IAEA-NDS- 64
Rev. 0

INTERNATIONAL ATOMIC ENERGY AGENCY

NUCLEAR DATA SERVICES

DOCUMENTATION SERIES OF THE IAEA NUCLEAR DATA SECTION

GRINTACS

Thermal Neutron Activation Cross-Sections and Resonance-Integrals

compiled by E. Gryntakis

Abstract: This data compilation was included in the IAEA HAndbook on Nuclear Activation Data (1986). The data file is also available on magnetic tape from the IAEA Nuclear Data Section. The tape is expected to be updated when new data become available.

January 1986

GRINTACS

Gryntakis file of Resonance-Integrals for Neutrons, and of Thermal Activation Cross-Sections.

Version of January 1986

Published in the IAEA Handbook on Nuclear Activation Data, 1986, by E. Gryntakis.

Format description:

The library consists of two files: A data file and a reference file. Both files have a record length of 133 including one print control character. The blocking factor is 20 (i.e. block size 2660). the data file has 2174 records (respectively 2683 records including the heading records as given in the following listing.) The reference file has 1349 records. These figures refer to the version of Jan. 1986 as included in the handbook. Updates can be expected.

Cross-References

This file supersedes earlier versions published in the Journal of Radioanalytical Chemistry.

(H.D. Lemmel, Ed.)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
1-H -NAT	-	-	-	ACT	0.3326+-0.0007	0.1489		
1	99.985	-		ACT	0.3326+-0.0007	0.1489	409	
2	0.015	12.346Y		ACT	(0.519+-0.007)E-3	6.298E-4	409	
3	*12.346Y			ACT	<0.006E-3			
2-HE-NAT	-	-	-	ACT	(0.040+-0.010)E-9			
				ABS	0.0069+-0.0001	0.0031+-0.0001		
3	1.3E-4	-		ACT	(0.031+-0.009)E-3			
				N,P	5333+-7	2401+-10	6 409	
4	99.99987			ACT	0.0			
3-LI-NAT	-	-	-	ACT	0.0448+-0.0030			
				ABS	70.5+-0.3	32	11	
6	7.5	-		ACT	0.0385+-0.0030			
				N,A	940+-4	425.5	409	
7	92.5	844MS		ACT	0.0454+-0.0030	0.01756	409	
4-BE- 7	*53.40D			N,P	48000+-9000	21940	409	
				N,A	<0.1			
9	100	1.6E+6Y		ACT	0.0076+-0.0008	0.0040+-0.0004	6 409	
10	*1.6E+6Y	13.8S		ACT	<0.001			
5-B -NAT	-	-	-	ACT	0.10+-0.09			
				ABS	767+-4	344.4+-2.2	6 13	
10	20	-		ACT	0.5+-0.2			
				ABS	3837+-9	1722+-10	6 409	
11	80	0.0203S		ACT	0.0055+-0.0033	0.0757	409	4439 (3)
6-C -NAT	-	-	-	ACT	(3.50+-0.07)E-3	(1.55+-0.05)E-3		

6-C

6-C

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE .	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)

TARGET NUCLIDE		A+1 NUCLIDE		TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
Z-SYMBOL-A	ABUND. % OR HALF-LIFE	HALF-LIFE	ISOMER. STATE IT %					
12	98.89	-		ACT	(3.53+-0.07)E-3	(1.57+-0.05)E-3	6 409	
13	1.11	5736Y		ACT	(1.37+-0.04)E-3	0.0017+-0.0002	6	
14	*5736Y	2.46S		ACT	<0.001E-3			5298 (68)
7-N -NAT	-	-	-	ACT	0.0747+-0.0073	0.034	6	
				ABS	1.90+-0.03	4.8+-2.4	6 13	
14	99.64	-		ACT	0.0750+-0.0075	0.034	6	
				N,P	1.83+-0.03			
15	0.36	7.14S		ACT	(0.024+-0.008)E-3	0.00011	6	6129 7117 (69) (5)
8-O -NAT	-	-	-	ACT	(0.19+-0.02)E-3	0.00036		
16	99.756			ACT	(0.190+-0.019)E-3	0.00036	6 409	
17	0.039	-		ACT	(0.538+-0.065)E-3	0.00039	6	
				N,A	0.235+-0.010			
18	0.205	27.1S		ACT	(0.16+-0.01)E-3	(0.87+-0.04)E-3	6 311	110 197 1356 1444 1550 (3) (90) (50) (3) (2)
9-F - 19	100	11.0S		ACT	0.0096+-0.0005	0.039+-0.003	6 13 312 409	1634 (100)
10-NE-NAT	-	-	-	ACT	0.039+-0.007	0.0188		
20	90.5	-		ACT	0.037+-0.004	0.0175	6	
21	0.27	-		ACT	0.666+-0.110	0.296	6	
22	9.23	38S		ACT	0.0455+-0.0060	0.023	6	440 (33)
11-NA- 22	*2.60Y	-		ACT	29000+-1000	(170+-30)E+3	6 316 396	
23	100	0.02S	M IT=100	ACT	0.40+-0.03			
		15.03H	G	ACT	0.13+-0.03			1369 2754 (100)(100)
			M+G	ACT	0.530+-0.007	0.320+-0.015	6 10 11 23 47 124 128 144 152 154 312 314 315 396 399 409	
12-MG-NAT	-	-	-	ACT	0.063+-0.005	0.038+-0.004	6 11 14 41 409	

12-MG

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
24	78.99	-		ACT	0.051+-0.005	0.032+-0.004	6	
25	10.00	-		ACT	0.190+-0.030	0.098+-0.015	6	
26	11.01	9.46M		ACT	0.035+-0.002	0.027+-0.002	6 23 312 339 398 399 432	844 1014 (72) (28)
27	*9.46M	21.1H		ACT	0.07+-0.02			31 401 941 1342 1373 (66) (37) (38) (53) (5)
13-AL- 27	100	2.246M		ACT	0.232+-0.003	0.175+-0.005	6 10 11 14 22 23 41 312 339 398 399 409	1779 (100)
14-SI-NAT	-	-	-	ACT	0.171+-0.006	0.127+-0.018	11 409	
28	92.2	-		ACT	0.177+-0.005	0.110+-0.015	6	
29	4.7	-		ACT	0.101+-0.014	0.077+-0.015	6	
30	3.1	2.62H		ACT	0.107+-0.002	0.66+-0.060	6 312 432	
31	*2.62H	280Y		ACT	0.18+-0.04			
15-P - 31	100	14.3D		ACT	0.172+-0.006	0.085+-0.010	6 10 11 409 432	
16-S -NAT	-	-	-	ACT	0.52+-0.01	0.10	11	
				ABS	0.53+-0.01			
				N,A	0.008+-0.004			
				N,P	(0.015+-0.008)E-3			
32	95.0	-		ACT	0.53+-0.04	0.08	6 409	
				N,A	0.007+-0.004			
33	0.75	-		ACT	0.35+-0.04	0.097	6 394	
				N,A	0.190+-0.080			
				N,P	0.002+-0.001			
34	4.2	-		ACT	0.240+-0.010	0.534+-0.023	6 317	
36	0.015	5.1M		ACT	0.15+-0.03	0.17+-0.04	6	3102 (90)
17-CL-NAT	-	-	-	ACT	33.1+-0.3	14.0+-1.0	6 11 13 316 409	
				ABS	33.5+-0.3			

17-CL

TARGET NUCLIDE	A+1 NUCLIDE	TYPE OF	THERMAL CROSS SECTIONS	RESONANCE INTEGRALS	RESONANCE INTEGRALS	MAIN GAMMA-RAYS FOR A+1 NUCLIDE

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
				N,P	0.37+-0.02			
35	75.77	3.0E+5Y		ACT	43.6+-0.4	18+-2	6 317	
				N,P	0.489+-0.014			
				N,A	(0.08+-0.04)E-3			
36	*3.0E+5Y	-		ACT	<10			
37	24.23	1S	M IT=100	ACT	0.047+-0.010			
		37.18M	G	ACT	0.376+-0.011			1642 2168 (32) (44)
			M+G	ACT	0.423+-0.007	0.30+-0.06	6 21 23 312 399	
18-AR-NAT	-	-	-	ACT	0.675+-0.009	0.43+-0.03	6 409	
36	0.34	34.8D		ACT	5.2+-0.5	2.5+-0.5	6	
				N,A	0.0055+-0.0005			
37	*34.8D	-		N,A	1970+-330			
		-		N,P	69+-14			
38	0.07	269Y		ACT	0.8+-0.2	0.4+-0.1	6	
39	*269Y	-		ACT	600+-300			
40	99.59	1.83H		ACT	0.660+-0.010	0.42+-0.03	6 319	1294 (99)
41	*1.83H	33Y		ACT	0.5+-0.1			
19-K -NAT	-	-	-	ACT	2.1+-0.1	1.1+-0.1	6	
39	93.3	-	1.3E+9Y	ACT	2.1+-0.2	1.1+-0.1	6	1461 (100)
				N,A	0.0043+-0.0005			
40	0.012 *1.3E+9Y			ACT	30+-8	13+-4	6	
				N,P	4.4+-0.3	2.0+-0.2	6	
				N,A	0.39+-0.03			
41	6.70	12.36H		ACT	1.46+-0.03	1.40+-0.10	6 23 58 65 312 320 399 432	1525 (18)
20-CA-NAT	-	-	-	ACT	0.43+-0.02	0.23+-0.02	6 11 409	

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
40	96.94	1.3E+5Y		ACT	0.41+-0.02	0.22+-0.02	6	
				N,A	0.0025+-0.0011			
41	*1.3E+5Y	-		ACT	4			
42	0.65	-		ACT	0.680+-0.070	0.39+-0.04	6	
43	0.14	-		ACT	6.2+-0.6	3.93+-0.15	6	
44	2.08	165D		ACT	0.88+-0.05	0.56+-0.01	6 102	
45	*165D	-		ACT	15			
46	0.003	4.54D		ACT	0.74+-0.07	0.32+-0.12	6 47	489 808 1297 (7) (7) (75)
48	0.19	8.72M		ACT	1.09+-0.14	0.90+-0.10	6 312 432	3084 4072 (92) (7)
21-SC- 45	100	18.7S	M IT=100	ACT	9.8+-1.1	5.4+-0.6	6	
		84.0D	G	ACT	17.4+-1.1	6.1+-0.8		889 1121 (100)(100)
			M+G	ACT	27.2+-0.2	11.5+-0.5	2 6 10 11 47 48 154 312 399	
46	*84.0D	3.42D		ACT	8.0+-1.0			159 (68)
22-TI-NAT	-	-	-	ACT	6.09+-0.13	3.1+-0.2	6 11 13 409	
46	8.0	-		ACT	0.59+-0.18	0.30+-0.09	6	
47	7.5	-		ACT	1.7+-0.2	1.5+-0.2	6	
48	73.7	-		ACT	7.84+-0.25	3.9+-0.2	6	
49	5.54	-		ACT	2.2+-0.3	1.2+-0.2	6	
50	5.3	5.8M		ACT	0.179+-0.003	0.120+-0.015	2 6 23 312 398 399	320 609 929 (93) (1) (7)
23-V -NAT	-	-	-	ACT	5.07+-0.11	2.7+-0.1	6 13 14	
50	0.25	-		ACT	60+-40	43+-15	6	
51	99.75	3.75M		ACT	4.93+-0.06	2.6+-0.1	2 6 10 11 23 312 320 323 324 334 365 398 399 403 405 409	1434 (100)
24-CR-NAT	-	-	-	ACT	3.07+-0.08	1.5+-0.1	6 11 13 324 325 409	

TARGET NUCLIDE		A+1 NUCLIDE		TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
Z-SYMBOL-A	ABUND. % OR HALF-LIFE	HALF-LIFE	ISOMER. STATE . IT %					
50	4.35	27.7D		ACT	15.9+-0.2	8.1+-0.5	2 6 46 58 312 324 325 396 399	320 (10)
52	83.79	-		ACT	0.76+-0.06	0.33+-0.04	6 324 325	
53	9.50	-		ACT	18.2+-1.5	9.5+-1.0	6 324 325	
54	2.36	3.60M		ACT	0.36+-0.04	0.08+-0.03	6 324 325	
25-MN- 53	*3.7E+6Y	312.5D		ACT	70+-10	30.5+-5.0	6 .	835 (100)
54	*312.5D	-		ACT	38	17	6	
55	100	2.58H		ACT	13.3+-0.2	13.8+-0.4	2 6 10 11 13 14 22 41 45 60 122 125 128 152 266 309 312 314 320 322 326 327 328 329 330 331 332 333	847 1811 2113 (99) (27) (14)
26-FE-NAT	-	-	-	ACT	2.56+-0.03	1.4+-0.2	6 11 13 14 41 45 336 409	
54	5.8	2.7Y		ACT	2.25+-0.18	1.2+-0.2	6	
56	91.7	-		ACT	2.59+-0.14	1.4+-0.2	6	
57	2.19	-		ACT	2.48+-0.30	1.6+-0.2	6	
58	0.31	44.6D		ACT	1.28+-0.05	1.4+-0.1	2 6 47 48 58 154 156 312 398	192 1099 1292 (3) (56) (44)
27-CO- 58M	*8.94H	-		ACT	140000+-10000	540000+-200000	275 341 342	
G	*70.78D	-		ACT	1880+-120	6890	6 9	
59	100	10.5M	M IT=99.7	ACT	18.80+-1.50	39.7+-4.3	339	826 1333 (3)(100)
		5.272Y	G	ACT	18.65+-1.70	31.4+-4.8	339	1173 1333 (100)(100)
			M+G	ACT	37.45+-0.45	71.1+-1.8	2 6 11 13 45 47 96 125 129 146 154 166 312 314 328 329 337 338 339 340 377 403 409	
60M	*10.5M	99.0M		ACT	58.+-8	230+-50	6 344	67 909 (86) (3)
G	*5.272Y			ACT	2.0+-0.2	4.1+-1.0	6 344 444	
28-NI-NAT	-	-	-	ACT	4.49+-0.16	2.8+-0.3	6 11 13 14 17 41 45 117 409	

28-NI

TARGET NUCLIDE	A+1 NUCLIDE	TYPE	THERMAL	RESONANCE	RESONANCE	MAIN GAMMA-RAYS FOR A+1

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REAC TION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
58	67.76	7.5E+4Y		ACT	4.6+-0.3	2.8+-0.3	6 409	
				N,A	<0.00003			
59	*7.5E+4Y	-		ACT	77.7+-4.1	140+-28	6 395	
				ABS	92+-4			
				N,P	2.0+-0.5			
				N,A	12.3+-0.6			
60	26.42	-		ACT	2.9+-0.2	2.10+-0.21	6 324	
61	1.16	-		ACT	2.5+-0.8	1.5+-0.4	6	
				N,A	<0.00003			
62	3.71	100Y		ACT	14.5+-0.3	8.1+-0.4	6 102	
63	*100Y	-		ACT	24.4+-3.0			
64	0.95	2.52H		ACT	1.58+-0.04	1.19+-0.06	6 23 312 339 399 432	366 1116 1482 (5) (15) (23)
65	*2.52H	54.6H		ACT	22.4+-2.0		6 430	
29-CU-NAT	-	-	-	ACT	3.78+-0.02	4.13+-0.08	6 10 11 12 13 14 41 45 117 409	
63	69.1	12.7H		ACT	4.50+-0.02	4.94+-0.10	6 11 23 123 124 128 145 154 312 313 314 321 400	511 1346 (37) (0.5)
65	30.9	5.10M		ACT	2.17+-0.03	2.32+-0.08	6 11 23 124 145 312 313 314	1039 (8)
66	*5.10M	61.9H		ACT	135+-10			91 93 185 (7) (16) (49)
30-ZN-NAT	-	-	-	ACT	1.11+-0.02	2.8+-0.2	6 11 13 14 41	
64	48.9	265D		ACT	0.76+-0.02	1.40+-0.05	6 47 109 146 156 312 345 399	1116 (51)
65	*265D	-		N,A	250+-150			
66	27.8	-		ACT	0.85+-0.20	1.77	6	
				N,A	<0.00002			
67	4.1	-		ACT	6.8+-0.8	25.2	6	
68	18.6	13.9H	M IT=99	ACT	0.072+-0.004	0.24+-0.03	47 58 119 146 156 312 399 432	574 (100)

30-ZN

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REAC TION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
		56M	G	ACT	1.0+-0.1	3.36+-0.3		
			M+G	ACT	1.072+-0.100	3.6+-0.3	6 109	
70	0.62	3.9H	M IT=0	ACT	0.0087+-0.0005			386 487 512 596 620 (93) (62) (28) (28) (57)
		2.4M	G	ACT	0.083+-0.005			122 390 512 910 1120 (3) (4) (32) (8) (2)
			M+G	ACT	0.092+-0.005	0.86+-0.06	6	
72	*46.5H	23.5S		ACT	0.059	0.07	26	
31-GA-NAT	-	-	-	ACT	2.9+-0.1	21.7+-1.5	6 13 409	
69	60	21.1M		ACT	1.68+-0.07	15.5+-1.5	6 10 11 57 312	175 1039 (0.2) (0.5)
71	40	36MS	M IT=100	ACT	0.15+-0.05			
		14.1H	G	ACT	4.56+-0.23			630 834 894 2202 2508 (25) (96) (10) (26) (13)
			M+G	ACT	4.71+-0.23	31.1+-2.9	6 10 11 57 312 399	
72	*14.1H	4.8H		ACT	4.25	25.7	26	297 325 739 768 1065 (80) (11) (4) (1) (1)
32-GE-NAT	-	-	-	ACT	2.3+-0.2	6.0+-1.0	6 13	
70	20.7	20MS	M IT=100	ACT	0.28+-0.07			
		11.2D	G	ACT	3.15+-0.16			
			M+G	ACT	3.43+-0.2	1.50	6	
72	27.5	0.53S	M IT=100 G					
			M+G	ACT	0.98+-0.09	0.76	6 19 24 26 32	
73	7.7	-		ACT	15.+-2.	63.7	6 24 26 32	
74	36.4	48S	M IT=99	ACT	0.17+-0.03	0.41+-0.07	6	140 (34)
		83M	G	ACT	0.34+-0.08	0.59+-0.2		199 265 (1) (11)
			M+G	ACT	0.51+-0.08	1.0+-0.2	6 24 26 32 92 312	
76	7.7	54S	M IT=19.8	ACT	0.10+-0.01	1.2+-0.2	6 25 92	215 (26)
		11.3H	G	ACT	0.06+-0.01	0.8+-0.2	20 25 29	211 216 264 416 558 (29) (27) (51) (21) (15)
			M+G	ACT	0.16+-0.02	2.0+-0.4	6 24 26 32 92 312	

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
77M	*54S							
G	*11.3H							
M+G		88M		ACT	1.48	7.01	26	277 294 (96) (4)
33-AS- 75	100	26.4H		ACT	4.48+-0.11	61+-4	6 10 11 18 19 24 26 53 57 125 128 312 376 399 432	559 657 1213 1216 1229 (45) (6) (2) (4) (1)
76	*26.4H	38.8H		ACT	60.8	216.1	26	239 (2)
77	*38.8H	1.5H		ACT	12.69	68.25	26	614 695 826 1240 1309 (54) (17) (9) (6) (12)
34-SE-NAT	-	-	-	ACT	11.7+-0.2	12.6	6 13	
74	0.9	120.0D		ACT	51.8+-1.2	514+-65	2 6 20 312 345	121 136 265 280 401 (17) (59) (59) (25) (12)
76	9.0	17.5S	M IT=100	ACT	22+-1	17+-2	6	
			G	ACT	63+-7	23.3		
			M+G	ACT	85+-7	40.3	6 24 26 32	
77	7.5	-		ACT	42+-4	32+-3	6 19 24 25 26	
78	23.5	3.9M	M IT=100	ACT	0.38+-0.2	3.7+-0.6	6 32 369	
		6.5E+4Y	G	ACT	0.05+-0.1	1.06+-0.80		
			M+G	ACT	0.43+-0.2	4.76+-0.60	6 19 20 24 25 26 27	
79M	*3.9M	-						
G	*6.5E+4Y	-		ACT		16.0	32	
M+G		-		ACT	3.28	36+-26	26 27	
80	50.0	57.3M	M IT=99	ACT	0.08+-0.01	0.42+-0.11	6 312	260 276 (96)(100)
		18M	G	ACT	0.53+-0.04	1.28+-0.32		
			M+G	ACT	0.610+-0.045	1.70+-0.30	6 19 20 24 25 26 27	
82	9.1	69S	M IT=0	ACT	0.039+-0.003			357 674 988 1030 2051 (17) (15) (15) (21) (11)
		22.4M	G	ACT	0.0052+-0.0004			225 357 510 718 799 (32) (69) (44) (15) (16)
			M+G	ACT	0.044+-0.003	0.06+-0.04	6 24 25 27	
35-BR-NAT	-	-	-	ACT	6.9+-0.2	91+-6	6 13 40	

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
76	*16.2H	57H	- IT=100	N,P	224+-42			
79	50.69	4.42H	M IT=100	ACT	2.4+-0.6	35.7+-4.0	6 23	37 (36)
		18M	G	ACT	8.6+-0.4	95.7+-10	6 23	616 666 (7) (13)
			M+G	ACT	11.0+-0.7	131+-11	6 10 11 18 24 432	
81	49.31	6.1M	M IT=97.6	ACT	2.43+-0.4	41.3	347	698 776 (1) (8)
		35.34H	G	ACT	0.26	8.9	347	554 619 698 776 1317 (71) (43) (28) (84) (27)
			M+G	ACT	2.7+-0.2	50.2+-5.9	6 18 19 20 23 24 25 26 27 28 38 312 347 399 432	
82M	*6.1M							
G	*35.34H							
M+G		2.40H		ACT	18.09	90.46	26	529 (1)
36-KR-NAT	-	-	-	ACT	24.5+-3.5	49+-4	6	
78	0.35	50S	M IT=100	ACT	0.17+-0.02			
		34.9H	G	ACT	6.03+-0.90			261 300 306 398 606 (13) (2) (3) (9) (8)
			M+G	ACT	6.2+-0.9	20+-1	6 420	
80	2.25	13.3S	M IT=100	ACT	4.55+-0.65			
		2.1E+5Y	G	ACT	6.95+-0.82			
			M+G	ACT	11.5+-0.5	56+-7	6 24 348 420	
82	11.6	1.83H	M IT=100	ACT	14.0+-2.5			
			G	ACT	16+-10			
			M+G	ACT	30+-10	190+-20	6 19 24 25 26	
83	11.5	-		ACT	180+-30	210+-30	6 19 24 25 26 27 28 34 38 384 424	
84	57.0	4.48H	M IT=21.2	ACT	0.090+-0.013	2.4	25	151 (95)
		10.76Y	G	ACT	0.042+-0.004	0.8	25	
			M+G	ACT	0.110+-0.015	3.2+-0.5	6 19 24 26 27 28 38	
85	*10.76Y	-		ACT	1.66+-0.2	1.8+-1.0	6 24 26 27 28 390	

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)

TARGET NUCLIDE Z-SYMBOL-A	A+1 NUCLIDE ABUND. % OR HALF-LIFE	HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
86	17.3	76.3M		ACT	0.003+-0.002	0.1+-0.04	6 24 26 27 28	403 845 2012 2555 2558 (50) (7) (3) (9) (4)
87	*76.3M	2.80H		ACT	<12600	<270	27	196 835 1530 2196 2392 (26) (13) (11) (13) (35)
37-RB-NAT	-	-	-	ACT	0.35+-0.01	4.6+-0.4	6 13 40 109	
84	*32.9D	-		N,P	12+-2			
85	72.17	1.02M	M IT=100	ACT	0.053+-0.005	1.74+-0.10	312	
		18.7D	G	ACT	0.427+-0.011	3.76+-0.50		1077 (9)
			M+G	ACT	0.48+-0.01	5.50+-0.50	2 6 19 24 25 26 27 28 47 48 312 345	
86M	*1.02M							
G	*18.7D							
M+G		47E+9Y	M					
		-	G					
			M+G	ACT	4.92	33+-10	24 26	
87	27.83	17.8M		ACT	0.120+-0.030	2.2+-0.3	6 19 24 25 26 27 28 312	898 1836 2678 (14) (21) (2)
88	*17.8M	15.4M		ACT	1.0+-0.3			658 1032 1248 2196 2570 (10) (58) (43) (13) (10)
38-SR-NAT	-	-	-	ABS	1.28+-0.06	10.0+-2.6	6 11 13 17	
84	0.56	67.7M	M IT=87	ACT	0.60+-0.06	4.59+-0.15	6 92 312	151 (95)
		64.9D	G	ACT	0.35+-0.07	6.6+-1.1		514 (96)
			G+0.87M	ACT	0.87+-0.07	10.6+-1.1	6 47 312	
			M+G	ACT	0.95+-0.07	11.2+-1.1		
86	9.9	2.81H	M IT=99.7	ACT	0.84+-0.06	4.79+-0.24	6 26 312	388 (83)
		-	G	ACT	0.20+-0.03	0.38		
			G+M	ACT	1.04+-0.07	5.17	24 25	
87	7.0	-		ACT	16+-3	120+-15	6 19 24 25	
88	82.6	50.5D		ACT	0.058+-0.004	0.06+-0.01	6 24 25 26 27 28	
89	*50.5D	28.5Y		ACT	0.42+-0.04	0.56+-0.22	24 26 27	

