1.545	3.306E-04	4.663E-04	3.984E-04
4	0.125	1.320E-03	3.029E-03	2.174E-03	53	1.595	2.483E-04	3.857E-04	3.170E-04
5	0.135	-1.864E-05	2.758E-03	1.370E-03	54	1.645	3.075E-04	4.465E-04	3.770E-04
6	0.145	1.481E-03	5.495E-03	3.488E-03	55	1.695	3.335E-04	4.736E-04	4.035E-04
7	0.155	9.458E-04	2.875E-03	1.910E-03	56	1.745	2.665E-04	4.058E-04	3.362E-04
8	0.165	1.695E-03	2.833E-03	2.264E-03	57	1.800	3.528E-04	5.009E-04	4.269E-04
9	0.175	2.003E-03	3.764E-03	2.883E-03	58	1.860	1.893E-04	3.219E-04	2.556E-04
10	0.185	2.139E-03	2.919E-03	2.529E-03	59	1.920	1.958E-04	3.330E-04	2.644E-04
11	0.200	2.561E-03	3.044E-03	2.802E-03	60	1.980	1.065E-04	2.279E-04	1.672E-04
12	0.220	1.783E-03	2.262E-03	2.022E-03	61	2.040	1.817E-04	3.061E-04	2.439E-04
13	0.240	1.413E-03	1.813E-03	1.613E-03	62	2.100	1.844E-04	3.123E-04	2.484E-04
14	0.260	1.805E-03	2.156E-03	1.980E-03	63	2.160	1.106E-04	2.335E-04	1.720E-04
15	0.280	2.311E-03	2.647E-03	2.479E-03	64	2.220	1.944E-04	3.157E-04	2.551E-04
16	0.300	2.319E-03	2.639E-03	2.479E-03	65	2.280	1.411E-04	2.613E-04	2.012E-04
17	0.320	2.356E-03	2.673E-03	2.514E-03	66	2.340	8.081E-05	2.016E-04	1.412E-04
18	0.340	2.436E-03	2.753E-03	2.594E-03	67	2.405	3.686E-05	1.575E-04	9.717E-05
19	0.360	2.194E-03	2.506E-03	2.350E-03	68	2.475	2.813E-05	1.363E-04	8.220E-05
20	0.380	1.640E-03	1.931E-03	1.786E-03	69	2.545	1.891E-05	1.300E-04	7.445E-05
21	0.400	1.524E-03	1.821E-03	1.672E-03	70	2.615	7.404E-05	1.857E-04	1.299E-04
22	0.420	1.767E-03	2.056E-03	1.911E-03	71	2.685	5.416E-05	1.717E-04	1.129E-04
23	0.445	1.960E-03	2.241E-03	2.100E-03	72	2.755	5.540E-05	1.741E-04	1.147E-04
24	0.475	1.519E-03	1.777E-03	1.648E-03	73	2.825	1.040E-04	2.252E-04	1.646E-04
25	0.505	1.081E-03	1.323E-03	1.202E-03	74	2.895	6.251E-05	1.790E-04	1.208E-04
26	0.535	1.083E-03	1.317E-03	1.200E-03	75	2.965	6.426E-05	1.617E-04	1.130E-04
27	0.565	1.209E-03	1.446E-03	1.327E-03	76	3.035	4.308E-05	1.371E-04	9.007E-05
28	0.595	1.571E-03	1.811E-03	1.691E-03	77	3.110	-1.793E-05	7.286E-05	2.746E-05
29	0.625	1.180E-03	1.407E-03	1.293E-03	78	3.190	-1.972E-05	9.230E-05	3.629E-05
30	0.655	8.356E-04	1.048E-03	9.418E-04	79	3.270	-7.230E-05	2.874E-05	-2.178E-05
31	0.685	9.390E-04	1.155E-03	1.047E-03	80	3.350	-4.653E-05	3.718E-05	-4.676E-06
32	0.715	1.302E-03	1.527E-03	1.415E-03	81	3.430	6.334E-06	8.377E-05	4.505E-05
33	0.745	1.207E-03	1.428E-03	1.318E-03	82	3.510	-1.091E-05	5.094E-05	2.002E-05
34	0.775	9.860E-04	1.195E-03	1.091E-03	83	3.590	-9.380E-06	6.094E-05	2.578E-05
35	0.810	9.737E-04	1.190E-03	1.082E-03	84	3.670	3.153E-05	1.012E-04	6.639E-05
36	0.850	1.226E-03	1.449E-03	1.338E-03	85	3.750	1.666E-05	7.877E-05	4.771E-05
37	0.890	1.293E-03	1.515E-03	1.404E-03	86	3.830	-1.607E-05	3.833E-05	1.113E-05
38	0.930	1.196E-03	1.417E-03	1.306E-03	87	3.915	-1.796E-05	3.201E-05	7.023E-06
39	0.970	1.145E-03	1.355E-03	1.250E-03	88	4.005	-1.489E-05	3.911E-05	1.211E-05
40	1.010	1.034E-03	1.245E-03	1.140E-03	89	4.095	-4.919E-06	4.795E-05	2.151E-05
41	1.050	7.193E-04	9.113E-04	8.153E-04	90	4.185	7.563E-06	8.365E-05	4.561E-05
42	1.090	6.950E-04	8.781E-04	7.866E-04	91	4.275	7.580E-06	9.570E-05	5.164E-05
43	1.130	8.208E-04	1.001E-03	9.109E-04	92	4.365	-7.020E-06	6.310E-05	2.804E-05
44	1.170	5.879E-04	7.459E-04	6.669E-04	93	4.455	-3.219E-05	1.854E-05	-6.824E-06
45	1.210	4.527E-04	6.005E-04	5.266E-04	94	4.550	-8.656E-05	3.966E-06	-4.130E-05
46	1.250	4.232E-04	6.287E-04	5.260E-04	95	4.650	-1.040E-04	3.261E-06	-5.038E-05
47	1.295	5.436E-04	6.906E-04	6.171E-04	96	4.750	-6.423E-05	1.375E-05	-2.524E-05
48	1.345	6.672E-04	8.348E-04	7.510E-04	97	4.850	5.546E-07	3.008E-05	1.532E-05
49	1.395	6.386E-04	8.047E-04	7.217E-04	98	4.950	1.747E-05	6.315E-05	4.031E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 315 SEC

COUNTING TIME : 80 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.129E-04	1.985E-03	1.299E-03	50	1.445	3.760E-04	4.877E-04	4.319E-04
2	0.111	1.143E-03	1.872E-03	1.508E-03	51	1.495	3.219E-04	4.248E-04	3.733E-04
3	0.117	1.245E-03	3.814E-03	2.529E-03	52	1.545	2.098E-04	3.077E-04	2.588E-04
4	0.125	4.812E-04	1.582E-03	1.031E-03	53	1.595	1.504E-04	2.412E-04	1.958E-04
5	0.135	-4.172E-04	1.407E-03	4.950E-04	54	1.645	2.430E-04	3.468E-04	2.949E-04
6	0.145	1.423E-03	4.059E-03	2.741E-03	55	1.695	1.996E-04	2.954E-04	2.475E-04
7	0.155	2.276E-04	1.483E-03	8.553E-04	56	1.745	1.951E-04	2.934E-04	2.443E-04
8	0.165	1.033E-03	1.823E-03	1.428E-03	57	1.800	1.898E-04	2.860E-04	2.379E-04
9	0.175	1.470E-03	2.684E-03	2.077E-03	58	1.860	1.296E-04	2.233E-04	1.764E-04
10	0.185	1.402E-03	1.943E-03	1.672E-03	59	1.920	1.381E-04	2.288E-04	1.835E-04
11	0.200	1.661E-03	1.999E-03	1.830E-03	60	1.980	1.480E-04	2.339E-04	1.909E-04
12	0.220	9.438E-04	1.281E-03	1.113E-03	61	2.040	6.293E-05	1.412E-04	1.021E-04
13	0.240	9.899E-04	1.277E-03	1.133E-03	62	2.100	8.684E-05	1.725E-04	1.297E-04
14	0.260	1.200E-03	1.449E-03	1.324E-03	63	2.160	8.796E-05	1.727E-04	1.303E-04
15	0.280	1.432E-03	1.668E-03	1.550E-03	64	2.220	2.086E-04	3.003E-04	2.545E-04
16	0.300	1.605E-03	1.833E-03	1.719E-03	65	2.280	8.621E-05	1.605E-04	1.234E-04
17	0.320	1.630E-03	1.856E-03	1.743E-03	66	2.340	8.001E-05	1.567E-04	1.183E-04
18	0.340	1.559E-03	1.780E-03	1.670E-03	67	2.405	7.144E-05	1.455E-04	1.085E-04
19	0.360	1.422E-03	1.638E-03	1.530E-03	68	2.475	-1.407E-05	4.285E-05	1.439E-05
20	0.380	8.638E-04	1.059E-03	9.616E-04	69	2.545	1.970E-05	8.697E-05	5.333E-05
21	0.400	6.595E-04	8.576E-04	7.586E-04	70	2.615	3.680E-05	1.021E-04	6.945E-05
22	0.420	1.004E-03	1.207E-03	1.105E-03	71	2.685	5.506E-05	1.296E-04	9.233E-05
23	0.445	1.439E-03	1.644E-03	1.542E-03	72	2.755	5.355E-05	1.187E-04	8.612E-05
24	0.475	1.131E-03	1.319E-03	1.225E-03	73	2.825	2.015E-05	8.095E-05	5.055E-05
25	0.505	6.445E-04	8.141E-04	7.293E-04	74	2.895	-1.884E-05	3.655E-05	8.857E-06
26	0.535	7.011E-04	8.668E-04	7.839E-04	75	2.965	-2.580E-05	2.701E-05	6.082E-07
27	0.565	8.209E-04	9.908E-04	9.058E-04	76	3.035	-1.508E-05	3.909E-05	1.200E-05
28	0.595	1.038E-03	1.209E-03	1.124E-03	77	3.110	-1.389E-05	3.944E-05	1.278E-05
29	0.625	7.682E-04	9.307E-04	8.494E-04	78	3.190	-5.076E-07	5.404E-05	2.677E-05
30	0.655	5.827E-04	7.350E-04	6.589E-04	79	3.270	-4.788E-07	5.157E-05	2.555E-05
31	0.685	5.684E-04	7.216E-04	6.450E-04	80	3.350	-6.818E-06	3.585E-05	1.452E-05
32	0.715	8.611E-04	1.020E-03	9.406E-04	81	3.430	1.685E-05	6.204E-05	3.945E-05
33	0.745	7.699E-04	9.252E-04	8.476E-04	82	3.510	9.229E-06	5.325E-05	3.124E-05
34	0.775	5.585E-04	7.021E-04	6.303E-04	83	3.590	2.445E-06	4.261E-05	2.253E-05
35	0.810	5.482E-04	6.992E-04	6.237E-04	84	3.670	4.143E-06	4.042E-05	2.228E-05
36	0.850	7.979E-04	9.582E-04	8.781E-04	85	3.750	-2.314E-06	3.334E-05	1.552E-05
37	0.890	1.023E-03	1.190E-03	1.106E-03	86	3.830	-3.817E-06	2.913E-05	1.266E-05
38	0.930	1.016E-03	1.179E-03	1.098E-03	87	3.915	-1.062E-05	2.374E-05	6.562E-06
39	0.970	8.135E-04	9.646E-04	8.890E-04	88	4.005	-1.537E-05	1.731E-05	9.723E-07
40	1.010	6.776E-04	8.274E-04	7.525E-04	89	4.095	-1.194E-05	2.687E-05	7.466E-06
41	1.050	5.840E-04	7.222E-04	6.531E-04	90	4.185	-5.514E-06	2.881E-05	1.165E-05
42	1.090	4.970E-04	6.289E-04	5.630E-04	91	4.275	-7.617E-06	2.661E-05	9.495E-06
43	1.130	5.485E-04	6.733E-04	6.109E-04	92	4.365	-9.968E-06	1.994E-05	4.987E-06
44	1.170	4.754E-04	5.909E-04	5.331E-04	93	4.455	-1.794E-05	1.187E-05	-3.034E-06
45	1.210	3.017E-04	4.060E-04	3.539E-04	94	4.550	-2.559E-05	4.928E-06	-1.033E-05
46	1.250	3.553E-04	5.015E-04	4.284E-04	95	4.650	-2.105E-05	7.086E-06	-6.981E-06
47	1.295	4.092E-04	5.111E-04	4.601E-04	96	4.750	-7.238E-06	1.356E-05	3.163E-06
48	1.345	3.275E-04	4.345E-04	3.810E-04	97	4.850	4.621E-06	1.917E-05	1.189E-05
49	1.395	2.538E-04	3.611E-04	3.074E-04	98	4.950	7.889E-06	2.171E-05	1.480E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 495 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.656E-04	7.564E-04	2.954E-04	50	1.445	1.569E-04	2.314E-04	1.942E-04
2	0.111	8.664E-04	1.363E-03	1.115E-03	51	1.495	1.781E-04	2.544E-04	2.162E-04
3	0.117	1.449E-03	3.186E-03	2.317E-03	52	1.545	1.884E-04	2.629E-04	2.256E-04
4	0.125	-2.040E-05	7.174E-04	3.485E-04	53	1.595	1.029E-04	1.735E-04	1.382E-04
5	0.135	-7.297E-04	5.528E-04	-8.845E-05	54	1.645	1.547E-04	2.290E-04	1.919E-04
6	0.145	1.499E-03	3.349E-03	2.424E-03	55	1.695	1.786E-04	2.524E-04	2.155E-04
7	0.155	-6.407E-05	8.171E-04	3.765E-04	56	1.745	1.532E-04	2.251E-04	1.891E-04
8	0.165	6.954E-04	1.276E-03	9.856E-04	57	1.800	1.260E-04	1.971E-04	1.615E-04
9	0.175	1.078E-03	1.964E-03	1.521E-03	58	1.860	9.174E-05	1.587E-04	1.252E-04
10	0.185	9.204E-04	1.318E-03	1.119E-03	59	1.920	5.545E-05	1.198E-04	8.765E-05
11	0.200	9.938E-04	1.243E-03	1.118E-03	60	1.980	6.548E-05	1.268E-04	9.616E-05
12	0.220	5.255E-04	7.779E-04	6.517E-04	61	2.040	6.459E-05	1.271E-04	9.583E-05
13	0.240	6.356E-04	8.532E-04	7.444E-04	62	2.100	1.249E-04	1.926E-04	1.587E-04
14	0.260	8.689E-04	1.060E-03	9.646E-04	63	2.160	8.832E-05	1.525E-04	1.204E-04
15	0.280	1.019E-03	1.199E-03	1.109E-03	64	2.220	9.630E-05	1.533E-04	1.248E-04
16	0.300	1.335E-03	1.513E-03	1.424E-03	65	2.280	3.301E-05	8.798E-05	6.050E-05
17	0.320	1.308E-03	1.483E-03	1.395E-03	66	2.340	7.785E-06	5.693E-05	3.236E-05
18	0.340	1.043E-03	1.209E-03	1.126E-03	67	2.405	2.129E-05	7.487E-05	4.808E-05
19	0.360	9.249E-04	1.087E-03	1.006E-03	68	2.475	-7.268E-06	3.692E-05	1.483E-05
20	0.380	6.903E-04	8.421E-04	7.662E-04	69	2.545	3.171E-05	8.437E-05	5.804E-05
21	0.400	6.116E-04	7.661E-04	6.889E-04	70	2.615	4.415E-05	9.496E-05	6.956E-05
22	0.420	7.424E-04	8.960E-04	8.192E-04	71	2.685	1.914E-05	6.442E-05	4.178E-05
23	0.445	9.583E-04	1.111E-03	1.035E-03	72	2.755	2.573E-05	7.277E-05	4.925E-05
24	0.475	8.156E-04	9.579E-04	8.868E-04	73	2.825	3.050E-05	7.675E-05	5.363E-05
25	0.505	4.600E-04	5.885E-04	5.242E-04	74	2.895	1.307E-05	5.371E-05	3.339E-05
26	0.535	5.387E-04	6.644E-04	6.015E-04	75	2.965	-5.008E-06	3.102E-05	1.301E-05
27	0.565	5.282E-04	6.545E-04	5.914E-04	76	3.035	-7.385E-06	2.872E-05	1.067E-05
28	0.595	6.783E-04	8.049E-04	7.416E-04	77	3.110	-1.203E-05	2.030E-05	4.131E-06
29	0.625	4.557E-04	5.748E-04	5.152E-04	78	3.190	-7.487E-06	2.663E-05	9.570E-06
30	0.655	4.104E-04	5.256E-04	4.680E-04	79	3.270	-7.486E-07	3.157E-05	1.541E-05
31	0.685	4.783E-04	5.956E-04	5.369E-04	80	3.350	1.874E-06	3.233E-05	1.710E-05
32	0.715	5.164E-04	6.322E-04	5.743E-04	81	3.430	6.047E-07	2.934E-05	1.497E-05
33	0.745	4.251E-04	5.388E-04	4.819E-04	82	3.510	-2.510E-06	2.212E-05	9.807E-06
34	0.775	4.669E-04	5.784E-04	5.227E-04	83	3.590	-2.770E-06	2.306E-05	1.014E-05
35	0.810	4.691E-04	5.864E-04	5.278E-04	84	3.670	-2.396E-06	2.191E-05	9.758E-06
36	0.850	5.329E-04	6.519E-04	5.924E-04	85	3.750	5.771E-07	2.823E-05	1.440E-05
37	0.890	7.461E-04	8.726E-04	8.094E-04	86	3.830	-1.069E-06	2.337E-05	1.115E-05
38	0.930	7.821E-04	9.080E-04	8.451E-04	87	3.915	-8.581E-06	1.197E-05	1.692E-06
39	0.970	5.723E-04	6.857E-04	6.290E-04	88	4.005	-8.495E-06	9.805E-06	6.547E-07
40	1.010	5.214E-04	6.344E-04	5.779E-04	89	4.095	-8.221E-06	1.057E-05	1.173E-06
41	1.050	3.879E-04	4.898E-04	4.388E-04	90	4.185	-8.310E-06	9.478E-06	5.841E-07
42	1.090	3.091E-04	4.036E-04	3.563E-04	91	4.275	-7.746E-06	1.111E-05	1.684E-06
43	1.130	3.359E-04	4.267E-04	3.813E-04	92	4.365	-6.808E-06	1.165E-05	2.424E-06
44	1.170	2.758E-04	3.595E-04	3.176E-04	93	4.455	-4.818E-06	9.083E-06	2.132E-06
45	1.210	2.368E-04	3.148E-04	2.758E-04	94	4.550	-7.172E-07	9.671E-06	4.477E-06
46	1.250	2.568E-04	3.659E-04	3.113E-04	95	4.650	3.163E-06	1.276E-05	7.962E-06
47	1.295	2.371E-04	3.114E-04	2.742E-04	96	4.750	2.607E-06	1.184E-05	7.225E-06
48	1.345	2.822E-04	3.657E-04	3.240E-04	97	4.850	1.116E-06	6.549E-06	3.833E-06
49	1.395	2.103E-04	2.895E-04	2.499E-04	98	4.950	5.920E-07	2.484E-06	1.538E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 795 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.949E-06	5.952E-04	3.011E-04	50	1.445	1.636E-04	2.091E-04	1.864E-04
2	0.111	5.208E-04	8.233E-04	6.721E-04	51	1.495	1.247E-04	1.665E-04	1.456E-04
3	0.117	7.961E-04	1.908E-03	1.352E-03	52	1.545	7.352E-05	1.130E-04	9.325E-05
4	0.125	-7.792E-06	4.549E-04	2.236E-04	53	1.595	8.670E-05	1.276E-04	1.072E-04
5	0.135	-4.184E-04	3.915E-04	-1.343E-05	54	1.645	1.106E-04	1.531E-04	1.318E-04
6	0.145	9.267E-04	2.095E-03	1.511E-03	55	1.695	1.226E-04	1.656E-04	1.441E-04
7	0.155	1.266E-06	5.634E-04	2.824E-04	56	1.745	1.250E-04	1.671E-04	1.460E-04
8	0.165	5.286E-04	8.696E-04	6.991E-04	57	1.800	8.457E-05	1.233E-04	1.040E-04
9	0.175	7.369E-04	1.262E-03	9.994E-04	58	1.860	2.311E-05	5.811E-05	4.061E-05
10	0.185	6.354E-04	8.683E-04	7.519E-04	59	1.920	3.789E-05	7.398E-05	5.593E-05
11	0.200	7.051E-04	8.492E-04	7.772E-04	60	1.980	5.307E-05	8.863E-05	7.085E-05
12	0.220	3.976E-04	5.433E-04	4.705E-04	61	2.040	7.535E-05	1.114E-04	9.340E-05
13	0.240	4.608E-04	5.850E-04	5.229E-04	62	2.100	5.520E-05	9.110E-05	7.315E-05
14	0.260	5.546E-04	6.630E-04	6.088E-04	63	2.160	4.478E-05	7.985E-05	6.232E-05
15	0.280	7.340E-04	8.387E-04	7.864E-04	64	2.220	6.287E-05	9.628E-05	7.956E-05
16	0.300	1.025E-03	1.131E-03	1.078E-03	65	2.280	6.387E-05	9.716E-05	8.052E-05
17	0.320	1.055E-03	1.160E-03	1.108E-03	66	2.340	3.336E-05	6.221E-05	4.778E-05
18	0.340	8.555E-04	9.543E-04	9.049E-04	67	2.405	2.211E-05	4.940E-05	3.575E-05
19	0.360	6.961E-04	7.898E-04	7.429E-04	68	2.475	1.561E-05	4.255E-05	2.908E-05
20	0.380	4.333E-04	5.170E-04	4.751E-04	69	2.545	1.300E-05	3.822E-05	2.561E-05
21	0.400	2.931E-04	3.757E-04	3.344E-04	70	2.615	2.509E-05	5.318E-05	3.913E-05
22	0.420	3.924E-04	4.759E-04	4.341E-04	71	2.685	2.750E-05	5.374E-05	4.062E-05
23	0.445	5.889E-04	6.740E-04	6.315E-04	72	2.755	2.635E-05	5.143E-05	3.889E-05
24	0.475	4.681E-04	5.472E-04	5.076E-04	73	2.825	-3.151E-06	1.615E-05	6.499E-06
25	0.505	3.529E-04	4.272E-04	3.900E-04	74	2.895	-1.154E-05	8.645E-06	-1.450E-06
26	0.535	3.907E-04	4.640E-04	4.274E-04	75	2.965	-8.595E-06	1.189E-05	1.650E-06
27	0.565	4.123E-04	4.860E-04	4.492E-04	76	3.035	-1.681E-05	4.138E-06	-6.338E-06
28	0.595	4.257E-04	4.973E-04	4.615E-04	77	3.110	-6.785E-06	1.373E-05	3.472E-06
29	0.625	3.099E-04	3.780E-04	3.439E-04	78	3.190	-1.109E-06	2.041E-05	9.648E-06
30	0.655	2.682E-04	3.328E-04	3.005E-04	79	3.270	-1.131E-05	7.110E-06	-2.101E-06
31	0.685	2.409E-04	3.046E-04	2.728E-04	80	3.350	-4.933E-06	1.138E-05	3.224E-06
32	0.715	2.622E-04	3.257E-04	2.939E-04	81	3.430	3.689E-06	2.052E-05	1.211E-05
33	0.745	2.948E-04	3.594E-04	3.271E-04	82	3.510	2.238E-06	1.839E-05	1.031E-05
34	0.775	2.648E-04	3.270E-04	2.959E-04	83	3.590	5.682E-06	2.183E-05	1.376E-05
35	0.810	2.722E-04	3.375E-04	3.049E-04	84	3.670	9.263E-06	2.702E-05	1.814E-05
36	0.850	3.848E-04	4.541E-04	4.195E-04	85	3.750	4.816E-06	1.833E-05	1.157E-05
37	0.890	5.380E-04	6.126E-04	5.753E-04	86	3.830	-3.088E-06	7.789E-06	2.350E-06
38	0.930	5.933E-04	6.673E-04	6.303E-04	87	3.915	-6.148E-06	4.259E-06	-9.447E-07
39	0.970	4.572E-04	5.247E-04	4.909E-04	88	4.005	-5.869E-06	4.814E-06	-5.273E-07
40	1.010	3.505E-04	4.136E-04	3.821E-04	89	4.095	-2.926E-06	7.810E-06	2.442E-06
41	1.050	2.448E-04	3.027E-04	2.738E-04	90	4.185	-5.960E-07	1.158E-05	5.493E-06
42	1.090	2.193E-04	2.724E-04	2.459E-04	91	4.275	-1.987E-06	1.020E-05	4.107E-06
43	1.130	2.176E-04	2.698E-04	2.437E-04	92	4.365	-5.240E-06	6.267E-06	5.138E-07
44	1.170	1.431E-04	1.894E-04	1.663E-04	93	4.455	-8.858E-06	2.538E-06	-3.160E-06
45	1.210	2.096E-04	2.571E-04	2.333E-04	94	4.550	-1.138E-05	-2.288E-07	-5.805E-06
46	1.250	1.946E-04	2.576E-04	2.261E-04	95	4.650	-9.429E-06	1.066E-06	-4.182E-06
47	1.295	1.444E-04	1.855E-04	1.649E-04	96	4.750	-4.527E-06	4.387E-06	-6.992E-08
48	1.345	1.267E-04	1.722E-04	1.494E-04	97	4.850	4.342E-07	6.957E-06	3.695E-06
49	1.395	1.825E-04	2.305E-04	2.065E-04	98	4.950	2.800E-06	8.056E-06	5.428E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1395 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-3.641E-04	-3.200E-05	-1.980E-04	50	1.445	9.791E-05	1.227E-04	1.103E-04
2	0.111	3.883E-04	5.539E-04	4.711E-04	51	1.495	1.027E-04	1.273E-04	1.150E-04
3	0.117	9.793E-04	1.613E-03	1.296E-03	52	1.545	5.740E-05	7.850E-05	6.795E-05
4	0.125	-2.047E-04	5.417E-05	-7.525E-05	53	1.595	4.912E-05	7.133E-05	6.023E-05
5	0.135	-5.800E-04	-1.096E-04	-3.448E-04	54	1.645	5.768E-05	8.019E-05	6.894E-05
6	0.145	1.085E-03	1.761E-03	1.423E-03	55	1.695	6.361E-05	8.607E-05	7.484E-05
7	0.155	-2.033E-04	1.269E-04	-3.822E-05	56	1.745	4.536E-05	6.670E-05	5.603E-05
8	0.165	2.738E-04	4.586E-04	3.662E-04	57	1.800	3.440E-05	5.476E-05	4.458E-05
9	0.175	5.635E-04	8.497E-04	7.066E-04	58	1.860	3.478E-05	5.497E-05	4.488E-05
10	0.185	3.718E-04	4.980E-04	4.349E-04	59	1.920	1.804E-05	3.711E-05	2.758E-05
11	0.200	4.649E-04	5.423E-04	5.036E-04	60	1.980	3.020E-05	4.942E-05	3.981E-05
12	0.220	2.059E-04	2.831E-04	2.445E-04	61	2.040	5.035E-05	7.025E-05	6.030E-05
13	0.240	2.292E-04	2.953E-04	2.622E-04	62	2.100	4.043E-05	6.025E-05	5.034E-05
14	0.260	3.013E-04	3.600E-04	3.307E-04	63	2.160	5.305E-05	7.386E-05	6.346E-05
15	0.280	5.224E-04	5.819E-04	5.522E-04	64	2.220	7.273E-05	9.240E-05	8.257E-05
16	0.300	7.851E-04	8.463E-04	8.157E-04	65	2.280	4.416E-05	6.133E-05	5.275E-05
17	0.320	7.418E-04	8.012E-04	7.715E-04	66	2.340	1.242E-05	2.515E-05	1.878E-05
18	0.340	4.833E-04	5.362E-04	5.097E-04	67	2.405	5.522E-06	1.797E-05	1.175E-05
19	0.360	3.700E-04	4.196E-04	3.948E-04	68	2.475	3.967E-06	1.606E-05	1.001E-05
20	0.380	2.523E-04	2.977E-04	2.750E-04	69	2.545	2.425E-06	1.397E-05	8.196E-06
21	0.400	2.092E-04	2.547E-04	2.319E-04	70	2.615	1.646E-05	2.907E-05	2.277E-05
22	0.420	2.347E-04	2.795E-04	2.571E-04	71	2.685	1.832E-05	3.140E-05	2.486E-05
23	0.445	2.929E-04	3.376E-04	3.152E-04	72	2.755	1.023E-05	2.169E-05	1.596E-05
24	0.475	2.762E-04	3.191E-04	2.977E-04	73	2.825	3.043E-07	8.889E-06	4.597E-06
25	0.505	2.310E-04	2.721E-04	2.516E-04	74	2.895	-3.749E-06	5.265E-06	7.578E-07
26	0.535	2.660E-04	3.063E-04	2.861E-04	75	2.965	-3.027E-06	5.175E-06	1.074E-06
27	0.565	2.169E-04	2.559E-04	2.364E-04	76	3.035	-4.372E-06	4.859E-06	2.433E-07
28	0.595	1.873E-04	2.246E-04	2.060E-04	77	3.110	-2.708E-06	5.531E-06	1.411E-06
29	0.625	2.289E-04	2.675E-04	2.482E-04	78	3.190	1.802E-07	8.747E-06	4.463E-06
30	0.655	2.245E-04	2.615E-04	2.430E-04	79	3.270	2.288E-07	8.269E-06	4.249E-06
31	0.685	1.405E-04	1.746E-04	1.576E-04	80	3.350	9.832E-08	7.037E-06	3.568E-06
32	0.715	1.211E-04	1.543E-04	1.377E-04	81	3.430	4.470E-07	7.749E-06	4.098E-06
33	0.745	1.853E-04	2.209E-04	2.031E-04	82	3.510	-1.348E-06	4.873E-06	1.762E-06
34	0.775	1.884E-04	2.229E-04	2.056E-04	83	3.590	-2.727E-06	5.131E-06	1.202E-06
35	0.810	1.495E-04	1.844E-04	1.670E-04	84	3.670	-8.468E-07	6.434E-06	2.794E-06
36	0.850	2.432E-04	2.813E-04	2.623E-04	85	3.750	-3.129E-07	5.987E-06	2.837E-06
37	0.890	3.273E-04	3.678E-04	3.475E-04	86	3.830	-8.042E-07	5.573E-06	2.385E-06
38	0.930	3.523E-04	3.926E-04	3.724E-04	87	3.915	-8.041E-07	4.255E-06	1.726E-06
39	0.970	2.722E-04	3.082E-04	2.902E-04	88	4.005	-1.465E-06	3.914E-06	1.225E-06
40	1.010	2.001E-04	2.347E-04	2.174E-04	89	4.095	-1.920E-06	2.946E-06	5.129E-07
41	1.050	1.865E-04	2.187E-04	2.026E-04	90	4.185	-2.877E-06	1.883E-06	-4.966E-07
42	1.090	1.228E-04	1.512E-04	1.370E-04	91	4.275	-3.057E-06	1.188E-06	-9.346E-07
43	1.130	9.403E-05	1.205E-04	1.073E-04	92	4.365	-2.872E-06	8.352E-07	-1.018E-06
44	1.170	1.065E-04	1.325E-04	1.195E-04	93	4.455	-2.393E-06	1.126E-06	-6.336E-07
45	1.210	1.057E-04	1.309E-04	1.183E-04	94	4.550	-1.158E-06	2.346E-06	5.944E-07
46	1.250	1.188E-04	1.527E-04	1.357E-04	95	4.650	-1.307E-07	3.027E-06	1.448E-06
47	1.295	1.103E-04	1.335E-04	1.219E-04	96	4.750	5.393E-07	2.485E-06	1.512E-06
48	1.345	7.228E-05	9.579E-05	8.403E-05	97	4.850	7.667E-07	2.161E-06	1.464E-06
49	1.395	7.565E-05	9.967E-05	8.766E-05	98	4.950	5.324E-07	1.674E-06	1.103E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2195 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.582E-04	4.890E-05	-5.467E-05	50	1.445	7.502E-05	9.417E-05	8.460E-05
2	0.111	2.002E-04	3.067E-04	2.534E-04	51	1.495	7.937E-05	9.758E-05	8.847E-05
3	0.117	4.310E-04	8.262E-04	6.286E-04	52	1.545	3.780E-05	5.321E-05	4.551E-05
4	0.125	-8.424E-05	7.767E-05	-3.283E-06	53	1.595	3.227E-05	4.876E-05	4.051E-05
5	0.135	-2.589E-04	4.287E-05	-1.080E-04	54	1.645	4.587E-05	6.310E-05	5.449E-05
6	0.145	4.966E-04	9.308E-04	7.137E-04	55	1.695	4.312E-05	5.956E-05	5.134E-05
7	0.155	-8.126E-05	1.276E-04	2.317E-05	56	1.745	2.732E-05	4.290E-05	3.511E-05
8	0.165	1.473E-04	2.751E-04	2.112E-04	57	1.800	2.719E-05	4.264E-05	3.492E-05
9	0.175	2.652E-04	4.617E-04	3.634E-04	58	1.860	2.486E-05	3.983E-05	3.234E-05
10	0.185	1.934E-04	2.807E-04	2.371E-04	59	1.920	1.513E-05	2.918E-05	2.216E-05
11	0.200	2.666E-04	3.209E-04	2.938E-04	60	1.980	1.361E-05	2.729E-05	2.045E-05
12	0.220	1.336E-04	1.875E-04	1.606E-04	61	2.040	1.320E-05	2.599E-05	1.960E-05
13	0.240	1.133E-04	1.590E-04	1.361E-04	62	2.100	2.159E-05	3.632E-05	2.895E-05
14	0.260	1.424E-04	1.830E-04	1.627E-04	63	2.160	3.537E-05	5.119E-05	4.328E-05
15	0.280	2.819E-04	3.233E-04	3.026E-04	64	2.220	5.378E-05	6.931E-05	6.154E-05
16	0.300	4.985E-04	5.425E-04	5.205E-04	65	2.280	2.492E-05	3.644E-05	3.068E-05
17	0.320	4.818E-04	5.248E-04	5.033E-04	66	2.340	1.579E-06	1.082E-05	6.197E-06
18	0.340	2.903E-04	3.281E-04	3.092E-04	67	2.405	4.366E-06	1.468E-05	9.522E-06
19	0.360	2.142E-04	2.494E-04	2.318E-04	68	2.475	2.629E-06	1.212E-05	7.376E-06
20	0.380	1.496E-04	1.822E-04	1.659E-04	69	2.545	-1.240E-06	8.240E-06	3.500E-06
21	0.400	1.296E-04	1.630E-04	1.463E-04	70	2.615	1.518E-05	2.651E-05	2.085E-05
22	0.420	1.609E-04	1.943E-04	1.776E-04	71	2.685	1.301E-05	2.371E-05	1.836E-05
23	0.445	2.311E-04	2.651E-04	2.481E-04	72	2.755	2.906E-06	1.124E-05	7.074E-06
24	0.475	2.078E-04	2.399E-04	2.239E-04	73	2.825	3.170E-06	1.171E-05	7.439E-06
25	0.505	1.502E-04	1.802E-04	1.652E-04	74	2.895	9.623E-08	8.893E-06	4.495E-06
26	0.535	1.751E-04	2.043E-04	1.897E-04	75	2.965	-1.273E-06	6.047E-06	2.387E-06
27	0.565	1.220E-04	1.499E-04	1.359E-04	76	3.035	-1.654E-06	6.547E-06	2.446E-06
28	0.595	1.277E-04	1.548E-04	1.413E-04	77	3.110	-4.949E-06	2.867E-06	-1.041E-06
29	0.625	1.447E-04	1.725E-04	1.586E-04	78	3.190	-7.498E-06	1.945E-06	-2.776E-06
30	0.655	1.208E-04	1.468E-04	1.338E-04	79	3.270	-3.544E-06	4.205E-06	3.304E-07
31	0.685	7.057E-05	9.460E-05	8.259E-05	80	3.350	-2.367E-06	4.891E-06	1.262E-06
32	0.715	7.732E-05	1.014E-04	8.938E-05	81	3.430	-2.340E-06	4.963E-06	1.312E-06
33	0.745	1.183E-04	1.441E-04	1.312E-04	82	3.510	-4.890E-07	6.339E-06	2.925E-06
34	0.775	1.205E-04	1.453E-04	1.329E-04	83	3.590	2.700E-07	6.457E-06	3.364E-06
35	0.810	8.388E-05	1.093E-04	9.657E-05	84	3.670	-3.886E-07	5.570E-06	2.591E-06
36	0.850	1.681E-04	1.967E-04	1.824E-04	85	3.750	-1.592E-06	5.301E-06	1.854E-06
37	0.890	2.660E-04	2.967E-04	2.814E-04	86	3.830	-2.285E-06	4.568E-06	1.141E-06
38	0.930	2.379E-04	2.671E-04	2.525E-04	87	3.915	-2.914E-06	3.683E-06	3.842E-07
39	0.970	1.505E-04	1.757E-04	1.631E-04	88	4.005	-2.897E-06	4.206E-06	6.544E-07
40	1.010	1.460E-04	1.714E-04	1.587E-04	89	4.095	-1.541E-06	6.038E-06	2.249E-06
41	1.050	1.048E-04	1.274E-04	1.161E-04	90	4.185	-7.856E-07	7.373E-06	3.294E-06
42	1.090	7.143E-05	9.209E-05	8.176E-05	91	4.275	-1.878E-06	6.588E-06	2.355E-06
43	1.130	7.432E-05	9.425E-05	8.429E-05	92	4.365	-4.369E-06	4.148E-06	-1.104E-07
44	1.170	8.838E-05	1.081E-04	9.822E-05	93	4.455	-7.477E-06	1.356E-06	-3.060E-06
45	1.210	4.778E-05	6.484E-05	5.631E-05	94	4.550	-9.500E-06	-5.063E-07	-5.003E-06
46	1.250	5.603E-05	7.896E-05	6.750E-05	95	4.650	-7.912E-06	2.057E-07	-3.853E-06
47	1.295	5.712E-05	7.322E-05	6.517E-05	96	4.750	-3.826E-06	2.717E-06	-5.547E-07
48	1.345	2.734E-05	4.334E-05	3.534E-05	97	4.850	8.866E-08	5.310E-06	2.699E-06
49	1.395	3.575E-05	5.323E-05	4.449E-05	98	4.950	1.942E-06	6.337E-06	4.139E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3195 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.310E-06	1.330E-04	6.814E-05	50	1.445	9.200E-05	1.081E-04	1.000E-04
2	0.111	4.001E-05	1.121E-04	7.607E-05	51	1.495	5.551E-05	6.886E-05	6.219E-05
3	0.117	-4.713E-05	2.043E-04	7.857E-05	52	1.545	2.243E-05	3.351E-05	2.797E-05
4	0.125	4.076E-05	1.451E-04	9.294E-05	53	1.595	2.203E-05	3.371E-05	2.787E-05
5	0.135	3.119E-05	2.474E-04	1.393E-04	54	1.645	2.613E-05	3.761E-05	3.187E-05
6	0.145	3.571E-05	3.439E-04	1.898E-04	55	1.695	2.857E-05	4.042E-05	3.449E-05
7	0.155	1.235E-04	2.714E-04	1.974E-04	56	1.745	1.992E-05	3.090E-05	2.541E-05
8	0.165	1.468E-04	2.428E-04	1.948E-04	57	1.800	8.749E-06	1.922E-05	1.399E-05
9	0.175	1.203E-04	2.667E-04	1.935E-04	58	1.860	1.502E-05	2.561E-05	2.031E-05
10	0.185	1.438E-04	2.095E-04	1.766E-04	59	1.920	3.721E-06	1.297E-05	8.347E-06
11	0.200	1.493E-04	1.898E-04	1.696E-04	60	1.980	9.743E-07	9.983E-06	5.478E-06
12	0.220	1.009E-04	1.411E-04	1.210E-04	61	2.040	-5.488E-07	8.172E-06	3.812E-06
13	0.240	7.463E-05	1.082E-04	9.140E-05	62	2.100	3.980E-06	1.378E-05	8.880E-06
14	0.260	8.182E-05	1.113E-04	9.655E-05	63	2.160	1.414E-05	2.488E-05	1.951E-05
15	0.280	1.660E-04	1.959E-04	1.810E-04	64	2.220	2.838E-05	3.947E-05	3.393E-05
16	0.300	3.005E-04	3.323E-04	3.164E-04	65	2.280	2.440E-05	3.414E-05	2.927E-05
17	0.320	2.798E-04	3.106E-04	2.952E-04	66	2.340	8.391E-06	1.595E-05	1.217E-05
18	0.340	1.563E-04	1.831E-04	1.697E-04	67	2.405	2.866E-06	1.016E-05	6.511E-06
19	0.360	1.116E-04	1.369E-04	1.242E-04	68	2.475	3.900E-06	1.061E-05	7.254E-06
20	0.380	9.478E-05	1.191E-04	1.070E-04	69	2.545	5.943E-06	1.349E-05	9.715E-06
21	0.400	8.805E-05	1.131E-04	1.006E-04	70	2.615	7.292E-06	1.427E-05	1.078E-05
22	0.420	1.033E-04	1.282E-04	1.158E-04	71	2.685	5.520E-06	1.196E-05	8.739E-06
23	0.445	1.383E-04	1.633E-04	1.508E-04	72	2.755	-5.805E-07	5.093E-06	2.256E-06
24	0.475	1.349E-04	1.587E-04	1.468E-04	73	2.825	-1.707E-06	3.694E-06	9.935E-07
25	0.505	8.424E-05	1.063E-04	9.525E-05	74	2.895	-7.291E-07	4.326E-06	1.798E-06
26	0.535	1.031E-04	1.246E-04	1.139E-04	75	2.965	-8.584E-07	4.036E-06	1.589E-06
27	0.565	9.164E-05	1.127E-04	1.022E-04	76	3.035	-1.623E-06	4.467E-06	1.422E-06
28	0.595	5.982E-05	7.935E-05	6.958E-05	77	3.110	-1.142E-06	3.707E-06	1.283E-06
29	0.625	8.090E-05	1.014E-04	9.113E-05	78	3.190	-1.613E-06	3.496E-06	9.416E-07
30	0.655	9.489E-05	1.152E-04	1.050E-04	79	3.270	-1.149E-06	3.430E-06	1.141E-06
31	0.685	6.124E-05	7.994E-05	7.059E-05	80	3.350	-1.554E-06	4.279E-06	1.362E-06
32	0.715	6.687E-05	8.546E-05	7.617E-05	81	3.430	-2.213E-06	2.293E-06	3.979E-08
33	0.745	8.710E-05	1.066E-04	9.684E-05	82	3.510	-3.031E-06	1.050E-06	-9.906E-07
34	0.775	9.178E-05	1.109E-04	1.013E-04	83	3.590	-2.273E-06	1.546E-06	-3.637E-07
35	0.810	7.479E-05	9.474E-05	8.476E-05	84	3.670	-1.573E-06	2.514E-06	4.702E-07
36	0.850	1.390E-04	1.616E-04	1.503E-04	85	3.750	-7.886E-07	2.912E-06	1.062E-06
37	0.890	2.299E-04	2.546E-04	2.423E-04	86	3.830	-2.882E-07	4.110E-06	1.911E-06
38	0.930	1.694E-04	1.908E-04	1.801E-04	87	3.915	-3.235E-07	4.995E-06	2.336E-06
39	0.970	8.308E-05	1.007E-04	9.188E-05	88	4.005	-9.110E-07	3.338E-06	1.213E-06
40	1.010	7.886E-05	9.685E-05	8.785E-05	89	4.095	-2.067E-06	1.681E-06	-1.928E-07
41	1.050	5.266E-05	6.847E-05	6.056E-05	90	4.185	-2.590E-06	1.034E-06	-7.783E-07
42	1.090	3.814E-05	5.277E-05	4.545E-05	91	4.275	-2.596E-06	8.012E-07	-8.973E-07
43	1.130	4.061E-05	5.469E-05	4.765E-05	92	4.365	-2.001E-06	9.134E-07	-5.437E-07
44	1.170	2.406E-05	3.641E-05	3.024E-05	93	4.455	-1.581E-06	1.766E-06	9.289E-08
45	1.210	1.111E-05	2.249E-05	1.680E-05	94	4.550	-1.162E-06	2.144E-06	4.908E-07
46	1.250	1.966E-05	3.529E-05	2.747E-05	95	4.650	-7.248E-07	1.907E-06	5.910E-07
47	1.295	1.584E-05	2.646E-05	2.115E-05	96	4.750	-1.130E-07	1.554E-06	7.205E-07
48	1.345	1.161E-05	2.372E-05	1.767E-05	97	4.850	3.859E-07	1.573E-06	9.796E-07
49	1.395	5.394E-05	6.937E-05	6.166E-05	98	4.950	5.091E-07	1.518E-06	1.014E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 17 SEC