TARGET NUCLIDE	A+1 NUCLIDE	TYPE OF	THERMAL CROSS SECTIONS	RESONANCE INTEGRALS	RESONANCE INTEGRALS	MAIN GAMMA-RAYS FOR A+1 NUCLIDE

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
90	*28.5Y	9.5H		ACT	0.9+-0.5	0.47+-0.07	24 26 27 28	556 653 750 926 1024 (56) (8) (24) (4) (33)
91	*9.5H	2.71H		ACT	0.148	0.62	26	242 431 953 1142 1384 (3) (3) (4) (3) (90)
39-Y - 89	100	3.19H	M IT=99	ACT	0.001+-0.0002			
		64.1H	G	ACT	1.279+-0.020			
			M+G	ACT	1.28+-0.02	0.85+-0.15	6 10 11 19 24 25 26 27 28 40 57 312	
90	*64.1H	49.7M	M IT=100			1.6		
		58.5D	G	ACT		1.4	32	
			M+G	ACT	<6.5	3.0+-1.5	24 26	
91G	*58.5D	3.54H		ACT	1.4+-0.3	1.6+-0.5	24 26 27 32	448 561 844 934 1405 (2) (2) (1) (14) (5)
93	*10.1H	19M		ACT	0.078	0.99	26	550 751 918 1139 1669 (6) (3) (73) (7) (3)
40-ZR-NAT	-	-	-	ACT	0.185+-0.003	1.18+-0.16	6 10 11 13 41 45 365 409 418 431	
90	51.4			ACT	0.011+-0.005	0.21+-0.09	6 19 24 25 26 27 32 365	
91	11.2			ACT	1.24+-0.25	6.8+-1.3	6 19 24 25 26 27 28 349 357 365	
92	17.1	1.5E+6Y		ACT	0.220+-0.060	0.63+-0.11	6 19 24 25 26 27 28	
93	*1.5E+6Y			ACT	2.6+-1.4	20+-10	6 19 24 25 26 27 28	
94	17.5	64D		ACT	0.0499+-0.0024	0.30+-0.07	2 6 19 24 25 26 27 28 38 92 312 350 365 393	724 757 (45) (55)
95	*64.0D	-		ACT	0.49	6.5+-1.4	24 26 34 384	
96	2.8	16.8H		ACT	0.0229+-0.0010	5.6+-0.9	2 6 19 24 25 26 27 28 38 92 350 393	355 508 1021 1148 1750 (2) (5) (1) (3) (1)
97	*16.8H	30.7S		ACT	0.202	1.55	26	
41-NB- 93	100	6.2M	M IT=99.5					871 (100)
		2.0E+4Y	G					703 871 (100)(100)
			M+G	ACT	1.15+-0.05	8.2+-1.5	6 10 11 14 17 18 24 34 41 57 312 352 353 354 398 409 432	

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
94	*2.0E+4Y	86.6H	M IT=97.5	ACT	0.6+-0.1			
		35.15D	G	ACT	14.9+-1.0			766 (100)
			M+G	ACT	20+-1.0	120+-10	24 352 353	
95	*35.15D	23.4H		ACT	<7	24+-2	24 26 34 384	460 (29) 569 (56) 778 (97) 850 (21) 1091 (49)
42-MO-NAT	-	-	-	ACT	2.55+-0.05	25+-1	6 11 13 14 17 40 41 45 115 117 120 355 409	
92	14.8	6.9H	M IT=99.8					
		3.5E+3Y	G					
			M+G	ACT	0.019	0.81	6	
94	9.1	-		ACT	0.015	0.86	6 24	
95	15.9	-		ACT	14.0+-0.5	108+-4	6 14 15 19 24 25 26 27 28 34 40 384	
96	16.7	-		ACT	0.5+-0.2	24+-4	6 19 24 25 26 27	
97	9.5	-		ACT	2.1+-0.5	15+-1	6 15 19 24 25 26 27 28 34 384	
98	24.4	66.0H		ACT	0.130+-0.006	7.3+-1.8	6 18 19 24 25 26 27 28 34 38 47 58 117 119 124 147 148 312 314 356 400 432 440	41 (1) 140 (5) 181 (6) 739 (12) 778 (4)
99	*66.0H	-		ACT	1.733	26+-2	24 26 34	
100	9.6	14.6M		ACT	0.199+-0.003	4.2+-0.5	6 18 19 24 25 26 27 28 34 40 109 117 124 312 358 400 432	192 (19) 506 (12) 591 (16) 696 (7) 1012 (13)
43-TC- 98	*4.2E+6Y	6.0H	M IT=99	ACT	0.93+-0.2			
		2.1E+5Y	G	ACT	1.67+-1.3			
			M+G	ACT	2.6+-1.3			
99M	*6.0H			ACT	1.62	26.7	26	
G	*2.1E+5Y	15.8S		ACT	20+-1	230+-50	6 15 26 27 28 40 424	540 (7) 591 (6)
44-RU-NAT	-	-	-	ACT	2.57+-0.21	40+-4	6 53	

44-RU

TARGET NUCLIDE	A+1 NUCLIDE	TYPE	THERMAL	RESONANCE	RESONANCE	MAIN GAMMA-RAYS FOR A+1 NUCLIDE

TARGET NUCLIDE		A+1 NUCLIDE		TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
Z-SYMBOL-A	ABUND. % OR HALF-LIFE	HALF-LIFE	ISOMER. STATE . IT %					
96	5.5	2.9D		ACT	0.29+-0.02	5.8+-1.2	6 312 359	216 325 (86) (10)
98	1.9			ACT	<8.0			
99	12.7			ACT	7.1+-1.0	166+-20	6 24 359	
100	12.6			ACT	5.0+-0.6	11.0+-0.7	6 24 25 26 27 359	
101	17.1			ACT	3.4+-0.9	88+-17	6 15 24 25 26 27 28 34 359 384	
102	31.6	39.35D		ACT	1.21+-0.07	4.6+-0.9	6 24 25 26 27 28 34 90 109 312 359 384	497 610 (89) (6)
103	*39.35D	-		ACT	7.71	60+-20	24 26 34 384	
104	18.6	4.44H		ACT	0.32+-0.02	5.2+-0.5	6 24 26 27 28 34 312 360 384	130 316 469 676 724 (6) (11) (17) (15) (47)
105	*4.44H	368D		ACT	0.39+-0.06	6.4+-1.4	24 26 27 34 384	
106	*368D	3.8M		ACT	0.146+-0.045	1.8+-0.4	6 24 25 26 27 28 34 38 361 372 384	194 374 463 579 848 (11) (4) (4) (3) (6)
45-RH-103	100	4.4M	M	ACT	10+-1	83+-6	6 147 148 312 362	357 741 759 768 1237 (13) (10) (11) (77) (49)
		42S	IT=99.8 G	ACT	135+-2	993+-63		358 556 (4) (2)
			M+G	ACT	145+-2	1076+-63	6 10 11 15 19 24 25 26 27 28 40 55 96 147 148 362 384 389	
104M	*4.4M	45S	M					
		35.5H	IT=100 G					306 319 (5) (19)
			M+G	ACT	800+-100			
G	*42S	45S	M		39.53	360	27	
		35.5H	IT=100 G		0.47	4.6	25	306 319 (5) (19)
			M+G	ACT	40+-30	364.6		
105G	*35.5H	2.2H	M	ACT	5000+-1000			451 512 616 717 1047 (25) (87) (21) (29) (31)
		30S	IT=0 G	ACT	11000+-3000			512 622 1050 (21) (10) (2)
			M+G	ACT	16000+-3160	16500+-2500	6 24 25 26 27 34 38 360 364 384 410	
46-PD-NAT	-	-	-	ACT	6.9+-0.4	83+-7	6 11 40 53	

46-PD

TARGET NUCLIDE | A+1 NUCLIDE | TYPE | THERMAL | RESONANCE | RESONANCE | MAIN GAMMA-RAYS FOR A+1 NUCLIDE

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
102	1.0	17.0D		ACT	3.4+-0.3	10+-2	6	
104	11	-		ACT	0.6+-0.3	16+-2	6 19 24 26 27	
105	22.2	-		ACT	20+-3	83+-9	6 19 24 25 26 27 28 34 384	
106	27.3	21.3S	M IT=100	ACT	0.013+-0.002			
		6.5E+6Y	G	ACT	0.292+-0.029			
			M+G	ACT	0.305+-0.029	5.90+-0.53	6 19 24 25 26 27 28 34 360 384	
107M	*21.3S	-						
G	*6.5E+6Y	-		ACT	1.8+-0.2	77+-7	6 24 26 27 28 34 384	
108	26.7	4.69M	M IT=100	ACT	0.183+-0.033	2.26+-0.04	312 432	
		13.46H	G	ACT	8.3+-0.5	224.74+-25.00	432	
			M+G	ACT	8.483+-0.501	227+-25	6 19 24 25 26 27 28 312	
109M	*4.69M	-						
G	*13.46H	-		ACT	5.24	60.6	26 34	
110	11.8	5.5H	M IT=71	ACT	0.037+-0.006	0.6+-0.2	6 312	70 391 575 633 694 (31) (20) (12) (13) (7)
		22M	G	ACT	0.190+-0.030	4.50+-0.63		
			M+G	ACT	0.227+-0.031	5.1+-0.6	24 25 26 27 28 312	
112	*20.1H	1.6M		ACT	0.29	10+-5	25 26	
47-AG-NAT	-	-	-	ACT	63.3+-0.4 G(T)=1.0034	748+-20	6 11 13 14 40 45 96 111 340 363	
107	51.83	127Y	M IT=8.5	ACT	0.33+-0.08	1.26+-0.19	6 425	434 614 723 (99) (98) (99)
		2.41M	G	ACT	37.27+-1.20	93.74+-6.00		434 619 633 (17) (9) (2)
			M+G	ACT	37.6+-1.2	95+-6	6 10 11 24 27 34 57 145 312 409	
109	48.17	250.4D	M IT=1.5	ACT	4.7+-0.2 G(T)=1.0048	72.8+-5.0	25 46 312 351 367 368 407 425 426 427	658 764 885 937 1384 (96) (23) (74) (35) (25)
		24.6S	G	ACT	86.3+-3.0	1377.2+-55.0	312	658 (5)
			M+G	ACT	91.0+-1.0	1450+-55	6 10 11 14 15 19 24 25 26 27 28 34 38 40	

47-AG

TARGET NUCLIDE Z-SYMBOL-A	ABUND. %	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE .	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
							343 409	
110	*250.4D	1.2M	M					171 245 507 620 753
		7.5D	IT=99.7 G					(17) (71) (6) (17) (6)
								245 342
			M+G	ACT	82+-11	41.3	25	(1) (7)
111M	*1.2M							
G	*7.5D	3.12H		ACT	3+-2	105+-20	6 25 38 408	607 617 695 1388 1614
								(3) (43) (3) (5) (3)
48-CD-NAT	-	-	-	ACT	2520+-50	69.5+-5.7	3 6 409	
106	1.2	6.5H		ACT	1	4	6	93
								(5)
108	0.9	453D		ACT	1.1	11	6 24	88
								(4)
109	*453D			ACT	700+-100			
				N,A	0.05			
110	12.4	49M	M	ACT	0.14+-0.05	2.5+-1	6 29 398	
			IT=100 G		10.9			
			M+G	ACT	11+-1	40.5+-7.5	6 19 24 26 27 398	
111	12.8	-		ACT	24+-3	53+-7	6 19 24 25 26 27 28	
112	24.0	14.6Y	M					
		9.0E+15	IT=0.1 G					
			M+G	ACT	2.2+-0.5	13.5+-1.9	6 19 24 26 27 28	
113	12.3	-		ACT	20600+-400 G(T)=1.3266	388+-45	19 24 26 27 28 34 384	
114	28.8	44.8D	M	ACT	0.036+-0.007	3.1+-1.5	25 398	934
			IT=0					(2)
		53.38H	G	ACT	0.30+-0.02	19.9+-2.5		261 336 492 528
								(2) (46) (8) (27)
			G+M	ACT	0.336+-0.021	23+-2	6 19 24 25 26 27 28 29 346	
115M	*44.8D	-		ACT	31.2	195.9	24 26	
G	*53.38H	-		ACT	5.43	79.9	26	
116	7.6	3.31H	M	ACT	0.025+-0.010	0.422+-0.248	398	564 1029 1066 1433 1997
			IT=0					(15) (12) (23) (13) (26)
		2.42H	G	ACT	0.050+-0.080	0.928+-0.514		273 344 434 1303 1577
								(28) (18) (10) (18) (11)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
			G+M	ACT	0.075+-0.081	1.35+-0.45	6 24 26 27 32	
49-IN-NAT	-	-	-	ACT	193.8+-1.5	3133+-75	6 13 14 40 45 96	
113	4.3	42MS	M2 IT=100	ACT	3.1+-0.7			
		49.5D	M1	ACT	5.0+-1.0			558 725 (102)(101)
			M1+M2 IT=96.7	ACT	8.1+-0.8	220+-15	6 109 312 371	
		71.9S	G	ACT	3.9+-0.4	90+-33		558 (13)
			G+M1+M2	ACT	12.0+-1.1	310+-30	6 10 11 24	
115	95.7	2.2S	M2 IT=100	ACT	81+-8			
		54M	M1	ACT	81.3+-8.0			417 819 1097 1294 2112 (29) (11) (56) (84) (16)
			M1+M2 IT=0	ACT	162.3+-0.7	2605+-115	11 23 25 124 125 133 165 312 326 373 374	
		14S	G	ACT	40+-2	655+-30	124 374	1294 (1)
			G+M1+M2	ACT	202.3+-2.0 G(T)=1.0175	3260+-150	6 10 15 19 24 26 27 28 40 41 60 123 124 125 129 152 266 330 366 374 375	
50-SN-NAT	-	-	-	ACT	0.626+-0.009	6.4+-0.5	6 11 13 14 41 409	
112	1.0	20M	M IT=91	ACT	0.30+-0.04			
		115D	G	ACT	0.71+-0.10			255 392 (2) (64)
			G+0.91M	ACT	0.98+-0.10	34+-4	6 312 398 423 429	
			G+M	ACT	1.01+-0.11	35+-4		
114	0.66	-		ACT	0.115+-0.030	5.1+-1.5	6	
115	0.35	-		ACT	30+-7	27+-5	6 24 26	
116	14.4	14.0D	M IT=100	ACT	0.006+-0.002	0.49+-0.10	6 58 312	
		-	G	ACT	0.134+-0.030	13.21+-2.50		
			M+G	ACT	0.140+-0.030	13.7+-2.5	6 19 24 25 26	
117	7.6	-		ACT	2.3+-0.5	15.7+-2.1	6 19 24 25 26 27	
118	24.1	245D	M IT=100	ACT	0.010+-0.006	1.26	25	
		-	G	ACT	0.21+-0.05	5.04	25	

50-SN

TARGET NUCLIDE	A+1 NUCLIDE	TYPE OF	THERMAL CROSS SECTIONS	RESONANCE INTEGRALS	RESONANCE INTEGRALS	MAIN GAMMA-RAYS FOR A+1 NUCLIDE

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
			M+G	ACT	0.22+-0.05	6.3+-1.5	6 19 24 26 27	
119	8.6	-		ACT	2.2+-0.5	4.2+-0.9	6 19 24 25 26 27	
120	32.8	55Y	M IT=0	ACT	0.001+-0.001			37 (8)
		27.0H	G	ACT	0.140+-0.030	1.25+-0.3	6 19 24 25 26 27	
			M+G	ACT	0.141+-0.030			
121M	*55Y	-						
G	*27.0H	-						
M+G		-		ACT	5.77	26.29	26	
122	4.7	40.1M	M IT=0	ACT	0.001+-0.001			160 (86)
		129.2D	G	ACT	0.180+-0.020	0.84+-0.10	6 24 25 26 27 32 312 398 429	
			M+G	ACT	0.181+-0.020			
123M	*40.1M	-						
G	*129.2D	-						
M+G		-		ACT	0.033	2.53	24 26	
124	5.8	9.5M	M IT=0	ACT	0.130+-0.005	8.5+-0.8	25 92 312 400 404	332 (100)
		9.64D	G	ACT	0.004+-0.002	0.032	25	822 (4) 916 (4) 1067 (9) 1089 (4) 2002 (2)
			M+G	ACT	0.134+-0.006	8.532+-0.800	6 24 26 27 398	
125M	*9.5M							22 (1) 23 (7) 64 (10) 87 (9) 88 (37)
G	*9.64D							
M+G		(1E+5Y)		ACT	0.55	14.26	24 26	
126	*(1E+5Y)	4.4M	M IT=0					491 (90) 1348 (5) 1564 (4)
		2.1H	G					806 (8) 823 (11) 859 (8) 1096 (19) 1114 (38)
			M+G	ACT	0.297	0.195	24 26 32 38	
51-SB-NAT	-	-	-	ACT	5.1+-0.1	170+-20	6 12 13	
121	57.3	4.2M	M IT=100	ACT	0.06+-0.01	13+-1	6	
		2.7D	G	ACT	5.84+-0.20	189+-15		564 (72) 693 (4) 1141 (31)
			M+G	ACT	5.9+-0.2	202+-15	6 10 11 18 19 23 24	

51-SB

TARGET NUCLIDE	A+1 NUCLIDE	TYPE OF	THERMAL CROSS SECTIONS	RESONANCE INTEGRALS	RESONANCE INTEGRALS	MAIN GAMMA-RAYS FOR A+1

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
							25 26 27 38 47 60 92 312 399 432	
122M	*4.2M	-						
G	*2.7D	-						
M+G		-		ACT	21.5	159.0	26	
123	42.7	20M	M2 IT=100	ACT	0.019+-0.010			
		1.6M	M1 IT=80	ACT	0.037+-0.010			498 603 646 1101 (99)(100)(100) (2)
		60.3D	G	ACT	4.1+-0.1			603 646 723 1691 2091 (98) (7) (11) (49) (6)
			G+0.8M1 +0.8M2	ACT	4.145+-0.101	128+-10	2 6 10 11 18 23 25 38 46 48 60 109 312 432	
			G+M1+M2	ACT	4.156+-0.101		6 19 24 26 27	
124	*60.3D	2.77Y		ACT	17.4+-2.8	22.83	9 24 26	176 428 463 601 636 (7) (29) (10) (18) (11)
125	*2.77Y	19.0M	M IT=14	ACT		0.62	32	414 620 666 695 1035 (100) (2)(100) (96) (2)
		12.4D	G	ACT		19.38		415 666 695 697 720 (84)(100)(100) (29) (54)
			M+G	ACT	0.97	20	24 26 27	
126M	*19.0M							
G	*12.4D							
M+G		3.85D		ACT	5.81	64.5	24 26	252 412 473 686 784 (8) (4) (25) (35) (15)
127	*3.85D	10.4M	M IT=3.6					314 594 743 754 788 (95) (3)(100)(100) (7)
		9.0H	G					314 526 636 743 754 (61) (45) (36)(100)(100)
			M+G	ACT	0.92	14.7	26	
128M	*10.4M							
G	*9.0H							
M+G		4.32H		ACT	1.14	15.9	26	545 684 813 915 1030 (18) (12) (43) (20) (13)
52-TE-NAT	-	-	-	ACT	4.7+-0.1	54+-4	6 11 13 14	
120	0.09	154D	M IT=90.2	ACT	0.34+-0.06			37 1102 (8) (22)
		16.8D	G	ACT	2.0+-0.3			470 508 573 (1) (18) (80)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
			M+G	ACT	2.34+-0.31			
122	2.4	119.7D	M IT=100	ACT	1.1+-0.5			
		12E+12Y	G	ACT	2.3+-0.7			
			M+G	ACT	3.4+-0.5	64+-12	6 19 24 25 26	
123M	*119.7D	-		ACT	42.89	273.1	26	
G	0.87 *12E+12Y	-		ACT	418+-30	5547+-113	6 19 24 25 26	
124	4.6	58D	M IT=100	ACT	0.040+-0.025			
			G	ACT	6.76+-1.31			
			M+G	ACT	6.8+-1.3	5.9+-1.5	6 19 24 26	
125M	*58D	-		ACT	11.09	78.85	26	
G	7.0			ACT	1.55+-0.16	19+-3	6 19 24 25 26	
126	18.7	109D	M IT=97.6	ACT	0.135+-0.023	1.04	25	58 (21)
		9.35H	G	ACT	0.90+-0.15	8.56		
			M+G	ACT	1.035+-0.15	9.6+-1.6	6 19 24 25 26 27 28 29	
127M	*109D	-		ACT	3380+-510	1140+-170	6 24 26	
G	*9.35H	-		ACT	2.76	48.2	26	
128	31.8	33.6D	M IT=63.4	ACT	0.015+-0.001	0.0774+-0.0050	6 370	696 730 (9) (2)
		69.6M	G	ACT	0.1997+-0.0080	1.54+-0.11	6 25 370	
			M+G	ACT	0.2147+-0.0081	1.62+-0.11	6 19 24 26 27 28 29 391	
129M	*33.6D	-		ACT	1.11	20.51	24 26	
G	*69.6M	-		ACT	0.37	7.41	26	
130	34.5	30H	M IT=18	ACT	0.02+-0.01	0.0485	25	774 794 852 1125 1207 (50) (18) (27) (15) (13)
		25.0M	G	ACT	0.27+-0.06	0.446	25	*150 452 493 602 1147* (69) (18) (5) (4) (5)
			M+G	ACT	0.29+-0.06	0.49+-0.05	6 20 24 26 27 28 29 32 391	
131M	*30H	78H		ACT	0.11	0.16	26	50 112 116 228 (14) (2) (2) (88)

52-TE

TARGET NUCLIDE	A+1 NUCLIDE	TYPE OF	THERMAL CROSS SECTIONS	RESONANCE INTEGRALS	RESONANCE INTEGRALS	MAIN GAMMA-RAYS FOR A+1

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
G	*25.0M			ACT	0.04	0.05	26	
132	*78H	55.4M	M IT=17					262 647 864 913 915 (14) (34) (29)(100) (19)
		12.5M	G	ACT		0.06	24 26	312 408 720 787 1333 (71) (30) (7) (6) (10)
53-I -125	*60.2D	12.8D		ACT	894+-90	13730+-2000	6 8	389 491 666 754 880 (78) (7) (59) (7) (2)
126	*12.8D	-		ACT	5960	40600	6 9	
127	100	24.99M		ACT	6.2+-0.2	148+-5	6 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 40 400 432	443 527 743 (17) (2) (2)
129	*1.6E+7Y	9.0M	M IT=83	ACT	18+-2			536 586 1122 1614 (100) (7) (1) (3)
		12.4H	G	ACT	9+-1			418 536 669 739 1157 (34) (99) (96) (82) (11)
			M+G	ACT	27.0+-2.2	37+-5	6 15 16 19 24 25 26 27 28 30 31 40	
130	*12.4H	8.05D		ACT	18+-3	178	24 26 32	80 284 364 637 723 (3) (6) (81) (7) (2)
131	*8.05D	83.6M	M					175 600 614 668 773 (63)(100) (18)(100) (99)
		2.3H	G					523 630 668 773 955 (16) (14) (99) (76) (18)
			M+G	ACT	0.7	8.5+-1.2	24 25 26 27 33 34 38 384	
133M	*9S	3.5M						234 847 884 (68) (99) (99)
G	*20.3H	52.0M						595 622 847 884 1073 (11) (11) (95) (65) (15)
M+G				ACT	0.003	0.005	26	
135	*6.68H	45.0S	M					197 370 381 750 1313 (78) (17)(100) (6)(100)
		84.0S	G					1313 1321 2290 2415 2634 (67) (25) (11) (7) (7)
			M+G	ACT	0.022	0.023	24 26 34 384	
54-XE-NAT	-	-	-	ACT	23.9+-1.2	262+-45	6	
124	0.096	55.0S	M IT=100	ACT	28+-5	600+-100	6	
		16.8H	G	ACT	137+-21	2545+-650		55 188 243 454 846 (6) (55) (29) (4) (1)
			M+G	ACT	165+-20	3145+-645	6 35 36	
125	*16.8H	-		N,A	<0.03			

54-XE

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REAC TION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
126	0.090	75.0S	M IT=100	ACT	0.45+-0.13	8+-2	6	
		36.41D	G	ACT	3.05+-0.81	42+-15		58 145 172 203 375 (1) (4) (26) (68) (17)
			M+G	ACT	3.5+-0.8	50+-15	6 37	
127	*36.41D	-		N,A	<0.01			
128	1.919	8.9D	M IT=100	ACT	0.48+-0.10	20+-10	6 25	
		-	G	ACT	6.02+-1.5	85+-22	25	
			M+G	ACT	6.5+-1.5	105+-20	6 24 26 32	
129	26.44	-		ACT	21+-5	252+-17	19	
130	4.08	11.8D	M IT=100	ACT	0.45+-0.10	1.17	25	164 (2)
		-	G	ACT	6+-1	13.72	25	
			M+G	ACT	6.45+-1	14.89	6 24 26 32	
131	21.18	-		ACT	85+-10	890+-120	15	
132	[illegible] 89	2.26D	M IT=100	ACT	0.050+-0.010	0.9+-0.2	6 25 35	233 (10)
		5.27D	G	ACT	0.400+-0.061	3.7+-0.6	25	81 (37)
			M+G	ACT	0.450+-0.060	4.6+-0.6	6 24 26 27 28	
133	*5.27D	-		ACT	190+-90	356.3	24 26 27 32 34 384	
134	10.4	15.6M	M IT=99	ACT	0.003+-0.001	0.1	25	787 1133 1358 (100) (5) (5)
		9.14H	G	ACT	0.262+-0.020	0.29	25	250 608 (90) (3)
			M+G	ACT	0.265+-0.020	0.30	6 24 26 27 28 35 39	
135	*9.14H	-		ACT	(2.65+-0.11)E+6	7475+-275	6 19 24 26 27 32 34	
136	8.87	3.9M		ACT	0.26+-0.02	0.74+-0.21	6 24 26 27 28	456 (30)
55-CS-133	100	2.89H	M IT=100	ACT	2.5+-0.2	30+-6	23 29 432	
		2.05Y	G	ACT	26.5+-1.5	407+-24	14 19 25 29 34 47 432	569 605 796 802 847 (15) (98) (85) (9)(100)
			M+G	ACT	29.0+-1.5	422+-23	2 6 13 15 24 26 27 28 33 40 41 42 43 45 46 47 48 50 411 412	
134	*2.05Y	2.3E+6Y		ACT	140+-12	54.2	6 24 26 27 32	

55-CS

TARGET NUCLIDE	A+1 NUCLIDE	TYPE	THERMAL	RESONANCE	RESONANCE	MAIN GAMMA-RAYS FOR A+1

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
135	*2.3E+6Y	13.7D		ACT	8.7+-0.5	66+-8	6 24 25 26 27 28 30 34 49 384	177 341 818 1048 1235 (14) (49) (100) (80) (20)
136	*13.7D	30.0Y		ACT	1.3	44+-15	6 24 26	
137	*30.0Y	2.9M	M					112 192 324 463 1436 (8) (81) (6) (95) (100)
		32.2M	G					463 547 1010 1436 2218 (31) (11) (30) (76) (15)
			M+G	ACT	0.110+-0.033	0.43+-0.15	24 26 27 28 34	
56-BA-NAT	-	-	-	ACT	1.2+-0.1	9+-2	6 11 13 17	
130	0.101	14.5M	M IT=100	ACT	2.5+-0.3			
		11.6D	G	ACT	8.8+-0.9			124 216 249 373 496 (29) (20) (3) (13) (44)
			M+G	ACT	11.3+-1.0	235+-25	2 6 29 47 48	
132	0.097	39H	M IT=99	ACT	0.5	3.3+-0.5	6 29	
		10.5Y	G	ACT	6.5+-0.8			81 276 303 356 384 (33) (7) (18) (62) (9)
			M+G	ACT	7.0+-0.8			
134	2.42	29H	M IT=100	ACT	0.158+-0.024	24+-4	6 29 32	268 (16)
		-	G	ACT	1.84+-1.6	13+-11		
			M+G	ACT	2.0+-1.6	37+-10	6 24 25 26	
135	6.59	0.32S	M IT=100	ACT	0.0139+-0.0007	0.465+-0.070		
		-	G	ACT	5.78+-0.90	109.5+-17.0		
			M+G	ACT	5.8+-0.9	110+-17	6 24 25	
136	7.81	2.6M	M IT=100	ACT	0.010+-0.001	0.75+-0.04	29	662 (90)
		-	G	ACT	0.39+-0.40	0.85+-0.30		
			M+G	ACT	0.4+-0.4	1.6+-0.3	6 19 24 25 26 27	
137	11.32	-		ACT	5.1+-0.4	4.8+-0.6	6 19 24 25 26 27 32	
138	71.66	83.3M		ACT	0.360+-0.036	0.32+-0.07	6 20 24 25 26 27 28 29 400 409	166 (22)
139	*83.3M	12.79D		ACT	6.2+-1.6			30 163 305 424 537 (11) (6) (4) (3) (24)
140	*12.79D	18M		ACT	1.6+-0.3	13.2+-0.8	6 24 25 26 27 29 32 38 51	190 277 304 344 648 (46) (23) (25) (14) (6)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
57-LA-NAT	-	-	-	ACT	8.97+-0.05	12.7+-0.8	11 12 52 53 54 55	
138	0.089	-		ACT	57.2+-5.7	548+-96	6 388 428	
139	99.911	40.22H		ACT	8.93+-0.04	12.2+-0.8	2 6 15 19 24 25 26 27 28 29 34 40 47 48 56 57 58 59 60 383 384 388 399	329 (21) 487 (46) 816 (24) 925 (7) 1596 (95)
140	*40.22H	3.87H		ACT	2.7+-0.3	69+-3	24 25 26 27 38 56 388	1355 (3)
58-CE-NAT	-	-	-	ACT	0.63+-0.04	0.67+-0.05	6 13	
136	0.193	34.4H	M IT=99.2	ACT	0.95+-0.25			169 (27) 762 (15) 825 (34) 835 (8) 1005 (2)
		9.0H	G	ACT	6.3+-1.5			447 (1)
			M+G	ACT	7.25+-1.52	58+-12	6 388	
138	0.25	55.0S	M IT=100	ACT	0.015+-0.005			
		137.2D	G	ACT	1.1+-0.3			166 (80)
			M+G	ACT	1.115+-0.300			
139	*137.2D	-		ACT	500			
140	88.48	32.5D		ACT	0.57+-0.04	0.48+-0.04	2 6 20 24 25 26 27 28 29 47 48 61 62 388	145 (48)
141	*32.5D	-		ACT	29+-3	23.7+-4.5	6 24 26 27 34 384	
142	11.07	33H		ACT	0.95+-0.05	1.14+-0.04	6 20 24 25 26 27 28 29 62 388	57 (12) 293 (42) 351 (3) 665 (5) 722 (5)
143	*33H	284D		ACT	6.0+-0.7	40	24 26 27 32	80 (1) 134 (11)
144	*284D	3.0M		ACT	1.0+-0.1	2.6+-0.2	6 24 25 26 27 39 63 388	53 (15) 284 (9) 440 (6) 724 (59) 1148 (9)
59-PR-141	100	14.6M	M	ACT	3.9+-0.3			
		19.2H	G	ACT	7.6+-0.3			642 (12) 1576 (4)
			M+G	ACT	11.5+-0.3	17.8+-3.5	6 10 11 12 15 19 24 25 26 27 28 29 34 40 47 52 384 388 412	
142	*19.2H	13.59D		ACT	20+-3	144	24 26 32	
143	*13.59D	17.27M		ACT	90+-10	185+-15	6 24 25 26 27 34 38 64 384 388	696 (1)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. %	A+1 NUCLIDE HALF-	ISOMER. STATE	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
145	*5.98H	24.0M		ACT	18.44	445.1	26	
60-ND-NAT	-	-	-	ACT	50.5+-2.0	43.5+-5.5	6 12 55	
142	27.13	-		ACT	18.7+-0.7	8.5+-1.0	6 24 25 26 32 388 417	
143	12.20	-		ACT	325+-10	136+-35	6 14 15 19 24 25 26 27 28 34 40 384 388	
144	23.87	-		ACT	3.6+-0.3	5+-1	6 24 25 26 27 28 38 388	
145	8.29	-		ACT	42+-2	255+-40	6 14 15 19 24 25 26 27 28 34 40 384 388 424 436	
146	17.18	11.06D		ACT	1.4+-0.1	2.7+-0.4	6 24 25 26 27 28 29 47 62 65 66 388	91 (28) 319 (2) 440 (1) 531 (13)
147	*11.06D	-		ACT	440+-150	540+-150	24 26 34 384 437	
148	5.72	1.8H		ACT	2.5+-0.2	14.0+-1.5	6 24 25 26 27 28 29 59 62 65 66 67 388	114 (19) 211 (27) 270 (11) 424 (9) 541 (8)
150	5.60	12M		ACT	1.2+-0.2	14.5+-2.0	6 24 25 26 27 28 29 59 62 65 66 388	117 (47) 139 (8) 175 (8) 256 (17) 1181 (15)
61-PM-146	*5.53Y	2.62Y		ACT	8400+-1680			
147	*2.62Y	41.3D	M IT=4.65	ACT	85+-5	1045+-265	6 25 34 69 70 388 414	550 (98) 630 (93) 726 (34) 915 (20) 1014 (21)
		5.37D	G	ACT	96+-2	1320+-85	6 25 38 69 70 71 388 414 417	550 (23) 611 (1) 915 (13) 1465 (22)
			M+G	ACT	181+-7	2230+-70	6 15 19 24 26 27 28 34 40 69 70 72 73 384 388 435	
148M	*41.3D	53.1H		ACT	22000+-2500	3600+-2400	6 24 26 27 34 69 384 388	286 (3)
G	*5.37D			ACT	2000+-1000	43500+-4500	24 26 27 34 69 384	
149	*53.1H	2.68H		ACT	1400+-300	825+-50	24 26 27 34 384	334 (69) 832 (12) 876 (7) 1166 (16) 1325 (18)
151	*28.4H	15M	M2					
		7.5M	M1					122 (45) 245 (78) 340 (31) 1097 (29) 1437 (23)
		4.2M	G					122 (16) 696 (1) 841 (2) 961 (2) 963 (2)
			M2+M1+G	ACT	173	1400+-400	24 26 34 384	

61-PM

TARGET NUCLIDE	A+1 NUCLIDE	TYPE OF	THERMAL CROSS SECTIONS	RESONANCE INTEGRALS	RESONANCE INTEGRALS	MAIN GAMMA-RAYS FOR A+1 NUCLIDE

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
62-SM-NAT	-	-	-	ACT	5800+-100	1430+-120	6 13	
144	3.16	340D		ACT	0.7			61 (12)
147	15.07	-		ACT	64+-5	650+-50	6 14 24 25 26 27 28 34 38 40 75 384 387 388 424	
148	11.27	-		ACT	2.7+-0.6	27+-14	6 24 26 27 28 34 38 74 75 384 388	
149	13.82	-		ACT	41000+-2000 G(T)=1.5860	3700+-400	6 19 24 26 27 28 34 76 411	
150	7.47	93Y		ACT	102+-5	280+-30	6 19 24 25 26 27 28 34 74 76 77 384 387 388 418	
151	*93Y	-		ACT	15000+-1800	3100+-500	6 16 19 24 25 26 27 28 34 38 135 384 388 411	
152	26.63	46.8H		ACT	206+-6	2960+-150	10 11 14 15 18 19 24 26 27 28 29 34 40 41 47 79 80 81 82 384 388 412 432	70 103 (5) (28)
153	*46.8H	-		ACT	334.5	3700+-2000	24 26 34 384	
154	22.53	23.5M		ACT	5.5+-1.1	29+-7	6 24 26 27 28 29 82 83 388	104 141 246 (75) (2) (4)
156	*9.4H	8.0M		ACT	17.16	331.9	26	
63-EU-NAT	-	-	-	ACT	4600+-100 G(T)=0.9069	4346+-170	6 53 55 84 85 409	
151	47.77	96M	M2 IT=100	ACT	4.2+-2.0			
		9.3H	M1 IT=0	ACT	3211+-82 G(T)=0.8936	1823+-146	10 14 29 58 59 84 85 86 87 88 392	122 344 842 963 1389 (26) (3) (52) (43) (3)
		12.7Y	G IT=0	ACT	5935+-73 G(T)=0.9022	3552+-264	48 59 84 85 392	122 344 779 964 1408 (39) (95) (46) (20) (29)
			G+M1+M2	ACT	9146+-109 G(T)=0.8992	5367+-263	6 18 24 27 29 34 53 59 82 83 84 85 392 432	
152		-		ACT	2313			
153	52.23	8.5Y		ACT	603+-23 G(T)=1.0290	3414+-197	6 11 14 15 19 24 25 26 27 28 29 34 40 53 82 83 84 85 392 424	123 185 723 1005 1274 (40) (20) (20) (18) (35)
154	*8.5Y	4.65Y		ACT	1500+-400	1500+-450	6 24 26 27 32 34 384 442	45 60 87 105 (1) (1) (31) (21)

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REAC TION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
155	*4.65Y	15.4D		ACT	4040+-125	1680+-300	6 24 26 27 28 34 78 89 384 442	89 812 1153 1231 1242 (9) (10) (7) (9) (7)
156	*15.4D	15.1H		ACT	480	1660+-340	24 26 28 34 384	
157	*15.1H	46M		ACT	190	1350+-380	24 26 34 384	79 898 944 977 1108 (11) (10) (25) (14) (4)
64-GD-NAT	-	-	-	ACT	49000+-1000	420+-15	6 13 78 89 409	
152	0.20	242D		ACT	1100+-100	3000+-300	6 47 89 392	70 97 103 (2) (28) (20)
154	2.15	-		ACT	85+-12	280+-60	6 24 25 75 83 89 90 392	
155	14.7	-		ACT	61000+-500 G(T)=0.8387	1570+-40	6 24 26 27 28 34 78 89 384	
156	20.47	-		ACT	1.5+-1.2	100+-20	6 24 25 26 27 28 75 78 89 90 392	
157	15.68	-		ACT	254000+-2000 G(T)=0.8561	850+-100	6 19 24 26 27 28 34 78 89 384	
158	24.9	18.0H		ACT	2.5+-0.5	80+-15	6 24 25 26 27 28 29 47 59 78 83 89 392	58 364 (2) (11)
159	*18.0H	-		ACT	16.3	186.7	26	
160	21.9	3.7M		ACT	0.77+-0.02	7+-1	6 24 25 26 32 78 83 89 392	56 102 283 315 361 (5) (16) (7) (24) (65)
65-TB-159	100	72.1D		ACT	23.2+-0.5	400+-25	2 6 18 19 24 25 26 28 29 47 48 62 91 92 145 392 432	87 299 879 966 1178 (13) (27) (29) (25) (15)
160	*72.1D	6.9D		ACT	525+-100	1135	24 26 32	26 49 57 75 (21) (15) (2) (10)
161	*6.9D	7.48M		ACT	96.6	655.9	26	185 260 808 882 888 (16) (79) (45) (12) (39)
66-DY-NAT	-	-	-	ACT	1000+-40	1520+-80	6 93 94 95 96	
156	0.0524	8.1H		ACT	33+-3	960+-80	6 97	182 326 (2) (95)
158	0.0902	144D		ACT	43+-6	120+-20	6 97	58 (2)
160	2.294	-		ACT	95+-10	1240+-140	5 6 12 13 95 424	
161	18.88	-		ACT	510+-30	1300+-100	6 19 24 25 26 75 95 392 424	

66-DY

TARGET NUCLIDE	A+1 NUCLIDE	TYPE OF	THERMAL CROSS SECTIONS	RESONANCE INTEGRALS	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
162	25.53	-		ACT	245+-40	2500+-250	6 19 24 25 26 75 95 392 424	
163	24.97	-		ACT	305+-25	1700+-200	6 19 24 25 26 75 95 392 424	
164	28.18	1.15M	M IT=97.7	ACT	1700+-250			
		2.35H	G	ACT	1000+-150			
			M+G	ACT	2700+-75	650+-100	6 19 24 26 29 34 59 86 95 97 98 145 381 392 424	
165	*2.35H	81.5H		ACT	3900+-300	22000+-3000	6 97	82 (13)
67-HO-165	100	1200Y	M IT=0	ACT	3.5+-0.5	55+-25		81 (13) 184 (75) 280 (30) 712 (60) 810 (64)
		27.2H	G	ACT	61.2+-1.1	660+-35	18 25 29 32 47 59 142 145 432	81 (6)
			M+G	ACT	64.7+-1.2	715+-55	6 19 24 26 55 392 409	
68-ER-NAT	-	-	-	ACT	162+-8	745+-25	3 6 91	
162	0.136	75.1M		ACT	19+-2	480+-30	6 99 392	
164	1.56	10.34H		ACT	13+-2	120+-10	6 99 392	
166	33.41	2.35S	M IT=100	ACT	15+-2			
		-	G	ACT	20+-2			
			M+G	ACT	35+-4	125+-15	6 24 75 83 101 392	
167	22.94	-		ACT	670+-30	3000+-150	6 24 83 101 136 392	
168	27.07	9.6D		ACT	1.95+-0.05	35+-5	6 83 99 101 136 392	
170	14.88	7.52H		ACT	5.7+-0.2	24+-4	6 15 29 59 83 99 136 392 432	112 (21) 117 (2) 124 (9) 296 (30) 308 (66)
171	*7.52H	49.5H		ACT	280+-30			
69-TM-169	100	0.004MS	M IT=100	ACT	8+-1			
		130D	G	ACT	95+-2			79 (3) 84 (3)
			M+G	ACT	103+-3	1710+-70	6 19 29 47 91 97 102 136 392	

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
170	*130D	1.92Y		ACT	92+-4	460+-50	6 136	
171	*1.92Y	63.6H		ACT	4.5+-0.2	118+-6	6 136	
70-YB-NAT	-	-	-	ACT	36.6+-2.0	195+-15	6 91 103	
168	0.140	46S	M IT=100					
		31.8D	G					63 110 177 198 308 (44) (17) (21) (35) (11)
			M+G	ACT	3470+-100	30500+-2500	6 29 47 83 92 97 102 103 392	
170	3.03			ACT	10+-1	270+-60	75 83 103 392	
171	14.31	-		ACT	50+-4	380+-45	6 75 83 101 103 392	
172	21.82	-		ACT	1.3+-0.8	25.2+-1.6	6 75 83 101 103 392	
173	16.13	-		ACT	19+-2	450+-55	6 75 103 392	
174	31.84	67MS	M IT=100	ACT	46+-4			
		4.2D	G	ACT	19+-6			114 283 396 (2) (3) (6)
			M+G	ACT	65+-5	34.5+-4.5	6 29 47 83 97 101 102 103 392	
176	12.73	6.5S	M IT=100					
		1.9H	G					122 139 150 1080 1241 (3) (1) (20) (5) (3)
			M+G	ACT	2.4+-0.2	8.1+-1.6	6 29 59 83 97 103 392	
71-LU-NAT	-	-	-	ACT	77+-3 G(T)=1.4968	732+-63	6 12 53	
175	97.40	3.69H	M IT=0	ACT	15.10+-1.24	523+-57	29 59 86 339	88 (9)
		3.3E10Y	G	ACT	7+-1	202+-30		88 202 307 (13) (84) (93)
			M+G	ACT	22.1+-1.6	725+-65	6 53 83 88 392 433	
176	2.60 *3.3E10Y	0.160MS	M1	ACT	315+-60			
		155D	M2 IT=22	ACT	2.1+-0.7	3.8+-1.0	339	113 208 228 379 419 (28) (79) (48) (36) (26)
		6.74D	G	ACT	1778+-75			113 208 (6) (11)
			M1+M2+G	ACT	2100+-50 G(T)=1.6914	1017+-45	6 29 53 86 88 98 433	

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
72-HF-NAT	-	-	-	ACT	102+-2	2020+-65	6 10 11 12 13 14 41 45 94 104 105 106 107 108 142	
174	0.163	70D		ACT	390+-55	288+-24	6 29 108	
176	5.21	-		ACT	38+-6	428+-55	6 94 104 105 106 108	
177	18.56	4.3S	M IT=100	ACT	1.1+-0.1			
		-	G	ACT	363+9			
			M+G	ACT	365+-20	7478+-244	6 94 104 105 106 108	
178	27.1	25.1D	M2 IT=100					
		18.6S	M1 IT=100	ACT	53+-6			
		-	G	ACT	33+-8			
			M+G	ACT	86+-7	1914+-95	6 94 104 105 106 108	
179	13.75	5.5H	M IT=100	ACT	0.34+-0.03	4.75+-0.16	29	
		-	G	ACT	44.66	563+-55		
			M+G	ACT	45+-5	568+-55	6 94 104 105 106 108	
180	35.22	42.5D		ACT	12.6+-0.7	33.6+-3.2	2 6 10 11 29 47 48 94 104 105 106 108 109	133 (43) 136 (6) 137 (2) 346 (14) 482 (86)
181	*42.5D	61.5M	M					114 (12) 340 (11) 603 (10) 800 (18) 943 (37)
		9E+6Y	G					114 (3) 156 (7) 270 (80)
			M+G	ACT	40+-30			
73-TA-NAT	-	-	-	ACT	21.6+-0.7	717+-25	3 13 14 41 53 110 111 138 142	
180	0.0123	-		ACT	700+-200	600+-200	6	
181	99.9877	16.5M	M IT=100	ACT	0.012+-0.003	0.415+-0.110	29 339 398 432	
		115.1D	G	ACT	21.5+-0.6	717+-25	180 432	68 (41) 100 (14) 1121 (35) 1189 (16) 1221 (27)
			M+G	ACT	21.5+-0.6	717+-25	6 10 11 18 29 47 48 112 113 114 139 144 180 409	
182	*115.1D	5.0D		ACT	8530+-450	977+-58	2 6 110 114 180	108 (11) 161 (12) 244 (9) 246 (27) 354 (11)
74-W -NAT	-	-	-	ACT	18.5+-0.5 G(T)=1.6880	352+-23	3 6 12 13 14 93 115 116 117 118 120 409	

74-W

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
180	0.135	121D		ACT	3.5	200	6	
182	26.4	-		ACT	20.7+-0.5	591+-45	6 83 118	
183	14.4	-		ACT	10.2+-0.3	367+-38	6 83 118	
184	30.6	1.62M	M IT=100	ACT	0.002+-0.001			
		75D	G	ACT	1.8+-0.2			
			M+G	ACT	1.8+-0.2	13.4+-2.5	6 29 83 93 116 118 121 140	
186	28.4	23.9H		ACT	37.0+-1.5	490+-15	6 10 11 18 29 58 83 86 93 116 118 121 122 123 124 125 126 127 128 129 143 400 432	72 (11) 134 (9) 480 (21) 618 (6) 686 (26)
187	*23.9H	69.4D		ACT	64+-10	2670+-550	6 126	
75-RE-NAT	-	-	-	ABS	88.7+-3.8	828+-36	6 130 141 416	
185	37.07	88.9H		ACT	112+-3	1718+-45	6 10 11 29 131 132 133 134 137 141 409	
187	62.93	18.7M	M IT=100	ACT	73+-4	8.8+-0.8	29	
		16.7H	G	ACT	1.6+-0.3	296.2+-10.0		155 (15) 478 (1) 633 (1)
			M+G	ACT	75+-4	305+-10	6 10 11 29 132 137 141 409	
76-OS-NAT	-	-	-	ACT	15.3+-0.7	172+-35	13 53	
184	0.018	93.6D		ACT	3005+-122	1354+-52	29 146	592 (1) 646 (81) 717 (4) 875 (7) 881 (5)
186	1.59			ACT	0.001			
187	1.64	-		ACT	336+-17	890+-100	6	
188	13.3	5.7H	M IT=100					
		-	G					
			M+G	ACT	4.3+-1.0	135+-35	6	
189	16.1	10M	M IT=100	ACT	0.26+-0.03	0.013+-0.001	29	
		-	G	ACT	22.74+-4.00	750+-50		
			M+G	ACT	23+-4	750+-50	6	

TARGET NUCLIDE	A+1 NUCLIDE	TYPE OF	THERMAL CROSS SECTIONS	RESONANCE INTEGRALS	RESONANCE INTEGRALS	MAIN GAMMA-RAYS FOR A+1 NUCLIDE