COUNTING TIME : 8 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	5.668E-02	8.137E-02	6.902E-02	50	1.445	6.573E-03	7.865E-03	7.219E-03
2	0.111	1.124E-02	2.350E-02	1.737E-02	51	1.495	4.363E-03	5.535E-03	4.949E-03
3	0.117	-2.759E-02	1.651E-02	-5.539E-03	52	1.545	3.869E-03	4.989E-03	4.429E-03
4	0.125	4.817E-02	6.816E-02	5.817E-02	53	1.595	3.235E-03	4.408E-03	3.822E-03
5	0.135	3.404E-02	6.171E-02	4.787E-02	54	1.645	2.831E-03	3.943E-03	3.387E-03
6	0.145	-1.375E-02	2.632E-02	6.282E-03	55	1.695	3.909E-03	5.051E-03	4.480E-03
7	0.155	2.758E-02	4.702E-02	3.730E-02	56	1.745	3.381E-03	4.534E-03	3.957E-03
8	0.165	1.741E-02	2.622E-02	2.182E-02	57	1.800	2.713E-03	3.844E-03	3.278E-03
9	0.175	1.012E-02	2.413E-02	1.713E-02	58	1.860	2.441E-03	3.583E-03	3.012E-03
10	0.185	2.077E-02	2.685E-02	2.381E-02	59	1.920	2.118E-03	3.253E-03	2.685E-03
11	0.200	2.252E-02	2.618E-02	2.435E-02	60	1.980	2.306E-03	3.377E-03	2.841E-03
12	0.220	1.932E-02	2.291E-02	2.112E-02	61	2.040	2.530E-03	3.608E-03	3.069E-03
13	0.240	1.579E-02	1.878E-02	1.729E-02	62	2.100	1.965E-03	3.006E-03	2.486E-03
14	0.260	2.028E-02	2.289E-02	2.158E-02	63	2.160	1.506E-03	2.551E-03	2.028E-03
15	0.280	1.991E-02	2.226E-02	2.109E-02	64	2.220	1.741E-03	2.756E-03	2.248E-03
16	0.300	1.253E-02	1.459E-02	1.356E-02	65	2.280	1.719E-03	2.771E-03	2.245E-03
17	0.320	8.203E-03	1.014E-02	9.173E-03	66	2.340	1.233E-03	2.284E-03	1.759E-03
18	0.340	1.062E-02	1.265E-02	1.163E-02	67	2.405	1.452E-03	2.522E-03	1.987E-03
19	0.360	1.516E-02	1.736E-02	1.626E-02	68	2.475	1.351E-03	2.363E-03	1.857E-03
20	0.380	1.935E-02	2.161E-02	2.048E-02	69	2.545	1.050E-03	2.026E-03	1.538E-03
21	0.400	1.909E-02	2.135E-02	2.022E-02	70	2.615	7.285E-04	1.640E-03	1.184E-03
22	0.420	1.500E-02	1.706E-02	1.603E-02	71	2.685	5.816E-04	1.505E-03	1.043E-03
23	0.445	1.325E-02	1.521E-02	1.423E-02	72	2.755	1.103E-03	2.003E-03	1.553E-03
24	0.475	1.192E-02	1.383E-02	1.287E-02	73	2.825	1.597E-03	2.506E-03	2.052E-03
25	0.505	1.591E-02	1.788E-02	1.690E-02	74	2.895	7.548E-04	1.639E-03	1.197E-03
26	0.535	1.793E-02	1.985E-02	1.889E-02	75	2.965	1.540E-04	9.161E-04	5.351E-04
27	0.565	1.366E-02	1.548E-02	1.457E-02	76	3.035	3.484E-04	1.160E-03	7.544E-04
28	0.595	1.373E-02	1.547E-02	1.460E-02	77	3.110	9.888E-05	8.402E-04	4.696E-04
29	0.625	1.158E-02	1.327E-02	1.242E-02	78	3.190	-2.726E-05	6.765E-04	3.246E-04
30	0.655	8.644E-03	1.020E-02	9.424E-03	79	3.270	9.818E-05	8.136E-04	4.559E-04
31	0.685	8.279E-03	9.823E-03	9.051E-03	80	3.350	-4.750E-05	5.527E-04	2.526E-04
32	0.715	8.723E-03	1.027E-02	9.497E-03	81	3.430	-3.507E-06	5.620E-04	2.793E-04
33	0.745	8.627E-03	1.019E-02	9.410E-03	82	3.510	2.688E-06	5.444E-04	2.736E-04
34	0.775	9.443E-03	1.101E-02	1.022E-02	83	3.590	2.068E-04	7.478E-04	4.773E-04
35	0.810	9.732E-03	1.131E-02	1.052E-02	84	3.670	3.737E-04	8.583E-04	6.160E-04
36	0.850	8.736E-03	1.029E-02	9.514E-03	85	3.750	3.278E-04	7.759E-04	5.519E-04
37	0.890	7.943E-03	9.471E-03	8.707E-03	86	3.830	2.232E-04	6.362E-04	4.297E-04
38	0.930	9.087E-03	1.067E-02	9.877E-03	87	3.915	7.307E-05	4.839E-04	2.785E-04
39	0.970	8.332E-03	9.844E-03	9.088E-03	88	4.005	1.031E-04	4.822E-04	2.927E-04
40	1.010	7.417E-03	8.952E-03	8.185E-03	89	4.095	1.209E-04	5.017E-04	3.113E-04
41	1.050	6.611E-03	8.047E-03	7.329E-03	90	4.185	3.766E-06	3.525E-04	1.781E-04
42	1.090	6.403E-03	7.800E-03	7.102E-03	91	4.275	-6.087E-05	2.697E-04	1.044E-04
43	1.130	7.111E-03	8.453E-03	7.782E-03	92	4.365	-1.080E-04	2.304E-04	6.122E-05
44	1.170	5.732E-03	6.988E-03	6.360E-03	93	4.455	-1.382E-04	1.694E-04	1.562E-05
45	1.210	5.639E-03	6.831E-03	6.235E-03	94	4.550	-1.653E-04	1.270E-04	-1.913E-05
46	1.250	5.750E-03	7.359E-03	6.555E-03	95	4.650	-1.645E-04	1.169E-04	-2.381E-05
47	1.295	4.829E-03	5.936E-03	5.383E-03	96	4.750	-5.039E-05	1.778E-04	6.368E-05
48	1.345	5.515E-03	6.784E-03	6.150E-03	97	4.850	9.946E-05	2.522E-04	1.758E-04
49	1.395	5.392E-03	6.664E-03	6.028E-03	98	4.950	1.706E-04	2.857E-04	2.281E-04



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 35 SEC

COUNTING TIME : 10 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	3.067E-02	4.442E-02	3.754E-02	50	1.445	4.513E-03	5.436E-03	4.974E-03
2	0.111	4.491E-03	1.152E-02	8.007E-03	51	1.495	3.459E-03	4.292E-03	3.876E-03
3	0.117	-1.754E-02	7.542E-03	-4.999E-03	52	1.545	2.405E-03	3.167E-03	2.786E-03
4	0.125	2.512E-02	3.631E-02	3.071E-02	53	1.595	1.716E-03	2.492E-03	2.104E-03
5	0.135	1.748E-02	3.356E-02	2.552E-02	54	1.645	1.820E-03	2.573E-03	2.196E-03
6	0.145	-9.524E-03	1.372E-02	2.096E-03	55	1.695	1.449E-03	2.166E-03	1.807E-03
7	0.155	1.506E-02	2.631E-02	2.068E-02	56	1.745	9.489E-04	1.679E-03	1.314E-03
8	0.165	9.911E-03	1.570E-02	1.281E-02	57	1.800	9.543E-04	1.704E-03	1.329E-03
9	0.175	6.191E-03	1.528E-02	1.074E-02	58	1.860	1.716E-03	2.538E-03	2.127E-03
10	0.185	1.291E-02	1.690E-02	1.490E-02	59	1.920	1.286E-03	2.056E-03	1.671E-03
11	0.200	1.397E-02	1.641E-02	1.519E-02	60	1.980	1.487E-03	2.251E-03	1.869E-03
12	0.220	1.097E-02	1.335E-02	1.216E-02	61	2.040	1.271E-03	1.997E-03	1.634E-03
13	0.240	7.938E-03	9.908E-03	8.923E-03	62	2.100	1.097E-03	1.840E-03	1.469E-03
14	0.260	1.065E-02	1.238E-02	1.151E-02	63	2.160	1.038E-03	1.764E-03	1.401E-03
15	0.280	1.102E-02	1.260E-02	1.181E-02	64	2.220	1.344E-03	2.078E-03	1.711E-03
16	0.300	7.862E-03	9.278E-03	8.570E-03	65	2.280	8.970E-04	1.611E-03	1.254E-03
17	0.320	6.536E-03	7.905E-03	7.221E-03	66	2.340	9.287E-04	1.639E-03	1.284E-03
18	0.340	7.514E-03	8.928E-03	8.221E-03	67	2.405	5.613E-04	1.318E-03	9.396E-04
19	0.360	1.018E-02	1.171E-02	1.095E-02	68	2.475	8.734E-04	1.590E-03	1.232E-03
20	0.380	1.292E-02	1.448E-02	1.370E-02	69	2.545	8.237E-04	1.531E-03	1.177E-03
21	0.400	1.204E-02	1.359E-02	1.281E-02	70	2.615	4.180E-04	1.074E-03	7.461E-04
22	0.420	9.131E-03	1.051E-02	9.821E-03	71	2.685	2.636E-04	8.919E-04	5.778E-04
23	0.445	7.991E-03	9.286E-03	8.638E-03	72	2.755	6.134E-04	1.253E-03	9.331E-04
24	0.475	5.534E-03	6.751E-03	6.143E-03	73	2.825	2.413E-04	8.390E-04	5.401E-04
25	0.505	6.497E-03	7.722E-03	7.109E-03	74	2.895	2.589E-04	8.740E-04	5.665E-04
26	0.535	8.043E-03	9.269E-03	8.656E-03	75	2.965	2.547E-04	8.717E-04	5.632E-04
27	0.565	7.503E-03	8.715E-03	8.109E-03	76	3.035	-1.559E-04	3.780E-04	1.110E-04
28	0.595	8.250E-03	9.434E-03	8.842E-03	77	3.110	4.299E-05	5.881E-04	3.155E-04
29	0.625	6.078E-03	7.196E-03	6.637E-03	78	3.190	2.442E-04	7.945E-04	5.193E-04
30	0.655	4.589E-03	5.639E-03	5.114E-03	79	3.270	3.952E-05	5.162E-04	2.779E-04
31	0.685	5.432E-03	6.497E-03	5.965E-03	80	3.350	1.193E-04	5.681E-04	3.437E-04
32	0.715	5.434E-03	6.483E-03	5.958E-03	81	3.430	2.352E-04	6.828E-04	4.590E-04
33	0.745	4.297E-03	5.330E-03	4.814E-03	82	3.510	1.890E-04	5.993E-04	3.942E-04
34	0.775	4.592E-03	5.623E-03	5.107E-03	83	3.590	2.350E-04	6.714E-04	4.532E-04
35	0.810	5.589E-03	6.673E-03	6.131E-03	84	3.670	2.828E-04	6.777E-04	4.803E-04
36	0.850	5.173E-03	6.234E-03	5.703E-03	85	3.750	1.097E-05	3.571E-04	1.840E-04
37	0.890	5.038E-03	6.099E-03	5.569E-03	86	3.830	-2.932E-04	3.966E-05	-1.268E-04
38	0.930	5.630E-03	6.721E-03	6.176E-03	87	3.915	-2.398E-04	8.911E-05	-7.533E-05
39	0.970	4.645E-03	5.677E-03	5.161E-03	88	4.005	-9.803E-05	2.731E-04	8.754E-05
40	1.010	4.853E-03	5.912E-03	5.382E-03	89	4.095	-9.142E-05	2.571E-04	8.283E-05
41	1.050	3.795E-03	4.764E-03	4.279E-03	90	4.185	-1.384E-05	2.937E-04	1.399E-04
42	1.090	2.492E-03	3.386E-03	2.939E-03	91	4.275	1.213E-04	4.274E-04	2.743E-04
43	1.130	3.176E-03	4.068E-03	3.622E-03	92	4.365	6.393E-05	3.424E-04	2.032E-04
44	1.170	3.480E-03	4.347E-03	3.914E-03	93	4.455	-1.096E-04	2.393E-04	6.486E-05
45	1.210	3.441E-03	4.264E-03	3.853E-03	94	4.550	-1.022E-04	1.876E-04	4.271E-05
46	1.250	2.982E-03	4.102E-03	3.542E-03	95	4.650	-3.298E-05	1.489E-04	5.798E-05
47	1.295	3.697E-03	4.491E-03	4.094E-03	96	4.750	3.621E-05	1.755E-04	1.058E-04
48	1.345	4.151E-03	5.050E-03	4.600E-03	97	4.850	8.122E-05	2.164E-04	1.488E-04
49	1.395	3.626E-03	4.511E-03	4.069E-03	98	4.950	8.386E-05	1.790E-04	1.314E-04