TARGET NUCLIDE		A+1 NUCLIDE		TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
Z-SYMBOL-A	ABUND. % OR HALF-LIFE	HALF-LIFE	ISOMER. STATE . IT %					
190	26.4	15H	M IT=100	ACT	13.20+-0.31	26.5+-2.5	29 146	
		15D	G	ACT	3.9+-0.8	31.7+-2.5	29	129 (26)
			M+G	ACT	17.1+-0.9	58.2+-3.7	6	
192	41.0	31.5H		ACT	1.97+-0.11	5.4+-1.3	6 29 146	73 (3) 139 (4) 322 (1) 387 (1) 460 (4)
193	*31.5H	6.0Y		ACT	1540			43 (2)
77-IR-NAT	-	-	-	ACT	426+-4 G(T)=1.0320	2606+-120	6 13 53	
191	38.5	241Y	M2 IT=100	ACT	0.32+-0.17			
		1.4M	M1 IT=99	ACT	300+-30	1060+-150	147 148	
		74.2D	G	ACT	624+-20	3535+-250	29 86	206 (70) 308 (31) 316 (87) 468 (50) 485 (67)
			M+G	ACT	924+-53 G(T)=1.0326	4595+-290	6 10 11 46 147 148	
192	*74.2D	-		ACT	1100+-400			
193	61.5	171D	M IT=0	ACT	5.8+-2.0			328 (93) 483 (97) 562 (70) 600 (62) 688 (59)
		19H	G	ACT	110+-15			294 (3) 328 (13) 645 (1)
			M+G	ACT	112.5+-7.5 G(T)=1.0218	1362+-33	6 10 11 29 86	
78-PT-NAT	-	-	-	ACT	10.0+-0.2	128+-15	6 11 14 41 142 409	
190	0.0127	3.0D		ACT	150+-150			82 (5) 172 (4) 360 (6) 409 (8) 539 (14)
192	0.78	4.4D	M IT=100	ACT	2.2+-0.8			
		(50)Y	G					
			M+G	ACT	<14	83+-10	6	
194	32.9	4.1D	M IT=100	ACT	0.090+-0.013			
		-	G	ACT	1.11			
			M+G	ACT	1.2+-0.9	4+-2	6	
195	33.8	-		ACT	27+-2	355+-50	6	
196	25.2	1.5H	M IT=96.7	ACT	0.050+-0.10			130 (3) 202 (1) 279 (71)
		18H	G					77 (17) 191 (4)
			M+G	ACT	0.74+-0.08	8.3+-2.0	6 29 57	

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
198	7.19	14S	M IT=100	ACT	0.027+-0.003			
		31M	G	ACT	3.673			77 186 317 494 543 (2) (3) (5) (6) (15)
			M+G	ACT	3.7+-0.2	55.6+-2.5	6 18 29 57 119 123 432	
199	*31M	11.5H		ACT	1.5+-1.0			60 76 136 227 244 (2) (13) (3) (2) (3)
79-AU-197	100	2.7D		ACT	98.8+-0.3 G(T)=1.0038	1551+-13	2 3 6 86 88 123 129 149 150 151 153 154 409 446	412 676 (95) (1)
198	*2.7D	3.15D		ACT	26736+-850	-(41240+-4190)	417	158 208 (37) (8)
80-HG-NAT	-	-	-	ACT	375+-5	73+-10	6 11 12 13	
196	0.146	24H	M IT=93.5	ACT	120+-13	58.9+-2.4	6 29 155	130 202 279 (3) (1) (71)
		65H	G	ACT	3080+-200	413+-15	6 29 155	77 (18)
			M+G	ACT	3200+-200	471.9+-15.2	155	
198	10.02	43M	M IT=100	ACT	0.018+-0.004	1.8+-0.3	29	
		-	G	ACT	1.882+-0.200	68.2+-30.0		
			M+G	ACT	1.9+-0.2	70+-30	6	
199	16.84	-		ACT	2000+-1000	153+-30	6	
200	23.73	-		ACT	<60			
201	13.22	-		ACT	<60			
202	29.80	46.9D		ACT	4.9+-0.1	4.43+-0.25	6 29 46 155 156	279 (81)
204	6.85	5.5M		ACT	0.43+-0.10	0.80+-0.04	29	204 (2)
81-TL-NAT	-	-	-	ACT	3.4+-0.5	12.3+-2.5	6 96 157	
203	29.50	3.78Y		ACT	11.0+-0.5	40+-2	6 10 11 102 157	
204	<3.78Y	-		ACT	21.6+-2.0	86+-17	6	
205	70.50	4.19M		ACT	0.10+-0.03	0.7+-0.2	6 10 11	
82-PB-NAT	-	-	-	ACT	0.170+-0.002	0.16+-0.05	6 11 14 409	
204	1.40	1.4E+7Y		ACT	0.661+-0.070	1.7+-0.5	6	

82-PB

TARGET NUCLIDE Z-SYMBOL-A	ABUND. %	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)

TARGET NUCLIDE		A+1 NUCLIDE		TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
Z-SYMBOL-A	ABUND. % OR HALF-LIFE	HALF-LIFE	ISOMER. STATE . IT %					
206	25.1	-		ACT	0.0305+-0.008	0.2+-0.1	6	
207	21.7	-		ACT	0.709+-0.010	0.4+-0.2	6	
208	52.3	3.3H		ACT	0.487+-0.030			
83-BI-209	100	3.5E+6Y	M IT=0	ACT	0.019+-0.002			266 305 650 (50) (28) (4)
		5.01D	G	ACT	0.014+-0.003			
			M+G	ACT	0.033+-0.004	0.20+-0.06	6 11 14 41	
210	*5.01D	2.16M		ACT	0.054+-0.005	0.20+-0.02	158	351 (13)
84-PO-210	*138.4D	25.0S	M IT=0	ACT	<0.0005			
		0.52S	G	ACT	<0.030			
85-AT-211	*7.21H	122MS						63 (8)
86-RN-220	*55.6S	25.0M		ACT	<0.2			150 186 217 254 265 (6) (26) (3) (10) (5)
222	*3.8D	43.0M		ACT	0.72+-0.07			
87-FR-223	*22.0M	2.7M						
88-RA-223	*11.43D	3.64D		ACT	130+-20			241 (4)
224	*3.64D	14.8D		ACT	12.0+-0.5			40 (29)
226	*1600Y	41.2M		ACT	11.5+-1.5 G(T)=1.0708	222+-15	6	27 277 284 300 303 (17) (3) (3) (5) (5)
228	*5.75Y	4.0M		ACT	36+-5			
89-AC-227	*21.77Y	6.13H		ACT	762+-29	1017+-103	159 160	209 338 911 965 969 (5) (12) (29) (5) (17)
90-TH-227	*18.72D	1.913Y		FISS	200+-20			
228	*1.913Y	7340Y		FISS	<0.3			
				ACT	123+-15	>1013	6	31 86 137 194 211 (4) (3) (2) (5) (3)
229	*7340Y	8E+4Y		FISS	30.5+-3.0 G(T)=1.0494	350+-80	6 177 415	
				ACT	54+-6	1000+-175	6	

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
				ABS	84.5+-6.7	1350+-190		
230	*8E+4Y	25.6H		FISS	<0.0012			
				ACT	23.2+-0.6	990+-40	6 161 162 163 178 415 448	26 (15) 84 (6)
231	*25.6H	-		FISS	26.68	156.2	409	
				ACT	160.1	837.6	409	
				ABS	186.78	993.8	409	
232	100	22.12M		FISS	(39+-4)E-6	0.0746+-0.0016	164 409	
				ACT	7.40+-0.08	82.3+-2.4	6 11 22 29 38 47 48 165 166 167 168 169 170 171 207 239 409 415	29 (2) 86 (3) 459 (1)
				ABS	7.40+-0.08	82.4+-2.4	3 13 14 22 45 172 173 174 176 235 302 409	
233	*22.12M	24.1D		FISS	15+-2	84	409	
				ACT	1500+-100	408+-75	6 207 409	63 (4) 92 (3) 93 (3)
				ABS	1515	492+-75	409	
234	*24.1D	6.9M		FISS	<0.01			
				ACT	1.8+-0.5			
91-PA-230	*17.4D	32500Y		FISS	1500+-200			
231	*32500Y	1.31D		FISS	0.006+-0.001 G(T)=1.0670	0.049+-0.013	180	
				ACT	219+-6 G(T)=1.0378	1040+-40	2 6 180 181 182 183 448	150 (11) 454 (9) 819 (7) 894 (20) 969 (42)
232	*1.31D	27.0D		FISS	700+-100			
				ACT	464+-95	289+-67	180	87 (2) 300 (6) 312 (36) 340 (4) 416 (2)
				ABS	1164+-135			
233	*27.0D	1.17M	M IT=0.13 G	ACT	21+-3	425+-33	30 175 184 415	
		6.67H		ACT	20+-3	440+-48	175 184	131 (20) 569 (14) 883 (12) 926 (11) 946 (12)
			M+G	FISS	<0.1			
				ACT	41+-3 G(T)=1.0579	865+-35	6 38 175 184 186 207 385 415	

91-PA

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
234M	*1.17M	23.7M		FISS	<5000			
G	*6.67H			FISS	<500			
92-U -NAT	-	-	-	FISS	4.19+-0.01			
				ACT	3.35+-0.02			
				ABS	7.54+-0.02			
230	*20.8D	4.3D		FISS	25+-10			
231	*4.3D	72Y		FISS	400+-300			
232	*72Y	162000Y		FISS	74+-3 G(T)=0.9739	348+-35	3 6 180 415	
				ACT	73.1+-1.5 G(T)=0.9932	280+-15	3 6 182 188 415	
				ABS	147.1+-3.4 G(T)=0.9836	628+-38	3 415	
233	*162E+3Y	247000Y		FISS	522.6+-2.8 G(T)=0.9963	783.4+-7.8	3 6 38 169 180 185 187 189 190 191 192 193 194 195 196 197 199 200 201 202 203 204 206 207 260 409 415	
				ACT	47.7+-2.0 G(T)=1.0152	138.1+-4.6	3 6 38 190 192 193 195 196 197 200 203 204 207 409 415	
				ABS	578.8+-2.0 G(T)=0.9977	921.5+-9.1	3 38 192 193 195 196 197 200 203 204 207 409 415	
234	0.005 *2.4E+5Y	7.1E+8Y		FISS	<0.65	5.96	226 228 409	
				ACT	100.2+-1.5	678+-38	3 6 38 207 227 228 409 415	109 (1) 144 (10) 163 (5) 186 (54) 205 (5)
				ABS	101+-2 G(T)=1.001	684+-38	228 409	
235	0.720 *7.1E+8Y	239E+5Y		FISS	582.2+-1.3 G(T)=0.9757	276.3+-2.8	3 6 29 38 88 124 154 191 193 196 197 203 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220	
				ACT	93.6+-1.5 G(T)=1.0052	141.8+-4.2	3 6 11 38 193 196 197 203 207 209 210 212 214 216 218 221 222 223 225 287 381 409 415	
				ABS	680.8+-1.3 G(T)=0.9801	418.1+-5.1	3 38 193 196 197 203 207 209 210 211 212 214 218 224 225 287 381 409 415	

TARGET NUCLIDE Z-SYMBOL-A	A+1 NUCLIDE ABUND. % OR HALF-LIFE	HALF-LIFE	ISOMER. STATE IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
236	*239E+5Y	6.75D		FISS	0.0	2	225 226 228 409	
				ACT	5.2+-0.3	358+-8	207 227 228 409 415 448	26 60 65 165 208 (2) (33) (1) (2) (22)
				ABS	5.2+-0.3 G(T)=1.007	360+-8	3 6 15 30 38 113 217 225 228 229 230 231 232 233 234 236 409	
237	*6.75D	451E+7Y		FISS	2.	95.60	226 409	
				ACT	411+-100	373.3	6 409	
				ABS	413+-100	468.9	225 409	
238	99.275 *451E+7Y	23.5M		FISS	<0.0005	0.0013+-0.0002	397 409	
				ACT	2.70+-0.02 G(T)=1.009	276.3+-2.7	3 6 11 14 29 38 47 124 168 207 217 218 219 237 238 239 240 241 242 287 409 415 419	44 75 (4) (50)
				ABS	2.70+-0.02	276.3+-2.7		
239	*23.5M	14.1H		FISS	14+-3	264.2	409	
				ACT	22+-5	156.6	409	44 (2)
				ABS	36+-6	420.8	409	
240	*14.1			FISS	0.0	1.62	409	
				ACT	1.524	176.2	409	
				ABS	1.524	177.82	409	
93-NP-234	*4.4D	396D		FISS	900+-300			
235	*396D	22.5H	M IT=0	ACT	1600+-200			642 (2)
		129E+4Y	G	ACT	184+-4			100 104 160 (6) (8) (30)
			M+G	ACT	1784			
236G	*129E+4Y	214E+4Y		FISS	2500+-150			
237	*214E+4Y	2.12D		FISS	0.019+-0.003 G(T)=1.0015	6.5+-1.2	38 154 409	
				ACT	169+-3 G(T)=1.0072	821.5+-58.0	41 228 409 415 448	924 984 1026 1029 (3) (24) (8) (17)
				ABS	169+-3 G(T)=1.0072	828+-58	6 14 38 53 113 225 243 409	

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
238	*2.12D	2.35D		FISS	2200+-200	1454+-150	6 38 225 243 244	
				ACT	43	29	38 225 226 243	106 (23) 210 (3) 228 (11) 278 (14) 316 (2)
				ABS	2243+-200	1483	3 38 225 243	
239	*2.35D	7.5M	M IT=.113	ACT	31+-6			263 (1) 303 (1) 555 (22) 597 (12) 818 (1)
		65M	G	ACT	14+-14			448 (18) 566 (29) 601 (22) 896 (14) 974 (23)
			M+G	FISS	<1			
				ACT	45+-15			
94-PU-236	*2.85Y	45.6D		FISS	165+-20	960	226	
				ACT	33	197	226	229 (8) 280 (22) 299 (16) 313 (6) 321 (13)
				ABS	195	1157		
237	*45.6D	87.8Y		FISS	2400+-300			
238	*87.8Y	24390Y		FISS	16.5+-0.5	24.2+-2.7	6 30 38 225 228 243 245 246 247 409 415	
				ACT	547+-20	154+-9	6 38 225 228 243 245 246 247 248 409 415	
				ABS	564+-20	178.2+-9.4	6 38 225 228 243 245 246 247 249 250 409 415	
239	*24390Y	6450Y		FISS	744.4+-1.7 G(T)=1.0489	312.2+-8.2	3 6 38 88 154 191 193 197 199 202 203 206 207 208 213 216 217 218 243 246 251 252 253 254 255 257 258 259	
				ACT	268.8+-3.0 G(T)=1.1686	191+-16	3 6 38 88 203 207 216 217 218 243 246 251 252 254 261 287 409 415	
				ABS	1013.2+-3.5 G(T)=1.0812	503.2+-18.0	3 38 88 203 207 216 217 218 243 246 251 252 254 287 409 415	
240	*6450Y	15Y		FISS	0.030+-0.045	5	262 409 415	
				ACT	289.5+-1.4	8460+-305	3 8 14 38 41 207 228 243 261 263 264 265 266 267 268 269 287 304 409 415	104 (4) 149 (8)
				ABS	289.53+-1.41	8465+-305	409 415	

TARGET NUCLIDE | A+1 NUCLIDE | TYPE OF REAC | THERMAL CROSS SECTIONS (BARNS) | RESONANCE INTEGRALS (BARNS) | RESONANCE INTEGRALS REFERENCES | MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV

Z-SYMBOL-A | ABUND. % | HALF- | ISOMER.

TARGET NUCLIDE Z-SYMBOL-A	ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
241	*15Y	387E+3Y		FISS	1009+-8 G(T)=1.0421	558+-18	3 6 38 191 197 202 203 207 208 228 243 246 268 270 409 415	
				ACT	368+-10 G(T)=1.0314	161+-13	3 6 38 203 207 228 243 246 268 409 415	
				ABS	1377+-10 G(T)=1.0388	719+-22	3 38 203 207 228 243 246 268 271 409 415	
242	*387E+3Y	4.96H		FISS	<0.2	5	6 272 273 409 415	
				ACT	18.5+-0.4	1131+-57	6 207 228 248 275 409 415	84 (23)
				ABS	18.7+-0.4	1136+-57	3 243 245 268 272 273 274 276 277 278 306 409	
243	*4.96H	8.3E+7Y		FISS	180	518	273 409	
				ACT	87.4	267	273 409	
				ABS	267.4	785	273 409	
244	*8.3E+7Y	10.5H		ACT	1.7+-0.1	39+-6	6 279	308 (5) 327 (25) 377 (3) 492 (3) 560 (5)
245	*10.5H	10.85D		ACT	150+-30	220+-40	6	28 (4) 44 (25) 180 (10) 224 (23)
95-AM-241	*433Y	13.0S	M2	ACT	(10+-5)E-5			
		152Y	M1 IT=9	ACT	83.8+-2.6	208+-18	6 243 279 281 282	49 (41) 67 (5) 87 (8) 110 (5) 163 (5)
		16.02H	G	ACT	748+-20	1330+-117	6 243 279 281 282 421 434	
			M+G	FISS	3.15+-0.10 G(T)=1.0287	21.5+-1.7	6 228 281 301 409 415 434	
				ACT	832+-20 G(T)=1.0020	1538+-118	228 281 283 409 415	
				ABS	836.15 G(T)=1.0021	1559.5+-118.0	228 278 281 409 415	
242 M1	*152Y	7370Y		FISS	6600+-300	2260+-200	6 243 246 284 286 301 409 415	
				ACT	1400+-860	1100+-500	243 246 409	44 (5) 75 (60)
				ABS	8000+-800	3360+-540	6 243 246 279 409	
G	*16.02H			FISS	2900+-100	300	281 415	
243	*7370Y	26M	M IT=0	ACT	75.2+-1.8	2089+-11		
		10.1H	G	ACT	4.1+-0.2	111+-10	6 113 422	99 (5) 154 (18) 746 (66) 900 (27)
			M+G	FISS	0.20+-0.11	13+-2.5	228 272 273 301 409 415 434	

TARGET NUCLIDE | A+1 NUCLIDE | TYPE OF REAC | THERMAL CROSS SECTIONS (BARNS) | RESONANCE INTEGRALS (BARNS) | RESONANCE INTEGRALS REFERENCES | MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV

TARGET NUCLIDE Z-SYMBOL-A	A+1 NUCLIDE ABUND. % OR HALF-LIFE	HALF-LIFE	ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
				ACT	79.3+-1.8	2200+-15	6 228 243 248 272 273 274 281 306 409 415 422 434	
				ABS	79.5+-1.8 G(T)=0.9182	2213+-15	113 228 247 273 276 285 409 415	
244M	*26M	2.07H		FISS	1600+-300			
G	*10.1H			FISS	2300+-300			
96-CM-242	*163D	28Y		FISS	5	33	226 243 409	
				ACT	16+-5	156+-35	6 226 243 279 409	210 228 278 (3) (11) (14)
				ABS	21+-5	189+-35	243 409 438	
243	*28Y	17.9Y		FISS	672+-60	1527+-142	6 243 288 289 402 409 439	
				ACT	138+-10	214+-17	243 402 409	
				ABS	810+-61	1741+-143	6 243 290 409	
244	*17.9Y	8.5E+3Y		FISS	1.2+-0.1	13.4+-1.5	6 228 243 245 246 247 272 273 276 278 289 294 301 409 415	
				ACT	13.9+-1.0	632.6+-32.0	6 228 243 245 246 247 272 273 276 278 279 289 409 415 441	133 174 (5) (5)
				ABS	15.1	646+-32	228 243 245 246 247 273 276 278 289 290 306 409 415 438	
245	*8.5E+3Y	4760Y		FISS	2020+-40	805+-80	6 243 272 273 276 278 289 293 294 301 409 415	
				ACT	345+-20	101+-8	6 243 272 273 276 278 289 291 409 415 441	
				ABS	2365+-45	906+-80	243 273 278 278 279 289 290 409 415 441	
246	*4760Y	154E+5Y		FISS	0.17+-0.10	11.3+-1.2	6 243 272 273 278 294 301 409 415	
				ACT	1.3+-0.3	121.3+-7.5	6 243 272 273 279 289 291 296 409 415 441	278 287 346 402 (3) (2) (1) (72)
				ABS	1.47+-0.32	132.6+-7.6	243 273 276 278 306 409 415 438	
247	*154E+5Y	3.5E+5Y		FISS	80+-7	754+-60	6 243 272 273 278 289 293 294 301 409 415	

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
				ACT	60+-15	650+-250	6 243 272 273 278 289 409 415 441	
				ABS	140+-17	1404+-257	243 273 278 289 409 415	
248	*3.5E+5Y	64M		FISS	0.34+-0.07	13.1+-1.5	6 272 273 278 294 301 409 415	
				ACT	4+-1	275+-75	6 243 272 273 289 295 296 409 415 441	634 (1)
				ABS	4.34+-1.00	288.1+-75.0	273 278 409 415 438	
249	*64M	11300Y		ACT	1.6+-0.8			
97-BK-249	*311D	3.22H		FISS	3	5	272 273 409 415	
				ACT	1300+-3	1170+-80	243 272 273 409 434	890 (2) 929 (1) 989 (45) 1029 (5) 1032 (36)
				ABS	1303+-300	1175+-80	6 273 276 278 409	
250	*3.22H	57M		FISS	960+-150			
98-CF-249	*350.6Y	13.1Y		FISS	1676+-51	2157+-70	6 243 273 278 293 294 298 301 409 434	
				ACT	492+-28	743+-65	6 243 273 278 386 409 434	
				ABS	2168+-58	2900+-96	243 273 278 409	
250	*13.1Y	900Y		FISS	350	85	272 273 409 415	
				ACT	2030+-200	11600+-500	243 272 273 386 409 415 441	177 (18) 227 (6) 285 (1)
				ABS	2380+-200	11685+-500	6 273 276 278 409 415	
251	*900Y	2.63Y		FISS	4300+-300	5400+-1500	6 243 272 273 276 278 409 415	
				ACT	2850+-150	1600+-30	6 243 272 273 276 278 386 409 415	
				ABS	7150+-350	7000+-1500	243 273 276 278 409 415	
252	*2.63Y	17.8D		FISS	32+-4	110+-30	6 243 272 273 278 297 409 415	
				ACT	20.4+-1.5	43.5+-3.0	6 243 272 273 278 305 409 415	
				ABS	52.4+-4.3	153.5+-30.1	243 273 276 278 299 303 409 415	

TARGET NUCLIDE Z-SYMBOL-A	TARGET NUCLIDE ABUND. % OR HALF-LIFE	A+1 NUCLIDE HALF-LIFE	A+1 NUCLIDE ISOMER. STATE . IT %	TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)

TARGET NUCLIDE	A+1 NUCLIDE			TYPE OF REACTION	THERMAL CROSS SECTIONS (BARNS) AND G(T) FACTOR	RESONANCE INTEGRALS (BARNS)	RESONANCE INTEGRALS REFERENCES	MAIN GAMMA-RAYS FOR A+1 NUCLIDE ENERGY-KEV (ABSOLUTE INTENSITY %)
Z-SYMBOL-A	ABUND. % OR HALF-LIFE	HALF-LIFE	ISOMER. STATE IT %					
253	*17.8D	60.5D		FISS	1300+-240	2117	272 273 278 415	
				ACT	17.6+-1.8	13	272 273 278	
				ABS	1317.6+-240.0	2130	273 278	
254	*60.5D			FISS	2	28	272	
				ACT	88+-30	1650	272	
				ABS	90+-30	1678	278	
99-ES-253	*20.47D	39.3H	M IT=0	ACT	155+-20	3009+-168	6 256	71 177 212 649 694 (13) (17) (29) (29) (25)
		276D	G	ACT	3	4299+-218	6 256	63 (2)
			M+G	FISS	0.0	0.0	273	
				ACT	158+-20	7308+-275	256	
254M	*39.3H	39D		FISS	1840+-80	1000	256	
				ACT	1.3			
				ABS	1841.3			
G	*276D			FISS	2830+-130	2200+-90	6 300	
				ACT	40			
				ABS	2870+-130			
255	*39D			ACT	43+-10			
100-FM-254	*3.24H	20.1H		ACT	76			81 (1)
255	*20.1H	2.63H		FISS	3400+-170			
				ACT	26+-3			
				ABS	3426+-170			
256	*2.63H	100.5D		ACT	45			62 179 241 (1) (9) (10)
257	*100.5D	0.38MS		FISS	2950+-160			
				ACT	3150			
				ABS	6100+-600	5000	401	