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 55 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.988E-02	2.771E-02	2.380E-02	50	1.445	2.888E-03	3.393E-03	3.140E-03
2	0.111	1.144E-03	5.063E-03	3.104E-03	51	1.495	2.090E-03	2.545E-03	2.317E-03
3	0.117	-1.458E-02	-1.773E-04	-7.378E-03	52	1.545	1.432E-03	1.855E-03	1.643E-03
4	0.125	1.468E-02	2.101E-02	1.785E-02	53	1.595	1.272E-03	1.701E-03	1.487E-03
5	0.135	1.085E-02	2.016E-02	1.551E-02	54	1.645	1.180E-03	1.605E-03	1.392E-03
6	0.145	-8.721E-03	4.735E-03	-1.993E-03	55	1.695	9.696E-04	1.375E-03	1.173E-03
7	0.155	9.715E-03	1.623E-02	1.297E-02	56	1.745	1.204E-03	1.636E-03	1.420E-03
8	0.165	6.282E-03	9.572E-03	7.927E-03	57	1.800	1.040E-03	1.467E-03	1.253E-03
9	0.175	4.237E-03	9.430E-03	6.833E-03	58	1.860	9.543E-04	1.399E-03	1.177E-03
10	0.185	8.361E-03	1.063E-02	9.496E-03	59	1.920	8.317E-04	1.260E-03	1.046E-03
11	0.200	9.407E-03	1.079E-02	1.010E-02	60	1.980	9.113E-04	1.306E-03	1.109E-03
12	0.220	7.606E-03	8.962E-03	8.284E-03	61	2.040	8.338E-04	1.244E-03	1.039E-03
13	0.240	5.901E-03	7.023E-03	6.462E-03	62	2.100	6.918E-04	1.087E-03	8.896E-04
14	0.260	7.228E-03	8.202E-03	7.715E-03	63	2.160	7.718E-04	1.181E-03	9.762E-04
15	0.280	7.356E-03	8.247E-03	7.801E-03	64	2.220	5.594E-04	9.374E-04	7.484E-04
16	0.300	5.790E-03	6.600E-03	6.195E-03	65	2.280	6.393E-04	1.048E-03	8.435E-04
17	0.320	5.285E-03	6.079E-03	5.682E-03	66	2.340	8.422E-04	1.258E-03	1.050E-03
18	0.340	5.705E-03	6.518E-03	6.112E-03	67	2.405	5.919E-04	1.001E-03	7.964E-04
19	0.360	7.237E-03	8.108E-03	7.673E-03	68	2.475	3.857E-04	7.624E-04	5.741E-04
20	0.380	9.199E-03	1.009E-02	9.645E-03	69	2.545	3.269E-04	6.990E-04	5.129E-04
21	0.400	8.872E-03	9.756E-03	9.314E-03	70	2.615	3.894E-04	7.440E-04	5.667E-04
22	0.420	6.465E-03	7.237E-03	6.851E-03	71	2.685	3.146E-04	6.626E-04	4.886E-04
23	0.445	4.941E-03	5.652E-03	5.297E-03	72	2.755	5.153E-04	8.724E-04	6.938E-04
24	0.475	3.692E-03	4.364E-03	4.028E-03	73	2.825	3.508E-04	6.867E-04	5.187E-04
25	0.505	3.955E-03	4.626E-03	4.290E-03	74	2.895	3.032E-04	6.365E-04	4.698E-04
26	0.535	4.624E-03	5.288E-03	4.956E-03	75	2.965	2.862E-04	6.057E-04	4.459E-04
27	0.565	4.838E-03	5.510E-03	5.174E-03	76	3.035	1.128E-04	4.132E-04	2.630E-04
28	0.595	5.512E-03	6.173E-03	5.842E-03	77	3.110	-1.302E-04	1.261E-04	-2.059E-06
29	0.625	4.103E-03	4.727E-03	4.415E-03	78	3.190	4.484E-06	2.776E-04	1.411E-04
30	0.655	2.767E-03	3.345E-03	3.056E-03	79	3.270	1.099E-04	3.790E-04	2.444E-04
31	0.685	3.238E-03	3.827E-03	3.533E-03	80	3.350	1.212E-04	3.632E-04	2.422E-04
32	0.715	3.910E-03	4.510E-03	4.210E-03	81	3.430	9.972E-05	3.194E-04	2.096E-04
33	0.745	3.268E-03	3.853E-03	3.560E-03	82	3.510	-1.527E-05	1.838E-04	8.424E-05
34	0.775	2.961E-03	3.530E-03	3.246E-03	83	3.590	9.213E-05	3.006E-04	1.963E-04
35	0.810	3.228E-03	3.815E-03	3.521E-03	84	3.670	1.334E-04	3.211E-04	2.273E-04
36	0.850	3.096E-03	3.680E-03	3.388E-03	85	3.750	3.863E-05	2.031E-04	1.208E-04
37	0.890	3.055E-03	3.643E-03	3.349E-03	86	3.830	2.473E-05	1.734E-04	9.908E-05
38	0.930	3.701E-03	4.308E-03	4.005E-03	87	3.915	3.802E-05	1.900E-04	1.140E-04
39	0.970	3.158E-03	3.735E-03	3.447E-03	88	4.005	1.275E-05	1.573E-04	8.505E-05
40	1.010	2.785E-03	3.371E-03	3.078E-03	89	4.095	5.451E-05	1.866E-04	1.206E-04
41	1.050	2.612E-03	3.166E-03	2.889E-03	90	4.185	7.237E-05	2.137E-04	1.430E-04
42	1.090	2.409E-03	2.942E-03	2.676E-03	91	4.275	1.355E-05	1.400E-04	7.680E-05
43	1.130	2.492E-03	2.997E-03	2.744E-03	92	4.365	-4.035E-05	7.253E-05	1.609E-05
44	1.170	2.405E-03	2.890E-03	2.648E-03	93	4.455	-6.899E-05	5.081E-05	-9.089E-06
45	1.210	1.973E-03	2.424E-03	2.198E-03	94	4.550	-7.045E-05	3.695E-05	-1.675E-05
46	1.250	2.210E-03	2.848E-03	2.529E-03	95	4.650	-4.595E-05	5.182E-05	2.935E-06
47	1.295	2.803E-03	3.257E-03	3.030E-03	96	4.750	-6.456E-06	6.880E-05	3.117E-05
48	1.345	2.660E-03	3.164E-03	2.912E-03	97	4.850	3.352E-05	8.956E-05	6.154E-05
49	1.395	2.518E-03	3.013E-03	2.765E-03	98	4.950	4.859E-05	9.569E-05	7.214E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 95 SEC

COUNTING TIME : 20 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	9.386E-03	1.407E-02	1.173E-02	50	1.445	1.709E-03	2.107E-03	1.908E-03
2	0.111	9.386E-04	3.449E-03	2.194E-03	51	1.495	1.298E-03	1.647E-03	1.473E-03
3	0.117	-5.964E-03	2.738E-03	-1.613E-03	52	1.545	7.331E-04	1.053E-03	8.929E-04
4	0.125	6.413E-03	1.019E-02	8.302E-03	53	1.595	5.937E-04	9.210E-04	7.573E-04
5	0.135	3.989E-03	9.942E-03	6.965E-03	54	1.645	6.493E-04	9.712E-04	8.102E-04
6	0.145	-3.186E-03	5.424E-03	1.119E-03	55	1.695	5.822E-04	9.020E-04	7.421E-04
7	0.155	4.230E-03	8.313E-03	6.272E-03	56	1.745	5.875E-04	9.101E-04	7.488E-04
8	0.165	3.425E-03	5.943E-03	4.684E-03	57	1.800	5.908E-04	9.244E-04	7.576E-04
9	0.175	2.987E-03	6.883E-03	4.935E-03	58	1.860	3.044E-04	6.161E-04	4.603E-04
10	0.185	4.918E-03	6.650E-03	5.784E-03	59	1.920	3.794E-04	7.100E-04	5.447E-04
11	0.200	5.858E-03	6.938E-03	6.398E-03	60	1.980	6.023E-04	9.237E-04	7.630E-04
12	0.220	4.364E-03	5.431E-03	4.898E-03	61	2.040	5.485E-04	8.665E-04	7.075E-04
13	0.240	3.215E-03	4.102E-03	3.658E-03	62	2.100	3.649E-04	6.691E-04	5.170E-04
14	0.260	4.158E-03	4.936E-03	4.547E-03	63	2.160	3.192E-04	6.295E-04	4.743E-04
15	0.280	4.648E-03	5.372E-03	5.010E-03	64	2.220	3.327E-04	6.258E-04	4.793E-04
16	0.300	4.065E-03	4.736E-03	4.401E-03	65	2.280	5.082E-04	8.142E-04	6.612E-04
17	0.320	4.049E-03	4.712E-03	4.380E-03	66	2.340	2.706E-04	5.715E-04	4.211E-04
18	0.340	4.147E-03	4.815E-03	4.481E-03	67	2.405	2.858E-04	5.998E-04	4.428E-04
19	0.360	4.554E-03	5.247E-03	4.901E-03	68	2.475	1.506E-04	4.226E-04	2.866E-04
20	0.380	4.869E-03	5.555E-03	5.212E-03	69	2.545	2.798E-04	5.709E-04	4.253E-04
21	0.400	4.670E-03	5.359E-03	5.014E-03	70	2.615	4.643E-04	7.494E-04	6.069E-04
22	0.420	4.125E-03	4.756E-03	4.441E-03	71	2.685	2.979E-04	5.727E-04	4.353E-04
23	0.445	3.730E-03	4.321E-03	4.025E-03	72	2.755	1.111E-04	3.571E-04	2.341E-04
24	0.475	2.414E-03	2.959E-03	2.686E-03	73	2.825	1.085E-04	3.625E-04	2.355E-04
25	0.505	2.466E-03	3.003E-03	2.734E-03	74	2.895	4.506E-05	3.022E-04	1.736E-04
26	0.535	3.143E-03	3.682E-03	3.412E-03	75	2.965	8.794E-06	2.354E-04	1.221E-04
27	0.565	3.035E-03	3.571E-03	3.303E-03	76	3.035	-2.038E-05	2.111E-04	9.535E-05
28	0.595	3.305E-03	3.831E-03	3.568E-03	77	3.110	-1.187E-04	7.581E-05	-2.143E-05
29	0.625	2.713E-03	3.217E-03	2.965E-03	78	3.190	-1.170E-04	9.305E-05	-1.195E-05
30	0.655	1.822E-03	2.286E-03	2.054E-03	79	3.270	-4.995E-05	1.572E-04	5.365E-05
31	0.685	1.918E-03	2.385E-03	2.152E-03	80	3.350	1.259E-06	1.983E-04	9.977E-05
32	0.715	2.361E-03	2.835E-03	2.598E-03	81	3.430	8.773E-05	2.767E-04	1.822E-04
33	0.745	2.218E-03	2.688E-03	2.453E-03	82	3.510	1.089E-04	2.730E-04	1.909E-04
34	0.775	1.487E-03	1.926E-03	1.707E-03	83	3.590	5.711E-05	2.028E-04	1.300E-04
35	0.810	1.856E-03	2.327E-03	2.092E-03	84	3.670	9.383E-05	2.452E-04	1.695E-04
36	0.850	2.296E-03	2.773E-03	2.535E-03	85	3.750	1.073E-04	2.494E-04	1.783E-04
37	0.890	2.250E-03	2.725E-03	2.487E-03	86	3.830	5.036E-05	1.887E-04	1.195E-04
38	0.930	1.815E-03	2.283E-03	2.049E-03	87	3.915	1.212E-05	1.400E-04	7.606E-05
39	0.970	2.389E-03	2.866E-03	2.628E-03	88	4.005	-6.098E-05	6.693E-05	2.980E-06
40	1.010	2.130E-03	2.606E-03	2.368E-03	89	4.095	-9.128E-05	3.003E-05	-3.063E-05
41	1.050	1.687E-03	2.126E-03	1.906E-03	90	4.185	-6.027E-05	7.224E-05	5.986E-06
42	1.090	1.400E-03	1.811E-03	1.605E-03	91	4.275	-4.218E-05	8.932E-05	2.357E-05
43	1.130	1.492E-03	1.887E-03	1.690E-03	92	4.365	-3.876E-05	8.503E-05	2.313E-05
44	1.170	1.283E-03	1.649E-03	1.466E-03	93	4.455	-4.737E-05	6.894E-05	1.078E-05
45	1.210	1.088E-03	1.438E-03	1.263E-03	94	4.550	-5.657E-05	5.746E-05	4.452E-07
46	1.250	1.036E-03	1.520E-03	1.278E-03	95	4.650	-5.254E-05	6.255E-05	5.004E-06
47	1.295	1.653E-03	2.012E-03	1.833E-03	96	4.750	-2.569E-05	6.256E-05	1.843E-05
48	1.345	1.663E-03	2.053E-03	1.858E-03	97	4.850	1.986E-05	7.875E-05	4.931E-05
49	1.395	1.564E-03	1.952E-03	1.758E-03	98	4.950	5.057E-05	9.185E-05	7.121E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 155 SEC

COUNTING TIME : 40 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.769E-03	7.440E-03	6.104E-03	50	1.445	1.117E-03	1.326E-03	1.221E-03
2	0.111	6.278E-04	2.004E-03	1.316E-03	51	1.495	7.241E-04	9.044E-04	8.143E-04
3	0.117	-2.997E-03	1.997E-03	-5.003E-04	52	1.545	5.225E-04	6.928E-04	6.076E-04
4	0.125	3.330E-03	5.461E-03	4.395E-03	53	1.595	3.128E-04	4.762E-04	3.945E-04
5	0.135	2.189E-03	5.607E-03	3.898E-03	54	1.645	3.039E-04	4.656E-04	3.847E-04
6	0.145	-1.466E-03	3.477E-03	1.006E-03	55	1.695	3.902E-04	5.569E-04	4.735E-04
7	0.155	2.593E-03	4.975E-03	3.784E-03	56	1.745	3.497E-04	5.126E-04	4.312E-04
8	0.165	2.431E-03	3.790E-03	3.111E-03	57	1.800	2.846E-04	4.465E-04	3.655E-04
9	0.175	1.858E-03	3.970E-03	2.914E-03	58	1.860	1.357E-04	2.953E-04	2.155E-04
10	0.185	3.032E-03	3.964E-03	3.498E-03	59	1.920	1.823E-04	3.451E-04	2.637E-04
11	0.200	3.229E-03	3.803E-03	3.516E-03	60	1.980	2.840E-04	4.425E-04	3.632E-04
12	0.220	2.309E-03	2.877E-03	2.593E-03	61	2.040	3.039E-04	4.649E-04	3.844E-04
13	0.240	1.802E-03	2.278E-03	2.040E-03	62	2.100	2.256E-04	3.825E-04	3.040E-04
14	0.260	2.541E-03	2.962E-03	2.751E-03	63	2.160	2.818E-04	4.454E-04	3.636E-04
15	0.280	2.852E-03	3.245E-03	3.048E-03	64	2.220	3.037E-04	4.543E-04	3.790E-04
16	0.300	2.562E-03	2.927E-03	2.745E-03	65	2.280	1.604E-04	3.059E-04	2.331E-04
17	0.320	2.525E-03	2.885E-03	2.705E-03	66	2.340	1.459E-04	2.947E-04	2.203E-04
18	0.340	2.705E-03	3.068E-03	2.887E-03	67	2.405	1.453E-04	2.960E-04	2.207E-04
19	0.360	2.552E-03	2.918E-03	2.735E-03	68	2.475	1.433E-04	2.820E-04	2.126E-04
20	0.380	2.381E-03	2.737E-03	2.559E-03	69	2.545	1.634E-04	3.110E-04	2.372E-04
21	0.400	2.431E-03	2.794E-03	2.612E-03	70	2.615	8.281E-05	2.096E-04	1.462E-04
22	0.420	2.404E-03	2.747E-03	2.575E-03	71	2.685	8.255E-05	2.149E-04	1.487E-04
23	0.445	2.350E-03	2.677E-03	2.513E-03	72	2.755	4.187E-05	1.681E-04	1.050E-04
24	0.475	1.833E-03	2.137E-03	1.985E-03	73	2.825	6.540E-05	1.889E-04	1.272E-04
25	0.505	1.415E-03	1.702E-03	1.559E-03	74	2.895	1.472E-05	1.344E-04	7.456E-05
26	0.535	1.358E-03	1.634E-03	1.496E-03	75	2.965	-3.416E-05	7.450E-05	2.017E-05
27	0.565	1.655E-03	1.940E-03	1.798E-03	76	3.035	1.612E-06	1.106E-04	5.610E-05
28	0.595	1.970E-03	2.254E-03	2.112E-03	77	3.110	1.245E-05	1.188E-04	6.560E-05
29	0.625	1.460E-03	1.730E-03	1.595E-03	78	3.190	4.687E-05	1.527E-04	9.981E-05
30	0.655	1.198E-03	1.455E-03	1.327E-03	79	3.270	6.425E-05	1.694E-04	1.168E-04
31	0.685	1.387E-03	1.649E-03	1.518E-03	80	3.350	3.825E-05	1.262E-04	8.222E-05
32	0.715	1.778E-03	2.045E-03	1.912E-03	81	3.430	-3.980E-06	8.660E-05	4.131E-05
33	0.745	1.323E-03	1.578E-03	1.451E-03	82	3.510	-3.295E-06	7.015E-05	3.343E-05
34	0.775	1.199E-03	1.444E-03	1.322E-03	83	3.590	1.002E-06	8.097E-05	4.099E-05
35	0.810	1.231E-03	1.489E-03	1.360E-03	84	3.670	-1.800E-05	5.471E-05	1.836E-05
36	0.850	1.531E-03	1.793E-03	1.662E-03	85	3.750	6.857E-06	7.074E-05	3.880E-05
37	0.890	1.440E-03	1.697E-03	1.568E-03	86	3.830	2.052E-05	8.519E-05	5.286E-05
38	0.930	1.485E-03	1.746E-03	1.615E-03	87	3.915	1.660E-05	8.256E-05	4.958E-05
39	0.970	1.322E-03	1.572E-03	1.447E-03	88	4.005	1.422E-05	9.069E-05	5.246E-05
40	1.010	1.334E-03	1.588E-03	1.461E-03	89	4.095	-1.121E-07	6.136E-05	3.062E-05
41	1.050	1.095E-03	1.332E-03	1.214E-03	90	4.185	-2.010E-05	3.596E-05	7.931E-06
42	1.090	9.530E-04	1.172E-03	1.062E-03	91	4.275	-4.050E-05	1.573E-05	-1.239E-05
43	1.130	9.954E-04	1.209E-03	1.102E-03	92	4.365	-4.842E-05	9.050E-06	-1.968E-05
44	1.170	7.109E-04	9.013E-04	8.061E-04	93	4.455	-4.209E-05	1.565E-05	-1.322E-05
45	1.210	6.787E-04	8.623E-04	7.705E-04	94	4.550	-2.597E-05	2.306E-05	-1.455E-06
46	1.250	7.136E-04	9.646E-04	8.391E-04	95	4.650	-1.929E-06	3.989E-05	1.898E-05
47	1.295	7.747E-04	9.513E-04	8.630E-04	96	4.750	1.320E-05	4.956E-05	3.138E-05
48	1.345	7.339E-04	9.310E-04	8.324E-04	97	4.850	1.585E-05	4.103E-05	2.844E-05
49	1.395	9.026E-04	1.105E-03	1.004E-03	98	4.950	1.386E-05	3.010E-05	2.198E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 255 SEC

COUNTING TIME : 60 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.489E-03	3.099E-03	2.294E-03	50	1.445	4.095E-04	5.256E-04	4.676E-04
2	0.111	8.652E-04	1.695E-03	1.280E-03	51	1.495	2.917E-04	3.970E-04	3.443E-04
3	0.117	8.493E-05	3.109E-03	1.597E-03	52	1.545	1.826E-04	2.811E-04	2.319E-04
4	0.125	1.183E-03	2.465E-03	1.824E-03	53	1.595	2.396E-04	3.471E-04	2.934E-04
5	0.135	2.147E-04	2.342E-03	1.278E-03	54	1.645	2.506E-04	3.563E-04	3.035E-04
6	0.145	7.609E-04	3.835E-03	2.298E-03	55	1.695	2.648E-04	3.705E-04	3.176E-04
7	0.155	8.468E-04	2.322E-03	1.584E-03	56	1.745	2.473E-04	3.542E-04	3.008E-04
8	0.165	1.249E-03	2.120E-03	1.684E-03	57	1.800	2.597E-04	3.659E-04	3.128E-04
9	0.175	1.583E-03	2.933E-03	2.258E-03	58	1.860	9.273E-05	1.884E-04	1.406E-04
10	0.185	1.660E-03	2.258E-03	1.959E-03	59	1.920	1.602E-04	2.605E-04	2.104E-04
11	0.200	1.895E-03	2.264E-03	2.079E-03	60	1.980	1.641E-04	2.583E-04	2.112E-04
12	0.220	1.303E-03	1.675E-03	1.489E-03	61	2.040	1.833E-04	2.766E-04	2.300E-04
13	0.240	1.346E-03	1.660E-03	1.503E-03	62	2.100	1.491E-04	2.432E-04	1.962E-04
14	0.260	1.585E-03	1.857E-03	1.721E-03	63	2.160	1.108E-04	2.016E-04	1.562E-04
15	0.280	1.775E-03	2.030E-03	1.903E-03	64	2.220	1.291E-04	2.173E-04	1.732E-04
16	0.300	1.876E-03	2.120E-03	1.998E-03	65	2.280	1.266E-04	2.153E-04	1.709E-04
17	0.320	1.927E-03	2.168E-03	2.048E-03	66	2.340	1.042E-04	1.905E-04	1.473E-04
18	0.340	1.802E-03	2.038E-03	1.920E-03	67	2.405	5.201E-05	1.363E-04	9.416E-05
19	0.360	1.540E-03	1.770E-03	1.655E-03	68	2.475	3.836E-05	1.127E-04	7.555E-05
20	0.380	1.153E-03	1.369E-03	1.261E-03	69	2.545	1.177E-05	8.382E-05	4.780E-05
21	0.400	1.118E-03	1.339E-03	1.229E-03	70	2.615	3.528E-05	1.096E-04	7.246E-05
22	0.420	1.300E-03	1.517E-03	1.408E-03	71	2.685	5.111E-05	1.254E-04	8.826E-05
23	0.445	1.521E-03	1.734E-03	1.628E-03	72	2.755	6.565E-05	1.381E-04	1.019E-04
24	0.475	1.217E-03	1.414E-03	1.315E-03	73	2.825	7.215E-05	1.482E-04	1.102E-04
25	0.505	8.225E-04	1.006E-03	9.140E-04	74	2.895	4.051E-05	1.092E-04	7.485E-05
26	0.535	8.507E-04	1.029E-03	9.397E-04	75	2.965	-7.980E-06	5.588E-05	2.395E-05
27	0.565	1.111E-03	1.296E-03	1.204E-03	76	3.035	-2.653E-05	3.096E-05	2.216E-06
28	0.595	1.092E-03	1.270E-03	1.181E-03	77	3.110	-2.591E-05	3.165E-05	2.870E-06
29	0.625	8.595E-04	1.031E-03	9.452E-04	78	3.190	-1.200E-05	4.691E-05	1.746E-05
30	0.655	6.822E-04	8.452E-04	7.637E-04	79	3.270	-4.066E-06	5.295E-05	2.444E-05
31	0.685	7.728E-04	9.381E-04	8.555E-04	80	3.350	-2.676E-05	2.609E-05	-3.385E-07
32	0.715	1.013E-03	1.184E-03	1.099E-03	81	3.430	-1.626E-05	3.957E-05	1.166E-05
33	0.745	9.315E-04	1.097E-03	1.014E-03	82	3.510	1.495E-05	6.432E-05	3.964E-05
34	0.775	6.808E-04	8.382E-04	7.595E-04	83	3.590	1.518E-05	6.267E-05	3.892E-05
35	0.810	8.279E-04	9.947E-04	9.113E-04	84	3.670	1.043E-06	3.979E-05	2.042E-05
36	0.850	1.071E-03	1.243E-03	1.157E-03	85	3.750	-6.901E-06	3.210E-05	1.260E-05
37	0.890	1.068E-03	1.240E-03	1.154E-03	86	3.830	-3.725E-07	3.820E-05	1.891E-05
38	0.930	1.080E-03	1.252E-03	1.166E-03	87	3.915	4.731E-06	4.754E-05	2.614E-05
39	0.970	1.055E-03	1.220E-03	1.137E-03	88	4.005	-2.272E-07	3.947E-05	1.962E-05
40	1.010	8.919E-04	1.051E-03	9.716E-04	89	4.095	2.000E-06	3.590E-05	1.895E-05
41	1.050	5.705E-04	7.122E-04	6.414E-04	90	4.185	4.641E-06	4.185E-05	2.325E-05
42	1.090	5.052E-04	6.393E-04	5.722E-04	91	4.275	-4.877E-06	3.482E-05	1.497E-05
43	1.130	5.345E-04	6.652E-04	5.998E-04	92	4.365	-1.712E-05	1.752E-05	2.027E-07
44	1.170	5.273E-04	6.508E-04	5.890E-04	93	4.455	-2.521E-05	6.960E-06	-9.126E-06
45	1.210	4.900E-04	6.081E-04	5.491E-04	94	4.550	-2.899E-05	2.045E-06	-1.347E-05
46	1.250	4.265E-04	5.830E-04	5.047E-04	95	4.650	-2.353E-05	7.675E-06	-7.927E-06
47	1.295	4.837E-04	5.944E-04	5.391E-04	96	4.750	-6.550E-06	1.805E-05	5.751E-06
48	1.345	3.743E-04	4.896E-04	4.320E-04	97	4.850	8.492E-06	2.580E-05	1.714E-05
49	1.395	4.106E-04	5.302E-04	4.704E-04	98	4.950	1.218E-05	2.602E-05	1.910E-05

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 395 SEC

COUNTING TIME : 100 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	8.163E-04	1.864E-03	1.340E-03	50	1.445	3.219E-04	3.972E-04	3.596E-04
2	0.111	5.362E-04	1.065E-03	8.004E-04	51	1.495	2.172E-04	2.830E-04	2.501E-04
3	0.117	1.770E-04	2.152E-03	1.164E-03	52	1.545	1.472E-04	2.110E-04	1.791E-04
4	0.125	6.662E-04	1.493E-03	1.079E-03	53	1.595	9.369E-05	1.563E-04	1.250E-04
5	0.135	2.641E-05	1.423E-03	7.246E-04	54	1.645	1.670E-04	2.333E-04	2.001E-04
6	0.145	7.066E-04	2.721E-03	1.714E-03	55	1.695	1.634E-04	2.285E-04	1.960E-04
7	0.155	5.117E-04	1.489E-03	1.000E-03	56	1.745	1.696E-04	2.370E-04	2.033E-04
8	0.165	9.137E-04	1.461E-03	1.188E-03	57	1.800	1.642E-04	2.304E-04	1.973E-04
9	0.175	1.180E-03	2.031E-03	1.606E-03	58	1.860	1.005E-04	1.625E-04	1.315E-04
10	0.185	1.117E-03	1.492E-03	1.305E-03	59	1.920	6.918E-05	1.288E-04	9.898E-05
11	0.200	1.247E-03	1.477E-03	1.362E-03	60	1.980	1.206E-04	1.787E-04	1.497E-04
12	0.220	7.360E-04	9.665E-04	8.513E-04	61	2.040	1.003E-04	1.595E-04	1.299E-04
13	0.240	8.308E-04	1.027E-03	9.286E-04	62	2.100	1.012E-04	1.590E-04	1.301E-04
14	0.260	9.574E-04	1.127E-03	1.042E-03	63	2.160	1.230E-04	1.854E-04	1.542E-04
15	0.280	1.201E-03	1.363E-03	1.282E-03	64	2.220	1.364E-04	1.911E-04	1.637E-04
16	0.300	1.478E-03	1.637E-03	1.557E-03	65	2.280	1.206E-04	1.765E-04	1.485E-04
17	0.320	1.427E-03	1.582E-03	1.505E-03	66	2.340	5.119E-05	1.009E-04	7.606E-05
18	0.340	1.128E-03	1.275E-03	1.202E-03	67	2.405	9.921E-06	5.822E-05	3.407E-05
19	0.360	9.707E-04	1.114E-03	1.042E-03	68	2.475	-1.913E-05	2.138E-05	1.124E-06
20	0.380	7.005E-04	8.343E-04	7.674E-04	69	2.545	2.048E-05	6.839E-05	4.444E-05
21	0.400	6.180E-04	7.549E-04	6.864E-04	70	2.615	5.625E-05	1.025E-04	7.936E-05
22	0.420	8.357E-04	9.741E-04	9.049E-04	71	2.685	1.928E-05	6.226E-05	4.077E-05
23	0.445	1.135E-03	1.274E-03	1.204E-03	72	2.755	8.129E-06	4.962E-05	2.887E-05
24	0.475	9.063E-04	1.035E-03	9.705E-04	73	2.825	2.392E-05	6.687E-05	4.539E-05
25	0.505	6.026E-04	7.205E-04	6.615E-04	74	2.895	2.683E-05	7.192E-05	4.937E-05
26	0.535	5.604E-04	6.732E-04	6.168E-04	75	2.965	1.569E-05	5.629E-05	3.599E-05
27	0.565	6.113E-04	7.255E-04	6.684E-04	76	3.035	-6.724E-06	2.810E-05	1.069E-05
28	0.595	7.785E-04	8.933E-04	8.359E-04	77	3.110	-1.387E-05	1.951E-05	2.823E-06
29	0.625	5.719E-04	6.813E-04	6.266E-04	78	3.190	-5.927E-06	2.982E-05	1.195E-05
30	0.655	4.290E-04	5.324E-04	4.807E-04	79	3.270	-2.245E-06	2.969E-05	1.372E-05
31	0.685	5.169E-04	6.229E-04	5.699E-04	80	3.350	3.799E-06	3.426E-05	1.903E-05
32	0.715	6.762E-04	7.844E-04	7.303E-04	81	3.430	9.946E-06	4.384E-05	2.689E-05
33	0.745	6.139E-04	7.199E-04	6.669E-04	82	3.510	6.925E-06	3.465E-05	2.079E-05
34	0.775	4.882E-04	5.891E-04	5.386E-04	83	3.590	-1.113E-06	2.400E-05	1.145E-05
35	0.810	5.602E-04	6.678E-04	6.140E-04	84	3.670	4.094E-06	2.886E-05	1.648E-05
36	0.850	7.678E-04	8.802E-04	8.240E-04	85	3.750	1.625E-06	2.383E-05	1.273E-05
37	0.890	8.883E-04	1.003E-03	9.458E-04	86	3.830	-7.025E-06	1.386E-05	3.417E-06
38	0.930	8.478E-04	9.610E-04	9.044E-04	87	3.915	-8.790E-06	1.043E-05	8.199E-07
39	0.970	7.502E-04	8.564E-04	8.033E-04	88	4.005	-2.204E-06	1.687E-05	7.334E-06
40	1.010	6.378E-04	7.405E-04	6.892E-04	89	4.095	5.561E-06	2.426E-05	1.491E-05
41	1.050	4.816E-04	5.749E-04	5.282E-04	90	4.185	2.795E-06	2.294E-05	1.287E-05
42	1.090	3.962E-04	4.823E-04	4.393E-04	91	4.275	1.322E-06	1.856E-05	9.940E-06
43	1.130	3.354E-04	4.164E-04	3.759E-04	92	4.365	-4.212E-06	1.183E-05	3.811E-06
44	1.170	3.129E-04	3.899E-04	3.514E-04	93	4.455	-1.196E-05	2.938E-06	-4.512E-06
45	1.210	3.746E-04	4.509E-04	4.127E-04	94	4.550	-1.374E-05	-1.941E-07	-6.967E-06
46	1.250	3.176E-04	4.168E-04	3.672E-04	95	4.650	-9.121E-06	4.135E-06	-2.493E-06
47	1.295	3.124E-04	3.812E-04	3.468E-04	96	4.750	-1.732E-06	8.668E-06	3.468E-06
48	1.345	2.356E-04	3.075E-04	2.716E-04	97	4.850	3.297E-06	1.107E-05	7.186E-06
49	1.395	2.888E-04	3.645E-04	3.267E-04	98	4.950	4.678E-06	1.047E-05	7.576E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 595 SEC