100-FM

1. E.M.GRYNTAKIS,J.I.KIM,J.RADIOANAL.CHEM.,76(1983)341.
2. A.AHMAD,ANN.NUCL.ENERGY,10(1983)41.
3. M.K.DRAKE,NUCLEONICS,24(1966)NO.8,108.
4. H.ALBINSON,IAEA,TECHNICAL REPORTS SERIES NO.156,VIENNA,1974 P.15.
5. P.RIBON,J.KREPS,73 BOLOGNA,REVIEW PAPER NO.10(1973) OR IAEA-169, FISSION PRODUCT NUCLEAR DATA,1(1974)235.
6. *NEUTRON CROSS SECTIONS*,BNL-325,3RD ED.,VOL.1, 1973,AND VOL.1PART A,1981.
7. CINDA 79,IAEA,VIENNA,1979.
8. M.BRESESTI,A.M.BRESESTI DEL TURCO,H.NEUMANN,E.ORVINI,J.INORG.NUCL. CHEM.,26(1964)1625.
9. M.F.ELGART,THESIS,CITY UNIV.OF NEW YORK,1971,UNIV.MICROFILMS ORDER NO.72-988,DA/B32.3245,1971.
10. S.P.HARRIS,C.O.MUEHLHAUSE,G.E.THOMAS,PHYS.REV.,79(1950)11.
11. R.L.MACKLIN,H.S.POMERANCE,PROC.CONF.PEACEFUL USES OF ATOMIC ENERGY, GENEVA,5(1956)96.
12. P.E.SPIVAK,B.G.EROZOLIMSKY,V.I.LAVERENCHIK,PROC.CONF.PEACEFUL USES OF ATOMIC ENERGY,GENEVA,5(1956)91.
13. V.B.KLIMENTOV,V.M.GRIAZEV,J.NUCL.ENERGY,9(1959)20,TRANSL. FROM AT. ENERG. (USSR)3(1957)507.
14. R.B.TATTERSALL,H.ROSE,S.K.PATTENDEN,D.JOWITT,J.NUCL.ENERGY,12(1960)32
15. E.A.NEPHEW,REP.ORNL-2869,REACTORS-POWER TID-4500(15TH ED.),1960.
16. N.J.PATTENDEN,NUCL.SCI.ENG.,17(1963)371.
17. YU.A.PROKHOROV,INDSWG-64,1964,P.75.
18. OFFICE OF ATOMIC ENERGY FOR PEACE,BANGKOK, CERTAIN ACCOUNTS ON THE UTILIZATION OF THE THAI RESEARCH REACTOR,BANGKOK CONF.REP. THAI-AEC-10,1967.
19. M.A.PALMUCCI,COMITATO NATIONALE ENERGIA NUCLEARE,RT/FI(67)4,ROMA,1967
20. M.D.RICABARRA,R.TURJANSKI,G.H.RICABARRA,C.B.BIGHAM,CAN J.PHYS.,46 (1968)2473.
21. D.BRUNE,RADIOCHIM.ACTA,12(1969)119.
22. L.BREITENHUBER,H.HEIMER,M.PINTER,ATOMKERNENERGIE,15(1970)83 (SEE ALSO EANDC(OR)-68,1968,P.10).
23. T.B.RYVES,J.NUCL.ENERGY,24(1970)35.
24. R.E.SCHENTER, PRIVATE COMMUNICATIONS TO NEA/DATA BANK, CALCULATIONS FROM ENDF/B-IV LIBRARY,HANFORD ENG. DEVELOPMENT LABORATORY, RICHLAND,WASH.USA,1975.
25. W.H.WALKER,AECL-3037,PART I,1972.
26. E.CLAYTON,AUSTRALIAN AEC.REP.AAEC/TM619(1972).
27. H.H.SAKATA,S.NAGAYAMA,JAP.ATOMIC ENERGY RESEARCH,TOKAI,UNPUBLISHED (SEE REF.5).
28. G.LAUTENBACH,REP.RCN-191,1973.
29. R.VAN DER LINDEN,F. DE CORTE,J.HOSTE,J.RADIOANAL.CHEM.,20(1974)695 (SEE ALSO 73PARIS,IAEA,2(1973)241.
30. T.A.EASTWOOD,A.P.BAERG,C.B.BIGHAM,F.BORWN,M.J.CABELL,W.E.GRUMMITT, J.C.ROY,L.P.ROY,R.P.SCHUMAN,2ND PROC.CONF.PEACEFUL USES OF ATOMIC ENERGY,IAEA,GENEVA,16(1958)54.
31. J.C.ROY,D.WUSCHE,CAN.J.CHEM.,36(1958)1424.
32. T.R.ENGLAND,WAPD-TM-333,1965.
33. J.HALPERIN,R.E.DURSCHEL,ORNL-3488,1963,P.15.
34. A.L.POPE,AEEW-M-1266,1974(SEE ALSO AEEW-M-1234,1973 AND AEEW-M-1191, 1973).
35. T.A.EASTWOOD,F.BROWN,EANDC(CAN),16(1963)6.
36. M.BRESESTI,F.CAPPELANI,A.M.DEL TURCO,E.ORVINI,J.INORG.NUCL.CHEM.,26 (1964)9.
37. M.BRESESTI,F.CAPPELANI,A.M.DEL TURCO,H.NEUMANN,E.ORVINI,J.INORG.NUCL. CHEM.,27(1965)1175.

38. O.J.EDER,M.LAMMER,NUCLEAR DATA IN SCIENCE AND TECHNOLOGY,IAEA,73PARIS 1,1973,P.233.

38. O.J.EDER,M.LAMMER,NUCLEAR DATA IN SCIENCE AND TECHNOLOGY,IAEA,73PARIS 1,1973,P.233.
39. E.S.STIPPEL,ORNL-TR-1365,1965.
40. J.D.GARRISON,B.W.ROOS,NUCL.SCI.ENG.,12(1962)115.
41. H.ROSE,W.A.COOPER,R.B.TATTERSALL,2ND PROC.CONF.PEACEFUL USES OF ATOMIC ENERGY,IAEA,GENEVA,1(1958)16.
42. A.P.BAERG,R.M.BARTHOLOMEW,CAN.J.CHEM.,38(1960)2528.
43. F.BROWN,P.J.CAMPION,B.H.OLIVER,J.NUCL.ENERGY,13A(1961)141.
44. R.VIDAL,E.CARDOSO-MARTINHO,CEA-R-2840,1965 (SEE ALSO CEA-R-2486, 1964 AND REF.45).
45. J.C.CARRE,R.VIDAL,NUCLEAR DATA FOR REACTORS,IAEA,66PARIS,1(1966)479 (SEE ALSO REF.44,68).
46. G.H.E.SIMS,D.G.JUHNKE,J.INORG.NUCL.CHEM.,30(1968)349.
47. E.STEINNES,J.INORG.NUCL.CHEM.,34(1972)2699.
48. A.ALIAN,H.-J.BORN,J.I.KIM,J.RADIONAL.CHEM.,15(1973)535.
49. A.P.BAERG,F.BROWN,M.LOUNSBURY,CAN.J.PHYS.,36(1958)863.
50. H.M.EILAND,F.B.FEHR,E.C.HANSEN,J.L.MEWHERTER,KAPL-2000-11,III-30,1960
51. J.HALPERIN,J.S.ELDRIDGE,H.A.O'BRIEN,JR.,R.E.DRUSCHEL,ORNL-4164,1,1967
52. V.A.KONKS,YU.P.POPOV,F.L.SHAPIRO,J.EXPERIM.THEORET.PHYS.,46(1964)80.
53. J.W.ROGERS,J.J.SCOVILLE,TRANS.AM.NUCL.SOC.,10(1967)259(SEE ALSO REF. 55).
54. H.SHWE,R.E.COTE,W.V.PRESTWICH,PHYS.REV.,159(1967)1050.
55. J.J.SCOVILLE,J.W.ROGERS,IN-1195,1968 (SEE ALSO REF.53).
56. H.A.O'BRIEN,JR.,J.S.ELDRIDGE,R.E.DRUSCHEL,J.HALPERIN,J.INORG.NUCL. CHEM.,29(1967)584.
57. T.B.RYVES,J.NUCL.ENERGY,25(1971)129(SEE ALSO REF.304).
58. F.DE CORTE,A.SPEECKE,J.HOSTE,J.RADIOANAL.CHEM.,9(1971)9.
59. E.STEINNES,J.INORG.NUCL.CHEM.,37(1975)1591.
60. E.ORVINI,G.GAGGERO,L.LESCA,A.M.BRESESTI,M.BRESESTI,J.INORG.NUCL. CHEM.,30(1968)1353.
61. P.M.LANTZ,C.R.BALDOCK,L.E.IDON,NUCL.SCI.ENG.,20(1964)302(SEE ALSO TRANS.AM.NUCL.SOC.,6(1963)44).
62. J.ALSTAD,T.JAHNSEN,A.C.PAPPAS,J.INORG.NUCL.CHEM.,29(1967)2155(SEE ALSO INDC(NOR)-1/G,1972,P.1).
63. P.M.LANTZ,NUCL.SCI .ENG.,13(1962)289.
64. J.C.ROY,L.P.ROY,CAN.J.PHYS.,37(1959)907.
65. J.I.KIM,E.M.GRYNTAKIS,RADIOCHIM.ACTA,17(1972)191.
66. M.D.RICABARRA,R.TURJANSKI,G.H.RICABARRA,CAN.J.PHYS.,51(1973)1454.
67. C.P.RUITZ,J.P.PETERSON,JR.,B.F.RIDER,TRANS.AM.NUCL.SOC.,7(1964)270.
68. R.VIDAL,EANDC(E)-57,1965,P.170(SEE ALSO EANDC(E)-57,1965,P.171 AND REF.45).
69. R.P.SCHUMAN,J.R.BERRETH,NUCL.SCI.ENG.,12(1962)519.
70. N.C.FENNER,R.S.LARGE,J.INORG.NUCL.CHEM.,29(1967)2147(SEE ALSO EANDC(UK)-75-5,1966).
71. M.J.CABELL,J.INORG.NUCL.CHEM.,32(1970)3433.
72. J.E.CODDING,JR.,R.L.TROMP,F.B.SIMPSON,NUCL.SCI.ENG.,43(1971)58.
73. G.J.KIROUAC,H.M.EILAND,C.A.CONRAD,R.E.SLOVACEK,K.W.SEEMAN,NUCL.SIC. ENG.,52(1973)310.
74. H.M.EILAND,S.WEINSTEIN,K.W.SEEMAN,NEUTRON CROSS SECTION AND TECHNO., PROC.OF THE 3RD CONF.(CONF-710301)OF UNIV.OF TENESSEE,KNOXVILLE,1971, P.673.
75. R.DOBROZEMSKY,F.PICHLMAYER,F.P.VIEHBOECK,INTERN.J.MASS SPECTROM.ION PHYS.,6(1971)435(SEE ALSO REF.100).
76. K.L.AITKIN,F.W.CORNISH,J.INORG.NUCL.CHEM.,17(1961)6.
77. J.HALPERIN,R.E.DRUSCHEL,C.R.BALDOCK,TRANS.AM.NUCL.SOC.,5(1962)376.
78. S.F.MUGHABGHAB,R.E.CHRIEN,PHYS.REV.,180(1969)1131.

79. W.H.WALKER,R.E.GREEN,CAN.J.PHYS.,39(1961)1184.
80. R.E.CHRIEN,CAN.J.PHYS.,39(1961)1193.
81. M.S.CABELL,J.INORG.NUCL.CHEM.,24(1962)749.
82. F.J.RAHN,C.HO,TRANS.AM.NUCL.SOC.,12(1969)749.
83. F.J.RAHN,H.S.CAMARDA,G.HACKEN,W.W.HAVENS,JR.,H.I.LIOU,J.RAINWATER, M.SLAGOWITZ,S.WYNCHANK,NUCL.SCI.ENG.,49(1972)219.
84. G.H.E.SIMS,O.G.JUHNKE,J.INORG.NUCL.CHEM.,29(1967)2671.
85. J.I.KIM,E.M.GRYNTAKIS,H.-J.BORN,RADIOCHIM.ACTA,22(1975)20.
86. P.P.DAMLE,A.FABRY,H.VAN DEN BROECK,BLG-421,CEN-SCK,MOL(1967).
87. F.V.ORESTANO,F.PISTELLA,NUCL.SCI.ENG.,37(1969)478.
88. A.GIBELLO,F.V.ORESTANO,F.PISTELLA,E.SANTANDREA,NUCL.SCI.ENG.,40 (1970)51.
89. S.J.FRIESENHAHN,M.P.FRICKE,D.G.COSTELLO,W.M.LOPEZ,D.CARLSON,NUCL. PHYS.,A146(1970)337.
90. P.M.LANTZ,C.R.BALDOCK,L.E.IDOM,ORNL-3832,1965,P.7.
91. J.J.SCOVILLE,J.W.ROGERS,TRANS.AM.NUCL.SOC.,8(1965)290.
92. G.H.RICABARRA,R.TURJANSKI,M.D.RICABARRA,CN-26/1,1970(THE SAME AS 70 HELS,2(1970)589).
93. J.J.SCOVILLE,D.W.KNIGHT,E.FAST,TRANS.AM.NUCL.SOC.,5(1962)377.
94. J.J.SCOVILLE,E.FAST,D.W.KNIGHT,NUCL.SCI.ENG.,18(1964)400.
95. J.J.SCOVILLE,E.FAST,J.W.ROGERS,NUCL.SCI.ENG.,25(1966)12.
96. G.HUETTEL,KERNENERGIE,14(1971)73.
97. J.ALSTAD,A.C.PAPPAS,T.SYVERSEN,INDC(NOR)-1/G,1972,P.2.
98. W.L.ZIJP,NUCLEAR DATA IN SCIENCE AND TECHN.,IAEA,VIENNA,2(1973)271.
99. O.GLOMSET,A.C.PAPPAS,INDC(NOR)-1/G,1972,P.3.
100. R.DOBROZEMSKY,F.PICHLMAYER,F.P.VIEHBOECK,SGAE-PH-104,1971(SEE ALSO REF.75 AND ALSO EANDC(OR)-68,1968,P.11).
101. H.LIOU,F.RAHN,C.HO,J.RAINWATER,W.W.HAVENS,JR.,TRANS AM.NUCL.SOC.,13 (1970)300.
102. G.H.E.SIMS,D.G.JUHNKE,J.INORG.NUCL.CHEM.,32(1970)2839.
103. S.F.MUGHABGHAB,R.E.CHRIEN,PHYS.REV.,174(1968)1400.
104. J.W.ROGERS,J.J.SCOVILLE,NUCL.SCI.ENG.,33(1968)350.
105. J.T.REYNOLDS,C.R.LUBITZ,I.ITKIN,D.R.HARRIS,KAPL-3327(ENDF-112),1967.
106. R.H.FULMER,L.J.ESCH,F.FEINER,T.F.RUANE,WASH 68 E20,1968.
107. M.DEMMELER,R.HECKER,H.IONAS,K.KLEINSCHNITTGER,D.V.S.RAMAKRISHNA, ATOMWIRTSCHAFT,16(1971)532.
108. H.JONAS,R.HECHER,W.GIESSER,ATOMKERNENERGIE,25(1975)271.
109. M.D.RICABARRA,R.TURJANSKI,G.H.RICABARRA,CAN.J.PHYS.,47(1969)2031.
110. G.E.STOKES,R.P.SCHUMAN,O.D.SIMPSON,NUCL.SCI.ENG.,33(1968)16(SEE ALSO TRANS.AM.NUCL.SOC.,6(1963)41).
111. S.LATEK,J.TOPA,NUKLEONIKA,13(1968)881.
112. L.LESAGE,R.SHER,REACTOR PHYSICS IN THE RESONANCE AND THERMAL REGIONS, PROC.ANSMATH.TOP.MEET.SAN DIEGO,CALIF.,2(1966)175.
113. R.P.SCHUMAN,J.R.BERRETH,IN-1296,1969.
114. E.H.OTTEWITTE,J.M.OTTER,P.F.ROSE,C.L.DUNFORD,AI-AEC-12990,1971.
115. ARGONNE NATIONAL LAB.,ANL-6580,1962,P.32.
116. E.FAST,J.J.SCOVILLE,IDO-16781,1962,P.2.
117. S.P.KAPCHIGASHEV,YU.P.POPOV,AT.ENERG.(USSR),15(1963)120.
118. G.JOANOU,C.STEVENS,GA-5885,1964.
119. P.W.DE LANGE,C.B.BIGHAM,NUCL.APPL.,4(1968)190.
120. H.HEIMEL,M.HEINDLER,ATOMKERNENERGIE,20(1972)135.
121. C.R.PIERCE,D.F.SHOOK,NUCL.SCI.ENG.,31(1968)431.
122. C.M.JACKS,DP-608,1961.
123. J.W.CONNOLLY,A.ROSE,T.WALL,AAEC/TM 191,1963.
124. N.P.BAUMANN,DP-817,1963.
125. M.BRESESTI,A.M.BRESESTI-DEL TURCO,A.ROTA,AERE-R-4500,PART III,1964,

P.221.
126. J.H.GILLETTE,ORNL-4013,1965,P.5.
127. L.BELLER,D.LATHAM,J.OTTER,NORTH AMERICAN ARIATION,INC.,NAA-SR-12500, 1967.
128. G.BORCHARDT,JUL-503-RX,1967.
129. T.WALL,AAEC/TM466,1968.
130. R.A.KARAM,T.F.PARKINSON,66WASH,1966,P.171.
131. R.SHER,L.LESAGE,T.J.CONNOLLY,H.L.BORWN,TRANS.AM.NUCL.SOC.,9(1966)248.
132. D.F.SHOOK,C.R.PIERCE,TRANS.AM.NUCL.SOC.,10(1967)261.
133. H.L.BROWN,JR.,T.J.CONNOLLY,W.K.FOELL,TRANS.AM.NUCL.SOC.,5(1962)375.
134. H.L.BROWN,DISSERTATION ABSTRACTS SECTION B,27(1966)1244.
135. G.J.KIROUAC,H.M.EILAND,PHYS.REV.C,11(1975)895.
136. J.H.GILLETTE,ORNL-4155,1967.
137. S.J.FRIESENHAHN,D.A.GIBBS,E.HADDAD,F.FROEHNER,W.M.LOPEZ,J.NUCL. ENERGY,22(1968)191.
138. C.R.PIERCE,D.F.SHOOK,D.BOGART,NASA-TN5628,1970.
139. V.MARKOVIC,A.KOCIC,BULL.BORIS KINDRIC INST.NUCL.SCI.NUCL.ENG., 22(1971)1.
140. R.E.COTE BULL.AM PHYS.SOC.,6(1961)417.
141. C.R.PIERCE,NASA/D-4938,1968.
142. R.SHER,PERSONAL COMMUNICATION CITED IN NEA/DATA BANK INTERNAL FILE(SEE ALSO "KEY TO NOTES" NO.16).
143. P.P.DAMLE,A.FABRY,R.JACQUEMIN,EANDC(E)-76,1967,P.107.
144. G.WOLF,NUKLEONIK,2(1960)255.
145. T.B.RYVES,K.J.ZIEBA,J.PHYS.A,7(1974)2318.
146. J.I.KIM,F.ADAMS,RADIOCHIM.ACTA,9(1968)61.
147. W.KOEHLER,E.SCHNEIDER,NUKLEONIK,12(1969)197(SEE ALSO REF.148).
148. E.SCHNEIDER,EANDC(E)89,1968,P.43.
149. K.JIRLOW,E.JOHANSSON,J.NUCL.ENERGY,PART A,11(1960)101.
150. R.A.BENNETT,NUCLEAR PHYSICS RESEARCH QUARTERLY REP.,HW-63576, 1960,P.26.
151. M.BROSE,DISSERTATION TECHNISCHE HOCHSCHULE KARLSRUHE,1960(SEE ALSO NUKLEONIK,6(1964)134).
152. G.BEN-DAVID,B.HUEBSCHMANN,J.NUCL.ENERGY,PARTS A/B,16(1962)291.
153. E.JOHANSSON,DISS.CHALMERS TEKN.HOGSKOLA,GOTEBORG,1966.
154. R.L.SIMONS,W.N.MC ELROY,BNWL-1312(UC-34)1970.
155. J.I.KIM,F.ADAMS,RADIOCHIM.ACTA,8(1967)165.
156. D.BRUNE,K.JIRLOW,J.NUCL.ENERGY,17(1963)350.
157. V.A.KONKS,F.L.SHAPIRO,SOV.PHYS.,JETP,20(1965)531.
158. J.HALPERIN,J.H.OLIVER,ORNL-3320,1962,P.2.
159. M.J.CABELL,CAN.J.CHEM.,37(1959)1094.
160. M.MONSECOUR,P.DE REGGE,J.INORG.NUCL.CHEM.,37(1975)1841.
161. R.W.ATTREE,M.J.CABELL,R.L.CUSHING,J.J.PIERONI,CAN.J.PHYS.,40(1962)194
162. R.E.COTE,H.DIAMOND,J.E.GINDLER,H.L.A.SHWE,PHYS.REV.,176(1968)1421.
163. S.M.KALEBIN,P.N.PALEJ,P.N.IVANOV,Z.K.KARALOVA,G.M.KUKAVADZE, Z.I.PYZHOVA,G.V.RUKOLAJNE,66DUBNA,ACC-61/18,1968,P.18(SEE ALSO ATOM-NAYA ENERGIYA,26(1969)507 AND SOVIET ATOMIC ENERGY,26(1969)582).
164. J.R.DEEN,E.LINN DRAPER,JR.,J.J.CHROMIK,TRANS.AM.NUCL.SOC.,16(1973)316
165. G.G.MYASISCHEVA,M.P.ANIKINA,L.L.GOLD'DIN,B.V.ERSHLER,AT.ENERG.(USSR), 2(1957)22(TRANSL.IN SOVIET ATOMIC ENERGY,5(1957)230).
166. F.J.JOHSTON,J.HALPERIN,R.W.STOUGHTON,H.NUCL.ENERGY,11(1960)95.
167. L.I.TIREN,J.M.JENKINS,UK AEE REPORT AEEW-R,1962,P.163.
168. J.B.SAMSON,GA-3069,1962.
169. J.HARDY,NUCL.SCI.ENG.,22(1965)121.
170. M.BROSE,NUCL.SCI.ENG.,19(1964)244.
171. N.M.STEEN,WAPD-TM-971,1970.

172. W.K.FOELL,T.J.CONNOLLY,NUCL.SCI.ENG.,21(1965)406.
173. M.ASGHAR,C.M.CHAFFEY,M.C.MOXON,N.J.PATTENDEN,E.R.RAE,C.A.UTTLEY,NUCL. PHYS.76(1966)196.
174. M.R.BHAT,R.E.CHRIEN,PHYS.REV.,155(1967)1362.
175. R.R.SMITH,T.O.PASSEL,S.D.REEDER,N.P.ALLEY,R.L.HEATH,IDO-16226,1955.
176. H.DERRIEN,NEANDC(E)163U,1975,P.73.
177. YU.YA.KONAKHOVICH,M.I.PEVZNER,AT.ENERG.(USSR),8(1960)47(TRANSL.IN SOVIET ATOMIC ENERGY,8(1961)39).
178. M.J.CABELL,CAN.J.PHYS.,36(1958)989.
179. E.M.GRYNTAKIS,J.I.KIM,J.INORG.NUCL.CHEM.,36(1974)1447 (SEE ALSO REF. 180).
180. E.M.GRYNTAKIS,THESIS,TECHNICAL UNIVERSITY OF MUNICH,DM-6909,1976 (SEE ALSO REF. 179).
181. F.B.SIMPSON,W.H.BURGOS,J.E.EVANS,H.W.KIRBY,NUCL.SCI.ENG.,12(1962)243.
182. M.K.DRAKE,P.F.NICHOLS,GA-7462,1967.
183. B.M.ALEKSANDROV,M.A.BAK,A.S.KRIVOKHATSKII,E.A.SHLYAMIN,SOVIET ATOMIC ENERGY,32(1972)203.
184. T.A.EASTWOOD,R.W.WERNER,CAN.J.PHYS.,38(1960)751.
185. J.HALPERIN,R.E.DRUSCHEL,R.W.STOUGHTON,A.E.CAMERON,R.L.WALKER, ORNL-3320,1962,P.2.
186. J.C.CONNOR,R.T.BAYARD,D.MAC DONALD,S.B.GUNST,NUCL.SCI.ENG.,29(1967) 408.
187. F.B.SIMPSON,J.W.CODDING,JR.,NUCL.SCI.ENG.,28(1967)133.
188. J.HALPERIN,C.R.BALDOCK,J.H.OLIVER,NUCL.SCI.ENG.,21(1965)257(SEE ALSO REF.275).
189. M.S.MOORE,L.G.MILLER,O.D.SIMPSON,PHYS.REV.,118(1960)714.
190. J.HALPERIN,F.J.JOHNSTON,R.W.STOUGHTON,J.H.OLIVER,E.L.BLEVINS, R.E.DRUSCHEL,A.L.HARKNESS,B.A.SWARZ,NUCL.SCI.ENG.,16(1963)245.
191. C.B.BIGHAM,AECL-1910,1964 (SEE ALSO CRRP-1183,1964).
192. L.J.ESCH,F.FEINER,TRANS.AM.NUCL.SOC.,7(1964)272.
193. F.FEINER,L.J.ESCH,66 SAN DIEGO,2(1966)299.
194. T.YASUNO,NUCL.SCI.TECHN.,2(1965)532.
195. N.L.SNIDOW,ADVANCED PRODUCTS ENG.DEPART.,BAW-393-5,1966.
196. O.E.CONWAY,S.B.GUNST,NUCL.SCI.ENG.,29(1967)1.
197. H.H.HENNIES,66PARIS II,IAEA,1967,P.333.
198. M.J.CABELL,66 PARIS II,IAEA,1967,P.3.
199. J.HARDY,JR.,NUCL.SCI.ENG.,27(1967)135.
200. L.W.WESTON,R.GWIN,G.DE SAUSSURE,R.R.FULLWOOD,R.W.HOCKENBURY,NUCL.SCI. ENG.,34(1968)1(SEE ALSO TRANS.AM.NUCL.SOC.,10(1967)220).
201. M.G.CAO,E.MIGNECO,J.P.THEOBALD,M.MERLA,J.NUCL.ENERGY,24(1970)111(SEE ALSO NUCL.DATA FOR REACTORS,VOL.I,IAEA-CN-26/19,1970,P.419.).
202. M.A.BAK,K.A.PETRZHAK,YU.G.PETROV,YU.F.ROMANOV,E.A.SHLYAMIN,AT.ENERG. (USSR),28(1970)359(TRANSL.IN SOVIET ATOMIC ENERGY,28(1970)460).
203. H.M.EILAND,L.S.ESCH,F.FEINER,J.L.MEWHERTER,NUCL.SCI.ENG.,44(1971)180.
204. A.OKAZAKI,M.LOUNSBURY,R.W.DURHAM,CHALK RIVER REP.,AECL-2148,1964.
205. E.CLAYTON,AECD-4167,1955.
206. C.G.CAMPBELL,R.G.FREEMANTLE,M.J.POOLE,PROC.2ND INTERN.CONF.PEACEFUL USES ATOMIC ENERGY,GENEVA,16(1958)233.
207. R.W.STOUGHTON,J.HALPERIN,NUCL.SCI.ENG.,6(1959)100.
208. J.HARDY,JR.,D.KLEIN,G.G.SMITH,NUCL.SCI.ENG.,9(1961)341.
209. G.H.HANNA,W.H.WALKER,EANDC(CAN)-20,1963.
210. K.PARKER,AWRE-O-82/63,1963.
211. G.JOANOU,GA-5944,1964.
212. R.G.FREEMANTLE,REP.AEEW-M-502,1965.
213. HELLSTRAND,NUCKLEONIK,8(1966)1(SEE ALSO AKTIEBOLAGET ATOMENERGI REPORTS,AE-181,1965).

214. G.DE SAUSSURE,L.W.WESTON,R.GWIN,R.W.INGLE,J.H.TODD,NUCLEAR DATA FOR REACTORS (PROC.CONF.PARIS,1966),IAEA,2(1966)233.

214. G.DE SAUSSURE,L.W.WESTON,R.GWIN,R.W.INGLE,J.H.TODD,NUCLEAR DATA FOR REACTORS,(PROC.CONF.PARIS,1966),IAEA,2(1966)233.
215. A.J.DERUYTTER,C.WAGEMANS,68WASH,1(1968)475.
216. UY.V.RYABOV,SO DON-SIK,N.CHIKOV,N.YANEVA,AT.ENERG.(USSR),24(1968)351 (TRANSL.IN SOVIET ATOMIC ENERGY,24(1968)435).
217. E.M.PAGE,K.L.MAHNA,NEUTRON CROSS SECTIONS AND TECHNOLOGY,PROC.OF THE 3RD CONF.(CONF-710301) OF UNIV.OF TENNESSEE,KNOXVILLE,1971,P.469.
218. J.GADO,CENTRAL RESEARCH INSTITUT FOR PHYSICS,BUDAPEST,REP.KFKI-74-45, 1974.
219. G.K.UNDERHILL,DISSERTATION ABSTRACTS SECTION B,34(1974)6026.
220. C.WAGEMANS,A.J.DERUYTTER,PERSONNAL COMMUNICATION CITED IN NEA DB FILE (SEE "KEY TO NOTES",NR.16).1976.
221. R.W.JONES,EAN(CAN)13/4,1962.
222. I.H.CROCKER,EAN(CAN)17/4,1963.
223. R.W.DURHAM,G.C.HANNA,M.LOUNSBURY,C.B.BIGHAM,R.G.HART,R.W.JONES, 66PARIS II,IAEA,1967,P.17.
224. I.V.GORDEEV,V.V.PUPKO,PROC.2ND INTERN.CONF.PEACEFUL USES OF ATOMIC ENERGY,IAEA,GENEVA,16(1958)141.
225. E.J.HENNELLY,W.R.CORNMAN,N.P.BAUMANN,68WASH-1271,1968.
226. B.HINKELMANN,2ND INTERN.CONF.ON NUCLEAR DATA,HELSINKI,CN-26/15,1970.
227. V.E.PILCHER,D.J.HUGHES,J.A.HARVEY,BULL AM.PHYS.SOC.,1(1956)187.
228. S.PEARLSTEIN,CONFERENCE ON NEUTRON CROSS SECTION TECHNOLOGY, CONF-660303,BOOK 1,P.251,WASHINGTON 22-24 MARCH 1966.
229. J.HARVEY,R.SCHWARTZ,PROGRESS IN NUCL ENERGY,PHYS.AND MATH.,VOL.2 (PERGAMON PRESS,LONDON,1958)P.51.
230. M.J.CABELL,T.A.EASTWOOD,P.J.CAMPION,J.NUCL.ENERGY,7(1958)81.
231. J.HALPERIN,J.H.OLIVER,PROC.2ND INTERN.CONF.PEACEFUL USES ATOMIC ENERGY,IAEA GENEVA,16(1958)64.
232. J.R.BERRETH,R.P.SCHUMAN,WASH-1041,1962,P.37.
233. A.OKAZAKI,M.LOUNSBURY,R.W.DURHAM,I.H.CROCKER,AECL-1965,1964.
234. N.P.BAUMANN,J.D.HALFORD,D.J.PELLARIN,NUCL.SCI.ENG.,32(1968)265.
235. B.R.SEHGAL,TRANS.AM.NUCL.SOC.,6(1963)41.
236. A.D.CARLSON,S.J.FRIESENHAHN,W.M.LOPEZ,M.P.FRICKE,NUCL.PHYS.A,141 (1970)577.
237. H.L.ANDERSON,PHYS.REV.,80(1950)499.
238. J.A.HARVEY,D.J.HUGHES,R.S.CARTER,V.E.PILCHER,PHYS.REV.,99(1955)10.
239. R.L.MACKLIN,H.S.POMERANCE,J.NUCL.ENERGY,2(1956)243.
240. L.M.BOLLINGER,R.E.COTE,D.A.DAHLBERG,G.E.THOMAS,PHYS.REV.,105(1957)661
241. J.HARDY,JR.,G.G.SMITH,D.KLEIN,NUCL SCI.ENG.,14(1962)358.
242. J.W.WEBSTER,ORNL-TM-1448,1966.
243. S.H.EBERLE,H.J.BLEYL,H.BRAUN,A.V.BAECKMANN,L.KOCH,REPORT KFK-1453 (EUR-4726D),1972,P.1(SEE ALSO REF.280).
244. J.D.SPENCER,N.P.BAUMANN,TRANS.AM.NUCL.SOC.12(1969)284.
245. C.L.DUNFORD,H.ALTER,NAA-SR-12271,1967.
246. H.IHLE,H.MICHAEL,A.NEUBERT,A.J.F.BLAIR,P.DAMLE,M.V.BODNARESCU,J. INORG.NUCL.CHEM.,34(1972)2427.
247. L.P.ABAGYAN,A.G.DOVOJENKO,S.N.ZAKHAROVA,V.F.KAPUSTINA,M.N.NIKOLAEV, D.V.PETROVA,PROC.2ND SOVIET CONF.,73KIEV,1(1973)246.
248. J.P.BUTLER,M.LOUNSBURY,J.S.MERRIT,CAN.J.PHYS.,35(1957)147.
249. F.B.SIMPSON,R.P.SCHUMAN,TRANS.AM.NUCL.SOC.,6(1963)43.
250. T.E.YOUNG,F.B.SIMPSON,J.R.BERRETH,M.S.COOPS,NUCL.SCI.ENG.,30(1967)355
251. L.M.BOLLINGER,R.E.COTE,G.E.THOMAS,PROC 2ND INTERN.CONF.PEACEFUL USES ATOMIC ENERGY(PROC.CONF.GENEVA,1958),15(1958)127.
252. P.J.PERSIANI,J.J.KAGANOVE,A.E.MC ARTY,TID-18590,1963.
253. M.J.CABELL,M.WILKINS,J.INORG.NUCL.CHEM.,27(1965)2481.
254. J.J.SCHMIDT,KFK-120,1966.

255. L.G.PONCELET,ARGONNE CODE CENTER ABSTRACT 249,WCAP-6073,1966.
256. R.M.HARBOUR,K.W.MAC MURDO,J.INORG.NUCL.CHEM.,35(1973)1821.
257. T.YASUNO,NUCL.SCI.TECHN.,4(1967)43.
258. G.C.HANNA,C.H.WESTCOTT,H.D.LEMMEL,B.R.LEONARD,JR.,J.S.STORY, P.M.ATTREE,IAEA,ATOMIC ENERGY REV.,7(1969)3.
259. A.PRINCE,68WASH,2(1968)951(SEE ALSO REF.272).
260. J.I.KIM,R.BECK,E.M.GRYNTAKIS,R.ZAGHLOUL,NUCLEAR INSTRUMENTS AND METHODS,165(1979)565.
261. F.W.CORNISH,M.LOUNSBURY,CRC-633,1956.
262. M.W.DYOS,NUCL.SCI.ENG.,34(1968)181.
263. B.G.EROZOLYMSKY,I.E.KUTIKOV,Y.P.DOBRYNIN,M.I.PEVZNER,L.S.DANELYAN, S.S.MOSKALEV,J.NUCL.ENERGY,4(1957)86.
264. P.A.KRUPCHINSKY,J.NUCL.ENERGY,6(1957)155.
265. B.R.LEONARD,JR.,E.J.SEPPI,W.J.FRIESEN,NUCL.SCI.ENG.,5(1959)32.
266. W.H.WALKER,C.H.WESTCOTT,T.K.ALEXANDER,CAN.J.PHYS.,38(1960)57.
267. W.H.NICHOLS,NUCL.SCI.ENG.,17(1963)144(SEE ALSO TRANS.AM.NUCL.SOC..5 (1962)374).
268. M.K.DRAKE,GA-6576,1965.
269. J.L.COOK,A.L.WALL,AAEC/TM362,1966.
270. C.WAGEMANS,A.J.DERUYTTER,NUCL.SCI.ENG.,60(1976)44(SEE ALSO 75WASH,GB 17,1975).
271. D.S.CRAIG,C.H.WESTCOTT,CAN.J.PHYS.,42(1964)2384.
272. A.PRINCE,TRANS.AM.NUCL.SOC.,10(1967)228(SEE ALSO REF.259).
273. R.W.BENJAMIN,V.D.VANDERVELDE,T.C.GORELL,F.J.MC CROSSON,75WASH,1975, P.224.
274. R.E.COTE,L.M.BOLLINGER,R.F.BARNES,H.DIAMOND,PROC.2ND INTERN.CONF. PEACEFUL USES ATOMIC ENERGY,IAEA,GENEVA,16(1958)77.
275. J.HALPERIN,J.H.OLIVER,ORNL-2679,1964,P.13.
276. R.L.FOLGER,J.A.SMITH,L.C.BROWN,R.F.OVERMAN,H.P.HOLCOMB,68WASH,2(1968) 1279.
277. T.E.YOUNG,S.D.REEDER,NUCL.SCI.ENG.,40(1970)389.
278. B.C.RUSCHE,TRANS.AM.NUCL.SOC.,14(1971)344.
279. R.P.SCHUMAN,WASH-1136,1969,PAGES 51,53 AND 53(SEE ALSO REF.113, REF.288 AND IN-1317,1969).
280. S.H.EBERLE,KFK-1544,1972,P.62(SEE ALSO REF.243).
281. M.A.BAK,A.S.KRIVOKHATSKII,K.A.PETRZHAK,YU.G.PETROV,YU.F.ROMANOV, E.A.SHLYAMIN,AT.ENERG.(USSR),23(1967)316(TRANSL.IN SOVIET ATOMIC ENERGY,23(1967)1059).
282. R.M.HARBOUR,K.W.MAC MURDO,F.J.MC CROSSON,NUCL.SCI.ENG.,50(1973)364.
283. J.J.SCOVILLE,E.FAST,WASH-1053,1964,P.76.
284. S.T.PERKINS,G.F.AUCHAMPAUGH,R.W.HOFF,C.D.BOWMAN,NUCL.SCI.ENG.,32 (1968)131.
285. O.D.SIMPSON,F.B.SIMPSON,J.A.HARVEY,G.G.SLAUGHTER,R.W.BENJAMIN, C.E.AHLFELD,NUCL.SCI.ENG.,55(1974)273.
286. C.D.BOWMAN,G.F.AUCHAMPAUGH,S.C.FULTS,R.W.HOFF,PHYS.REV.,166(1968)1219
287. R.C.KIIKALA,W.L.PURCELL,J.R.WORDEN,66WASH,1(1966)75.
288. R.P.SCHUMAN,WASH-1124,1968,P.72(SEE ALSO REF.113,279).
289. M.C.THOMPSON,M.L.HYDER,R.J.REULAND,J.INORG.NUCL.CHEM.,33(1971)1553.
290. J.R.BERRETH,F.B.SIMPSON,B.C.RUSCHE,NUCL.SCI.ENG.,49(1972)145.
291. J.HALPERIN,R.E.RUSCHE,R.E.EBY,ORNL-4437,1969,P.20.
292. C.H.WESTCOTT,W.H.WALKER,TK.ALEXANDER,2ND INT.CONF.PEACEFUL USES OF ATOMIC ENERGY,IAEA,GENEVA,16(1958)70.
293. J.HALPERIN,J.H.OLIVER,R.W.STROUGHTON,ORNL-4581,1970,P.37.
294. R.W.BENJAMIN,K.M.MAC MURDO,J.D.SPENCER,NUCL.SCI.ENG.,47(1972)203(SEE ALSO 3RD CONF.NEUTRON CROSS SECTION AND TECHN.,KNOXVILLE,TENNESSEE CONF-710301,2(1971)843).

295. CHETHAM-STRODE,ORNL-3832,1965,P.1.
296. R.W.BENJAMIN,C.E.AHLFELD,BULL.AM.PHYS.SOC.,19(1974)599.
297. J.HALPERIN,J.H.OLIVER,R.W.STOUGHTON,ORNL-4706,1971.

295. CHETHAM-STRODE,ORNL-3832,1965,P.1.
296. R.W.BENJAMIN,C.E.AHLFELD,BULL.AM.PHYS.SOC.,19(1974)599.
297. J.HALPERIN,J.H.OLIVER,R.W.STOUGHTON,ORNL-4706,1971.
298. C.E.BEMIS,JR.,J.W.T.DABBS,G.D.JAMES,N.W.HILL,M.S.MOORE,A.N.ELLIS, ORNL-4976,1974,P.36.
299. M.S.MOORE,J.H.MC NALLY,R.D.BAYBARZ,PHYS.REV.C,4(1971)273.
300. K.W.MAC MURDO,R.M.HARBOUR,J.INORG.NUCL.CHEM.,34(1972)449.
301. K.D.ZHURAVLEV,N.I.KROSKIN,A.P.UJETVJERIKOV,AT.ENERG.(USSR),39(1975) 285.
302. D.GRENECHE,NEANDC(E)163U,1975,P.43.
303. B.GORDON,E.V.WEINSTOCK,WASH-1093,1968,P.28.
304. P.E.SPIVAK ET AL.,PROC.OF INTERN.CONF.ON PEACEFUL USES OF ATOMIC ENERGY,GENEVA,5(1956)172.
305. J.HALPERIN,C.E.BEMIS,R.E.DRUSCHEL,J.R.STOKELY,NUCL.SCI.ENG.,37(1969) 228.
306. J.A.SMITH,C.J.BANICK,R.L.FOLGER,H.P.H.P.HOLCOMB,I.B.RITCHER,68WASH,2 (1968)1285.
307. E.M.GRYNTAKIS,J.I.KIM,RADIOCHIMICA ACTA,22(1975)128.
308. IAEA,TECHNICAL REPORTS SERIES NO.107,VIENNA,1970.
309. N.P.BAUMANN, WASH-1046, P.49,1964.
310. C.M.LEDERER,V.S.SHIRLEY,TABLE OF ISOTOPES,SEVEN EDITION 1978, (ALSO 6TH ED.1967), WILEY-INTERSCIENCE PUBL.,NEW YORK.
311. W.BLASER,A.WYTTENBACH,P.BAERTSCHI,J.INORG.NUCL.CHEM.,33(1971)1221.
312. R.VAN DER LINDEN,F.DE CORTE,P.VAN DEN WINKEL,J.HOSTER,J.RADIONAL. CHEM.,11(1972)133.
313. R.A.BENNETT,NUCLEAR PHYSICS RESEARCH QUATERLY REP.,HW 68389(1961)50.
314. R.DAHLBERG,K.JIRLOU,E.JOHANSSON,J.NUCL.ENERGY,14(1961)53.
315. T.E.STEPHENSON,BNL961(T-401),1965.
316. G.H.SIMS,J.INORG.NUCL.CHEM.,29(1967)593.
317. G.H.E.SIMS,D.G.JUHNKE,J.INORG.NUCL.CHEM.,31(1969)3721.
318. N.T.KASHUKEEV,YU.P.POPOV,F.L.SHAPIRO,J.NUCL.ENERGY,PART.A/B, 14(1961)76.
319. R.L.D.FRENCH,B.BRADLEY,NUCL.PHYS.,65(1965)225.
320. W.KOHLER,H.SCHMELZ,NUKLEONIK,9(1967)270.
321. L.L.ANDERSON,HEALTH PHYS.,10(1964)315.
322. R.G.BARDES,R.K.LANGE,J.B.SAMPSON,L.J.TODT,REPORT GA 3069,1962.
323. K.W.GEIGER,L.VAN DER ZWAN,NUKEONIK,10(1967)277.
324. R.G.STIEGLITZ,R.W.HOCKENBURG,R.C.BLOCK,NUCL.PHYS.,A163(1971)592.
325. S.P.KAPCHIGASHEV,YU.P.POPOV,AT.ENERG.(USSR),16(1964)256.
326. W.E.LAMB,PHYS.REV.,55(1939)190.
327. T.B.RYVES,J.B.HUNT,I.W.GOODIER,J.NUCL.ENERGY,22(1968)465.
328. J.J.SCOVILLE ET AL.,WASH-1041,1962,P.37.
329. J.R.BERRETH,R.P.SCHUMAN,REPORT IDO-16827,1962,P.18.
330. F.FEINER,REP.KAPL 2000-16,1961.
331. E.J.AXTON,J.NUCL.ENERGY,17(1963)125.
332. R.C.BARRALL,W.N.MCELROY,IAEA,PROC.SYMP.VIENNA,1965,P.251.
333. P.LOUWRIER,A.ATEN,JR.,J.NUCL.ENERGY,PARTS A/B,19(1965)267.
334. R.O.BARDES,J.BROWN,M.DRAKE,J.SAMPSON,TRANS.AM.NUCL.SOC.,4(1961)276.
335. T.NANJYO,J.NUCL.SCI.TECHN.,7(1970)126.
336. O.O.MOXON,AERE-PR/NP14,1968,P.12.
337. F.FEINER,L.J.ESCH,REP.KAPL2000-12,1960.
338. T.A.EASTWOOD,R.D.WERNER,CAN.J.PHYS.,41(1963)1263.
339. E.M.GRYNTAKIS,J.I.KIM,J.RADIOANAL.CHEMISTRY,46(1978)159.
340. LESAGE,R.SHER,PROC.ANS NAT.TOP.MEET.SAN DIEGO,CALIF.,1966,P.4.
341. C.H.HOGG,L.D.WEBER,E.C.YATES,IDO-16744,1962.
342. I.A.KONDUROV,A.I.EGOROV,M.KAMINKEV,E.M.KOROTKIN,A.M.NIKITIN,AT.ENERG.

(USSR),24(1968)533.
343. J.S.STORY,REP.AEEW-M122,1961.
344. C.H.HOGG,L.D.WEBER,IN-1024,1966.
345. G.H.SIMS,D.G.JUHNKE,J.INORG.NUCL.CHEM.,29(1967)2853.
346. S.PEARLSTEIN,R.F.MILLIGAN,NUCL.SCI.ENG.,26(1966)281.
347. J.F.EMERY,J.INORG.NUCL.CHEM.,27(1965)903.
348. J.G.BRADLEY,W.H.JOHNSON,NUCL.SCI.ENG.,47(1972)151.
349. W.SKOLNIK,N.C.FRANCIS,TRANS.AM.NUCL.SOC.,2(1959)121.
350. R.H.FULMER,D.P.STRIKOS,T.F.RUANE,NUCL.SCI.ENG.,46(1971)314.
351. R.NILSSON,NUCLEAR PHYSICS,29(1962)66.
352. R.P.SCHUMAN,IDO-16760,1961,P.13.
353. R.E.DRUSCHEL,J.HALPERIN,ORNL-4306,1968,P.2.
354. E.HELLSTRAND,G.LUNDGREN,NUKLEONIK,4(1962)323.
355. H.SHWE,R.E.COTE,PHYS.REV.,179(1969)1148.
356. M.J.CABELL,J.INORG.NUCL.CHEM.,21(1961)1.
357. H.F.FEINER,TRANS.AM.NUCL.SOC.,2(1959)121.
358. M.J.CABELL,J.NUCL.ENERGY,PARTA,12(1960)172.
359. J.HALPERIN ET AL.,ORNL-3832,1965,P.4.
360. P.M.LANTZ,ORNL-3679,1964,P.10.
361. R.D.WERNER,T.A.EASTWOOD,NUCL.SCI.ENG.,21(1965)20.
362. W.H.WALKER,L.A.COPLEY,CAN.J.PHYS.,44(1966)1965.
363. V.MARKOVIC,A.KONIC,BULLETIN BORIS KIDRIC INST.NUCL.SCI.,NUCL.ENG.,
18(1967)11.
364. J.HALPERIN ET AL.,ORNL-3994,1966,P.2.
365. S.P.KAPCHIGASHEV,AT.ENERG.(USSR),19(1965)294.
366. J.J.SCOVILLE,E.FAST,T.F.PARKINSON,REACTOR PHYS.CONST.CENTER NEWS
LETTER NO.10,1965.
367. F.LUX,W.KOHLER,PROGRESS REPORT IN NUCLEAR DATA RESEARCH IN THE
EURATOM COMMUNITY,1964,EANDC(E)57"V",1965,P.28.
368. A.M.BRESESTI,M.BRESESTI,H.NEUMANN,J.INORG,NUCL.CHEM.,29(1967)2477.
369. H.H.KRAMER,W.H.WALL,NUCL.SCI.ENG.,22(1965)373
370. V.MAXIA,E.ORVINI,M.A.ROLLIER,NUCL.SCI.ENG.,35(1969)88.
371. F.DE CORTE,A.SPEECKE,J.HOSTE,J.RADIOANAL.CHEM.,3(1969)205.
372. J.HALPERIN,R.E.DRUSCHEL,ORNL-3679,1964,P.15.
373. D.A.KLOPP,W.F.ZAGOTTA,TRANS.AM.NUCL.SOC.,5(1962)337.
374. K.H.BECKURTS,M.BROSE,M.KNOCHE,G.GRUGER,W.PONITZ,H.SCHMIDT,NUCL.SCI.
ENG.,17(1963)329.
375. C.N.KLEBER,NUCLEONICS,20(1962)162.
376. E.K.SOKOLOWSKI,R.BLADH,REP.AE-351,1969.
377. A.P.JAIN,R.E.CHRIEN,J.A.MOORE,H.PALERSKY,NUCL.SCI.ENG.,17(1963)319.
378. I.E.DAYTON,W.G.PETTUS,NUCLEONICS,15(1957)86.
379. T.A.EASTWOOD,E.MATYAS,D.J.HNATOWICH,CAN.J.PHYS.,41(1963)1519.
380. H.D.LEMMEL,C.H.WESTCOTT,J.NUCL.ENERGY,21(1967)417.
381. L.J.ESCH,F.FEINER, TRANS.AM.NUCL.SOC., 7(1964)78.
382. R.G.HART,G.B.BIGHAM,F.C.MILLER,AECL-1503,1962.
383. R.E.COTE ET AL.,PHYS.REV.,159(1967)1050.
384. BNL/NNDC,PRIVATE COMMUNICATION TO NEA/DATA BANK, USA,1971.
385. J.C.CONNOR, WAPD-TM-837,1970.
386. J.HALPERIN,C.E.BEMIS,JR.,R.E.DRUSCHEL,R.E.EBY,ORNL-4706,1971,P.47.
387. H.M.EILAND,S.WEINSTEN,K.W.SEEMAN,NUC.SCI.ENG.,54(1974)286(SEE
ALSO REF.74).
388. A.F.FEDOROVA,J.I.PISANKO,G.M.NOVOSYELOV,REPORT KIVAI-76-6,1976,
INSTITUTE JADERNYKH ISSLEDOVANIJ,KIEV/USSR.
389. M.FRICKE,A.CARLSON,GULF-RI-A-10739,197.
390. C.E.BEMIS,JR,R.E.DRUSCHEL,J.HALPERIN,J.R.WALTON,NUC.SCI.ENG.,
47(1972)371.