COUNTING TIME : 200 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.205E-04	8.892E-04	5.548E-04	50	1.445	1.836E-04	2.260E-04	2.048E-04
2	0.111	4.800E-04	8.065E-04	6.432E-04	51	1.495	1.465E-04	1.851E-04	1.658E-04
3	0.117	6.073E-04	1.871E-03	1.239E-03	52	1.545	1.274E-04	1.655E-04	1.464E-04
4	0.125	1.559E-04	6.802E-04	4.181E-04	53	1.595	1.269E-04	1.656E-04	1.463E-04
5	0.135	-2.986E-04	5.939E-04	1.476E-04	54	1.645	1.079E-04	1.459E-04	1.269E-04
6	0.145	8.535E-04	2.138E-03	1.496E-03	55	1.695	1.670E-04	2.077E-04	1.873E-04
7	0.155	1.448E-04	7.719E-04	4.584E-04	56	1.745	1.459E-04	1.849E-04	1.654E-04
8	0.165	6.934E-04	1.017E-03	8.552E-04	57	1.800	1.231E-04	1.596E-04	1.414E-04
9	0.175	9.172E-04	1.423E-03	1.170E-03	58	1.860	5.545E-05	9.041E-05	7.293E-05
10	0.185	8.388E-04	1.060E-03	9.496E-04	59	1.920	2.956E-05	6.200E-05	4.578E-05
11	0.200	8.609E-04	9.951E-04	9.280E-04	60	1.980	3.070E-05	6.225E-05	4.647E-05
12	0.220	4.976E-04	6.327E-04	5.652E-04	61	2.040	7.662E-05	1.102E-04	9.343E-05
13	0.240	5.782E-04	6.935E-04	6.358E-04	62	2.100	5.955E-05	9.308E-05	7.632E-05
14	0.260	7.411E-04	8.422E-04	7.917E-04	63	2.160	9.182E-05	1.275E-04	1.096E-04
15	0.280	8.987E-04	9.950E-04	9.469E-04	64	2.220	1.160E-04	1.499E-04	1.329E-04
16	0.300	1.125E-03	1.220E-03	1.172E-03	65	2.280	4.795E-05	7.646E-05	6.221E-05
17	0.320	1.107E-03	1.201E-03	1.154E-03	66	2.340	3.107E-05	6.003E-05	4.555E-05
18	0.340	8.937E-04	9.822E-04	9.380E-04	67	2.405	3.411E-05	6.325E-05	4.868E-05
19	0.360	7.946E-04	8.807E-04	8.377E-04	68	2.475	2.892E-05	5.578E-05	4.235E-05
20	0.380	5.486E-04	6.277E-04	5.881E-04	69	2.545	2.172E-05	4.685E-05	3.429E-05
21	0.400	4.439E-04	5.235E-04	4.837E-04	70	2.615	3.345E-05	5.881E-05	4.613E-05
22	0.420	5.595E-04	6.394E-04	5.995E-04	71	2.685	3.344E-05	5.916E-05	4.630E-05
23	0.445	7.934E-04	8.739E-04	8.336E-04	72	2.755	1.405E-05	3.555E-05	2.480E-05
24	0.475	6.125E-04	6.868E-04	6.496E-04	73	2.825	6.223E-06	2.906E-05	1.764E-05
25	0.505	4.555E-04	5.251E-04	4.903E-04	74	2.895	4.912E-06	2.602E-05	1.547E-05
26	0.535	4.771E-04	5.446E-04	5.109E-04	75	2.965	6.007E-06	2.774E-05	1.687E-05
27	0.565	4.451E-04	5.122E-04	4.786E-04	76	3.035	-6.670E-06	1.107E-05	2.199E-06
28	0.595	5.208E-04	5.875E-04	5.541E-04	77	3.110	-7.965E-06	9.218E-06	6.265E-07
29	0.625	4.357E-04	5.004E-04	4.681E-04	78	3.190	1.547E-06	2.087E-05	1.121E-05
30	0.655	3.567E-04	4.178E-04	3.873E-04	79	3.270	2.587E-06	2.132E-05	1.195E-05
31	0.685	3.021E-04	3.612E-04	3.317E-04	80	3.350	2.673E-06	1.740E-05	1.004E-05
32	0.715	3.498E-04	4.093E-04	3.796E-04	81	3.430	8.176E-06	2.467E-05	1.642E-05
33	0.745	3.431E-04	4.027E-04	3.729E-04	82	3.510	1.994E-06	1.679E-05	9.394E-06
34	0.775	3.436E-04	4.024E-04	3.730E-04	83	3.590	-2.142E-06	1.370E-05	5.778E-06
35	0.810	3.477E-04	4.094E-04	3.786E-04	84	3.670	5.699E-06	1.770E-05	1.170E-05
36	0.850	5.530E-04	6.192E-04	5.861E-04	85	3.750	5.551E-06	1.725E-05	1.140E-05
37	0.890	6.244E-04	6.917E-04	6.581E-04	86	3.830	-1.360E-06	8.953E-06	3.797E-06
38	0.930	6.209E-04	6.876E-04	6.543E-04	87	3.915	-4.952E-06	4.787E-06	-8.225E-08
39	0.970	5.421E-04	6.039E-04	5.730E-04	88	4.005	-1.971E-06	7.633E-06	2.831E-06
40	1.010	4.199E-04	4.799E-04	4.499E-04	89	4.095	-1.181E-06	8.343E-06	3.581E-06
41	1.050	4.069E-04	4.632E-04	4.350E-04	90	4.185	-2.008E-06	6.740E-06	2.366E-06
42	1.090	2.661E-04	3.160E-04	2.911E-04	91	4.275	-1.332E-06	7.190E-06	2.929E-06
43	1.130	2.089E-04	2.547E-04	2.318E-04	92	4.365	-2.576E-07	7.971E-06	3.856E-06
44	1.170	2.833E-04	3.299E-04	3.066E-04	93	4.455	-2.879E-07	6.830E-06	3.271E-06
45	1.210	1.889E-04	2.310E-04	2.099E-04	94	4.550	-2.445E-06	3.957E-06	7.560E-07
46	1.250	2.156E-04	2.722E-04	2.439E-04	95	4.650	-3.486E-06	2.768E-06	-3.589E-07
47	1.295	2.368E-04	2.779E-04	2.574E-04	96	4.750	-1.927E-06	3.081E-06	5.769E-07
48	1.345	1.895E-04	2.328E-04	2.111E-04	97	4.850	3.008E-07	3.432E-06	1.866E-06
49	1.395	2.027E-04	2.457E-04	2.242E-04	98	4.950	1.624E-06	3.882E-06	2.753E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 995 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.086E-04	6.045E-04	4.066E-04	50	1.445	1.481E-04	1.729E-04	1.605E-04
2	0.111	1.870E-04	3.752E-04	2.811E-04	51	1.495	1.082E-04	1.303E-04	1.193E-04
3	0.117	1.001E-04	8.533E-04	4.767E-04	52	1.545	7.313E-05	9.371E-05	8.342E-05
4	0.125	1.637E-04	4.708E-04	3.173E-04	53	1.595	6.811E-05	8.977E-05	7.894E-05
5	0.135	-5.961E-05	4.825E-04	2.114E-04	54	1.645	9.265E-05	1.148E-04	1.037E-04
6	0.145	3.598E-04	1.139E-03	7.492E-04	55	1.695	1.028E-04	1.244E-04	1.136E-04
7	0.155	1.832E-04	5.648E-04	3.740E-04	56	1.745	8.056E-05	1.020E-04	9.129E-05
8	0.165	4.311E-04	6.122E-04	5.217E-04	57	1.800	7.378E-05	9.428E-05	8.403E-05
9	0.175	5.723E-04	8.583E-04	7.153E-04	58	1.860	3.543E-05	5.409E-05	4.476E-05
10	0.185	5.410E-04	6.656E-04	6.033E-04	59	1.920	2.169E-05	4.013E-05	3.091E-05
11	0.200	5.800E-04	6.548E-04	6.174E-04	60	1.980	4.739E-05	6.587E-05	5.663E-05
12	0.220	3.215E-04	3.960E-04	3.588E-04	61	2.040	5.419E-05	7.319E-05	6.369E-05
13	0.240	3.439E-04	4.074E-04	3.756E-04	62	2.100	5.777E-05	7.669E-05	6.723E-05
14	0.260	4.412E-04	4.971E-04	4.691E-04	63	2.160	5.264E-05	7.149E-05	6.206E-05
15	0.280	6.120E-04	6.669E-04	6.395E-04	64	2.220	5.336E-05	7.074E-05	6.205E-05
16	0.300	8.855E-04	9.415E-04	9.135E-04	65	2.280	5.512E-05	7.277E-05	6.395E-05
17	0.320	8.619E-04	9.169E-04	8.894E-04	66	2.340	3.453E-05	5.003E-05	4.228E-05
18	0.340	6.200E-04	6.706E-04	6.453E-04	67	2.405	2.082E-05	3.543E-05	2.812E-05
19	0.360	5.410E-04	5.894E-04	5.652E-04	68	2.475	1.415E-05	2.823E-05	2.119E-05
20	0.380	3.799E-04	4.237E-04	4.018E-04	69	2.545	1.480E-05	2.833E-05	2.157E-05
21	0.400	2.347E-04	2.771E-04	2.559E-04	70	2.615	1.832E-05	3.182E-05	2.507E-05
22	0.420	2.830E-04	3.252E-04	3.041E-04	71	2.685	1.052E-05	2.247E-05	1.650E-05
23	0.445	4.251E-04	4.683E-04	4.467E-04	72	2.755	7.356E-06	1.902E-05	1.319E-05
24	0.475	3.635E-04	4.041E-04	3.838E-04	73	2.825	6.039E-06	1.671E-05	1.138E-05
25	0.505	2.901E-04	3.289E-04	3.095E-04	74	2.895	-1.315E-06	9.293E-06	3.989E-06
26	0.535	3.340E-04	3.723E-04	3.532E-04	75	2.965	-2.589E-06	6.349E-06	1.880E-06
27	0.565	3.117E-04	3.495E-04	3.306E-04	76	3.035	-2.620E-06	7.102E-06	2.241E-06
28	0.595	2.970E-04	3.335E-04	3.153E-04	77	3.110	1.554E-08	8.680E-06	4.348E-06
29	0.625	2.716E-04	3.076E-04	2.896E-04	78	3.190	7.604E-06	1.676E-05	1.218E-05
30	0.655	2.784E-04	3.131E-04	2.958E-04	79	3.270	7.215E-06	1.606E-05	1.164E-05
31	0.685	1.583E-04	1.900E-04	1.741E-04	80	3.350	6.494E-06	1.515E-05	1.082E-05
32	0.715	1.714E-04	2.030E-04	1.872E-04	81	3.430	1.812E-06	9.143E-06	5.477E-06
33	0.745	1.995E-04	2.321E-04	2.158E-04	82	3.510	-6.138E-07	7.785E-06	3.586E-06
34	0.775	2.070E-04	2.391E-04	2.231E-04	83	3.590	2.621E-07	7.319E-06	3.791E-06
35	0.810	2.210E-04	2.551E-04	2.381E-04	84	3.670	-3.201E-06	4.365E-06	5.818E-07
36	0.850	3.165E-04	3.527E-04	3.346E-04	85	3.750	-3.785E-06	3.095E-06	-3.450E-07
37	0.890	4.274E-04	4.660E-04	4.467E-04	86	3.830	-2.237E-06	3.652E-06	7.076E-07
38	0.930	4.718E-04	5.102E-04	4.910E-04	87	3.915	-2.038E-06	3.265E-06	6.137E-07
39	0.970	3.537E-04	3.883E-04	3.710E-04	88	4.005	-2.047E-06	4.088E-06	1.021E-06
40	1.010	2.534E-04	2.858E-04	2.696E-04	89	4.095	-1.901E-07	6.031E-06	2.921E-06
41	1.050	2.282E-04	2.584E-04	2.433E-04	90	4.185	-2.739E-07	7.386E-06	3.556E-06
42	1.090	1.417E-04	1.685E-04	1.551E-04	91	4.275	-1.300E-06	3.471E-06	1.085E-06
43	1.130	1.395E-04	1.652E-04	1.523E-04	92	4.365	-2.267E-06	6.225E-07	-8.224E-07
44	1.170	1.387E-04	1.633E-04	1.510E-04	93	4.455	-1.421E-06	1.298E-06	-6.168E-08
45	1.210	1.135E-04	1.365E-04	1.250E-04	94	4.550	-1.792E-07	2.637E-06	1.229E-06
46	1.250	1.319E-04	1.633E-04	1.476E-04	95	4.650	5.772E-07	2.562E-06	1.569E-06
47	1.295	1.317E-04	1.538E-04	1.427E-04	96	4.750	7.434E-07	2.287E-06	1.515E-06
48	1.345	1.077E-04	1.314E-04	1.196E-04	97	4.850	4.872E-07	1.691E-06	1.089E-06
49	1.395	1.124E-04	1.360E-04	1.242E-04	98	4.950	2.181E-07	8.418E-07	5.300E-07



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 1795 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.688E-04	4.041E-04	2.864E-04	50	1.445	1.068E-04	1.273E-04	1.170E-04
2	0.111	4.138E-05	1.584E-04	9.987E-05	51	1.495	8.005E-05	9.801E-05	8.903E-05
3	0.117	-1.275E-04	3.233E-04	9.790E-05	52	1.545	5.045E-05	6.736E-05	5.891E-05
4	0.125	8.174E-05	2.598E-04	1.708E-04	53	1.595	4.265E-05	5.970E-05	5.117E-05
5	0.135	-9.771E-06	3.342E-04	1.622E-04	54	1.645	7.358E-05	9.190E-05	8.274E-05
6	0.145	7.770E-05	5.724E-04	3.251E-04	55	1.695	6.484E-05	8.208E-05	7.346E-05
7	0.155	1.657E-04	4.062E-04	2.859E-04	56	1.745	3.555E-05	5.123E-05	4.339E-05
8	0.165	2.624E-04	4.023E-04	3.323E-04	57	1.800	2.743E-05	4.305E-05	3.524E-05
9	0.175	3.192E-04	5.354E-04	4.273E-04	58	1.860	2.660E-05	4.176E-05	3.418E-05
10	0.185	3.225E-04	4.181E-04	3.703E-04	59	1.920	1.957E-05	3.436E-05	2.697E-05
11	0.200	3.425E-04	4.011E-04	3.718E-04	60	1.980	2.396E-05	3.822E-05	3.109E-05
12	0.220	1.787E-04	2.373E-04	2.080E-04	61	2.040	3.042E-05	4.457E-05	3.749E-05
13	0.240	1.817E-04	2.315E-04	2.066E-04	62	2.100	1.431E-05	2.736E-05	2.084E-05
14	0.260	2.185E-04	2.623E-04	2.404E-04	63	2.160	3.125E-05	4.659E-05	3.892E-05
15	0.280	3.811E-04	4.254E-04	4.033E-04	64	2.220	4.943E-05	6.474E-05	5.709E-05
16	0.300	6.251E-04	6.716E-04	6.484E-04	65	2.280	3.180E-05	4.430E-05	3.805E-05
17	0.320	5.892E-04	6.343E-04	6.117E-04	66	2.340	1.406E-05	2.539E-05	1.973E-05
18	0.340	3.810E-04	4.211E-04	4.011E-04	67	2.405	9.951E-06	2.074E-05	1.535E-05
19	0.360	3.015E-04	3.392E-04	3.204E-04	68	2.475	3.540E-06	1.346E-05	8.499E-06
20	0.380	2.023E-04	2.365E-04	2.194E-04	69	2.545	4.814E-06	1.432E-05	9.567E-06
21	0.400	1.365E-04	1.701E-04	1.533E-04	70	2.615	6.670E-06	1.721E-05	1.194E-05
22	0.420	1.614E-04	1.950E-04	1.782E-04	71	2.685	6.148E-06	1.570E-05	1.092E-05
23	0.445	2.686E-04	3.034E-04	2.860E-04	72	2.755	6.221E-06	1.518E-05	1.070E-05
24	0.475	2.274E-04	2.601E-04	2.437E-04	73	2.825	1.388E-06	9.545E-06	5.467E-06
25	0.505	1.631E-04	1.937E-04	1.784E-04	74	2.895	1.094E-06	1.033E-05	5.710E-06
26	0.535	2.036E-04	2.341E-04	2.188E-04	75	2.965	-4.954E-07	7.252E-06	3.378E-06
27	0.565	1.785E-04	2.082E-04	1.934E-04	76	3.035	-2.125E-06	5.069E-06	1.472E-06
28	0.595	1.637E-04	1.923E-04	1.780E-04	77	3.110	-1.760E-06	6.165E-06	2.203E-06
29	0.625	1.560E-04	1.845E-04	1.703E-04	78	3.190	-4.351E-08	6.800E-06	3.378E-06
30	0.655	1.543E-04	1.818E-04	1.680E-04	79	3.270	1.843E-06	8.194E-06	5.018E-06
31	0.685	1.031E-04	1.287E-04	1.159E-04	80	3.350	4.150E-07	5.924E-06	3.170E-06
32	0.715	9.186E-05	1.171E-04	1.045E-04	81	3.430	-1.713E-06	4.016E-06	1.151E-06
33	0.745	1.454E-04	1.724E-04	1.589E-04	82	3.510	-4.494E-07	4.760E-06	2.155E-06
34	0.775	1.678E-04	1.945E-04	1.811E-04	83	3.590	1.021E-06	6.853E-06	3.937E-06
35	0.810	1.037E-04	1.299E-04	1.168E-04	84	3.670	1.537E-06	5.690E-06	3.613E-06
36	0.850	2.059E-04	2.352E-04	2.205E-04	85	3.750	2.985E-07	4.062E-06	2.180E-06
37	0.890	2.942E-04	3.260E-04	3.101E-04	86	3.830	-9.696E-07	2.619E-06	8.249E-07
38	0.930	2.963E-04	3.269E-04	3.116E-04	87	3.915	-1.565E-06	1.766E-06	1.009E-07
39	0.970	2.083E-04	2.353E-04	2.218E-04	88	4.005	-1.225E-06	2.409E-06	5.919E-07
40	1.010	1.477E-04	1.736E-04	1.607E-04	89	4.095	-5.030E-07	3.079E-06	1.288E-06
41	1.050	1.518E-04	1.765E-04	1.641E-04	90	4.185	-3.306E-07	2.936E-06	1.303E-06
42	1.090	9.887E-05	1.209E-04	1.099E-04	91	4.275	-8.698E-07	2.495E-06	8.127E-07
43	1.130	8.379E-05	1.040E-04	9.389E-05	92	4.365	-1.498E-06	1.728E-06	1.148E-07
44	1.170	8.607E-05	1.059E-04	9.597E-05	93	4.455	-2.305E-06	8.539E-07	-7.257E-07
45	1.210	4.967E-05	6.699E-05	5.833E-05	94	4.550	-3.031E-06	1.462E-07	-1.442E-06
46	1.250	4.884E-05	7.298E-05	6.091E-05	95	4.650	-2.561E-06	2.529E-07	-1.154E-06
47	1.295	7.854E-05	9.565E-05	8.709E-05	96	4.750	-1.138E-06	1.132E-06	-3.086E-09
48	1.345	5.417E-05	7.240E-05	6.329E-05	97	4.850	2.525E-07	1.945E-06	1.099E-06
49	1.395	5.845E-05	7.745E-05	6.795E-05	98	4.950	8.195E-07	2.231E-06	1.525E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 2695 SEC

COUNTING TIME : 500 SEC

ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			ENERGY NO. (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
	LOWER	UPPER	CENTER		LOWER	UPPER	CENTER
1 0.105	1.882E-04	3.388E-04	2.635E-04	50 1.445	8.720E-05	1.026E-04	9.488E-05
2 0.111	-9.749E-06	6.879E-05	2.952E-05	51 1.495	6.525E-05	7.835E-05	7.180E-05
3 0.117	-2.101E-04	7.777E-05	-6.616E-05	52 1.545	2.368E-05	3.474E-05	2.921E-05
4 0.125	9.608E-05	2.103E-04	1.532E-04	53 1.595	2.346E-05	3.508E-05	2.927E-05
5 0.135	6.568E-05	2.900E-04	1.778E-04	54 1.645	3.821E-05	5.084E-05	4.453E-05
6 0.145	-5.587E-05	2.662E-04	1.052E-04	55 1.695	3.508E-05	4.694E-05	4.101E-05
7 0.155	1.474E-04	3.027E-04	2.251E-04	56 1.745	2.683E-05	3.879E-05	3.281E-05
8 0.165	1.517E-04	2.479E-04	1.998E-04	57 1.800	1.917E-05	2.989E-05	2.453E-05
9 0.175	1.701E-04	3.177E-04	2.439E-04	58 1.860	9.645E-06	1.987E-05	1.476E-05
10 0.185	1.815E-04	2.473E-04	2.144E-04	59 1.920	5.487E-06	1.553E-05	1.051E-05
11 0.200	1.895E-04	2.300E-04	2.098E-04	60 1.980	3.432E-06	1.267E-05	8.052E-06
12 0.220	8.836E-05	1.289E-04	1.086E-04	61 2.040	8.752E-06	1.834E-05	1.355E-05
13 0.240	9.082E-05	1.255E-04	1.082E-04	62 2.100	1.933E-05	3.007E-05	2.470E-05
14 0.260	1.180E-04	1.487E-04	1.333E-04	63 2.160	1.958E-05	3.058E-05	2.508E-05
15 0.280	2.268E-04	2.582E-04	2.425E-04	64 2.220	3.475E-05	4.552E-05	4.013E-05
16 0.300	3.773E-04	4.102E-04	3.938E-04	65 2.280	2.325E-05	3.277E-05	2.801E-05
17 0.320	3.469E-04	3.786E-04	3.627E-04	66 2.340	5.367E-06	1.299E-05	9.177E-06
18 0.340	2.123E-04	2.403E-04	2.263E-04	67 2.405	6.510E-06	1.476E-05	1.063E-05
19 0.360	1.657E-04	1.920E-04	1.789E-04	68 2.475	1.408E-06	8.140E-06	4.774E-06
20 0.380	1.087E-04	1.326E-04	1.207E-04	69 2.545	-1.928E-06	4.455E-06	1.264E-06
21 0.400	6.048E-05	8.396E-05	7.222E-05	70 2.615	1.643E-06	8.614E-06	5.129E-06
22 0.420	8.487E-05	1.089E-04	9.686E-05	71 2.685	1.134E-06	8.902E-06	5.018E-06
23 0.445	1.663E-04	1.917E-04	1.790E-04	72 2.755	1.653E-06	8.507E-06	5.080E-06
24 0.475	1.550E-04	1.790E-04	1.670E-04	73 2.825	-1.476E-06	5.621E-06	2.073E-06
25 0.505	1.103E-04	1.328E-04	1.215E-04	74 2.895	-7.763E-07	6.093E-06	2.658E-06
26 0.535	1.241E-04	1.460E-04	1.350E-04	75 2.965	9.794E-07	7.047E-06	4.013E-06
27 0.565	1.018E-04	1.230E-04	1.124E-04	76 3.035	1.063E-06	7.140E-06	4.101E-06
28 0.595	8.975E-05	1.101E-04	9.991E-05	77 3.110	3.605E-07	6.100E-06	3.230E-06
29 0.625	9.554E-05	1.163E-04	1.059E-04	78 3.190	-4.645E-07	5.824E-06	2.680E-06
30 0.655	1.108E-04	1.312E-04	1.210E-04	79 3.270	3.134E-07	6.536E-06	3.424E-06
31 0.685	7.562E-05	9.464E-05	8.513E-05	80 3.350	2.202E-07	6.447E-06	3.334E-06
32 0.715	6.719E-05	8.565E-05	7.642E-05	81 3.430	-2.591E-07	6.120E-06	2.931E-06
33 0.745	9.727E-05	1.170E-04	1.071E-04	82 3.510	-1.723E-06	4.963E-06	1.620E-06
34 0.775	1.065E-04	1.260E-04	1.163E-04	83 3.590	-3.023E-06	3.503E-06	2.398E-07
35 0.810	9.728E-05	1.179E-04	1.076E-04	84 3.670	-3.919E-06	2.501E-06	-7.085E-07
36 0.850	1.648E-04	1.871E-04	1.760E-04	85 3.750	-5.536E-06	1.263E-06	-2.137E-06
37 0.890	2.314E-04	2.552E-04	2.433E-04	86 3.830	-6.702E-06	4.191E-07	-3.141E-06
38 0.930	1.858E-04	2.079E-04	1.969E-04	87 3.915	-5.150E-06	6.137E-07	-2.268E-06
39 0.970	1.327E-04	1.519E-04	1.423E-04	88 4.005	-3.324E-06	3.338E-06	6.652E-09
40 1.010	1.024E-04	1.211E-04	1.117E-04	89 4.095	-1.471E-06	5.460E-06	1.994E-06
41 1.050	8.061E-05	9.757E-05	8.909E-05	90 4.185	7.087E-08	6.761E-06	3.416E-06
42 1.090	6.818E-05	8.389E-05	7.604E-05	91 4.275	3.931E-07	7.255E-06	3.824E-06
43 1.130	3.563E-05	4.921E-05	4.242E-05	92 4.365	5.848E-08	5.169E-06	2.614E-06
44 1.170	3.573E-05	4.884E-05	4.229E-05	93 4.455	-1.015E-06	1.950E-06	4.677E-07
45 1.210	3.631E-05	4.919E-05	4.275E-05	94 4.550	-2.515E-06	2.729E-07	-1.121E-06
46 1.250	2.591E-05	4.212E-05	3.401E-05	95 4.650	-2.549E-06	3.501E-07	-1.099E-06
47 1.295	3.517E-05	4.684E-05	4.100E-05	96 4.750	-1.388E-06	9.631E-07	-2.127E-07
48 1.345	3.157E-05	4.475E-05	3.816E-05	97 4.850	4.489E-08	1.436E-06	7.403E-07
49 1.395	4.379E-05	5.787E-05	5.083E-05	98 4.950	7.454E-07	1.882E-06	1.314E-06

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 10 SEC

WAITING TIME : 3795 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.279E-04	2.190E-04	1.735E-04	50	1.445	5.515E-05	6.651E-05	6.083E-05
2	0.111	-4.898E-05	6.979E-07	-2.414E-05	51	1.495	3.777E-05	4.749E-05	4.263E-05
3	0.117	-2.096E-04	-3.375E-05	-1.217E-04	52	1.545	1.371E-05	2.157E-05	1.764E-05
4	0.125	5.697E-05	1.264E-04	9.168E-05	53	1.595	1.100E-05	1.962E-05	1.531E-05
5	0.135	7.233E-05	2.219E-04	1.471E-04	54	1.645	2.379E-05	3.336E-05	2.858E-05
6	0.145	-8.779E-05	1.260E-04	1.910E-05	55	1.695	2.543E-05	3.430E-05	2.986E-05
7	0.155	1.315E-04	2.345E-04	1.830E-04	56	1.745	1.414E-05	2.249E-05	1.831E-05
8	0.165	1.169E-04	1.859E-04	1.514E-04	57	1.800	6.069E-06	1.362E-05	9.843E-06
9	0.175	8.260E-05	1.867E-04	1.346E-04	58	1.860	4.695E-06	1.233E-05	8.511E-06
10	0.185	1.107E-04	1.575E-04	1.341E-04	59	1.920	9.406E-06	1.729E-05	1.335E-05
11	0.200	1.366E-04	1.359E-04	1.213E-04	60	1.980	5.944E-06	1.296E-05	9.454E-06
12	0.220	5.074E-05	7.996E-05	6.535E-05	61	2.040	7.626E-06	1.501E-05	1.132E-05
13	0.240	4.373E-05	6.865E-05	5.619E-05	62	2.100	1.227E-05	1.991E-05	1.609E-05
14	0.260	6.518E-05	8.744E-05	7.631E-05	63	2.160	1.919E-05	2.798E-05	2.358E-05
15	0.280	1.366E-04	1.594E-04	1.480E-04	64	2.220	1.859E-05	2.589E-05	2.224E-05
16	0.300	2.198E-04	2.433E-04	2.315E-04	65	2.280	1.726E-05	2.446E-05	2.086E-05
17	0.320	1.909E-04	2.133E-04	2.021E-04	66	2.340	7.469E-06	1.272E-05	1.009E-05
18	0.340	1.048E-04	1.244E-04	1.146E-04	67	2.405	3.250E-06	8.227E-06	5.738E-06
19	0.360	7.581E-05	9.445E-05	8.513E-05	68	2.475	8.590E-07	5.136E-06	2.997E-06
20	0.380	5.849E-05	7.643E-05	6.746E-05	69	2.545	1.446E-06	5.880E-06	3.663E-06
21	0.400	6.678E-05	8.568E-05	7.623E-05	70	2.615	1.344E-07	4.785E-06	2.460E-06
22	0.420	7.858E-05	9.748E-05	8.803E-05	71	2.685	-1.210E-06	3.422E-06	1.106E-06
23	0.445	1.173E-04	1.364E-04	1.268E-04	72	2.755	-1.313E-06	4.060E-06	1.374E-06
24	0.475	9.199E-05	1.097E-04	1.008E-04	73	2.825	-1.567E-06	2.689E-06	5.610E-06
25	0.505	5.828E-05	7.480E-05	6.654E-05	74	2.895	-1.004E-06	3.189E-06	1.092E-06
26	0.535	8.509E-05	1.018E-04	9.344E-05	75	2.965	-7.480E-07	3.511E-06	1.382E-06
27	0.565	8.045E-05	9.696E-05	8.871E-05	76	3.035	-1.255E-06	2.295E-06	5.201E-07
28	0.595	5.965E-05	7.503E-05	6.734E-05	77	3.110	-1.448E-06	2.614E-06	5.828E-07
29	0.625	6.667E-05	8.240E-05	7.453E-05	78	3.190	-1.560E-06	2.773E-06	6.064E-07
30	0.655	6.595E-05	8.104E-05	7.349E-05	79	3.270	-9.779E-07	3.442E-06	1.232E-06
31	0.685	4.226E-05	5.633E-05	4.929E-05	80	3.350	-6.701E-07	3.774E-06	1.552E-06
32	0.715	4.107E-05	5.479E-05	4.793E-05	81	3.430	-9.707E-07	2.945E-06	9.870E-07
33	0.745	6.334E-05	7.815E-05	7.074E-05	82	3.510	-9.374E-07	2.931E-06	9.970E-07
34	0.775	6.651E-05	8.095E-05	7.373E-05	83	3.590	-6.516E-07	2.691E-06	1.020E-06
35	0.810	6.029E-05	7.578E-05	6.804E-05	84	3.670	-1.250E-06	1.690E-06	2.200E-07
36	0.850	1.126E-04	1.299E-04	1.212E-04	85	3.750	-1.750E-06	1.340E-06	-2.053E-07
37	0.890	1.779E-04	1.966E-04	1.873E-04	86	3.830	-1.911E-06	1.296E-06	-3.074E-07
38	0.930	1.459E-04	1.629E-04	1.544E-04	87	3.915	-1.918E-06	1.538E-06	-1.900E-07
39	0.970	8.168E-05	9.586E-05	8.877E-05	88	4.005	-1.673E-06	1.938E-06	1.326E-07
40	1.010	6.772E-05	8.169E-05	7.471E-05	89	4.095	-1.015E-06	1.822E-06	4.037E-07
41	1.050	6.442E-05	7.730E-05	7.086E-05	90	4.185	-4.093E-07	2.176E-06	8.833E-07
42	1.090	3.625E-05	4.756E-05	4.191E-05	91	4.275	-2.255E-08	2.685E-06	1.331E-06
43	1.130	2.531E-05	3.573E-05	3.052E-05	92	4.365	2.209E-08	2.603E-06	1.313E-06
44	1.170	3.336E-05	4.367E-05	3.852E-05	93	4.455	-6.615E-07	1.896E-06	6.172E-07
45	1.210	2.639E-05	3.568E-05	3.103E-05	94	4.550	-1.627E-06	5.401E-07	-5.435E-07
46	1.250	1.301E-05	2.420E-05	1.860E-05	95	4.650	-1.902E-06	1.988E-07	-8.514E-07
47	1.295	8.100E-06	1.577E-05	1.193E-05	96	4.750	-1.099E-06	6.156E-07	-2.417E-07
48	1.345	1.714E-05	2.670E-05	2.192E-05	97	4.850	-1.590E-08	1.059E-06	5.215E-07
49	1.395	3.137E-05	4.217E-05	3.677E-05	98	4.950	5.047E-07	1.404E-06	9.544E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 950 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.129E-03	-8.379E-04	-9.834E-04	50	1.445	1.514E-04	1.604E-04	1.559E-04
2	0.111	7.691E-04	9.453E-04	8.572E-04	51	1.495	1.079E-04	1.160E-04	1.120E-04
3	0.117	2.975E-03	3.430E-03	3.203E-03	52	1.545	8.450E-05	9.213E-05	8.832E-05
4	0.125	-7.661E-04	-4.855E-04	-6.258E-04	53	1.595	7.289E-05	8.063E-05	7.676E-05
5	0.135	-1.533E-03	-1.101E-03	-1.317E-03	54	1.645	7.687E-05	8.451E-05	8.069E-05
6	0.145	2.839E-03	3.406E-03	3.123E-03	55	1.695	8.283E-05	9.042E-05	8.662E-05
7	0.155	-8.988E-04	-6.049E-04	-7.519E-04	56	1.745	7.984E-05	8.740E-05	8.362E-05
8	0.165	4.094E-04	5.023E-04	4.559E-04	57	1.800	6.637E-05	7.358E-05	6.997E-05
9	0.175	9.471E-04	1.103E-03	1.025E-03	58	1.860	4.614E-05	5.313E-05	4.963E-05
10	0.185	4.706E-04	5.373E-04	5.040E-04	59	1.920	4.337E-05	5.029E-05	4.683E-05
11	0.200	5.919E-04	6.285E-04	6.102E-04	60	1.980	5.210E-05	5.868E-05	5.539E-05
12	0.220	3.354E-04	3.696E-04	3.525E-04	61	2.040	6.431E-05	7.109E-05	6.770E-05
13	0.240	3.982E-04	4.276E-04	4.129E-04	62	2.100	4.824E-05	5.469E-05	5.146E-05
14	0.260	4.683E-04	4.950E-04	4.817E-04	63	2.160	4.745E-05	5.395E-05	5.070E-05
15	0.280	6.935E-04	7.216E-04	7.076E-04	64	2.220	4.493E-05	5.099E-05	4.796E-05
16	0.300	9.652E-04	9.952E-04	9.802E-04	65	2.280	3.660E-05	4.236E-05	3.948E-05
17	0.320	8.432E-04	8.699E-04	8.566E-04	66	2.340	3.097E-05	3.667E-05	3.382E-05
18	0.340	6.009E-04	6.225E-04	6.117E-04	67	2.405	1.818E-05	2.371E-05	2.095E-05
19	0.360	5.079E-04	5.268E-04	5.174E-04	68	2.475	1.884E-05	2.414E-05	2.149E-05
20	0.380	3.359E-04	3.525E-04	3.442E-04	69	2.545	2.200E-05	2.733E-05	2.466E-05
21	0.400	2.929E-04	3.096E-04	3.012E-04	70	2.615	2.414E-05	2.934E-05	2.674E-05
22	0.420	3.786E-04	3.954E-04	3.870E-04	71	2.685	2.374E-05	2.881E-05	2.627E-05
23	0.445	4.844E-04	5.011E-04	4.928E-04	72	2.755	1.610E-05	2.049E-05	1.829E-05
24	0.475	3.806E-04	3.962E-04	3.884E-04	73	2.825	7.609E-06	1.155E-05	9.582E-06
25	0.505	3.165E-04	3.313E-04	3.239E-04	74	2.895	5.514E-06	9.411E-06	7.462E-06
26	0.535	3.323E-04	3.469E-04	3.396E-04	75	2.965	1.852E-06	5.661E-06	3.757E-06
27	0.565	3.261E-04	3.406E-04	3.334E-04	76	3.035	-4.372E-07	3.128E-06	1.346E-06
28	0.595	3.285E-04	3.425E-04	3.355E-04	77	3.110	2.524E-06	6.208E-06	4.366E-06
29	0.625	2.894E-04	3.031E-04	2.962E-04	78	3.190	2.701E-06	6.121E-06	4.411E-06
30	0.655	2.332E-04	2.461E-04	2.396E-04	79	3.270	4.207E-06	7.343E-06	5.775E-06
31	0.685	1.936E-04	2.060E-04	1.998E-04	80	3.350	3.712E-06	6.541E-06	5.126E-06
32	0.715	2.246E-04	2.372E-04	2.309E-04	81	3.430	3.007E-06	5.531E-06	4.269E-06
33	0.745	2.482E-04	2.608E-04	2.545E-04	82	3.510	2.400E-06	4.563E-06	3.482E-06
34	0.775	2.408E-04	2.533E-04	2.470E-04	83	3.590	6.042E-06	8.282E-06	7.162E-06
35	0.810	2.546E-04	2.678E-04	2.612E-04	84	3.670	7.716E-06	9.861E-06	8.788E-06
36	0.850	3.765E-04	3.906E-04	3.835E-04	85	3.750	4.299E-06	5.912E-06	5.105E-06
37	0.890	4.919E-04	5.068E-04	4.993E-04	86	3.830	1.138E-06	2.431E-06	1.785E-06
38	0.930	4.797E-04	4.941E-04	4.869E-04	87	3.915	2.829E-07	1.421E-06	8.518E-07
39	0.970	3.425E-04	3.554E-04	3.489E-04	88	4.005	7.700E-07	1.887E-06	1.329E-06
40	1.010	2.819E-04	2.941E-04	2.880E-04	89	4.095	8.284E-07	1.813E-06	1.321E-06
41	1.050	2.404E-04	2.518E-04	2.461E-04	90	4.185	2.135E-07	1.070E-06	6.418E-07
42	1.090	1.743E-04	1.846E-04	1.794E-04	91	4.275	5.492E-08	8.805E-07	4.677E-07
43	1.130	1.478E-04	1.574E-04	1.526E-04	92	4.365	4.180E-07	1.106E-06	7.620E-07
44	1.170	1.504E-04	1.596E-04	1.550E-04	93	4.455	3.772E-07	1.054E-06	7.156E-07
45	1.210	1.512E-04	1.601E-04	1.557E-04	94	4.550	1.334E-07	6.630E-07	3.982E-07
46	1.250	1.485E-04	1.598E-04	1.542E-04	95	4.650	-2.516E-08	4.368E-07	2.058E-07
47	1.295	1.317E-04	1.399E-04	1.358E-04	96	4.750	-2.946E-08	3.024E-07	1.365E-07
48	1.345	1.161E-04	1.247E-04	1.204E-04	97	4.850	4.042E-08	2.398E-07	1.401E-07
49	1.395	1.462E-04	1.552E-04	1.507E-04	98	4.950	8.839E-08	2.264E-07	1.574E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1350 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-9.222E-04	-7.005E-04	-8.114E-04	50	1.445	1.344E-04	1.426E-04	1.385E-04
2	0.111	5.904E-04	7.232E-04	6.568E-04	51	1.495	1.007E-04	1.081E-04	1.044E-04
3	0.117	2.322E-03	2.695E-03	2.509E-03	52	1.545	6.723E-05	7.389E-05	7.056E-05
4	0.125	-6.336E-04	-4.213E-04	-5.274E-04	53	1.595	5.473E-05	6.143E-05	5.808E-05
5	0.135	-1.249E-03	-9.129E-04	-1.081E-03	54	1.645	5.522E-05	6.190E-05	5.856E-05
6	0.145	2.259E-03	2.701E-03	2.480E-03	55	1.695	5.876E-05	6.530E-05	6.203E-05
7	0.155	-7.469E-04	-5.183E-04	-6.326E-04	56	1.745	6.031E-05	6.687E-05	6.359E-05
8	0.165	3.002E-04	3.703E-04	3.352E-04	57	1.800	4.441E-05	5.063E-05	4.752E-05
9	0.175	7.264E-04	8.450E-04	7.857E-04	58	1.860	3.461E-05	4.070E-05	3.765E-05
10	0.185	3.428E-04	3.934E-04	3.681E-04	59	1.920	3.452E-05	4.054E-05	3.753E-05
11	0.200	4.656E-04	4.933E-04	4.794E-04	60	1.980	3.906E-05	4.482E-05	4.194E-05
12	0.220	2.577E-04	2.832E-04	2.705E-04	61	2.040	4.608E-05	5.191E-05	4.899E-05
13	0.240	2.737E-04	2.956E-04	2.846E-04	62	2.100	3.954E-05	4.525E-05	4.240E-05
14	0.260	3.282E-04	3.482E-04	3.382E-04	63	2.160	3.431E-05	3.995E-05	3.713E-05
15	0.280	5.311E-04	5.529E-04	5.420E-04	64	2.220	3.268E-05	3.789E-05	3.529E-05
16	0.300	8.082E-04	8.326E-04	8.204E-04	65	2.280	2.790E-05	3.289E-05	3.040E-05
17	0.320	7.371E-04	7.593E-04	7.482E-04	66	2.340	1.713E-05	2.189E-05	1.951E-05
18	0.340	4.917E-04	5.092E-04	5.005E-04	67	2.405	7.992E-06	1.270E-05	1.035E-05
19	0.360	3.937E-04	4.097E-04	4.017E-04	68	2.475	1.355E-05	1.816E-05	1.586E-05
20	0.380	2.712E-04	2.858E-04	2.785E-04	69	2.545	1.294E-05	1.750E-05	1.522E-05
21	0.400	2.270E-04	2.416E-04	2.343E-04	70	2.615	1.842E-05	2.297E-05	2.069E-05
22	0.420	2.716E-04	2.862E-04	2.789E-04	71	2.685	2.099E-05	2.560E-05	2.329E-05
23	0.445	3.614E-04	3.761E-04	3.688E-04	72	2.755	1.028E-05	1.395E-05	1.212E-05
24	0.475	3.028E-04	3.165E-04	3.096E-04	73	2.825	6.874E-06	1.039E-05	8.631E-06
25	0.505	2.267E-04	2.396E-04	2.332E-04	74	2.895	4.992E-06	8.569E-06	6.781E-06
26	0.535	2.690E-04	2.819E-04	2.754E-04	75	2.965	1.812E-06	5.120E-06	3.466E-06
27	0.565	2.387E-04	2.513E-04	2.450E-04	76	3.035	1.617E-06	4.750E-06	3.184E-06
28	0.595	2.354E-04	2.476E-04	2.415E-04	77	3.110	2.272E-06	5.347E-06	3.809E-06
29	0.625	2.292E-04	2.413E-04	2.353E-04	78	3.190	1.466E-06	4.354E-06	2.910E-06
30	0.655	2.019E-04	2.134E-04	2.077E-04	79	3.270	1.462E-06	4.111E-06	2.786E-06
31	0.685	1.384E-04	1.491E-04	1.437E-04	80	3.350	1.876E-06	4.302E-06	3.089E-06
32	0.715	1.481E-04	1.589E-04	1.535E-04	81	3.430	1.754E-06	3.952E-06	2.853E-06
33	0.745	1.866E-04	1.977E-04	1.922E-04	82	3.510	1.971E-06	3.805E-06	2.888E-06
34	0.775	1.835E-04	1.944E-04	1.889E-04	83	3.590	3.323E-06	5.119E-06	4.221E-06
35	0.810	1.872E-04	1.986E-04	1.929E-04	84	3.670	3.503E-06	5.141E-06	4.322E-06
36	0.850	2.765E-04	2.888E-04	2.826E-04	85	3.750	3.067E-06	4.428E-06	3.748E-06
37	0.890	3.712E-04	3.843E-04	3.777E-04	86	3.830	2.198E-06	3.359E-06	2.778E-06
38	0.930	3.793E-04	3.920E-04	3.857E-04	87	3.915	1.383E-06	2.400E-06	1.891E-06
39	0.970	2.622E-04	2.735E-04	2.678E-04	88	4.005	1.031E-06	1.910E-06	1.471E-06
40	1.010	2.103E-04	2.209E-04	2.156E-04	89	4.095	5.670E-07	1.315E-06	9.408E-07
41	1.050	1.851E-04	1.952E-04	1.902E-04	90	4.185	2.246E-07	9.283E-07	5.764E-07
42	1.090	1.286E-04	1.376E-04	1.331E-04	91	4.275	1.541E-07	8.440E-07	4.990E-07
43	1.130	1.130E-04	1.214E-04	1.172E-04	92	4.365	2.440E-08	5.849E-07	3.047E-07
44	1.170	1.105E-04	1.186E-04	1.146E-04	93	4.455	-2.759E-07	2.679E-07	-3.991E-09
45	1.210	1.019E-04	1.096E-04	1.058E-04	94	4.550	-6.025E-07	5.413E-08	-2.742E-07
46	1.250	1.032E-04	1.130E-04	1.081E-04	95	4.650	-6.955E-07	-1.566E-08	-3.556E-07
47	1.295	9.552E-05	1.026E-04	9.906E-05	96	4.750	-4.188E-07	7.503E-08	-1.719E-07
48	1.345	7.687E-05	8.431E-05	8.059E-05	97	4.850	-1.604E-08	2.898E-07	1.369E-07
49	1.395	1.084E-04	1.164E-04	1.124E-04	98	4.950	1.644E-07	4.787E-07	3.216E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 1750 SEC

COUNTING TIME : 400 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-7.128E-04	-5.338E-04	-6.233E-04	50	1.445	1.188E-04	1.263E-04	1.226E-04
2	0.111	4.385E-04	5.414E-04	4.900E-04	51	1.495	8.670E-05	9.333E-05	9.002E-05
3	0.117	1.749E-03	2.066E-03	1.907E-03	52	1.545	5.126E-05	5.713E-05	5.420E-05
4	0.125	-4.895E-04	-3.250E-04	-4.073E-04	53	1.595	4.467E-05	5.068E-05	4.768E-05
5	0.135	-9.876E-04	-7.180E-04	-8.528E-04	54	1.645	4.205E-05	4.781E-05	4.493E-05
6	0.145	1.756E-03	2.112E-03	1.934E-03	55	1.695	4.249E-05	4.818E-05	4.533E-05
7	0.155	-5.719E-04	-3.882E-04	-4.800E-04	56	1.745	3.798E-05	4.365E-05	4.081E-05
8	0.165	2.440E-04	3.008E-04	2.724E-04	57	1.800	3.320E-05	3.873E-05	3.597E-05
9	0.175	5.774E-04	6.733E-04	6.253E-04	58	1.860	2.785E-05	3.323E-05	3.054E-05
10	0.185	2.795E-04	3.204E-04	3.000E-04	59	1.920	2.340E-05	2.872E-05	2.606E-05
11	0.200	3.730E-04	3.956E-04	3.843E-04	60	1.980	2.442E-05	2.938E-05	2.690E-05
12	0.220	2.003E-04	2.214E-04	2.109E-04	61	2.040	3.323E-05	3.847E-05	3.585E-05
13	0.240	1.904E-04	2.084E-04	1.994E-04	62	2.100	2.934E-05	3.440E-05	3.187E-05
14	0.260	2.412E-04	2.574E-04	2.493E-04	63	2.160	2.413E-05	2.911E-05	2.662E-05
15	0.280	4.158E-04	4.332E-04	4.245E-04	64	2.220	2.839E-05	3.322E-05	3.080E-05
16	0.300	6.568E-04	6.766E-04	6.667E-04	65	2.280	2.492E-05	2.956E-05	2.724E-05
17	0.320	6.012E-04	6.193E-04	6.102E-04	66	2.340	1.423E-05	1.842E-05	1.632E-05
18	0.340	3.980E-04	4.132E-04	4.056E-04	67	2.405	1.279E-05	1.716E-05	1.497E-05
19	0.360	3.168E-04	3.310E-04	3.239E-04	68	2.475	1.006E-05	1.410E-05	1.208E-05
20	0.380	2.158E-04	2.288E-04	2.223E-04	69	2.545	1.364E-05	1.779E-05	1.572E-05
21	0.400	1.680E-04	1.809E-04	1.744E-04	70	2.615	1.436E-05	1.819E-05	1.627E-05
22	0.420	2.006E-04	2.136E-04	2.071E-04	71	2.685	1.525E-05	1.914E-05	1.719E-05
23	0.445	2.883E-04	3.015E-04	2.949E-04	72	2.755	1.166E-05	1.503E-05	1.335E-05
24	0.475	2.551E-04	2.675E-04	2.613E-04	73	2.825	5.442E-06	8.257E-06	6.849E-06
25	0.505	1.805E-04	1.921E-04	1.863E-04	74	2.895	1.297E-06	4.145E-06	2.721E-06
26	0.535	2.244E-04	2.359E-04	2.301E-04	75	2.965	1.343E-06	4.044E-06	2.694E-06
27	0.565	1.912E-04	2.025E-04	1.968E-04	76	3.035	2.355E-06	5.034E-06	3.695E-06
28	0.595	1.669E-04	1.776E-04	1.723E-04	77	3.110	1.271E-06	3.686E-06	2.478E-06
29	0.625	1.739E-04	1.847E-04	1.793E-04	78	3.190	7.169E-07	3.059E-06	1.888E-06
30	0.655	1.583E-04	1.685E-04	1.634E-04	79	3.270	-6.079E-07	1.370E-06	3.812E-07
31	0.685	1.096E-04	1.192E-04	1.144E-04	80	3.350	8.001E-07	2.662E-06	1.731E-06
32	0.715	1.164E-04	1.260E-04	1.212E-04	81	3.430	1.907E-06	3.744E-06	2.825E-06
33	0.745	1.570E-04	1.670E-04	1.620E-04	82	3.510	1.579E-06	3.204E-06	2.392E-06
34	0.775	1.559E-04	1.658E-04	1.608E-04	83	3.590	1.615E-06	3.004E-06	2.309E-06
35	0.810	1.459E-04	1.562E-04	1.510E-04	84	3.670	2.330E-06	3.739E-06	3.035E-06
36	0.850	2.284E-04	2.396E-04	2.340E-04	85	3.750	2.185E-06	3.337E-06	2.761E-06
37	0.890	3.091E-04	3.210E-04	3.151E-04	86	3.830	1.224E-06	2.233E-06	1.728E-06
38	0.930	3.063E-04	3.177E-04	3.120E-04	87	3.915	5.529E-07	1.353E-06	9.527E-07
39	0.970	2.056E-04	2.156E-04	2.106E-04	88	4.005	6.029E-07	1.382E-06	9.924E-07
40	1.010	1.697E-04	1.792E-04	1.745E-04	89	4.095	3.968E-07	1.111E-06	7.540E-07
41	1.050	1.444E-04	1.533E-04	1.488E-04	90	4.185	3.426E-08	6.653E-07	3.498E-07
42	1.090	9.944E-05	1.074E-04	1.034E-04	91	4.275	-1.152E-07	4.705E-07	1.777E-07
43	1.130	8.286E-05	9.028E-05	8.657E-05	92	4.365	-2.509E-07	3.326E-07	4.086E-08
44	1.170	8.566E-05	9.282E-05	8.924E-05	93	4.455	-3.465E-07	1.787E-07	-8.390E-08
45	1.210	7.858E-05	8.538E-05	8.198E-05	94	4.550	-3.662E-07	1.539E-07	-1.062E-07
46	1.250	7.764E-05	8.633E-05	8.198E-05	95	4.650	-2.968E-07	2.091E-07	-4.386E-08
47	1.295	7.652E-05	8.282E-05	7.967E-05	96	4.750	-1.389E-07	2.721E-07	6.658E-08
48	1.345	6.225E-05	6.891E-05	6.558E-05	97	4.850	4.399E-08	3.338E-07	1.889E-07
49	1.395	8.432E-05	9.149E-05	8.790E-05	98	4.950	1.401E-07	3.476E-07	2.438E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2150 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-6.743E-04	-5.334E-04	-6.038E-04	50	1.445	1.025E-04	1.085E-04	1.055E-04
2	0.111	3.855E-04	4.671E-04	4.263E-04	51	1.495	7.838E-05	8.379E-05	8.109E-05
3	0.117	1.593E-03	1.842E-03	1.718E-03	52	1.545	4.196E-05	4.655E-05	4.426E-05
4	0.125	-4.639E-04	-3.334E-04	-3.986E-04	53	1.595	3.390E-05	3.852E-05	3.621E-05
5	0.135	-9.184E-04	-7.040E-04	-8.112E-04	54	1.645	2.890E-05	3.331E-05	3.111E-05
6	0.145	1.595E-03	1.878E-03	1.736E-03	55	1.695	2.815E-05	3.249E-05	3.032E-05
7	0.155	-5.472E-04	-4.011E-04	-4.742E-04	56	1.745	3.255E-05	3.707E-05	3.481E-05
8	0.165	1.782E-04	2.232E-04	2.007E-04	57	1.800	2.892E-05	3.324E-05	3.108E-05
9	0.175	4.867E-04	5.626E-04	5.246E-04	58	1.860	2.258E-05	2.678E-05	2.468E-05
10	0.185	1.965E-04	2.289E-04	2.127E-04	59	1.920	1.446E-05	1.847E-05	1.646E-05
11	0.200	2.941E-04	3.120E-04	3.031E-04	60	1.980	1.870E-05	2.259E-05	2.064E-05
12	0.220	1.530E-04	1.697E-04	1.613E-04	61	2.040	2.334E-05	2.736E-05	2.535E-05
13	0.240	1.426E-04	1.567E-04	1.496E-04	62	2.100	2.115E-05	2.508E-05	2.311E-05
14	0.260	1.741E-04	1.869E-04	1.805E-04	63	2.160	1.757E-05	2.144E-05	1.950E-05
15	0.280	3.252E-04	3.389E-04	3.320E-04	64	2.220	2.144E-05	2.521E-05	2.332E-05
16	0.300	5.282E-04	5.441E-04	5.361E-04	65	2.280	1.839E-05	2.202E-05	2.020E-05
17	0.320	4.859E-04	5.005E-04	4.932E-04	66	2.340	1.210E-05	1.545E-05	1.378E-05
18	0.340	3.020E-04	3.140E-04	3.080E-04	67	2.405	9.606E-06	1.292E-05	1.126E-05
19	0.360	2.362E-04	2.475E-04	2.419E-04	68	2.475	7.001E-06	1.013E-05	8.565E-06
20	0.380	1.689E-04	1.793E-04	1.741E-04	69	2.545	1.077E-05	1.402E-05	1.240E-05
21	0.400	1.342E-04	1.446E-04	1.394E-04	70	2.615	1.245E-05	1.564E-05	1.404E-05
22	0.420	1.635E-04	1.740E-04	1.688E-04	71	2.685	1.023E-05	1.315E-05	1.169E-05
23	0.445	2.429E-04	2.536E-04	2.483E-04	72	2.755	7.927E-06	1.044E-05	9.185E-06
24	0.475	2.098E-04	2.199E-04	2.149E-04	73	2.825	2.782E-06	4.968E-06	3.875E-06
25	0.505	1.443E-04	1.536E-04	1.490E-04	74	2.895	6.871E-07	2.822E-06	1.755E-06
26	0.535	1.780E-04	1.873E-04	1.826E-04	75	2.965	1.999E-06	4.160E-06	3.079E-06
27	0.565	1.512E-04	1.603E-04	1.558E-04	76	3.035	8.951E-07	2.867E-06	1.881E-06
28	0.595	1.299E-04	1.385E-04	1.342E-04	77	3.110	1.432E-06	3.393E-06	2.413E-06
29	0.625	1.390E-04	1.477E-04	1.434E-04	78	3.190	1.499E-06	3.326E-06	2.412E-06
30	0.655	1.354E-04	1.437E-04	1.395E-04	79	3.270	1.211E-06	2.894E-06	2.052E-06
31	0.685	9.424E-05	1.021E-04	9.815E-05	80	3.350	1.044E-06	2.541E-06	1.793E-06
32	0.715	9.101E-05	9.872E-05	9.486E-05	81	3.430	1.040E-06	2.343E-06	1.692E-06
33	0.745	1.318E-04	1.399E-04	1.359E-04	82	3.510	6.279E-07	1.770E-06	1.199E-06
34	0.775	1.308E-04	1.388E-04	1.348E-04	83	3.590	1.132E-06	2.226E-06	1.679E-06
35	0.810	1.158E-04	1.240E-04	1.199E-04	84	3.670	1.849E-06	2.925E-06	2.387E-06
36	0.850	1.998E-04	2.089E-04	2.043E-04	85	3.750	1.430E-06	2.339E-06	1.884E-06
37	0.890	2.690E-04	2.787E-04	2.739E-04	86	3.830	6.879E-07	1.380E-06	1.034E-06
38	0.930	2.515E-04	2.607E-04	2.561E-04	87	3.915	4.483E-07	1.139E-06	7.936E-07
39	0.970	1.678E-04	1.758E-04	1.718E-04	88	4.005	3.350E-07	9.690E-07	6.520E-07
40	1.010	1.374E-04	1.451E-04	1.413E-04	89	4.095	1.467E-07	7.163E-07	4.315E-07
41	1.050	1.233E-04	1.305E-04	1.269E-04	90	4.185	-5.665E-08	4.588E-07	2.011E-07
42	1.090	7.662E-05	8.286E-05	7.974E-05	91	4.275	-2.309E-07	2.332E-07	1.134E-09
43	1.130	6.465E-05	7.051E-05	6.758E-05	92	4.365	-2.533E-07	1.895E-07	-3.191E-08
44	1.170	6.825E-05	7.398E-05	7.112E-05	93	4.455	-1.952E-07	2.347E-07	1.976E-08
45	1.210	6.401E-05	6.935E-05	6.668E-05	94	4.550	-1.416E-07	2.479E-07	5.317E-08
46	1.250	6.244E-05	6.928E-05	6.586E-05	95	4.650	-6.096E-08	2.610E-07	1.000E-07
47	1.295	5.059E-05	5.535E-05	5.297E-05	96	4.750	-5.062E-09	2.721E-07	1.335E-07
48	1.345	4.432E-05	4.955E-05	4.694E-05	97	4.850	4.087E-08	2.296E-07	1.353E-07
49	1.395	6.790E-05	7.363E-05	7.077E-05	98	4.950	7.409E-08	1.816E-07	1.279E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 2650 SEC