391. W.BROWNE,B.L.BERMAN,PHYS.REV./C,8(1973)24 (SEE ALSO UCRL-74840,1973).
392. A.F.FEDOROVA,J.I.PISANKO,G.M.NOVOSYELOV,REPORT KIYAI-76-7,1976, INSTITUTE JADERNYKH ISSLEDOVANIJ,KIEV/USSR.
393. D.C.SANTRY,R.D.WERNER,CAN.J.PHYSICS,51(1973)2441.
394. G.F.AUCHAMPAUGH,J.HALPERIN,P.L.MACLIN,W.M.HOWARD,PHYS.REV./C, 12(1975)1126.
395. G.J.KIROUAC,H.M.EILAND,75WASH,2(1975)776.
396. M.F.ELGART,H.F.FINSTON,R.RUNDBERG,E.T.WILLIAMS,NUC.SCI.ENG., 58(1975)291 (SEE ALSO 75WASH,2(1975)792).
397. R.E.SLOVACEK,D.S.CRAMER,E.B.BEAN,R.W.HOCKENBURY,J.R.VALENTINE, R.C.BLOCK,NUC.SCI.ENG.,62(1977)455 (SEE ALSO BULL.AM.PHYS.SOC., 20(1975)581).
398. L.SAGE,A.K.FURR,TRANS.AMER.NUCL.SOC.,23(1976)501.
399. G.GLEASON,RADIOCHEMICAL AND RADIOANAL.LETTERS,23(1975)317.
400. W.GLEASON,PRIVATE COMMUNICATION TO NEA/DATA BANK,ORL,USA,1977.
401. C.E.BEMIS,JR,R.E.DRUSCHEL,J.HALPERIN,R.D.BAYBARZ,ORNL-4581,1970,P.43.
402. C.E.BEMIS,JR,J.H.OLIVER,R.EBY,J.HALPERIN,NUCL.SCI.ENG.,63(1977)413.
403. J.B.GARG,J.RAINWATER,W.W.HAVENS,JR,NUCL.SCI.ENG.,65(1978)76 (SEE ALSO CR-1860,1964).
404. G.GLEASON,RADIOCHEMICAL AND RADIOANAL.LETTERS,26(1976)39.
405. R.R.WINTERS,R.L.MACKLIN,J.HALPERIN,PHYS.REV.C,18(1978)2092.
406. R.SHER,68WASH,1(1968)253.
407. S.A.REYNONS,W.T.MULLINS,ORNL-4466,1970,P.74.
408. R.E.DRUSCHEL,J.HALPERIN,ORNL-3994,1966,P.6.
409. ENDL : TABULAR AND GRAPHICAL PRESENTATION OF 175 NEUTRON-GROUP CONSTANTS DERIVED FROM THE LLL EVALUATED-NUCLEAR DATA LIBRARY, E.E.PLECHATY,D.E.CULLEN,R.J.HOWERTON,J.R.KIMLINGER, REPORT UCRL-50400,VOL.16,REV.2, 1978.
410. P.LANTZ,C.BALDOCK,R.STOUGHTON,L.IDOM,ORNL-3994,1966,P.2.
411. D.BIDINOSTI,H.FICKEL,R.TOMLINSON,58GENEVA,15(1958)459.
412. E.FEHR,E.HANSEN,KAPL-2000-12,I,1960,P.33 (SEE ALSO KAPL-2000, 1,1960,P.30).
413. G.BREIT,E.WIGNER,J.PHYSICAL REVIEW 49(1936)519.
414. R.W.STOUGTON,J.HALPERIN,R.E.DRUSCHEL,F.J.JOHNSTON,P.M.LANTZ, J.H.OLIVER,G.W.PARKER,60VIENNA,1960,P.239.
415. BIPAL : A DATA LIBRARY FOR COMPUTING THE BURNUP OF FISSIONABLE ISOTOPES AND PRODUCTS OF THEIR DECAY, E.KRAZOVCOVA,J.HEP,V. VALENTA,REPORT ZJE-227(1978),NUCL.POWER CONSTRUCTION DIVISION, INFORMATION CENTRE,PIZEN,CZECHOSLOVAKIA.
416. R.A.KARAM,T.F.PARKINSON,M.F.PANCZYK,AD-402668,FLA,USA,1963.
417. M.J.CABELL,M.WILKINS,AERE-R-6384,1970.
418. W.SKOLNIK,N.C.FRANCIS,TRANS .AMER.NUCL.SOC.,2(1959)135.
419. N.P.BAUMANN,D.J.PELLARIN,TRANS.AMER.NUCL.SOC.,(1964)27.
420. H.T.MAGUIRE JR,H.M.FISHER,R.C.BLOCK,INT.CONF. ON NEUTRON PHYSICS AND NUCLEAR DATA FOR REACTORS AND OTHER APPLIED PURPOSES, AERE HARWELL, 25-29 SEPT.1978,PAGE 472.
421. R.A.DEAL,R.P.SCHUMAN,WASH-1053,1964,P.76.
422. R.P.SCHUMAN,IN-1126,MTR,USA,1967,P.19.
423. W.LYON,H.ROSS,ORNL-4196,1967,P.66.
424. M.LUCAS,R.HAGEMANN,R.NAUDET,C.RENSON,C.CHEVALIER, MEETING ON THE TECHN. COMMITTEE ON NATURAL FISSION REACTORS, PARIS 19-21 DEC.1977, 1(1979)431.
425. T.B.RYVES, NUCLEAR SCIENCE AND ENGINEERING, 72(1979)357.
426. J.OLSEN, RISO-M-1516,1972.
427. J.K.AALDIJK,H.M.M.KORSTJENS,W.L.ZIJP,RCN-176,1972.
428. H.MICHAEL,A.NEUBERT,R.WAGNER,A.J.BLAIR,NEANDC(E)-172U,176,P.43

429. W.MAENHAUT,F.ADAMS,J.HOSTE, J.RADIOANAL.CHEMISTRY,16(1973)39.
430. T.SEKINE,H.BABA, J.INORG.NUCL.CHEMISTRY,40(1978)1977.
431. A.KOCIC,V.MARKOVIC,BULL.INST.BORIS KIDRIC,VOL.18,NUC.ENG.,19(1968)13.
432. V.HAYODOM,W.BOONKONG,S.MAHAPANYAWONG,C.CHAIMONKON,BANGKOK,THAILAND, THAI-AEC-23 PROGRESS REPORT,1969.
433. E.ABUL-ELA,I.HAMOUDA,AREAEE-165,CAIRO,UAR,1973.
434. V.D.GAVRILOV,V.A.GONCHAROV,V.V.IVANENKO,V.P.SMIRNOV,V.N.KUSTOV, 75KIEV,6(1975)71.
435. V.A.ANUFRIEV,T.S.BELANOVA,YU.S.ZAMJATNIN,A.G.KOLESOV,S.N.NIKOLSKIJ, V.A.PORUCHIKOV,S.M.KALEBIN,V.S.ARTAMONOV,R.N.IVANOV,76LOWELL, 2(1976),1252.
436. V.A.ANUFRIEV,A.G.KOLESOV,S.I.,BABICH,V.A.SAFONOV,PROCEEDING OF THE INTERN. CONF. ON NUCLEAR CROSS SECTIONS FOR TECHNOLOGY, KNOXVILLE 22-26 OCT. 1979, PAGE 877.
437. V.A.ANUFRIEV,S.I.BABICH,V.N.NEFEDOV,V.A.PORUCHIKOV,V.S.ARTOMONOV, R.N.IVANOF,S.M.KALEBIN, PROCEEDING OF THE INTERN. CONF. ON NUCLEAR CROSS SECTIONS FOR TECHNOLOGY, KNOXVILLE 22-26 OCT. 1979, PAGE 907.
438. S.I.BABICH,N.G.KOCHERYGIN,A.G.KOLESOV,V.A.PORUCHIKOV,V.A.SAFONOV, V.N.NEFEDOV,V.S.ATTOMONOV,T.S.BELANOVA,R.N.IVANOV,S.M.KALEBIN, PROCEEDING OF THE INTERN. CONF. ON NUCLEAR CROSS SECTIONS FOR TECHNOLOGY, KNOXVILLE 22-26 OCT. 1979, PAGE 908.
439. K.D.ZHURAVLEV,N.I.KROSHKIN, SOVIET ATOMIC ENERGY 47(1979)565.
440. M.KUROSAWA,K.SHIMIZU,J.ATOMIC ENERGY SOC.JAPAN,21(1979)505.
441. V.D.GAVRILOV,V.A.GONCHAROV,ATOMNAYA ENERGIYA(USSR),44(1978)246. (SEE ALSO REPORT JADERNO-FIZICHESKIE ISSLEDOVANIJA,YFI-25(1979)49).
442. V.A.ANUFRIJEV,A.G.KOLESOV,V.N.NEFJODOV,R.N.IVANOV,S.I.BABICH, A.P.CHETVERIKOV,V.A.PORUCHIKOV,V.A.SAFONOV,V.S.ARTAMONOV,S.M. KALEBIN,ATOMNAYA ENERGIYA(USSR),46(1979)158 (SEE ALSO REPORT JADERNYE KOSTANTY,OBNINSK(USSR),YK-1,32,1979,P.24).
443. V.A.ANUFRIJEV,A.G.KOLESOV,S.N.NIKOL'SKIJ,V.A.SAFONOV,ATOMNAYA ENERGIYA(USSR),47(1979)269.
444. V.A.ANUFRIJEV,S.I.BABICH,A.G.KOLESOV,V.N.NEFJODOV,V.S.ARTAMONOV, R.N.IVANOV,S.M.KALEBIN,REPORT JADERNYE KONSTANTY,OBNINSK(USSR), YK-1,32,1979,P.19.
445. U.N.SINGH,R.C.BLOCK,Y.NAKAGOME, NUCL.SCIENCE ENGINEERING,67(1980)54.
446. N.E.HOLDEN,REPORT BNL-NCS-51388,1981.
447. "EVALUATED NUCLEAR STRUCTURE DATA FILE" (ENSDF) EDITED AND MAINTAINED BY THE U.S NATIONAL NUCLEAR DATA CENTRE, BROOKHAVEN NATIONAL LABORATORY, ON BEHALF OF THE INTERNATIONAL NETWORK FOR NUCLEAR STRUCTURE DATA EVALUATION (JUNE 1984).
448. L.N.JUROVA, A.A.POLJAKOV, V.P.RUKHLO, JU.E.TITARENKO, S.F.KOMIN, O.V.SHVEDOV, B.F.MJASOEDOV, A.V.DAVYDOV, S.S.TRAVNIKOV, REPORT JADERNYE KONSTANTY, OBNINSK (USSR), ISSUE 1(55) (1984) P.3.

- AALDIJK,J.K.,KORSTJENS,H.M.M.,ZIJP,W.L., RCN-176,1972. (427)

- AALDIJK,J.K.,KORSTJENS,H.M.M.,ZIJP,W.L.,RCN-176,1972. (427)
- ABAGYAN,L.P.,DOVOJENKO,A.G.,ZAKHAROVA,S.N.,KAPUSTINA,V.F., NIKOLAEV,M.N.,PETROVA,O.V.,PROC.2ND SOVIET CONF.,73KIEV,1(1973)246. (247)
- ABUL-ELA,E.,HAMOUDA,I.,AREAEE-165,CAIRO,UAR,1973. (433)
- AITKIN,K.L.,CORNISH,F.W.,J.INORG.NUCL.CHEM.,17(1961)6. (76)
- ALBINSON,H.,IAEA,TECHNICAL REPORTS SERIES NO.156,VIENNA,1974 P.15. (4)
- ALEKSANDROV,B.M.,BAK,M.A.,KRIVOKHATSKII,A.S.,SHLYAMIN,E.A., SOVIET ATOMIC ENERGY,32(1972)203. (183)
- ALIAN,A.,BORN,H.-J.,KIM,J.I.,J.RADIONAL.CHEM.,15(1973)535. (48)
- ALSTAD,J.,JAHNSEN,T.,PAPPAS,A.C.,J.INORG.NUCL.CHEM.,29(1967)215 (SEE ALSO INDC(NOR)-1/G,1972,P.1). (62)
- ALSTAD,J.,PAPPAS,A.C.,SYVERSEN,T.,INDC(NOR)-1/G,1972,P.2. (97)
- ANDERSON,H.L.,PHYS.REV.,80(1950)499. (237)
- ANDERSON,L.L.,HEALTH PHYS.,10(1964)315. (321)
- ANUFRIEV,V.A.,BELANOVA,T.S.,ZAMJATNIN,YU.S.,KOLESOV,A.G., NIKOLSKIJ,S.N.,PORUCHIKOV,V.A.,KALEBIN,S.M.,ARTAMONOV,V.S., IVANOV,R.N.,76LOWELL,2(1976),1252. (435)
- ANUFRIEV,V.A.,KOLESOV,A.G.,BABICH,S.I.,SAFONOV,V.A.,PROCEEDING OF THE INTERN. CONF. ON NUCLEAR CROSS SECTIONS FOR TECHNOLOGY, KNOXVILLE 22-26 OCT. 1979, PAGE 877. (436)
- ANUFRIEV,V.A.,BABICH,S.I.,NEFEDOV,V.N.,PORUCHIKOV,V.A.,ARTO- MONOV,V.S.,IVANOF,R.N.,KALEBIN,S.M., PROCEEDING OF THE INTERN. CONF. ON NUCLEAR CROSS SECTIONS FOR TECHNOLOGY, KNOXVILLE 22-26 OCT. 1979, PAGE 907. CHETVERIKOV,A.P.,PORUCHIKOV,V.A.,SAFONOV,V.A.,ARTAMONOV,V.S.,KALEBIN, (437)
- ANUFRIJEV,V.A.,KOLESOV,A.G.,NEFJODOV,V.N.,IVANOV,R.N.,BABICH,S.I., S.M.,ATOMNAYA ENERGIYA(USSR),46(1979)158 (SEE ALSO REPORT JADERNYE KOSTANTY,OBNINSK(USSR),YK-1,32,1979,P.24). (442)
- ANUFRIJEV,V.A.,KOLESOV,A.G.,NIKOL'SKIJ,S.N.,SAFONOV,V.A.,ATOMNAYA ENERGIYA(USSR),47(1979)269. (443)
- ANUFRIJEV,V.A.,BABICH,S.I.,KOLESOV,A.G.,NEFJODOV,V.N.,ARTAMONOV,V.S., IVANOV,R.N.,KALEBIN,S.M.,REPORT JADERNYE KONSTANTY,OBNINSK(USSR), YK-1,32,1979,P.19. (444)
- ARGONNE NATIONAL LAB.,ANL-6580,1962,P.32. (115)
- ASGHAR,M.,CHAFFEY,C.M.,MOXON,M.C.,PATTENDEN,N.J.,RAE,E.R., UTTLEY,C.A.,NUCL.PHYS.76(1966)196. (173)
- ATTREE,R.W.,CABELL,M.J.,CUSHING,R.L.,PIERONI,J.J.,CAN.J.PHYS., 40(1962)194. (161)
- AUCHAMPAUGH,G.F.,HALPERIN,J.,MACLIN,P.L.,HOWARD,W.M.,PHYS.REV./C, 12(1975)1126. (394)
- AXTON,E.J.,J.NUCL.ENERGY,17(1963)125. (331)
- BABICH,S.I.,KOCHERYGIN,N.G.,KOLESOV,A.G.,PORUCHIKOV,V.A.,SAFONOV, V.A.,NEFEDOV,V.N.,ARTOMONOV,V.S.,BELANOVA,T.S.,IVANOV,R.N.,KALEBIN, S.M., PROCEEDING OF THE INTERN. CONF. ON NUCLEAR CROSS SECTIONS FOR TECHNOLOGY, KNOXVILLE 22-26 OCT. 1979, PAGE 908. (438)
- BAERG,A.P.,BARTHOLOMEW,R.M.,CAN.J.CHEM.,38(1960)2528. (42)
- BAERG,A.P.,BROWN,F.,LOUNSBURY,M.,CAN.J.PHYS.,36(1958)863. (49)
- BAK,M.A.,PETRZHAK,K.A.,PETROV,YU.G.ROMANOV,YU.F.,SHLYAMIN,E.A.,AT. ENERG.(USSR),28(1970)359(TRANSL.IN SOVIET ATOMIC ENERGY,28(1970)460). (202)
- BAK,M.A.,KRIVOKHATSKII,A.S.,PETRZHA,K.A.,PETROV,YU.G.,ROMANOV,YU.F., SHLYAMIN,E.A.,AT.ENERG.(USSR),23(1967)316(TRANSL.IN SOVIET ATOMIC ENERGY,23(1967)1059). (281)
- BARDES,R.D.,BROWN,J.,DRAKE,M.,SAMPSON,J.,TRANS.AM.NUCL.SOC., 4(1961)276. (334)
- BARDES,R.G.,LANGE,R.K.,SAMPSON,J.B.,TODT,L.J.,REPORT GA 3069,1962. (322)
- BARRALL,R.C.,MCELROY,W.N.,IAEA,PROC.SYMP.VIENNA,1965,P.251. (332)

- BAUMANN,N.P.,WASH-1046, P.49,1964. (309)
- BAUMANN,N.P.,PELLARIN,D.J.,TRANS.AMER.NUCL.SOC.,(1964)27. (419)
- BAUMANN,N.P.,HALFORD,J.D.,PELLARIN,D.J.,NUCL.SCI.ENG.,32(1968)265. (234)
- BAUMANN,N.P.,DP-817,1963. (124)
- BECKURTS,K.H.,BROSE,M.,KNOCHE,M.,GRUGER,G.,PONITZ,W.,SCHMIDT,H., NUCL.SCI.ENG.,17(1963)329. (374)
- BELLER,L.,LATHAM,D.,OTTER,J.,NORTH AMERICAN ARIATION,INC., NAA-SR-12500,1967. (127)
- BEMIS JR,C.E.,DRUSCHEL,R.E.,HALPERIN,J.,BAYBARZ,R.D.,ORNL-4581, 1970,P.43. (401)
- BEMIS JR,C.E.,OLIVER,J.H.,EBY,R.,HALPERIN,J.,NUCL.SCI.ENG.,63(1977) 413. (402)
- BEMIS JR,C.E.,DRUSCHEL,R.E.,HALPERIN,J.,WALTON,J.R.,NUC.SCI.ENG., 47(1972)371. (390)
- BEMIS JR,C.E.,DABBS,J.W.T.,JAMES,G.D.,HILL,N.W.,MOORE,M.S., ELLIS,A.N.,ORNL-4976,1974,P.36. (298)
- BEN-DAVID,G.,HUEBSCHMANN,B.,J.NUCL.ENERGY,PARTS A/B,16(1962)291. (152)
- BENJAMIN,R.W.,AHLFELD,C.E.,BULL.AM.PHYS.SOC.,19(1974)599. (296)
- BENJAMIN,R.W.,VANDERVELDE,V.D.,GORELL,T.C.,MC CROSSON,F.J.,75WASH. 1075,P.224. (273)
- BENJAMIN,R.W.,MAC MURDO,K.M.,SPENCER,J.D.,NUCL.SCI.ENG.,47(1972)203 (SEE ALSO 3RD CONF.NEUTRON CROSS SECTION AND TECHN.,KNOXVILLE, TENNESSEE,CONF-710301,2(1971)843). (294)
- BENNETT,R.A.,NUCLEAR PHYSICS RESEARCH QUATERLY REP.,HW 68389(1961)50. (313)
- BENNETT,R.A.,NUCLEAR PHYSICS RESEARCH QUARTERLY REP.,HW-63576, 1960,P.26. (150)
- BERRETH,J.R.,SCHUMAN,R.P.,WASH-1041,1962,P.37. (232)
- BERRETT,J.R.,SCHUMAN,R.P.,REPORT IDO-16827,1962,P.18. (329)
- BERRETT,J.R.,SIMPSON,F.B.,RUSCHE,B.C.,NUCL.SCI.ENG.,49(1972)145. (290)
- BHAT,M.R.,CHRIEN,R.E.,PHYS.REV.,155(1967)1362. (174)
- BIDINOSTI,D.,FICKEL,H.,TOMLINSON,R.,58GENEVA,15(1958)459. (411)
- BIGHAM,C.B.,AECL-1910,1964 (SEE ALSO CRRP-1183,1964). (191)
- BIPAL : A DATA LIBRARY FOR COMPUTING THE BURNUP OF FISSIONABLE ISOTOPES AND PRODUCTS OF THEIR DECAY, KRAZOVCOVA,E.,HEP,J., VALENTA,V.,REPORT ZJE-227(1978),NUCL.POWER CONSTRUCTION DIVISION, INFORMATION CENTRE,PIZEN,CZECHOSLOVAKIA. (415)
- BLASER,W.,WYTTENBACH,A.,BAERTSCHI,P.,J.INORG.NUCL.CHEM.,33(1971)1221. (311)
- BNL/NNDC,PRIVATE COMMUNICATION TO NEA/DATA BANK, USA,1971. (384)
- BOLLINGER,L.M.,COTE,R.E.,DAHLBERG,D.A.,THOMAS,G.E.,PHYS.REV.,105 (1957)661. (240)
- BOLLINGER,L.M.,COTE,R.E.,THOMAS,G.E.,PROC 2ND INTERN.CONF.PEACEFUL USES ATOMIC ENERGY(PROC.CONF.GENEVA,1958),15(1958)127. (251)
- BORCHAROT,G.,JUL-503-RX,1967. (128)
- BOWMAN,C.D.,AUCHAMPAUGH,G.F.,FULTS,S.C.,HOFF,R.W.,PHYS.REV.,166 (1968)1219. (286)
- BRADLEY,J.G.,JOHNSON,W.H.,NUCL.SCI.ENG.,47(1972)151. (348)
- BREIT,G.,WIGNER,E.,J.PHYSICAL REVIEW 49(1936)519. (413)
- BREITENHUBER,L.,HEIMER,H.,PINTER,M.,ATOMKERNENERGIE,15(1970)83 (SEE ALSO EANDC(OR)-68,1968,P.10). (22)
- BRESESTI,M.,CAPPELANI,F.,DEL TURCO,A.M.,NEUMANN,H.,ORVINI,E.,J.INORG. NUCL.CHEM.,27(1965)1175. (37)
- BRESESTI,M.,CAPPELANI,F.,DEL TURCO,A.M.,ORVINI,E.,J.INORG.NUCL.CHEM., 26(1964)9. (36)
- BRESESTI,M.,BRESESTI DEL TURCO,A.M.,NEUMANN,H.,ORVINI,E.,J.INORG. NUCL.CHEM.,26(1964)1625. (8)
- BRESESTI,M.,BRESESTI-DEL TURCO,A.M.,ROTA,A.,AERE-R-4500,PART III, (125)

1964,P.221.