COUNTING TIME : 500 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-5.970E-04	-4.810E-04	-5.390E-04	50	1.445	8.755E-05	9.317E-05	9.036E-05
2	0.111	3.193E-04	3.841E-04	3.517E-04	51	1.495	7.009E-05	7.507E-05	7.258E-05
3	0.117	1.351E-03	1.560E-03	1.455E-03	52	1.545	4.258E-05	4.687E-05	4.473E-05
4	0.125	-4.052E-04	-3.023E-04	-3.538E-04	53	1.595	2.632E-05	3.041E-05	2.836E-05
5	0.135	-8.028E-04	-6.284E-04	-7.156E-04	54	1.645	2.472E-05	2.875E-05	2.673E-05
6	0.145	1.375E-03	1.607E-03	1.491E-03	55	1.695	2.540E-05	2.930E-05	2.735E-05
7	0.155	-4.808E-04	-3.620E-04	-4.214E-04	56	1.745	2.657E-05	3.056E-05	2.857E-05
8	0.165	1.385E-04	1.769E-04	1.577E-04	57	1.800	2.045E-05	2.423E-05	2.234E-05
9	0.175	3.950E-04	4.592E-04	4.271E-04	58	1.860	1.511E-05	1.873E-05	1.692E-05
10	0.185	1.420E-04	1.695E-04	1.558E-04	59	1.920	1.097E-05	1.448E-05	1.272E-05
11	0.200	2.241E-04	2.395E-04	2.318E-04	60	1.980	1.221E-05	1.559E-05	1.390E-05
12	0.220	1.179E-04	1.326E-04	1.253E-04	61	2.040	1.699E-05	2.052E-05	1.876E-05
13	0.240	1.051E-04	1.175E-04	1.113E-04	62	2.100	1.516E-05	1.866E-05	1.691E-05
14	0.260	1.259E-04	1.371E-04	1.315E-04	63	2.160	1.192E-05	1.535E-05	1.364E-05
15	0.280	2.479E-04	2.596E-04	2.538E-04	64	2.220	1.684E-05	2.021E-05	1.853E-05
16	0.300	4.077E-04	4.202E-04	4.139E-04	65	2.280	1.689E-05	2.012E-05	1.850E-05
17	0.320	3.732E-04	3.852E-04	3.792E-04	66	2.340	8.409E-06	1.136E-05	9.882E-06
18	0.340	2.328E-04	2.435E-04	2.381E-04	67	2.405	5.927E-06	8.860E-06	7.394E-06
19	0.360	1.770E-04	1.870E-04	1.820E-04	68	2.475	6.335E-06	9.077E-06	7.706E-06
20	0.380	1.235E-04	1.327E-04	1.281E-04	69	2.545	6.699E-06	9.506E-06	8.102E-06
21	0.400	1.010E-04	1.103E-04	1.057E-04	70	2.615	1.161E-05	1.449E-05	1.305E-05
22	0.420	1.249E-04	1.343E-04	1.296E-04	71	2.685	1.105E-05	1.373E-05	1.239E-05
23	0.445	1.903E-04	1.999E-04	1.951E-04	72	2.755	4.795E-06	6.876E-06	5.836E-06
24	0.475	1.797E-04	1.889E-04	1.843E-04	73	2.825	1.697E-06	3.622E-06	2.660E-06
25	0.505	1.165E-04	1.250E-04	1.207E-04	74	2.895	1.253E-06	3.215E-06	2.234E-06
26	0.535	1.449E-04	1.533E-04	1.491E-04	75	2.965	1.910E-07	1.872E-06	1.031E-06
27	0.565	1.205E-04	1.286E-04	1.246E-04	76	3.035	1.409E-07	1.820E-06	9.803E-07
28	0.595	9.825E-05	1.059E-04	1.021E-04	77	3.110	6.635E-07	2.333E-06	1.498E-06
29	0.625	1.155E-04	1.235E-04	1.195E-04	78	3.190	8.803E-07	2.449E-06	1.665E-06
30	0.655	1.175E-04	1.251E-04	1.213E-04	79	3.270	7.174E-07	2.176E-06	1.447E-06
31	0.685	7.689E-05	8.395E-05	8.042E-05	80	3.350	6.904E-07	1.964E-06	1.327E-06
32	0.715	7.661E-05	8.361E-05	8.011E-05	81	3.430	1.173E-06	2.441E-06	1.807E-06
33	0.745	1.130E-04	1.204E-04	1.167E-04	82	3.510	1.160E-06	2.255E-06	1.707E-06
34	0.775	1.146E-04	1.219E-04	1.183E-04	83	3.590	7.411E-07	1.677E-06	1.209E-06
35	0.810	9.450E-05	1.020E-04	9.824E-05	84	3.670	7.065E-07	1.646E-06	1.176E-06
36	0.850	1.701E-04	1.785E-04	1.743E-04	85	3.750	7.040E-07	1.574E-06	1.139E-06
37	0.890	2.335E-04	2.423E-04	2.379E-04	86	3.830	3.919E-07	1.242E-06	8.167E-07
38	0.930	2.028E-04	2.110E-04	2.069E-04	87	3.915	1.224E-07	8.045E-07	4.635E-07
39	0.970	1.301E-04	1.372E-04	1.337E-04	88	4.005	1.828E-08	6.570E-07	3.377E-07
40	1.010	1.007E-04	1.074E-04	1.040E-04	89	4.095	-1.095E-08	5.084E-07	2.487E-07
41	1.050	9.358E-05	9.997E-05	9.677E-05	90	4.185	-1.751E-07	3.623E-07	9.362E-08
42	1.090	5.953E-05	6.513E-05	6.233E-05	91	4.275	-1.754E-07	3.747E-07	9.967E-08
43	1.130	5.330E-05	5.858E-05	5.594E-05	92	4.365	-1.373E-07	4.133E-07	1.380E-07
44	1.170	4.841E-05	5.342E-05	5.092E-05	93	4.455	-1.387E-07	2.446E-07	5.293E-08
45	1.210	4.164E-05	4.625E-05	4.394E-05	94	4.550	-1.051E-07	1.830E-07	3.892E-08
46	1.250	3.969E-05	4.561E-05	4.265E-05	95	4.650	1.611E-08	2.785E-07	1.473E-07
47	1.295	3.230E-05	3.646E-05	3.438E-05	96	4.750	7.178E-08	3.040E-07	1.879E-07
48	1.345	3.237E-05	3.705E-05	3.471E-05	97	4.850	5.596E-08	2.178E-07	1.369E-07
49	1.395	6.201E-05	6.734E-05	6.467E-05	98	4.950	4.383E-08	1.195E-07	8.165E-08



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3150 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-5.202E-04	-4.275E-04	-4.739E-04	50	1.445	7.734E-05	8.206E-05	7.970E-05
2	0.111	2.620E-04	3.140E-04	2.880E-04	51	1.495	5.897E-05	6.304E-05	6.101E-05
3	0.117	1.151E-03	1.319E-03	1.235E-03	52	1.545	2.610E-05	2.935E-05	2.772E-05
4	0.125	-3.459E-04	-2.637E-04	-3.048E-04	53	1.595	1.936E-05	2.264E-05	2.100E-05
5	0.135	-6.990E-04	-5.567E-04	-6.279E-04	54	1.645	1.505E-05	1.813E-05	1.659E-05
6	0.145	1.196E-03	1.385E-03	1.290E-03	55	1.695	1.685E-05	1.998E-05	1.841E-05
7	0.155	-4.177E-04	-3.207E-04	-3.692E-04	56	1.745	1.889E-05	2.211E-05	2.050E-05
8	0.165	1.134E-04	1.446E-04	1.290E-04	57	1.800	1.726E-05	2.039E-05	1.883E-05
9	0.175	3.273E-04	3.796E-04	3.534E-04	58	1.860	1.302E-05	1.606E-05	1.454E-05
10	0.185	1.045E-04	1.268E-04	1.156E-04	59	1.920	1.206E-05	1.506E-05	1.356E-05
11	0.200	1.748E-04	1.873E-04	1.811E-04	60	1.980	1.053E-05	1.332E-05	1.192E-05
12	0.220	9.451E-05	1.065E-04	1.005E-04	61	2.040	1.249E-05	1.531E-05	1.390E-05
13	0.240	8.260E-05	9.268E-05	8.764E-05	62	2.100	1.100E-05	1.382E-05	1.241E-05
14	0.260	9.462E-05	1.036E-04	9.912E-05	63	2.160	8.594E-06	1.135E-05	9.974E-06
15	0.280	1.839E-04	1.932E-04	1.886E-04	64	2.220	1.463E-05	1.742E-05	1.603E-05
16	0.300	3.089E-04	3.189E-04	3.139E-04	65	2.280	1.224E-05	1.484E-05	1.354E-05
17	0.320	2.904E-04	3.001E-04	2.952E-04	66	2.340	7.062E-06	9.505E-06	8.283E-06
18	0.340	1.761E-04	1.847E-04	1.804E-04	67	2.405	6.365E-06	8.806E-06	7.585E-06
19	0.360	1.251E-04	1.330E-04	1.290E-04	68	2.475	6.812E-06	9.184E-06	7.998E-06
20	0.380	8.798E-05	9.542E-05	9.170E-05	69	2.545	5.968E-06	8.247E-06	7.108E-06
21	0.400	7.886E-05	8.647E-05	8.266E-05	70	2.615	7.162E-06	9.357E-06	8.259E-06
22	0.420	1.037E-04	1.115E-04	1.076E-04	71	2.685	7.386E-06	9.479E-06	8.433E-06
23	0.445	1.589E-04	1.669E-04	1.629E-04	72	2.755	3.795E-06	5.497E-06	4.646E-06
24	0.475	1.510E-04	1.586E-04	1.548E-04	73	2.825	1.501E-06	3.112E-06	2.306E-06
25	0.505	8.920E-05	9.613E-05	9.266E-05	74	2.895	3.824E-07	1.819E-06	1.101E-06
26	0.535	1.171E-04	1.240E-04	1.205E-04	75	2.965	5.236E-07	1.960E-06	1.242E-06
27	0.565	9.776E-05	1.044E-04	1.011E-04	76	3.035	1.474E-06	2.940E-06	2.207E-06
28	0.595	7.667E-05	8.297E-05	7.982E-05	77	3.110	1.352E-06	2.716E-06	2.034E-06
29	0.625	9.106E-05	9.756E-05	9.431E-05	78	3.190	4.990E-07	1.639E-06	1.069E-06
30	0.655	9.305E-05	9.936E-05	9.621E-05	79	3.270	1.118E-06	2.304E-06	1.711E-06
31	0.685	6.458E-05	7.047E-05	6.752E-05	80	3.350	5.781E-07	1.501E-06	1.040E-06
32	0.715	6.513E-05	7.097E-05	6.805E-05	81	3.430	6.458E-07	1.574E-06	1.110E-06
33	0.745	9.402E-05	1.002E-04	9.709E-05	82	3.510	3.114E-07	1.109E-06	7.104E-07
34	0.775	9.611E-05	1.022E-04	9.914E-05	83	3.590	2.491E-07	9.976E-07	6.234E-07
35	0.810	8.257E-05	8.882E-05	8.569E-05	84	3.670	5.037E-07	1.216E-06	8.601E-07
36	0.850	1.405E-04	1.475E-04	1.440E-04	85	3.750	4.771E-07	1.110E-06	7.933E-07
37	0.890	2.067E-04	2.142E-04	2.105E-04	86	3.830	2.718E-07	8.671E-07	5.694E-07
38	0.930	1.776E-04	1.844E-04	1.810E-04	87	3.915	5.085E-08	5.962E-07	3.235E-07
39	0.970	1.048E-04	1.106E-04	1.077E-04	88	4.005	7.232E-08	5.999E-07	3.361E-07
40	1.010	8.467E-05	9.020E-05	8.743E-05	89	4.095	6.954E-08	5.320E-07	3.008E-07
41	1.050	7.571E-05	8.095E-05	7.833E-05	90	4.185	-9.862E-08	3.978E-07	1.496E-07
42	1.090	5.210E-05	5.677E-05	5.444E-05	91	4.275	-2.004E-07	2.111E-07	5.357E-09
43	1.130	4.742E-05	5.180E-05	4.961E-05	92	4.365	-2.472E-07	1.845E-07	-3.134E-08
44	1.170	4.132E-05	4.543E-05	4.337E-05	93	4.455	-2.285E-07	1.903E-07	-1.910E-08
45	1.210	3.333E-05	3.708E-05	3.521E-05	94	4.550	-1.395E-07	1.841E-07	2.228E-08
46	1.250	3.000E-05	3.477E-05	3.238E-05	95	4.650	-1.553E-08	2.497E-07	1.171E-07
47	1.295	2.682E-05	3.018E-05	2.850E-05	96	4.750	9.226E-08	2.807E-07	1.865E-07
48	1.345	2.350E-05	2.728E-05	2.539E-05	97	4.850	1.043E-07	2.643E-07	1.843E-07
49	1.395	4.581E-05	5.006E-05	4.794E-05	98	4.950	6.251E-08	1.807E-07	1.216E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 3750 SEC

COUNTING TIME : 600 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-3.763E-04	-2.984E-04	-3.373E-04	50	1.445	6.434E-05	6.865E-05	6.649E-05
2	0.111	1.909E-04	2.325E-04	2.117E-04	51	1.495	5.424E-05	5.807E-05	5.615E-05
3	0.117	8.283E-04	9.727E-04	9.005E-04	52	1.545	2.702E-05	3.008E-05	2.855E-05
4	0.125	-2.486E-04	-1.833E-04	-2.160E-04	53	1.595	1.457E-05	1.742E-05	1.600E-05
5	0.135	-5.162E-04	-3.996E-04	-4.579E-04	54	1.645	1.244E-05	1.522E-05	1.383E-05
6	0.145	8.821E-04	1.041E-03	9.616E-04	55	1.695	1.311E-05	1.586E-05	1.448E-05
7	0.155	-2.945E-04	-2.138E-04	-2.541E-04	56	1.745	1.319E-05	1.601E-05	1.460E-05
8	0.165	9.655E-05	1.241E-04	1.103E-04	57	1.800	1.362E-05	1.646E-05	1.504E-05
9	0.175	2.550E-04	3.001E-04	2.775E-04	58	1.860	1.157E-05	1.432E-05	1.294E-05
10	0.185	8.579E-05	1.051E-04	9.547E-05	59	1.920	9.754E-06	1.240E-05	1.108E-05
11	0.200	1.354E-04	1.465E-04	1.410E-04	60	1.980	6.372E-06	8.760E-06	7.566E-06
12	0.220	7.121E-05	8.192E-05	7.656E-05	61	2.040	8.035E-06	1.048E-05	9.257E-06
13	0.240	6.102E-05	7.005E-05	6.553E-05	62	2.100	7.518E-06	9.978E-06	8.748E-06
14	0.260	7.467E-05	8.273E-05	7.870E-05	63	2.160	6.642E-06	9.100E-06	7.871E-06
15	0.280	1.339E-04	1.421E-04	1.380E-04	64	2.220	9.569E-06	1.196E-05	1.076E-05
16	0.300	2.229E-04	2.316E-04	2.272E-04	65	2.280	1.007E-05	1.249E-05	1.128E-05
17	0.320	2.157E-04	2.243E-04	2.200E-04	66	2.340	6.850E-06	9.067E-06	7.958E-06
18	0.340	1.289E-04	1.365E-04	1.327E-04	67	2.405	5.525E-06	7.713E-06	6.619E-06
19	0.360	8.916E-05	9.622E-05	9.269E-05	68	2.475	4.494E-06	6.533E-06	5.514E-06
20	0.380	6.649E-05	7.319E-05	6.984E-05	69	2.545	3.655E-06	5.541E-06	4.598E-06
21	0.400	6.318E-05	7.012E-05	6.665E-05	70	2.615	6.461E-06	8.499E-06	7.480E-06
22	0.420	8.429E-05	9.139E-05	8.784E-05	71	2.685	5.191E-06	7.048E-06	6.120E-06
23	0.445	1.294E-04	1.367E-04	1.330E-04	72	2.755	3.479E-06	5.157E-06	4.318E-06
24	0.475	1.239E-04	1.308E-04	1.274E-04	73	2.825	1.723E-06	3.204E-06	2.463E-06
25	0.505	7.119E-05	7.749E-05	7.434E-05	74	2.895	1.443E-06	2.940E-06	2.191E-06
26	0.535	9.358E-05	9.987E-05	9.672E-05	75	2.965	6.194E-07	1.894E-06	1.257E-06
27	0.565	8.012E-05	8.622E-05	8.317E-05	76	3.035	-2.437E-07	8.489E-07	3.026E-07
28	0.595	5.409E-05	5.977E-05	5.693E-05	77	3.110	-2.829E-07	8.608E-07	2.889E-07
29	0.625	7.611E-05	8.212E-05	7.912E-05	78	3.190	-1.181E-07	1.065E-06	4.734E-07
30	0.655	8.785E-05	9.377E-05	9.081E-05	79	3.270	2.779E-07	1.485E-06	8.815E-07
31	0.685	5.737E-05	6.279E-05	6.008E-05	80	3.350	-1.116E-08	9.781E-07	4.835E-07
32	0.715	5.116E-05	5.642E-05	5.379E-05	81	3.430	4.133E-08	9.167E-07	4.790E-07
33	0.745	7.387E-05	7.943E-05	7.665E-05	82	3.510	5.668E-07	1.402E-06	9.845E-07
34	0.775	7.885E-05	8.441E-05	8.163E-05	83	3.590	4.679E-07	1.246E-06	8.568E-07
35	0.810	6.744E-05	7.324E-05	7.034E-05	84	3.670	4.353E-07	1.247E-06	8.411E-07
36	0.850	1.333E-04	1.398E-04	1.366E-04	85	3.750	4.211E-07	1.136E-06	7.787E-07
37	0.890	1.808E-04	1.878E-04	1.843E-04	86	3.830	-1.062E-08	6.300E-07	3.097E-07
38	0.930	1.439E-04	1.501E-04	1.470E-04	87	3.915	-1.723E-07	4.377E-07	1.327E-07
39	0.970	8.248E-05	8.772E-05	8.510E-05	88	4.005	-8.834E-08	5.280E-07	2.198E-07
40	1.010	6.998E-05	7.506E-05	7.252E-05	89	4.095	-7.072E-08	5.164E-07	2.229E-07
41	1.050	6.229E-05	6.707E-05	6.468E-05	90	4.185	-5.603E-08	6.693E-07	3.066E-07
42	1.090	4.454E-05	4.883E-05	4.669E-05	91	4.275	-6.511E-08	7.658E-07	3.503E-07
43	1.130	3.610E-05	4.003E-05	3.806E-05	92	4.365	-1.758E-07	5.606E-07	1.924E-07
44	1.170	3.360E-05	3.732E-05	3.546E-05	93	4.455	-4.808E-07	1.778E-07	-1.515E-07
45	1.210	2.680E-05	3.019E-05	2.850E-05	94	4.550	-8.779E-07	-7.394E-08	-4.759E-07
46	1.250	2.182E-05	2.611E-05	2.396E-05	95	4.650	-8.980E-07	-1.301E-08	-4.555E-07
47	1.295	1.986E-05	2.288E-05	2.137E-05	96	4.750	-4.884E-07	1.902E-07	-1.491E-07
48	1.345	2.280E-05	2.632E-05	2.456E-05	97	4.850	3.704E-08	4.066E-07	2.218E-07
49	1.395	3.868E-05	4.261E-05	4.064E-05	98	4.950	2.199E-07	6.245E-07	4.222E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 4350 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.523E-05	9.902E-05	6.213E-05	50	1.445	5.467E-05	5.807E-05	5.637E-05
2	0.111	3.832E-05	7.118E-05	5.475E-05	51	1.495	4.444E-05	4.739E-05	4.591E-05
3	0.117	-1.921E-05	1.234E-04	5.210E-05	52	1.545	2.244E-05	2.480E-05	2.362E-05
4	0.125	3.642E-05	9.163E-05	6.403E-05	53	1.595	1.307E-05	1.533E-05	1.420E-05
5	0.135	2.982E-05	1.388E-04	8.431E-05	54	1.645	1.110E-05	1.328E-05	1.219E-05
6	0.145	3.896E-05	1.943E-04	1.166E-04	55	1.695	1.184E-05	1.396E-05	1.290E-05
7	0.155	8.395E-05	1.600E-04	1.220E-04	56	1.745	1.115E-05	1.328E-05	1.222E-05
8	0.165	1.128E-04	1.360E-04	1.244E-04	57	1.800	7.677E-06	9.743E-06	8.710E-06
9	0.175	1.094E-04	1.511E-04	1.303E-04	58	1.860	8.219E-06	1.026E-05	9.238E-06
10	0.185	1.003E-04	1.178E-04	1.091E-04	59	1.920	6.524E-06	8.511E-06	7.517E-06
11	0.200	9.500E-05	1.039E-04	9.947E-05	60	1.980	3.718E-06	5.540E-06	4.629E-06
12	0.220	6.115E-05	6.944E-05	6.530E-05	61	2.040	5.617E-06	7.504E-06	6.560E-06
13	0.240	4.714E-05	5.404E-05	5.059E-05	62	2.100	4.984E-06	6.909E-06	5.947E-06
14	0.260	5.683E-05	6.297E-05	5.990E-05	63	2.160	4.252E-06	6.140E-06	5.196E-06
15	0.280	9.727E-05	1.035E-04	1.004E-04	64	2.220	8.075E-06	1.001E-05	9.041E-06
16	0.300	1.576E-04	1.641E-04	1.608E-04	65	2.280	8.834E-06	1.078E-05	9.808E-06
17	0.320	1.530E-04	1.594E-04	1.562E-04	66	2.340	4.912E-06	6.565E-06	5.739E-06
18	0.340	9.421E-05	9.995E-05	9.708E-05	67	2.405	4.179E-06	5.912E-06	5.046E-06
19	0.360	6.511E-05	7.052E-05	6.782E-05	68	2.475	5.298E-06	6.997E-06	6.148E-06
20	0.380	5.056E-05	5.574E-05	5.315E-05	69	2.545	3.908E-06	5.431E-06	4.670E-06
21	0.400	4.933E-05	5.471E-05	5.202E-05	70	2.615	5.253E-06	6.879E-06	6.066E-06
22	0.420	6.539E-05	7.087E-05	6.813E-05	71	2.685	5.343E-06	6.844E-06	6.094E-06
23	0.445	9.879E-05	1.044E-04	1.016E-04	72	2.755	3.926E-06	5.178E-06	4.552E-06
24	0.475	9.498E-05	1.003E-04	9.765E-05	73	2.825	3.158E-07	1.272E-06	7.938E-07
25	0.505	5.810E-05	6.303E-05	6.056E-05	74	2.895	-1.810E-07	7.786E-07	2.988E-07
26	0.535	7.538E-05	8.029E-05	7.784E-05	75	2.965	4.686E-07	1.452E-06	9.605E-07
27	0.565	6.616E-05	7.096E-05	6.856E-05	76	3.035	1.183E-07	9.751E-07	5.467E-07
28	0.595	4.918E-05	5.369E-05	5.144E-05	77	3.110	5.946E-07	1.539E-06	1.067E-06
29	0.625	6.372E-05	6.847E-05	6.609E-05	78	3.190	2.891E-07	1.111E-06	6.999E-07
30	0.655	7.373E-05	7.842E-05	7.607E-05	79	3.270	2.620E-07	1.017E-06	6.393E-07
31	0.685	5.493E-05	5.931E-05	5.712E-05	80	3.350	8.833E-07	1.650E-06	1.267E-06
32	0.715	4.645E-05	5.066E-05	4.855E-05	81	3.430	5.073E-07	1.185E-06	8.462E-07
33	0.745	7.016E-05	7.462E-05	7.239E-05	82	3.510	-3.133E-08	6.501E-07	3.094E-07
34	0.775	7.073E-05	7.512E-05	7.292E-05	83	3.590	9.208E-08	6.430E-07	3.675E-07
35	0.810	5.679E-05	6.134E-05	5.907E-05	84	3.670	5.578E-08	6.150E-07	3.354E-07
36	0.850	1.125E-04	1.177E-04	1.151E-04	85	3.750	1.786E-07	7.134E-07	4.460E-07
37	0.890	1.604E-04	1.659E-04	1.631E-04	86	3.830	1.265E-07	6.114E-07	3.690E-07
38	0.930	1.254E-04	1.303E-04	1.279E-04	87	3.915	-8.533E-08	3.140E-07	1.143E-07
39	0.970	7.150E-05	7.559E-05	7.355E-05	88	4.005	-4.701E-08	4.150E-07	1.840E-07
40	1.010	5.237E-05	5.622E-05	5.429E-05	89	4.095	-1.055E-08	4.527E-07	2.211E-07
41	1.050	5.183E-05	5.559E-05	5.371E-05	90	4.185	-1.312E-07	2.355E-07	5.218E-08
42	1.090	3.963E-05	4.301E-05	4.132E-05	91	4.275	-2.221E-07	1.408E-07	-4.063E-08
43	1.130	3.209E-05	3.518E-05	3.364E-05	92	4.365	-2.459E-07	1.209E-07	-6.252E-08
44	1.170	2.746E-05	3.031E-05	2.888E-05	93	4.455	-2.200E-07	9.975E-08	-6.014E-08
45	1.210	1.936E-05	2.195E-05	2.065E-05	94	4.550	-1.217E-07	1.653E-07	2.178E-08
46	1.250	1.539E-05	1.861E-05	1.700E-05	95	4.650	2.921E-08	2.563E-07	1.427E-07
47	1.295	1.538E-05	1.768E-05	1.653E-05	96	4.750	1.066E-07	2.973E-07	2.019E-07
48	1.345	1.380E-05	1.640E-05	1.510E-05	97	4.850	6.775E-08	2.362E-07	1.520E-07
49	1.395	2.875E-05	3.175E-05	3.025E-05	98	4.950	2.510E-08	1.192E-07	7.217E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5150 SEC

COUNTING TIME : 800 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	2.100E-05	8.024E-05	5.062E-05	50	1.445	4.269E-05	4.567E-05	4.418E-05
2	0.111	3.001E-05	5.698E-05	4.350E-05	51	1.495	3.131E-05	3.386E-05	3.258E-05
3	0.117	-1.673E-05	9.765E-05	4.046E-05	52	1.545	1.654E-05	1.864E-05	1.759E-05
4	0.125	3.005E-05	7.465E-05	5.235E-05	53	1.595	9.155E-06	1.110E-05	1.013E-05
5	0.135	2.457E-05	1.121E-04	6.834E-05	54	1.645	8.773E-06	1.070E-05	9.735E-06
6	0.145	2.561E-05	1.504E-04	8.799E-05	55	1.695	7.572E-06	9.436E-06	8.504E-06
7	0.155	6.930E-05	1.304E-04	9.983E-05	56	1.745	9.209E-06	1.116E-05	1.018E-05
8	0.165	9.131E-05	1.117E-04	1.015E-04	57	1.800	9.148E-06	1.107E-05	1.011E-05
9	0.175	7.997E-05	1.156E-04	9.780E-05	58	1.860	6.909E-06	8.720E-06	7.815E-06
10	0.185	7.742E-05	9.250E-05	8.496E-05	59	1.920	4.981E-06	6.740E-06	5.861E-06
11	0.200	7.023E-05	7.817E-05	7.420E-05	60	1.980	3.564E-06	5.214E-06	4.389E-06
12	0.220	4.911E-05	5.660E-05	5.285E-05	61	2.040	4.305E-06	5.942E-06	5.124E-06
13	0.240	3.904E-05	4.527E-05	4.216E-05	62	2.100	2.813E-06	4.430E-06	3.621E-06
14	0.260	4.678E-05	5.228E-05	4.953E-05	63	2.160	3.671E-06	5.361E-06	4.516E-06
15	0.280	7.088E-05	7.633E-05	7.361E-05	64	2.220	5.667E-06	7.318E-06	6.492E-06
16	0.300	1.070E-04	1.126E-04	1.098E-04	65	2.280	5.505E-06	7.123E-06	6.314E-06
17	0.320	1.023E-04	1.077E-04	1.050E-04	66	2.340	3.795E-06	5.278E-06	4.537E-06
18	0.340	6.479E-05	6.978E-05	6.728E-05	67	2.405	3.316E-06	4.852E-06	4.084E-06
19	0.360	4.251E-05	4.724E-05	4.488E-05	68	2.475	4.521E-06	6.027E-06	5.274E-06
20	0.380	3.393E-05	3.853E-05	3.623E-05	69	2.545	3.614E-06	4.996E-06	4.305E-06
21	0.400	4.072E-05	4.561E-05	4.316E-05	70	2.615	3.214E-06	4.526E-06	3.870E-06
22	0.420	5.536E-05	6.034E-05	5.785E-05	71	2.685	3.590E-06	4.897E-06	4.243E-06
23	0.445	7.722E-05	8.228E-05	7.975E-05	72	2.755	2.114E-06	3.164E-06	2.639E-06
24	0.475	7.152E-05	7.630E-05	7.391E-05	73	2.825	2.896E-07	1.181E-06	7.351E-07
25	0.505	4.511E-05	4.955E-05	4.733E-05	74	2.895	1.542E-07	1.095E-06	6.248E-07
26	0.535	5.930E-05	6.373E-05	6.151E-05	75	2.965	2.199E-08	8.548E-07	4.384E-07
27	0.565	5.150E-05	5.583E-05	5.366E-05	76	3.035	1.644E-07	9.839E-07	5.742E-07
28	0.595	3.996E-05	4.407E-05	4.201E-05	77	3.110	4.930E-07	1.319E-06	9.060E-07
29	0.625	5.405E-05	5.840E-05	5.622E-05	78	3.190	9.493E-08	8.855E-07	4.902E-07
30	0.655	6.355E-05	6.786E-05	6.571E-05	79	3.270	-4.599E-08	6.072E-07	2.806E-07
31	0.685	4.447E-05	4.844E-05	4.645E-05	80	3.350	1.799E-07	8.482E-07	5.141E-07
32	0.715	4.279E-05	4.666E-05	4.473E-05	81	3.430	1.768E-07	7.733E-07	4.750E-07
33	0.745	5.854E-05	6.260E-05	6.057E-05	82	3.510	1.892E-07	7.224E-07	4.558E-07
34	0.775	5.695E-05	6.096E-05	5.895E-05	83	3.590	1.314E-07	7.158E-07	4.236E-07
35	0.810	5.050E-05	5.473E-05	5.262E-05	84	3.670	9.710E-08	5.421E-07	3.196E-07
36	0.850	1.052E-04	1.101E-04	1.077E-04	85	3.750	8.426E-08	5.281E-07	3.062E-07
37	0.890	1.362E-04	1.413E-04	1.388E-04	86	3.830	8.505E-08	5.332E-07	3.091E-07
38	0.930	9.956E-05	1.039E-04	1.017E-04	87	3.915	1.577E-08	5.016E-07	2.587E-07
39	0.970	5.165E-05	5.521E-05	5.343E-05	88	4.005	-5.802E-08	4.466E-07	1.943E-07
40	1.010	4.157E-05	4.501E-05	4.329E-05	89	4.095	-4.273E-08	4.583E-07	2.078E-07
41	1.050	3.875E-05	4.206E-05	4.041E-05	90	4.185	-9.619E-08	4.309E-07	1.673E-07
42	1.090	2.978E-05	3.279E-05	3.128E-05	91	4.275	-2.888E-07	3.213E-07	1.628E-08
43	1.130	2.710E-05	2.992E-05	2.851E-05	92	4.365	-4.470E-07	1.513E-07	-1.479E-07
44	1.170	2.252E-05	2.509E-05	2.380E-05	93	4.455	-5.850E-07	-5.983E-09	-2.955E-07
45	1.210	1.518E-05	1.744E-05	1.631E-05	94	4.550	-6.014E-07	-7.434E-08	-3.379E-07
46	1.250	9.971E-06	1.280E-05	1.139E-05	95	4.650	-4.213E-07	9.973E-08	-1.608E-07
47	1.295	1.116E-05	1.322E-05	1.219E-05	96	4.750	-1.526E-07	3.170E-07	8.223E-08
48	1.345	1.349E-05	1.592E-05	1.471E-05	97	4.850	8.308E-08	4.070E-07	2.450E-07
49	1.395	2.753E-05	3.033E-05	2.893E-05	98	4.950	1.645E-07	4.034E-07	2.839E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 5950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	1.180E-05	5.850E-05	3.515E-05	50	1.445	3.343E-05	3.579E-05	3.461E-05
2	0.111	2.346E-05	4.458E-05	3.402E-05	51	1.495	2.469E-05	2.668E-05	2.569E-05
3	0.117	-1.243E-05	7.804E-05	3.281E-05	52	1.545	1.176E-05	1.337E-05	1.257E-05
4	0.125	2.161E-05	5.670E-05	3.916E-05	53	1.595	5.817E-06	7.309E-06	6.563E-06
5	0.135	1.899E-05	8.921E-05	5.410E-05	54	1.645	5.645E-06	7.122E-06	6.383E-06
6	0.145	2.330E-05	1.233E-04	7.329E-05	55	1.695	6.837E-06	8.341E-06	7.589E-06
7	0.155	5.608E-05	1.050E-04	8.056E-05	56	1.745	6.804E-06	8.330E-06	7.567E-06
8	0.165	7.309E-05	8.952E-05	8.130E-05	57	1.800	5.961E-06	7.433E-06	6.697E-06
9	0.175	6.277E-05	9.144E-05	7.711E-05	58	1.860	4.785E-06	6.225E-06	5.505E-06
10	0.185	5.720E-05	6.932E-05	6.326E-05	59	1.920	4.155E-06	5.567E-06	4.861E-06
11	0.200	5.320E-05	5.959E-05	5.640E-05	60	1.980	2.016E-06	3.301E-06	2.658E-06
12	0.220	4.044E-05	4.652E-05	4.348E-05	61	2.040	3.549E-06	4.872E-06	4.211E-06
13	0.240	3.640E-05	4.145E-05	3.892E-05	62	2.100	3.215E-06	4.575E-06	3.895E-06
14	0.260	3.916E-05	4.356E-05	4.136E-05	63	2.160	2.866E-06	4.170E-06	3.518E-06
15	0.280	5.253E-05	5.680E-05	5.467E-05	64	2.220	5.344E-06	6.659E-06	6.001E-06
16	0.300	7.230E-05	7.661E-05	7.445E-05	65	2.280	4.226E-06	5.510E-06	4.868E-06
17	0.320	7.187E-05	7.611E-05	7.399E-05	66	2.340	4.000E-06	5.214E-06	4.607E-06
18	0.340	4.655E-05	5.045E-05	4.850E-05	67	2.405	3.045E-06	4.256E-06	3.651E-06
19	0.360	2.805E-05	3.174E-05	2.989E-05	68	2.475	2.814E-06	3.918E-06	3.366E-06
20	0.380	2.078E-05	2.438E-05	2.258E-05	69	2.545	2.436E-06	3.518E-06	2.977E-06
21	0.400	2.899E-05	3.287E-05	3.093E-05	70	2.615	3.054E-06	4.101E-06	3.578E-06
22	0.420	4.244E-05	4.645E-05	4.445E-05	71	2.685	1.495E-06	2.357E-06	1.926E-06
23	0.445	6.506E-05	6.916E-05	6.711E-05	72	2.755	1.227E-06	2.041E-06	1.634E-06
24	0.475	5.783E-05	6.170E-05	5.977E-05	73	2.825	6.163E-07	1.321E-06	9.686E-07
25	0.505	3.566E-05	3.923E-05	3.744E-05	74	2.895	1.505E-07	8.140E-07	4.822E-07
26	0.535	4.571E-05	4.927E-05	4.749E-05	75	2.965	2.290E-07	8.737E-07	5.513E-07
27	0.565	4.173E-05	4.522E-05	4.347E-05	76	3.035	6.726E-07	1.364E-06	1.018E-06
28	0.595	2.967E-05	3.297E-05	3.132E-05	77	3.110	7.053E-07	1.339E-06	1.022E-06
29	0.625	4.710E-05	5.066E-05	4.888E-05	78	3.190	2.510E-07	8.145E-07	5.328E-07
30	0.655	5.473E-05	5.825E-05	5.649E-05	79	3.270	-7.987E-08	4.013E-07	1.607E-07
31	0.685	3.556E-05	3.876E-05	3.716E-05	80	3.350	-2.118E-07	2.131E-07	6.556E-08
32	0.715	3.485E-05	3.799E-05	3.642E-05	81	3.430	-3.690E-08	4.134E-07	1.882E-07
33	0.745	4.994E-05	5.324E-05	5.159E-05	82	3.510	1.662E-08	4.049E-07	2.108E-07
34	0.775	4.708E-05	5.032E-05	4.870E-05	83	3.590	8.127E-08	4.533E-07	2.673E-07
35	0.810	3.992E-05	4.334E-05	4.163E-05	84	3.670	1.609E-07	5.369E-07	3.489E-07
36	0.850	8.973E-05	9.371E-05	9.172E-05	85	3.750	1.845E-07	5.221E-07	3.533E-07
37	0.890	1.185E-04	1.227E-04	1.206E-04	86	3.830	1.428E-07	5.131E-07	3.279E-07
38	0.930	8.015E-05	8.364E-05	8.190E-05	87	3.915	-4.079E-08	2.880E-07	1.236E-07
39	0.970	4.267E-05	4.554E-05	4.410E-05	88	4.005	-1.751E-07	1.012E-07	-3.693E-08
40	1.010	3.183E-05	3.458E-05	3.321E-05	89	4.095	-1.557E-07	1.370E-07	-9.346E-09
41	1.050	3.188E-05	3.456E-05	3.322E-05	90	4.185	-9.280E-08	1.818E-07	4.451E-08
42	1.090	2.684E-05	2.930E-05	2.807E-05	91	4.275	-6.943E-08	2.258E-07	7.816E-08
43	1.130	2.289E-05	2.515E-05	2.402E-05	92	4.365	-6.707E-08	1.961E-07	6.451E-08
44	1.170	1.824E-05	2.029E-05	1.927E-05	93	4.455	-1.334E-07	1.509E-07	8.764E-09
45	1.210	1.251E-05	1.433E-05	1.342E-05	94	4.550	-1.796E-07	8.667E-08	-4.647E-08
46	1.250	1.146E-05	1.380E-05	1.263E-05	95	4.650	-1.536E-07	4.894E-08	-5.235E-08
47	1.295	1.024E-05	1.189E-05	1.106E-05	96	4.750	-6.466E-08	7.826E-08	6.798E-09
48	1.345	1.074E-05	1.265E-05	1.170E-05	97	4.850	1.206E-08	1.547E-07	8.339E-08
49	1.395	2.225E-05	2.447E-05	2.336E-05	98	4.950	5.353E-08	1.692E-07	1.114E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 6950 SEC

COUNTING TIME : 1000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	6.013E-06	4.373E-05	2.487E-05	50	1.445	2.677E-05	2.887E-05	2.782E-05
2	0.111	1.774E-05	3.505E-05	2.640E-05	51	1.495	1.771E-05	1.943E-05	1.857E-05
3	0.117	-1.027E-05	6.301E-05	2.637E-05	52	1.545	7.340E-06	8.717E-06	8.028E-06
4	0.125	1.701E-05	4.549E-05	3.125E-05	53	1.595	4.377E-06	5.759E-06	5.068E-06
5	0.135	1.633E-05	7.434E-05	4.534E-05	54	1.645	3.843E-06	5.123E-06	4.483E-06
6	0.145	1.965E-05	1.022E-04	6.092E-05	55	1.695	5.066E-06	6.428E-06	5.747E-06
7	0.155	4.667E-05	8.708E-05	6.688E-05	56	1.745	5.809E-06	7.209E-06	6.509E-06
8	0.165	5.925E-05	7.383E-05	6.654E-05	57	1.800	6.319E-06	7.706E-06	7.012E-06
9	0.175	4.944E-05	7.426E-05	6.185E-05	58	1.860	5.073E-06	6.387E-06	5.730E-06
10	0.185	4.630E-05	5.686E-05	5.158E-05	59	1.920	3.357E-06	4.624E-06	3.990E-06
11	0.200	4.009E-05	4.578E-05	4.293E-05	60	1.980	2.459E-06	3.651E-06	3.055E-06
12	0.220	3.159E-05	3.706E-05	3.432E-05	61	2.040	4.025E-06	5.246E-06	4.636E-06
13	0.240	2.884E-05	3.338E-05	3.111E-05	62	2.100	2.048E-06	3.181E-06	2.614E-06
14	0.260	3.121E-05	3.514E-05	3.318E-05	63	2.160	1.582E-06	2.728E-06	2.155E-06
15	0.280	3.517E-05	3.889E-05	3.703E-05	64	2.220	3.438E-06	4.559E-06	3.998E-06
16	0.300	4.786E-05	5.157E-05	4.971E-05	65	2.280	3.154E-06	4.249E-06	3.701E-06
17	0.320	4.772E-05	5.138E-05	4.955E-05	66	2.340	1.020E-06	1.995E-06	1.507E-06
18	0.340	3.153E-05	3.497E-05	3.325E-05	67	2.405	2.776E-06	3.885E-06	3.330E-06
19	0.360	2.049E-05	2.381E-05	2.215E-05	68	2.475	3.273E-06	4.306E-06	3.790E-06
20	0.380	1.877E-05	2.207E-05	2.042E-05	69	2.545	1.802E-06	2.717E-06	2.260E-06
21	0.400	2.566E-05	2.921E-05	2.743E-05	70	2.615	2.674E-06	3.616E-06	3.145E-06
22	0.420	3.370E-05	3.729E-05	3.550E-05	71	2.685	1.697E-06	2.488E-06	2.093E-06
23	0.445	4.478E-05	4.840E-05	4.659E-05	72	2.755	3.840E-07	1.032E-06	7.081E-07
24	0.475	4.262E-05	4.608E-05	4.435E-05	73	2.825	2.877E-07	9.015E-07	5.946E-07
25	0.505	2.974E-05	3.301E-05	3.137E-05	74	2.895	2.900E-08	6.193E-07	3.241E-07
26	0.535	4.069E-05	4.396E-05	4.232E-05	75	2.965	-1.559E-07	3.651E-07	1.046E-07
27	0.565	3.354E-05	3.672E-05	3.513E-05	76	3.035	1.973E-07	7.567E-07	4.770E-07
28	0.595	2.573E-05	2.876E-05	2.725E-05	77	3.110	2.332E-07	7.905E-07	5.118E-07
29	0.625	3.915E-05	4.242E-05	4.078E-05	78	3.190	-2.173E-07	2.587E-07	2.069E-08
30	0.655	4.852E-05	5.177E-05	5.014E-05	79	3.270	-9.662E-08	3.575E-07	1.305E-07
31	0.685	3.236E-05	3.532E-05	3.384E-05	80	3.350	1.665E-07	6.838E-07	4.251E-07
32	0.715	3.062E-05	3.349E-05	3.205E-05	81	3.430	1.481E-07	5.501E-07	3.491E-07
33	0.745	4.124E-05	4.424E-05	4.274E-05	82	3.510	4.589E-08	4.171E-07	2.315E-07
34	0.775	3.692E-05	3.985E-05	3.838E-05	83	3.590	5.747E-08	4.062E-07	2.319E-07
35	0.810	3.492E-05	3.807E-05	3.649E-05	84	3.670	1.651E-07	5.227E-07	3.439E-07
36	0.850	7.649E-05	8.015E-05	7.832E-05	85	3.750	1.845E-07	5.371E-07	3.608E-07
37	0.890	9.947E-05	1.032E-04	1.013E-04	86	3.830	-2.102E-08	2.964E-07	1.377E-07
38	0.930	6.425E-05	6.737E-05	6.581E-05	87	3.915	-1.936E-07	1.124E-07	-4.060E-08
39	0.970	3.109E-05	3.361E-05	3.235E-05	88	4.005	-2.194E-07	9.921E-08	-6.009E-08
40	1.010	2.573E-05	2.821E-05	2.697E-05	89	4.095	-1.904E-07	1.124E-07	-3.900E-08
41	1.050	2.515E-05	2.753E-05	2.634E-05	90	4.185	-1.358E-07	1.949E-07	2.955E-08
42	1.090	2.020E-05	2.239E-05	2.129E-05	91	4.275	-7.837E-08	2.441E-07	8.285E-08
43	1.130	1.706E-05	1.906E-05	1.806E-05	92	4.365	-8.403E-08	2.324E-07	7.420E-08
44	1.170	1.559E-05	1.746E-05	1.652E-05	93	4.455	-1.531E-07	1.694E-07	8.181E-09
45	1.210	1.040E-05	1.202E-05	1.121E-05	94	4.550	-2.006E-07	7.933E-08	-6.064E-08
46	1.250	7.656E-06	9.723E-06	8.690E-06	95	4.650	-1.815E-07	7.578E-08	-5.287E-08
47	1.295	7.472E-06	8.925E-06	8.198E-06	96	4.750	-9.227E-08	1.180E-07	1.286E-08
48	1.345	9.760E-06	1.154E-05	1.065E-05	97	4.850	2.237E-08	1.665E-07	9.446E-08
49	1.395	1.862E-05	2.065E-05	1.963E-05	98	4.950	7.741E-08	1.872E-07	1.323E-07

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 7950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	4.062E-06	3.171E-05	1.789E-05	50	1.445	1.919E-05	2.044E-05	1.982E-05
2	0.111	1.469E-05	2.697E-05	2.083E-05	51	1.495	1.185E-05	1.286E-05	1.236E-05
3	0.117	-6.331E-06	4.730E-05	2.048E-05	52	1.545	5.229E-06	6.065E-06	5.647E-06
4	0.125	1.226E-05	3.295E-05	2.261E-05	53	1.595	3.283E-06	4.103E-06	3.693E-06
5	0.135	1.209E-05	5.363E-05	3.286E-05	54	1.645	3.784E-06	4.588E-06	4.186E-06
6	0.145	1.256E-05	7.176E-05	4.216E-05	55	1.695	4.043E-06	4.851E-06	4.447E-06
7	0.155	3.443E-05	6.341E-05	4.892E-05	56	1.745	3.930E-06	4.760E-06	4.345E-06
8	0.165	4.510E-05	5.428E-05	4.969E-05	57	1.800	5.178E-06	6.028E-06	5.603E-06
9	0.175	3.532E-05	5.169E-05	4.351E-05	58	1.860	4.772E-06	5.586E-06	5.179E-06
10	0.185	3.349E-05	4.037E-05	3.693E-05	59	1.920	3.180E-06	3.951E-06	3.566E-06
11	0.200	2.723E-05	3.078E-05	2.901E-05	60	1.980	9.463E-07	1.605E-06	1.276E-06
12	0.220	2.616E-05	2.958E-05	2.787E-05	61	2.040	1.566E-06	2.249E-06	1.907E-06
13	0.240	2.738E-05	3.021E-05	2.879E-05	62	2.100	1.640E-06	2.346E-06	1.993E-06
14	0.260	2.782E-05	3.025E-05	2.904E-05	63	2.160	1.301E-06	1.990E-06	1.645E-06
15	0.280	2.588E-05	2.811E-05	2.700E-05	64	2.220	2.642E-06	3.333E-06	2.988E-06
16	0.300	3.002E-05	3.220E-05	3.111E-05	65	2.280	1.906E-06	2.556E-06	2.231E-06
17	0.320	3.040E-05	3.256E-05	3.148E-05	66	2.340	6.346E-07	1.221E-06	9.276E-07
18	0.340	2.053E-05	2.258E-05	2.156E-05	67	2.405	2.528E-06	3.224E-06	2.876E-06
19	0.360	1.146E-05	1.344E-05	1.245E-05	68	2.475	2.459E-06	3.107E-06	2.783E-06
20	0.380	1.258E-05	1.458E-05	1.358E-05	69	2.545	1.669E-06	2.248E-06	1.958E-06
21	0.400	2.061E-05	2.279E-05	2.170E-05	70	2.615	2.076E-06	2.672E-06	2.374E-06
22	0.420	2.508E-05	2.726E-05	2.617E-05	71	2.685	1.448E-06	1.929E-06	1.689E-06
23	0.445	2.875E-05	3.091E-05	2.983E-05	72	2.755	7.253E-07	1.146E-06	9.357E-07
24	0.475	2.973E-05	3.183E-05	3.078E-05	73	2.825	1.965E-07	5.379E-07	3.672E-07
25	0.505	2.334E-05	2.537E-05	2.436E-05	74	2.895	-3.186E-08	2.871E-07	1.276E-07
26	0.535	3.249E-05	3.453E-05	3.351E-05	75	2.965	5.785E-08	3.962E-07	2.270E-07
27	0.565	2.635E-05	2.832E-05	2.733E-05	76	3.035	2.482E-07	5.598E-07	4.040E-07
28	0.595	2.033E-05	2.221E-05	2.127E-05	77	3.110	4.979E-07	8.416E-07	6.697E-07
29	0.625	3.047E-05	3.249E-05	3.148E-05	78	3.190	2.852E-07	5.616E-07	4.234E-07
30	0.655	3.735E-05	3.937E-05	3.836E-05	79	3.270	-2.568E-08	1.841E-07	7.919E-08
31	0.685	2.893E-05	3.082E-05	2.988E-05	80	3.350	-5.819E-09	2.221E-07	1.082E-07
32	0.715	2.638E-05	2.819E-05	2.728E-05	81	3.430	1.416E-07	3.314E-07	2.365E-07
33	0.745	3.484E-05	3.673E-05	3.578E-05	82	3.510	1.063E-07	3.084E-07	2.074E-07
34	0.775	3.121E-05	3.306E-05	3.214E-05	83	3.590	2.132E-08	1.864E-07	1.039E-07
35	0.810	2.898E-05	3.096E-05	2.997E-05	84	3.670	-6.730E-09	2.129E-07	1.031E-07
36	0.850	6.335E-05	6.564E-05	6.449E-05	85	3.750	-2.150E-08	1.653E-07	7.192E-08
37	0.890	7.804E-05	8.037E-05	7.920E-05	86	3.830	-3.185E-08	1.129E-07	4.052E-08
38	0.930	5.020E-05	5.212E-05	5.116E-05	87	3.915	-2.648E-08	9.974E-08	3.663E-08
39	0.970	2.448E-05	2.603E-05	2.525E-05	88	4.005	-5.532E-08	8.145E-08	1.306E-08
40	1.010	1.932E-05	2.082E-05	2.007E-05	89	4.095	-8.638E-08	9.477E-08	4.193E-09
41	1.050	1.859E-05	2.004E-05	1.931E-05	90	4.185	-8.484E-08	9.000E-08	2.581E-09
42	1.090	1.535E-05	1.670E-05	1.603E-05	91	4.275	-7.674E-08	5.069E-08	-1.302E-08
43	1.130	1.583E-05	1.711E-05	1.647E-05	92	4.365	-7.837E-08	2.709E-08	-2.564E-08
44	1.170	1.366E-05	1.483E-05	1.424E-05	93	4.455	-4.979E-08	5.642E-08	3.311E-09
45	1.210	8.446E-06	9.444E-06	8.945E-06	94	4.550	-1.863E-08	1.137E-07	4.756E-08
46	1.250	6.782E-06	8.050E-06	7.416E-06	95	4.650	1.845E-08	1.035E-07	6.098E-08
47	1.295	6.597E-06	7.506E-06	7.052E-06	96	4.750	2.120E-08	7.766E-08	4.943E-08
48	1.345	7.222E-06	8.298E-06	7.760E-06	97	4.850	8.645E-09	5.352E-08	3.108E-08
49	1.395	1.604E-05	1.729E-05	1.667E-05	98	4.950	3.806E-09	2.602E-08	1.491E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 9950 SEC

COUNTING TIME : 2000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-2.170E-06	1.811E-05	7.968E-06	50	1.445	1.274E-05	1.376E-05	1.325E-05
2	0.111	1.222E-05	2.148E-05	1.685E-05	51	1.495	6.737E-06	7.545E-06	7.141E-06
3	0.117	-6.594E-07	3.879E-05	1.907E-05	52	1.545	2.734E-06	3.413E-06	3.073E-06
4	0.125	8.430E-06	2.375E-05	1.609E-05	53	1.595	1.985E-06	2.675E-06	2.330E-06
5	0.135	7.726E-06	3.880E-05	2.326E-05	54	1.645	2.071E-06	2.745E-06	2.408E-06
6	0.145	1.007E-05	5.434E-05	3.220E-05	55	1.695	3.307E-06	4.030E-06	3.669E-06
7	0.155	2.300E-05	4.462E-05	3.381E-05	56	1.745	2.950E-06	3.669E-06	3.310E-06
8	0.165	3.007E-05	3.795E-05	3.401E-05	57	1.800	3.671E-06	4.403E-06	4.037E-06
9	0.175	2.447E-05	3.790E-05	3.119E-05	58	1.860	3.212E-06	3.913E-06	3.563E-06
10	0.185	2.271E-05	2.842E-05	2.557E-05	59	1.920	2.421E-06	3.096E-06	2.759E-06
11	0.200	1.834E-05	2.143E-05	1.988E-05	60	1.980	1.334E-06	1.938E-06	1.636E-06
12	0.220	1.814E-05	2.118E-05	1.966E-05	61	2.040	1.233E-06	1.834E-06	1.533E-06
13	0.240	2.251E-05	2.507E-05	2.379E-05	62	2.100	1.111E-06	1.703E-06	1.407E-06
14	0.260	2.359E-05	2.576E-05	2.467E-05	63	2.160	1.038E-06	1.625E-06	1.332E-06
15	0.280	1.862E-05	2.056E-05	1.959E-05	64	2.220	1.628E-06	2.207E-06	1.917E-06
16	0.300	1.885E-05	2.070E-05	1.978E-05	65	2.280	1.190E-06	1.739E-06	1.465E-06
17	0.320	1.924E-05	2.107E-05	2.016E-05	66	2.340	5.846E-07	1.094E-06	8.395E-07
18	0.340	1.339E-05	1.514E-05	1.426E-05	67	2.405	1.643E-06	2.235E-06	1.939E-06
19	0.360	7.295E-06	8.995E-06	8.145E-06	68	2.475	2.062E-06	2.614E-06	2.338E-06
20	0.380	7.439E-06	9.152E-06	8.295E-06	69	2.545	1.393E-06	1.916E-06	1.654E-06
21	0.400	1.379E-05	1.566E-05	1.473E-05	70	2.615	1.361E-06	1.827E-06	1.594E-06
22	0.420	1.795E-05	1.983E-05	1.889E-05	71	2.685	6.438E-07	1.022E-06	8.328E-07
23	0.445	1.978E-05	2.164E-05	2.071E-05	72	2.755	3.436E-07	6.750E-07	5.093E-07
24	0.475	1.943E-05	2.125E-05	2.034E-05	73	2.825	1.407E-07	4.459E-07	2.933E-07
25	0.505	1.992E-05	2.172E-05	2.082E-05	74	2.895	-1.520E-07	1.256E-07	-1.318E-08
26	0.535	2.605E-05	2.785E-05	2.695E-05	75	2.965	-1.505E-08	2.649E-07	1.249E-07
27	0.565	2.090E-05	2.262E-05	2.176E-05	76	3.035	3.124E-07	6.238E-07	4.681E-07
28	0.595	1.444E-05	1.606E-05	1.525E-05	77	3.110	2.277E-07	4.973E-07	3.625E-07
29	0.625	2.185E-05	2.361E-05	2.273E-05	78	3.190	-1.133E-08	2.027E-07	9.567E-08
30	0.655	3.144E-05	3.325E-05	3.234E-05	79	3.270	4.400E-08	2.778E-07	1.609E-07
31	0.685	2.468E-05	2.637E-05	2.553E-05	80	3.350	5.404E-08	2.586E-07	1.563E-07
32	0.715	2.254E-05	2.416E-05	2.335E-05	81	3.430	1.795E-08	2.679E-07	1.429E-07
33	0.745	2.994E-05	3.163E-05	3.078E-05	82	3.510	4.388E-08	2.288E-07	1.363E-07
34	0.775	2.511E-05	2.672E-05	2.591E-05	83	3.590	5.136E-08	2.383E-07	1.449E-07
35	0.810	1.983E-05	2.150E-05	2.066E-05	84	3.670	2.141E-08	1.952E-07	1.083E-07
36	0.850	4.407E-05	4.601E-05	4.504E-05	85	3.750	-5.001E-08	1.019E-07	2.596E-08
37	0.890	5.650E-05	5.850E-05	5.750E-05	86	3.830	-5.079E-08	9.930E-08	2.425E-08
38	0.930	3.571E-05	3.736E-05	3.653E-05	87	3.915	-4.064E-08	1.021E-07	3.074E-08
39	0.970	1.829E-05	1.962E-05	1.895E-05	88	4.005	-6.998E-08	5.906E-08	-5.459E-09
40	1.010	1.320E-05	1.449E-05	1.385E-05	89	4.095	-6.534E-08	8.224E-08	8.453E-09
41	1.050	1.319E-05	1.444E-05	1.382E-05	90	4.185	-3.635E-08	1.213E-07	4.247E-08
42	1.090	1.294E-05	1.413E-05	1.354E-05	91	4.275	-4.640E-08	9.566E-08	2.463E-08
43	1.130	1.104E-05	1.212E-05	1.158E-05	92	4.365	-6.881E-08	4.474E-08	-1.203E-08
44	1.170	9.314E-06	1.030E-05	9.809E-06	93	4.455	-5.807E-08	4.127E-08	-8.399E-09
45	1.210	6.376E-06	7.245E-06	6.810E-06	94	4.550	-4.218E-08	7.341E-08	1.561E-08
46	1.250	6.671E-06	7.812E-06	7.241E-06	95	4.650	-1.891E-08	6.935E-08	2.522E-08
47	1.295	5.872E-06	6.684E-06	6.278E-06	96	4.750	-1.531E-09	6.368E-08	3.108E-08
48	1.345	6.285E-06	7.229E-06	6.757E-06	97	4.850	1.302E-08	5.680E-08	3.491E-08
49	1.395	1.165E-05	1.272E-05	1.219E-05	98	4.950	1.733E-08	4.620E-08	3.176E-08



SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF <sup>239</sup>Pu BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 11950 SEC

COUNTING TIME : 3000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-2.553E-06	1.264E-05	5.041E-06	50	1.445	8.922E-06	9.615E-06	9.269E-06
2	0.111	1.097E-05	1.786E-05	1.442E-05	51	1.495	4.467E-06	5.013E-06	4.740E-06
3	0.117	2.481E-06	3.209E-05	1.728E-05	52	1.545	1.302E-06	1.739E-06	1.520E-06
4	0.125	8.008E-06	1.946E-05	1.373E-05	53	1.595	1.172E-06	1.637E-06	1.404E-06
5	0.135	6.802E-06	2.994E-05	1.837E-05	54	1.645	1.284E-06	1.747E-06	1.515E-06
6	0.145	8.328E-06	4.132E-05	2.482E-05	55	1.695	2.289E-06	2.780E-06	2.534E-06
7	0.155	1.679E-05	3.287E-05	2.483E-05	56	1.745	2.752E-06	3.268E-06	3.010E-06
8	0.165	2.082E-05	2.650E-05	2.366E-05	57	1.800	2.592E-06	3.101E-06	2.846E-06
9	0.175	1.608E-05	2.589E-05	2.099E-05	58	1.860	2.613E-06	3.109E-06	2.861E-06
10	0.185	1.512E-05	1.927E-05	1.719E-05	59	1.920	1.252E-06	1.693E-06	1.472E-06
11	0.200	1.234E-05	1.457E-05	1.345E-05	60	1.980	4.844E-07	4.97E-07	6.877E-07
12	0.220	1.514E-05	1.736E-05	1.625E-05	61	2.040	1.140E-06	1.575E-06	1.358E-06
13	0.240	2.116E-05	2.302E-05	2.209E-05	62	2.100	9.318E-07	1.354E-06	1.143E-06
14	0.260	2.085E-05	2.241E-05	2.163E-05	63	2.160	6.985E-07	1.093E-06	8.958E-07
15	0.280	1.452E-05	1.589E-05	1.520E-05	64	2.220	1.043E-06	1.433E-06	1.238E-06
16	0.300	1.358E-05	1.486E-05	1.422E-05	65	2.280	6.018E-07	9.694E-07	7.856E-07
17	0.320	1.333E-05	1.459E-05	1.396E-05	66	2.340	2.826E-07	6.355E-07	4.590E-07
18	0.340	9.105E-06	1.031E-05	9.709E-06	67	2.405	1.057E-06	1.473E-06	1.265E-06
19	0.360	5.201E-06	6.381E-06	5.791E-06	68	2.475	1.681E-06	2.091E-06	1.886E-06
20	0.380	6.279E-06	7.475E-06	6.877E-06	69	2.545	1.223E-06	1.586E-06	1.405E-06
21	0.400	1.018E-05	1.147E-05	1.082E-05	70	2.615	9.471E-07	1.285E-06	1.116E-06
22	0.420	1.183E-05	1.310E-05	1.247E-05	71	2.685	3.862E-07	6.642E-07	5.252E-07
23	0.445	1.192E-05	1.318E-05	1.255E-05	72	2.755	1.817E-07	4.314E-07	3.065E-07
24	0.475	1.287E-05	1.411E-05	1.349E-05	73	2.825	1.041E-07	3.493E-07	2.267E-07
25	0.505	1.475E-05	1.601E-05	1.538E-05	74	2.895	5.199E-08	3.014E-07	1.767E-07
26	0.535	2.095E-05	2.222E-05	2.159E-05	75	2.965	7.833E-08	3.208E-07	1.996E-07
27	0.565	1.669E-05	1.789E-05	1.729E-05	76	3.035	2.331E-07	4.658E-07	3.494E-07
28	0.595	1.063E-05	1.176E-05	1.119E-05	77	3.110	1.488E-07	3.830E-07	2.659E-07
29	0.625	1.715E-05	1.838E-05	1.777E-05	78	3.190	-7.016E-08	1.566E-07	4.320E-08
30	0.655	2.552E-05	2.681E-05	2.617E-05	79	3.270	-5.876E-08	1.810E-07	6.112E-08
31	0.685	2.043E-05	2.164E-05	2.103E-05	80	3.350	-1.239E-07	7.126E-08	-2.634E-08
32	0.715	1.820E-05	1.935E-05	1.878E-05	81	3.430	-8.988E-08	1.033E-07	6.722E-09
33	0.745	2.301E-05	2.420E-05	2.360E-05	82	3.510	3.307E-08	2.058E-07	1.194E-07
34	0.775	1.954E-05	2.066E-05	2.010E-05	83	3.590	1.905E-08	2.074E-07	1.132E-07
35	0.810	1.415E-05	1.529E-05	1.472E-05	84	3.670	-2.484E-08	1.794E-07	7.730E-08
36	0.850	2.923E-05	3.054E-05	2.988E-05	85	3.750	-3.136E-08	2.408E-07	1.047E-07
37	0.890	3.828E-05	3.963E-05	3.895E-05	86	3.830	4.304E-09	2.355E-07	1.199E-07
38	0.930	2.412E-05	2.524E-05	2.468E-05	87	3.915	-2.201E-08	1.344E-07	5.618E-08
39	0.970	1.262E-05	1.353E-05	1.307E-05	88	4.005	-1.050E-07	3.642E-08	-3.431E-08
40	1.010	9.808E-06	1.070E-05	1.025E-05	89	4.095	-1.268E-07	1.778E-08	-5.453E-08
41	1.050	8.920E-06	9.773E-06	9.347E-06	90	4.185	-8.624E-08	5.707E-08	-1.458E-08
42	1.090	8.618E-06	9.431E-06	9.024E-06	91	4.275	-4.200E-08	1.181E-07	3.804E-08
43	1.130	8.430E-06	9.192E-06	8.811E-06	92	4.365	-3.295E-08	1.265E-07	4.675E-08
44	1.170	7.737E-06	8.435E-06	8.086E-06	93	4.455	-4.805E-08	8.421E-08	1.808E-08
45	1.210	4.427E-06	5.025E-06	4.726E-06	94	4.550	-7.697E-08	5.119E-08	-1.289E-08
46	1.250	3.916E-06	4.691E-06	4.303E-06	95	4.650	-8.356E-08	4.561E-08	-1.897E-08
47	1.295	5.129E-06	5.716E-06	5.422E-06	96	4.750	-5.404E-08	5.381E-08	-1.118E-10
48	1.345	5.027E-06	5.696E-06	5.362E-06	97	4.850	2.473E-09	6.723E-08	3.485E-08
49	1.395	9.085E-06	9.828E-06	9.457E-06	98	4.950	3.785E-08	8.589E-08	6.187E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 14950 SEC

COUNTING TIME : 3000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-7.737E-06	2.971E-06	-2.383E-06	50	1.445	6.153E-06	6.748E-06	6.451E-06
2	0.111	8.855E-06	1.370E-05	1.128E-05	51	1.495	3.335E-06	3.818E-06	3.576E-06
3	0.117	5.027E-06	2.635E-05	1.569E-05	52	1.545	1.652E-06	2.066E-06	1.859E-06
4	0.125	4.894E-06	1.297E-05	8.932E-06	53	1.595	8.805E-07	1.281E-06	1.081E-06
5	0.135	5.282E-06	2.351E-05	1.439E-05	54	1.645	8.264E-07	1.222E-06	1.024E-06
6	0.145	8.740E-06	3.468E-05	2.171E-05	55	1.695	2.108E-06	2.556E-06	2.332E-06
7	0.155	1.158E-05	2.415E-05	1.787E-05	56	1.745	2.546E-06	3.008E-06	2.777E-06
8	0.165	1.395E-05	1.898E-05	1.646E-05	57	1.800	1.873E-06	2.299E-06	2.086E-06
9	0.175	1.084E-05	1.923E-05	1.503E-05	58	1.860	1.697E-06	2.131E-06	1.914E-06
10	0.185	9.250E-06	1.282E-05	1.104E-05	59	1.920	1.236E-06	1.634E-06	1.435E-06
11	0.200	7.885E-06	9.885E-06	8.885E-06	60	1.980	4.273E-07	7.780E-07	6.026E-07
12	0.220	1.190E-05	1.396E-05	1.293E-05	61	2.040	4.607E-07	7.947E-07	6.277E-07
13	0.240	1.976E-05	2.150E-05	2.063E-05	62	2.100	4.596E-07	8.136E-07	6.366E-07
14	0.260	1.916E-05	2.059E-05	1.987E-05	63	2.160	1.281E-07	4.458E-07	2.869E-07
15	0.280	1.113E-05	1.234E-05	1.173E-05	64	2.220	5.086E-07	8.344E-07	6.715E-07
16	0.300	9.099E-06	1.021E-05	9.654E-06	65	2.280	5.717E-07	9.071E-07	7.394E-07
17	0.320	9.655E-06	1.076E-05	1.021E-05	66	2.340	7.297E-07	1.074E-06	9.017E-07
18	0.340	7.074E-06	8.133E-06	7.604E-06	67	2.405	1.224E-06	1.607E-06	1.416E-06
19	0.360	4.165E-06	5.197E-06	4.681E-06	68	2.475	1.140E-06	1.477E-06	1.308E-06
20	0.380	4.464E-06	5.498E-06	4.981E-06	69	2.545	6.592E-07	9.468E-07	8.030E-07
21	0.400	7.263E-06	8.379E-06	7.821E-06	70	2.615	5.932E-07	8.690E-07	7.311E-07
22	0.420	8.049E-06	9.141E-06	8.595E-06	71	2.685	1.405E-07	3.599E-07	2.502E-07
23	0.445	8.047E-06	9.122E-06	8.584E-06	72	2.755	8.981E-08	3.152E-07	2.025E-07
24	0.475	7.992E-06	9.058E-06	8.525E-06	73	2.825	4.580E-08	2.549E-07	1.503E-07
25	0.505	1.275E-05	1.387E-05	1.331E-05	74	2.895	-9.758E-08	1.178E-07	1.013E-08
26	0.535	1.953E-05	2.068E-05	2.011E-05	75	2.965	5.550E-09	2.098E-07	1.077E-07
27	0.565	1.429E-05	1.535E-05	1.482E-05	76	3.035	3.358E-08	2.383E-07	1.359E-07
28	0.595	7.140E-06	8.085E-06	7.613E-06	77	3.110	4.806E-08	2.551E-07	1.516E-07
29	0.625	1.125E-05	1.229E-05	1.177E-05	78	3.190	-3.632E-08	1.697E-07	6.667E-08
30	0.655	2.003E-05	2.116E-05	2.060E-05	79	3.270	-9.804E-08	8.182E-08	-8.110E-09
31	0.685	1.764E-05	1.872E-05	1.818E-05	80	3.350	-5.411E-08	1.211E-07	3.348E-08
32	0.715	1.580E-05	1.683E-05	1.632E-05	81	3.430	-7.056E-08	9.029E-08	9.868E-09
33	0.745	1.924E-05	2.029E-05	1.976E-05	82	3.510	-1.405E-08	1.509E-07	6.841E-08
34	0.775	1.579E-05	1.676E-05	1.628E-05	83	3.590	5.086E-08	1.818E-07	1.163E-07
35	0.810	1.026E-05	1.120E-05	1.073E-05	84	3.670	1.917E-08	1.441E-07	8.165E-08
36	0.850	1.736E-05	1.841E-05	1.788E-05	85	3.750	1.154E-08	1.480E-07	7.977E-08
37	0.890	2.208E-05	2.315E-05	2.261E-05	86	3.830	1.737E-09	1.640E-07	8.286E-08
38	0.930	1.509E-05	1.602E-05	1.556E-05	87	3.915	-7.772E-09	1.369E-07	6.455E-08
39	0.970	8.911E-06	9.695E-06	9.303E-06	88	4.005	-1.741E-08	1.158E-07	4.918E-08
40	1.010	6.384E-06	7.146E-06	6.765E-06	89	4.095	-3.082E-08	1.191E-07	4.413E-08
41	1.050	6.801E-06	7.553E-06	7.177E-06	90	4.185	-6.165E-08	1.278E-07	3.307E-08
42	1.090	6.327E-06	7.042E-06	6.685E-06	91	4.275	-8.467E-08	1.061E-07	1.072E-08
43	1.130	6.697E-06	7.376E-06	7.036E-06	92	4.365	-1.224E-07	5.429E-08	-3.406E-08
44	1.170	6.269E-06	6.889E-06	6.579E-06	93	4.455	-1.673E-07	-7.840E-10	-8.402E-08
45	1.210	2.893E-06	3.410E-06	3.151E-06	94	4.550	-1.926E-07	-2.548E-10	-9.643E-08
46	1.250	2.745E-06	3.436E-06	3.091E-06	95	4.650	-1.590E-07	4.176E-08	-5.861E-08
47	1.295	4.353E-06	4.890E-06	4.621E-06	96	4.750	-7.746E-08	7.192E-08	-2.769E-09
48	1.345	4.018E-06	4.611E-06	4.314E-06	97	4.850	5.892E-09	1.069E-07	5.638E-08
49	1.395	6.969E-06	7.627E-06	7.298E-06	98	4.950	4.329E-08	1.364E-07	8.987E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 17950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-1.053E-05	9.857E-06	-3.345E-07	50	1.445	4.780E-06	5.204E-06	4.992E-06
2	0.111	-8.805E-06	1.345E-05	2.320E-06	51	1.495	1.546E-06	1.856E-06	1.701E-06
3	0.117	-8.956E-06	2.233E-05	6.684E-06	52	1.545	2.924E-07	5.535E-07	4.229E-07
4	0.125	3.210E-06	1.834E-05	1.078E-05	53	1.595	6.993E-07	9.994E-07	8.494E-07
5	0.135	4.947E-06	1.991E-05	1.243E-05	54	1.645	5.580E-07	8.449E-07	7.014E-07
6	0.145	4.622E-06	2.643E-05	1.553E-05	55	1.695	1.285E-06	1.607E-06	1.446E-06
7	0.155	1.019E-05	2.069E-05	1.544E-05	56	1.745	1.820E-06	2.151E-06	1.986E-06
8	0.165	1.089E-05	1.484E-05	1.287E-05	57	1.800	1.351E-06	1.669E-06	1.510E-06
9	0.175	7.657E-06	1.436E-05	1.101E-05	58	1.860	1.344E-06	1.656E-06	1.500E-06
10	0.185	6.646E-06	9.483E-06	8.065E-06	59	1.920	9.266E-07	1.217E-06	1.072E-06
11	0.200	5.575E-06	7.148E-06	6.362E-06	60	1.980	2.134E-07	4.508E-07	3.321E-07
12	0.220	9.672E-06	1.131E-05	1.049E-05	61	2.040	1.745E-07	4.185E-07	2.965E-07
13	0.240	1.825E-05	1.965E-05	1.895E-05	62	2.100	1.878E-07	4.350E-07	3.114E-07
14	0.260	1.772E-05	1.886E-05	1.829E-05	63	2.160	4.596E-07	7.082E-07	5.839E-07
15	0.280	1.002E-05	1.097E-05	1.049E-05	64	2.220	3.877E-07	6.178E-07	5.028E-07
16	0.300	8.012E-06	8.872E-06	8.442E-06	65	2.280	2.444E-07	4.700E-07	3.572E-07
17	0.320	7.830E-06	8.670E-06	8.250E-06	66	2.340	3.835E-07	6.179E-07	5.007E-07
18	0.340	5.470E-06	6.268E-06	5.869E-06	67	2.405	8.740E-07	1.141E-06	1.007E-06
19	0.360	2.967E-06	3.735E-06	3.351E-06	68	2.475	7.958E-07	1.037E-06	9.163E-07
20	0.380	2.148E-06	2.901E-06	2.524E-06	69	2.545	7.938E-07	1.009E-06	9.016E-07
21	0.400	4.248E-06	5.063E-06	4.655E-06	70	2.615	4.115E-07	5.966E-07	5.041E-07
22	0.420	5.190E-06	6.000E-06	5.595E-06	71	2.685	-1.152E-07	6.685E-08	-2.418E-08
23	0.445	5.525E-06	6.330E-06	5.927E-06	72	2.755	-9.822E-08	6.058E-08	-1.882E-08
24	0.475	6.327E-06	7.141E-06	6.734E-06	73	2.825	2.129E-08	1.575E-07	8.939E-08
25	0.505	1.107E-05	1.194E-05	1.151E-05	74	2.895	-3.276E-08	1.145E-07	4.086E-08
26	0.535	1.736E-05	1.826E-05	1.781E-05	75	2.965	-9.829E-08	3.591E-08	-3.119E-08
27	0.565	1.252E-05	1.333E-05	1.292E-05	76	3.035	-1.745E-08	1.244E-07	5.346E-08
28	0.595	5.212E-06	5.911E-06	5.562E-06	77	3.110	7.967E-08	2.137E-07	1.467E-07
29	0.625	8.623E-06	9.403E-06	9.013E-06	78	3.190	1.258E-08	1.342E-07	7.340E-08
30	0.655	1.630E-05	1.717E-05	1.673E-05	79	3.270	-5.971E-08	5.183E-08	-3.941E-09
31	0.685	1.532E-05	1.616E-05	1.574E-05	80	3.350	-4.689E-08	6.191E-08	7.509E-09
32	0.715	1.396E-05	1.477E-05	1.437E-05	81	3.430	-2.154E-08	1.070E-07	4.273E-08
33	0.745	1.648E-05	1.729E-05	1.689E-05	82	3.510	1.521E-08	1.484E-07	8.183E-08
34	0.775	1.302E-05	1.375E-05	1.338E-05	83	3.590	2.894E-08	1.293E-07	7.913E-08
35	0.810	7.531E-06	8.211E-06	7.871E-06	84	3.670	1.016E-10	8.381E-08	4.195E-08
36	0.850	1.045E-05	1.118E-05	1.081E-05	85	3.750	-1.891E-08	7.250E-08	2.679E-08
37	0.890	1.334E-05	1.409E-05	1.372E-05	86	3.830	-2.132E-08	9.216E-08	3.542E-08
38	0.930	9.537E-06	1.020E-05	9.867E-06	87	3.915	-1.844E-08	9.685E-08	3.921E-08
39	0.970	5.653E-06	6.221E-06	5.937E-06	88	4.005	-2.868E-08	7.291E-08	2.211E-08
40	1.010	4.615E-06	5.183E-06	4.899E-06	89	4.095	-3.575E-08	5.580E-08	1.002E-08
41	1.050	5.645E-06	6.216E-06	5.930E-06	90	4.185	-5.941E-08	6.597E-08	3.282E-09
42	1.090	4.506E-06	5.027E-06	4.766E-06	91	4.275	-9.168E-08	4.687E-08	-2.241E-08
43	1.130	4.471E-06	4.963E-06	4.717E-06	92	4.365	-1.072E-07	1.230E-08	-4.743E-08
44	1.170	4.595E-06	5.055E-06	4.825E-06	93	4.455	-9.669E-08	1.635E-09	-4.753E-08
45	1.210	2.471E-06	2.863E-06	2.667E-06	94	4.550	-6.498E-08	2.375E-08	-2.062E-08
46	1.250	2.723E-06	3.254E-06	2.989E-06	95	4.650	-3.465E-08	7.307E-08	1.921E-08
47	1.295	3.719E-06	4.126E-06	3.923E-06	96	4.750	-3.081E-10	8.493E-08	4.231E-08
48	1.345	3.511E-06	3.964E-06	3.738E-06	97	4.850	1.986E-08	7.125E-08	4.555E-08
49	1.395	5.437E-06	5.928E-06	5.683E-06	98	4.950	2.176E-08	5.737E-08	3.956E-08

SPECTRUM OF GAMMA RAYS FOLLOWING A  
FISSION OF  $^{239}\text{Pu}$  BY FAST NEUTRON

IRRADIATION TIME : 100 SEC

WAITING TIME : 21950 SEC

COUNTING TIME : 4000 SEC

NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)			NO.	ENERGY (MEV)	INTENSITY (PHOTONS/FISSION/SEC/MEV)		
		LOWER	UPPER	CENTER			LOWER	UPPER	CENTER
1	0.105	-9.452E-06	6.056E-06	-1.698E-06	50	1.445	3.461E-06	3.820E-06	3.640E-06
2	0.111	-7.948E-06	8.622E-06	3.372E-07	51	1.495	8.047E-07	1.048E-06	9.263E-07
3	0.117	-7.451E-06	1.667E-05	4.607E-06	52	1.545	5.708E-08	2.718E-07	1.645E-07
4	0.125	3.973E-06	1.535E-05	9.660E-06	53	1.595	7.846E-08	3.123E-07	1.954E-07
5	0.135	5.266E-06	1.807E-05	1.167E-05	54	1.645	3.857E-07	6.396E-07	5.126E-07
6	0.145	3.686E-06	2.229E-05	1.299E-05	55	1.695	1.222E-06	1.517E-06	1.370E-06
7	0.155	8.276E-06	1.718E-05	1.273E-05	56	1.745	1.424E-06	1.727E-06	1.576E-06
8	0.165	8.090E-06	1.175E-05	9.922E-06	57	1.800	1.060E-06	1.336E-06	1.198E-06
9	0.175	4.377E-06	1.044E-05	7.410E-06	58	1.860	9.247E-07	1.191E-06	1.058E-06
10	0.185	4.364E-06	6.943E-06	5.654E-06	59	1.920	3.538E-07	5.959E-07	4.748E-07
11	0.200	4.043E-06	5.521E-06	4.782E-06	60	1.980	9.138E-09	1.988E-07	1.040E-07
12	0.220	8.558E-06	1.012E-05	9.340E-06	61	2.040	4.119E-07	6.565E-07	5.342E-07
13	0.240	1.754E-05	1.888E-05	1.821E-05	62	2.100	2.682E-07	4.918E-07	3.800E-07
14	0.260	1.745E-05	1.854E-05	1.799E-05	63	2.160	2.138E-07	4.250E-07	3.194E-07
15	0.280	9.061E-06	9.941E-06	9.501E-06	64	2.220	1.618E-07	3.442E-07	2.530E-07
16	0.300	6.282E-06	7.059E-06	6.670E-06	65	2.280	-2.199E-07	4.717E-08	-8.636E-08
17	0.320	6.048E-06	6.801E-06	6.424E-06	66	2.340	1.178E-08	2.464E-07	1.291E-07
18	0.340	4.123E-06	4.835E-06	4.479E-06	67	2.405	6.391E-07	8.958E-07	7.675E-07
19	0.360	1.840E-06	2.522E-06	2.181E-06	68	2.475	5.057E-07	7.253E-07	6.155E-07
20	0.380	1.846E-06	2.524E-06	2.185E-06	69	2.545	4.887E-07	7.240E-07	6.063E-07
21	0.400	3.460E-06	4.188E-06	3.824E-06	70	2.615	3.180E-07	4.945E-07	4.062E-07
22	0.420	3.765E-06	4.480E-06	4.123E-06	71	2.685	-5.338E-08	1.469E-07	4.676E-08
23	0.445	3.767E-06	4.480E-06	4.123E-06	72	2.755	-9.354E-08	1.612E-07	3.386E-08
24	0.475	4.884E-06	5.613E-06	5.249E-06	73	2.825	-1.654E-08	3.163E-07	1.499E-07
25	0.505	9.041E-06	9.830E-06	9.435E-06	74	2.895	1.183E-08	1.732E-07	9.253E-08
26	0.535	1.600E-05	1.683E-05	1.641E-05	75	2.965	-8.436E-08	5.699E-08	-1.369E-08
27	0.565	1.080E-05	1.153E-05	1.116E-05	76	3.035	-9.793E-08	4.306E-08	-2.744E-08
28	0.595	3.502E-06	4.102E-06	3.802E-06	77	3.110	-4.919E-08	1.122E-07	3.151E-08
29	0.625	5.798E-06	6.471E-06	6.134E-06	78	3.190	-2.816E-08	1.543E-07	6.308E-08
30	0.655	1.365E-05	1.443E-05	1.404E-05	79	3.270	-4.409E-08	1.305E-07	4.322E-08
31	0.685	1.310E-05	1.387E-05	1.349E-05	80	3.350	-1.755E-08	1.360E-07	5.923E-08
32	0.715	1.271E-05	1.346E-05	1.309E-05	81	3.430	7.597E-09	1.605E-07	8.405E-08
33	0.745	1.464E-05	1.539E-05	1.501E-05	82	3.510	-1.297E-08	1.642E-07	7.559E-08
34	0.775	1.114E-05	1.180E-05	1.147E-05	83	3.590	-5.208E-08	1.251E-07	3.653E-08
35	0.810	5.886E-06	6.471E-06	6.179E-06	84	3.670	-9.811E-08	9.778E-08	-1.649E-10
36	0.850	6.820E-06	7.421E-06	7.120E-06	85	3.750	-1.097E-07	6.253E-08	-2.356E-08
37	0.890	7.264E-06	7.861E-06	7.562E-06	86	3.830	-1.388E-07	3.288E-08	-5.297E-08
38	0.930	5.744E-06	6.304E-06	6.024E-06	87	3.915	-1.401E-07	2.604E-08	-5.705E-08
39	0.970	4.619E-06	5.128E-06	4.874E-06	88	4.005	-9.363E-08	7.726E-08	-8.187E-09
40	1.010	3.661E-06	4.174E-06	3.918E-06	89	4.095	-6.940E-08	1.290E-07	2.980E-08
41	1.050	4.252E-06	4.750E-06	4.501E-06	90	4.185	-7.369E-08	1.414E-07	3.385E-08
42	1.090	3.433E-06	3.896E-06	3.665E-06	91	4.275	-4.790E-08	1.305E-07	4.129E-08
43	1.130	3.365E-06	3.792E-06	3.578E-06	92	4.365	-4.662E-08	1.078E-07	3.057E-08
44	1.170	3.715E-06	4.129E-06	3.922E-06	93	4.455	-8.176E-08	5.876E-08	-1.150E-08
45	1.210	1.943E-06	2.284E-06	2.113E-06	94	4.550	-8.462E-08	3.868E-08	-2.297E-08
46	1.250	2.483E-06	2.964E-06	2.724E-06	95	4.650	-4.205E-08	7.172E-08	1.484E-08
47	1.295	3.027E-06	3.390E-06	3.208E-06	96	4.750	1.070E-08	9.551E-08	5.311E-08
48	1.345	3.034E-06	3.444E-06	3.239E-06	97	4.850	3.122E-08	1.004E-07	6.580E-08
49	1.395	4.302E-06	4.732E-06	4.517E-06	98	4.950	2.388E-08	7.757E-08	5.072E-08