1964,P.221.
- BRESESTI,A.M.,BRESESTI,M.,NEUMANN,H.,J.INORG.NUCL.CHEM.,29(1967)2477. (368)
- BROOKHAVEN NATIONAL LABORATORY. (447)
"EVALUATED NUCLEAR STRUCTURE DATA FILE" (ENSDF) EDITED AND MAINTAINED BY THE U.S NATIONAL NUCLEAR DATA CENTRE, BROOKHAVEN NATIONAL LABORATORY, ON BEHALF OF THE INTERNATIONAL NETWORK FOR NUCLEAR STRUCTURE DATA EVALUATION (JUNE 1984)
- BROSE,M.,NUCL.SCI.ENG.,19(1964)244. (170)
- BROSE,M.,DISSERTATION TECHNISCHE HOCHSCHULE KARLSRUHE,1960(SEE ALSO NUKLEONIK,6(1964)134). (151)
- BROWN,H.L.,DISSERTATION ABSTRACTS SECTION B,27(1966)1244. (134)
- BROWN JR,H.L.,CONNOLLY,T.J.,FOELL,W.K.,TRANS.AM.NUCL.SOC.,5(1962)375. (133)
- BROWN,F.,CAMPION,P.J.,OLIVER,B.H.,J.NUCL.ENERGY,13A(1961)141. (43)
- BROWNE,W.,BERMAN,B.L.,PHYS.REV./C,8(1973)24 (SEE ALSO UCRL-74840, 1973). (391)
- BRUNE,D.,RADIOCHIM.ACTA,12(1969)119. (21)
- BRUNE,D.,JIRLOW,K.,J.NUCL.ENERGY,17(1963)350. (156)
- BUTLER,J.P.,LOUNSBURY,M.,MERRIT,J.S.,CAN.J.PHYS.,35(1957)147. (248)
- CABELL,M.J.,WILKINS,M.,J.INORG.NUCL.CHEM.,27(1965)2481. (253)
- CABELL,M.J.,J.NUCL.ENERGY,PARTA,12(1960)172. (358)
- CABELL,M.J.,J.INORG.NUCL.CHEM.,21(1961)1. (356)
- CABELL,M.J.,EASTWOOD,T.A.,CAMPION,P.J.,J.NUCL.ENERGY,7(1958)81. (230)
- CABELL,M.J.,CAN.J.CHEM.,37(1959)1094. (159)
- CABELL,M.J.,CAN.J.PHYS.,36(1958)989. (178)
- CABELL,M.J.,66 PARIS II,IAEA,1967,P.3. (198)
- CABELL,M.J.,J.INORG.NUCL.CHEM.,32(1970)3433. (71)
- CABELL,M.S.,J.INORG.NUCL.CHEM.,24(1962)749. (81)
- CABELL,M.J.,WILKINS,M.,AERE-R-6384,1970. (417)
- CAMPBELL,C.G.,FREEMANTLE,R.G.,POOLE,M.J.,PROC.2ND INTERN.CONF. PEACEFUL USES ATOMIC ENERGY,GENEVA,16(1958)233. (206)
- CAO,M.G.,MIGNECO,E.,THEOBALD,J.P.,MERLA,M.,J.NUCL.ENERGY,24(1970)111 (SEE ALSO NUCL.DATA FOR REACTORS,VOL.I,IAEA-CN-26/19,1970,P.419.). (201)
- CARLSON,A.D.,FRIESENHAHN,S.J.,LOPEZ,W.M.,FRICKE,M.P.,NUCL.PHYS.A,141 (1970)577. (236)
- CARRE,J.C.,VIDAL,R.,NUCLEAR DATA FOR REACTORS,IAEA,66PARIS,1(1966)479 (SEE ALSO REF.44,68). (45)
- CHETHAM-STRODE,ORNL-3832,1965,P.1. (295)
- CHRIEN,R.E.,CAN.J.PHYS.,39(1961)1193. (80)
- CINDA 79,IAEA,VIENNA,1979. (7)
- CLAYTON,E.,AECD-4167,1955. (205)
- CLAYTON,E.,AUSTRALIAN AEC,REP.AAEC/TM619(1972). (26)
- CODDING JR,J.E.,TROMP,R.L.,SIMPSON,F.B.,NUCL.SCI.ENG.,43(1971)58. (72)
- CONNOR,J.C.,BAYARD,R.T.,MAC DONALD,D.,GUNST,S.B.,NUCL.SCI.ENG.,29 (1967)408. (186)
- CONNOLLY,J.W.,ROSE,A.,WALL,T.,AAEC/TM 191,1963. (123)
- CONNOR,J.C.,WAPD-TM-837,1970. (385)
- CONWAY,D.E.,GUNST,S.B.,NUCL.SCI.ENG.,29(1967)1. (196)
- COOK,J.L.,WALL,A.L.,AAEC/TM362,1966. (269)
- CORNISH,F.W.,LOUNSBURY,M.,CRC-633,1956. (261)
- COTE,R.E.,BOLLINGER,L.M.,BARNES,R.F.,DIAMOND,H.,PROC.2ND INTERN.CONF. PEACEFUL USES ATOMIC ENERGY,IAEA,GENEVA,16(1958)77. (274)
- COTE,R.E.,BULL.AM PHYS.SOC.,6(1961)417. (140)
- COTE,R.E.,DIAMOND,H.,GINDLER,J.E.,SHUE,H.L.A.,PHYS.REV.,176(1968)1421 (162)
- COTE,R.E ET AL.,PHYS.REV.,159(1967)1050. (383)
- CRAIG,D.S.,WESTCOTT,C.H.,CAN.J.PHYS.,42(1964)2384. (271)
- CROCKER,I.H.,EAN(CAN)17/4,1963. (222)

- DAHLBERG,R.,JIRLOU,K.,JOHANSSON,E.,J.NUCL.ENERGY,14(1961)53. (314)
- DAMLE,P.P.,FABRY,A.,VAN DEN BROECK,H.,BLG-421,CEN-SCK,MOL(1967). (86)
- DAMLE,P.P.,FABRY,A.,JACQUEMIN,R.,EANDC(E)-76,1967,P.107. (143)
- DAYTON,I.E.,PETTUS,W.G.,NUCLEONICS,15(1957)86. (378)
- DEAL,R.A.,SCHUMAN,R.P.,WASH-1053,1964,P.76. (421)
- DEEN,J.R.,LINN DRAPER JR,E.,CHROMIK,J.J.,TRANS.AM.NUCL.SOC.,16 (1973)316. (164)
- DE CORTE,F.,SPEECKE,A.,HOSTE,J.,J.RADIOANAL.CHEM.,3(1969)205. (371)
- DE CORTE,F.,SPEECKE,A.,HOSTE,J.,J.RADIOANAL.CHEM.,9(1971)9. (58)
- DE LANGE,P.W.,BIGHAM,C.B.,NUCL.APPL.,4(1968)190. (119)
- DE SAUSSURE,G.,WESTON,L.W.,GWIN,R.,INGLE,R.W.,TODD,J.H.,NUCLEAR DATA FOR REACTORS,(PROC.CONF.PARIS,1966),IAEA,2(1966)233. (214)
- DEMMELER,M.,HECKER,R.,IONAS,H.,KLEINSCHNITTGER,K.,RAMAKRISHNA,D.V.S., ATOMWIRTSCHAFT,16(1971)532. (107)
- DERRIEN,H.,NEANDC(E)163U,1975,P.73. (176)
- DERUYTTER,A.J.,WAGEMANS,C.,68WASH,1(1968)475. (215)
- DOBROZEMSKY,R.,PICHLMAYER,F.,VIEHBOECK,F.P.,SGAE-PH-104,1971(SEE ALSO REF.75 AND ALSO EANDC(OR)-68,1968,P.11). (100)
- DOBROZEMSKY,R.,PICHLMAYER,F.,VIEHBOECK,F.P.,INTERN.J.MASS SPECTROM. ION PHYS.,6(1971)435(SEE ALSO REF.100). (75)
- DRAKE,M.K.,NUCLEONICS,24(1966)NO.8,108. (3)
- DRAKE,M.K.,NICHOLS,P.F.,GA-7462,1967. (182)
- DRAKE,M.K.,GA-6576,1965. (268)
- DRUSCHEL,R.E.,HALPERIN,J.,ORNL-3994,1966,P.6. (406)
- DRUSCHEL,R.E.,HALPERIN,J.,ORNL-4306,1968,P.2. (353)
- DUNFORD,C.L.,ALTER,H.,NAA-SR-12271,1967. (245)
- DURHAM,R.W.,HANNA,G.C.,LOUNSBURY,M.,BIGHAM,C.B.,HART,R.G.,JONES,R.W., 66PARIS II,IAEA,1967,P.17. (223)
- DYOS,M.W.,NUCL.SCI.ENG.,34(1968)181. (262)
- EASTWOOD,T.A.,BAERG,A.P.,BIGHAM,C.B.,BORWN,F.,CABELL,M.J.,GRUMMITT, W.E.,ROY,J.C.,ROY,L.P.,SCHUMAN,R.P.,2ND PROC.CONF.PEACEFUL USES OF ATOMIC ENERGY,IAEA,GENEVA,16(1958)54. (30)
- EASTWOOD,T.A.,BROWN,F.,EANDC(CAN),16(1963)6. (35)
- EASTWOOD,T.A.,WERNER,R.W.,CAN.J.PHYS.,38(1960)751. (184)
- EASTWOOD,T.A.,WERNER,R.O.,CAN.J.PHYS.,41(1963)1263. (336)
- EASTWOOD,T.A.,MATYAS,E.,HNATOWICH,D.J.,CAN.J.PHYS.,41(1963)1519. (379)
- EBERLE,S.H.,KFK-1544,1972,P.62(SEE ALSO REF.243). (280)
- EBERLE,S.H.,BLEYL,J.H.,BRAUN,H.,BAECKMANN,A.V.,KOCH,L.,REPORT KFK-1453 (EUR-4726D),1972,P.1(SEE ALSO REF.280). (243)
- EDER,O.J.,LAMMER,M.,NUCLEAR DATA IN SCIENCE AND TECHNOLOGY,IAEA, 73PARIS1,1973,P.233. (38)
- EILAND,H.M.,ESCH,L.S.,FEINER,F.,MEWHERTER,J.L.,NUCL.SCI.ENG.,44 (1971)180. (203)
- EILAND,H.M.,WEINSTEIN,S.,SEEMAN,K.W.,NEUTRON CROSS SECTION AND TECHNO., PROC.OF THE 3RD CONF.(CONF-710301)OF UNIV.OF TENESSEE, KNOXVILLE,1971,P.673. (74)
- EILAND,H.M.,WEINSTEN,S.,SEEMAN,K.W.,NUC.SCI.ENG.,54(1974)286(SEE ALSO REF.74). (387)
- EILAND,H.M.,FEHR,F.B.,HANSEN,E.C.,MEWHERTER,J.L.,KAPL-2000-11, III-30,1960. (50)
- ELGART,M.F.,FINSTON,H.F.,RUNDBERG,R.,WILLIAMS,E.T.,NUC.SCI.ENG., 58(1975)291 (SEE ALSO 75WASH,2(1975)792). (396)
- ELGART,M.F.,THESIS,CITY UNIV.OF NEW YORK,1971,UNIV.MICROFILMS ORDER NO.72-988,DA/B32,3245,1971. (9)
- EMERY,J.F.,J.INORG.NUCL.CHEM.,27(1965)903. (347)
- ENDL : TABULAR AND GRAPHICAL PRESANTATION OF 175 NEUTRON-GROUP (409)

CONSTANTS DERIVED FROM THE LLL EVALUATED-NUCLEAR DATA LIBRARY,

CONSTANTS DERIVED FROM THE LLL EVALUATED-NUCLEAR DATA LIBRARY, PLECHATY,E.E.,CULLEN,D.E.,HOWERTON,R.J.,KIMLINGER,J.R.,REPORT UCRL-50400,VOL.16,REV.2, 1978.
- ENGLAND,T.R.,WAPD-TM-333,1965. (32)
- EROZOLYMSKY,B.G.,KUTIKOV,I.E.,DOBRYNIN,Y.P.,PEVZNER,M.I.,DANELYAN, L.S.,MOSKALEV,S.S.,J.NUCL.ENERGY,4(1957)86. (263)
- ESCH,L.J.,FEINER,F.,TRANS.AM.NUCL.SOC.,7(1964)272. (192)
- ESCH,L.J.,FEINER,F.,TRANS.AM.NUCL.SOC., 7(1964)78. (381)
- FAST,E.,SCOVILLE,J.J.,IDO-16781,1962,P.2. (116)
- FEDOROVA,A.F.,PISANKO,J.I.,NOVOSYELOV,G.M.,REPORT KIYAI-76-6,1976, INSTITUTE JADERNYKH ISSLEDOVANIJ,KIEV/USSR. (388)
- FEDOROVA,A.F.,PISANKO,J.I.,NOVOSYELOV,G.M.,REPORT KIYAI-76-7,1976, INSTITUTE JADERNYKH ISSLEDOVANIJ,KIEV/USSR. (392)
- FEHR,E.,HANSEN,E.,KAPL-2000-12,I,1960,P.33 (SEE ALSO KAPL-2000, 1,1960,P.30). (412)
- FEINER,F.,ESCH,L.J.,66 SAN DIEGO,2(1966)299. (193)
- FEINER,F.,ESCH,L.J.,REP.KAPL2000-12,1960. (337)
- FEINER,F.,REP.KAPL 2000-16,1961. (330)
- FEINER,H.F.,TRANS.AM.NUCL.SOC.,2(1959)121. (357)
- FENNER,N.C.,LARGE,R.S.,J.INORG.NUCL.CHEM.,29(1967)2147(SEE ALSO EANDC(UK)-75-5,1966). (70)
- FOELL,W.K.,CONNOLLY,T.J.,NUCL.SCI.ENG.,21(1965)406. (172)
- FOLGER,R.L.,SMITH,J.A.,BROWN,L.C.,OVERMAN,R.F.,HOLCOMB,H.P.,68WASH,2 (1968)1279. (276)
- FREEMANTLE,R.G.,REP.AEEW-M-502,1965. (212)
- FRENCH,R.L.D.,BRADLEY,B.,NUCL.PHYS.,65(1965)225. (319)
- FRICKE,M.,CARLSON,A.,GULF-RI-A-10739,197. (389)
- FRIESENHAHN,S.J.,GIBB,D.A.,HADDAD,E.,FROEHNER,F.,LOPEZ,W.M.,J.NUCL. ENERGY,22(1968)191. (137)
- FRIESENHAHN,S.J.,FRICKE,M.P.,COSTELLO,D.G.,LOPEZ,W.M.,CARLSON,D., NUCL.PHYS.,A146(1970)337. (89)
- FULMER,R.H.,ESCH,L.J.,FEINER,F.,RUANE,T.F.,WASH 68 E20,1968. (106)
- FULMER,R.H.,STRIKOS,D.P.,RUANE,T.F.,NUCL.SCI.ENG.,46(1971)314. (350)
- GADO,J.,CENTRAL RESEARCH INSTITUT FOR PHYSICS,BUDAPEST,REP. FKFI-74-45,1974. (218)
- GARRISON,J.D.,ROOS,B.W.,NUCL.SCI.ENG.,12(1962)115. (40)
- GARG,J.B.,RAINWATER,J.,HAVENS JR,W.W.,NUCL.SCI.ENG.,65(1978)76 (SEE ALSO CR-1860,1964) . (403)
- GAVRILOV,V.D.,GONCHAROV,V.A.,IVANENKO,V.V.,SMIRNOV,J.V.P.,KUSTOV, V.N.,75KIEV,6(1975)71. (434)
- GAVRILOV,V.D.,GONCHAROV,V.A.,ATOMNAYA ENERGIYA(USSR),44(1978)246. (SEE ALSO REPORT JADERNO-FIZICHESKIE ISSLEDOVANIJA,YFI-25(1979)49). (441)
- GEIGER,K.W.,VAN DER ZWAN,L.,NUKEONIK,10(1967)277. (323)
- GIBELLO,A.,ORESTANO,F.V.,PISTELLA,F.,SANTANDREA,E.,NUCL.SCI.ENG.,40 (1970)51. (88)
- GILLETTE,J.H.,ORNL-4155,1967. (136)
- GILLETTE,J.H.,ORNL-4013,1965,P.5. (126)
- GLOMSET,O.,PAPPAS,A.C.,INDC(NOR)-1/G,1972,P.3. (99)
- GLEASON,G.,RADIOCHEMICAL AND RADIOANAL.LETTERS,26(1976)39. (404)
- GLEASON,G.,RADIOCHEMICAL AND RADIOANAL.LETTERS,23(1975)317. (399)
- GLEASON,W.,PRIVATE COMMUNICATION TO NEA/DATA BANK,ORL,USA,1977. (400)
- GORDEEV,I.V.,PUPKO,V.Y.,PROC.2ND INTERN.CONF.PEACEFUL USES OF ATOMIC ENERGY,IAEA,GENEVA,16(1958)141. (224)
- GORDON,B.,WEINSTOCK,E.V.,WASH-1093,1968,P.28. (303)
- GRENECHE,D.,NEANDC(E)163U,1975,P.43. (302)
- GRYNTAKIS,E.M.,KIM,J.I.,J.RADIOANAL.CHEM.,76(1983)341. (1)

- A.AHMAD,ANN.NUCL.ENERGY,10(1983)41. { 2}
- GRYNTAKIS,E.M.,KIM,J.I.,J.INORG.NUCL.CHEM.,36(1974)1447 (SEE ALSO REF. 180). { 179}
- GRYNTAKIS,E.M.,THESIS,TECHNICAL UNIVERSITY OF MUNICH,DM-6909,1976 (SEE ALSO REF. 179). { 180}
- GRYNTAKIS,E.M.,KIM,J.I.,RADIOCHIMICA ACTA,22(1975)128. { 307}
- GRYNTAKIS,E.M.,KIM,J.I.,J.RADIOANAL.CHEMISTRY,46(1978)159. { 339}
- HALPERIN,J.,DURSCHEL,R.E.,ORNL-3488,1963,P.15. { 33}
- HALPERIN,J.,ELDRIDGE,J.S.,O'BRIEN JR,H.A.,DRUSCHEL,R.E.,ORNL-4164,1, 1967. { 51}
- HALPERIN,J.,DRUSCHEL,R.E.,BALDOCK,C.R.,TRANS.AM.NUCL.SOC.,5(1962)376. { 77}
- HALPERIN,J.,OLIVER,J.H.,ORNL-3320,1962,P.2. { 158}
- HALPERIN,J.,DRUSCHEL,R.E.,STOUGHTON,R.W.,CAMERON,A.E.,WALKER,R.L., ORNL-3320,1962,P.2. { 185}
- HALPERIN,J.,BALDOC,C.R.,OLIVER,J.H.,NUCL.SCI.ENG.,21(1965)257(SEE ALSO REF.275). { 188}
- HALPERIN,J.,JOHNSTON,F.J.,STOUGHTON,R.W.,OLIVER,J.H.,BLEVINS,E.L., DRUSCHEL,R.E.,HARKNESS,A.L.,SWARZ,B.A.,NUCL.SCI.ENG.,16(1963)245. { 190}
- HALPERIN,J.,OLIVER,J.H.,PROC.2ND INTERN.CONF.PEACEFUL USES ATOMIC ENERGY,IAEA GENEVA,16(1958)64. { 231}
- HALPERIN,J.,OLIVER,J.H.,ORNL-2679,1964,P.13. { 275}
- HALPERIN,J.,RUSCHE,R.E.,EBY,R.E.,ORNL-4437,1969,P.20. { 291}
- HALPERIN,J.,OLIVER,J.H.,STROUGHTON,R.W.,ORNL-4581,1970,P.37. { 293}
- HALPERIN,J.,OLIVER,J.H.,STOUGHTON,R.W.,ORNL-4706,1971. { 297}
- HALPERIN,J.,BEMIS,C.E.,DRUSCHEL,R.E.,STOKELY,J.R.,NUCL.SCI.ENG.,37 (1969)228. { 305}
- HALPERIN,J. ET AL.,ORNL-3832,1965,P.4. { 359}
- HALPERIN,J. ET AL.,ORNL-3994,1966,P.2. { 364}
- HALPERIN,J.,DRUSCHEL,R.E.,ORNL-3679,1964,P.15. { 372}
- HALPERIN,J.,BEMIS JR,C.E.,DRUSCHEL,R.E.,EBY,R.E.,ORNL-4706,1971,P.47. { 386}
- HANNA,G.C.,WESTCOTT,C.H.,LEMMEL,H.D.,LEONARD JR,B.R.,STORY,J.S., ATTREE,P.M.,IAEA,ATOMIC,ENERGY REV.,7(1969)3. { 258}
- HANNA,G.H.,WALKER,W.H.,EANDC(CAN)-20,1963. { 209}
- HARBOUR,R.M.,MAC MURDO,K.W.,J.INORG.NUCL.CHEM.,35(1973)1821. { 256}
- HARBOUR,R.M.,MAC MURDO,K.W.,MC CROSSON,F.J.,NUCL.SCI.ENG.,50(1973)364 { 262}
- HARDY,J.,NUCL.SCI.ENG.,22(1965)121. { 169}
- HARDY JR,J.,NUCL.SCI.ENG.,27(1967)135. { 199}
- HARDY JR,J.,KLEIN,D.,SMITH,G.G.,NUCL.SCI.ENG.,9(1961)341. { 208}
- HARDY JR,J.,SMITH,G.G.,KLEIN,D.,NUCL.SCI.ENG.,14(1962)358. { 241}
- HARRIS,S.P.,MUEHLHAUSE,C.O.,THOMAS,G.E.,PHYS.REV.,79(1950)11. { 10}
- HART,R.G.,BIGHAM,G.B.,MILLER,F.C.,AECL-1503,1962. { 382}
- HARVEY,J.A.,HUGHES,D.J.,CARTER,R.S.,PILCHER,V.E.,PHYS.REV.,99(1955)10 { 238}
- HARVEY,J.,SCHWARTZ,R.,PROGRESS IN NUCL ENERGY,PHYS.AND MATH.,VOL.2 (PERGAMON PRESS,LONDON,1958)P.51. { 229}
- HAYODOM,V.,BOONKONG,W.,MAHAPANYAWONG,S.,CHAIMONKON,C.,BANGKOK, THAILAND, THAI-AEC-23 PROGRESS REPORT,1989. { 432}
- HEIMEL,H.,HEINDLER,M.,ATOMKERNENERGIE,20(1972)135. { 120}
- HELLSTRAND,NUCKLEONIK,8(1966)1(SEE ALSO AKTIEBOLAGET ATOMENERGI REPORTS,AE-181,1965). { 213}
- HELLSTRAND,E.,LUNDGREN,G.,NUKLEONIK,4(1962)323. { 354}
- HENNIES,H.H.,66PARIS II,IAEA,1967,P.333. { 197}
- HENNELLY,E.J.,CORNMAN,W.R.,BAUMANN,N.P.,68WASH-1271,1968. { 225}
- HINKELMANN,B.,2ND INTERN.CONF.ON NUCLEAR DATA,HELSINKI,CN-26/15,1970. { 226}
- HOGG,C.H.,WEBER,L.D.,YATES,E.C.,IDO-16744,1962. { 341}
- HOGG,C.H.,WEBER,L.D.,IN-1024,1966. { 344}
- HOLDEN,N.E.,REPORT BNL-NCS-51388,1981. { 446}

- HUETTEL,G.,KERNENERGIE,14(1971)73. { 96}

- HUETTEL,G.,KERNENERGIE,14(1971)73. (96)
- IAEA,TECHNICAL REPORTS SERIES NO.107,VIENNA,1970. (308)
- IHLE,H.,MICHAEL,H.,NEUBERT,A.,BLAIR,A.J.F.,DAMLE,P.,BODNARESCU,M.V., J.INORG.NUCL.CHEM.,34(1972)2427. (246)
- JACKS,G.M., SAVANNAH RIVER REPORT DP-608 (1961). (122)
- JAIN,A.P.,CHRIEN,R.E.,MOORE,J.A.,PALERSKY,H.,NUCL.SCI.ENG.,17(1963) 319. (377)
- JIRLOW,K.,JOHANSSON,E.,J.NUCL.ENERGY,PART A,11(1960)101. (149)
- JOANOU,G.,GA-5944,1964. (211)
- JOANOU,G.,STEVENS,C.,GA-5885,1964. (118)
- JOHANSSON,E.,DISS.CHALMERS TEKN.HOGSKOLA,GOTEBORG,1966. (153)
- JOHSTON,F.J.,HALPERIN,J.,STOUGHTON,R.W.,H.NUCL.ENERGY,11(1960)95. (166)
- JONAS,H.,HECHER,R.,GIESSER,W.,ATOMKERNENERGIE,25(1975)271. (108)
- JONES,R.W.,EAN(CAN)13/4,1962. (221)
- JUROVA, L.N. ET AL, JAD. KONST. 1(55) (1984) P.3. (448)
- KALEBIN,S.M.,PALEJ,P.N.,IVANOZ,P.N.,KARALOVA,Z.K.,KUKAVADZE,G.M., PYZHOVA,Z.I.,RUKOLAJNE,G.V.,68DUBNA,ACC-61/18,1968,P.18(SEE ALSO ATOMNAYA ENERGIYA,26(1969)507 AND SOVIET ATOMIC ENERGY,26(1969)588). (163)
- KAPCHIGASHEV,S.P.,POPOV,YU.P.,AT.ENERG.(USSR),15(1963)120. (117)
- KAPCHIGASHEV,S.P.,POPOV,YU.P.,AT.ENERG.(USSR),16(1964)256. (325)
- KAPCHIGASHEV,S.P.,AT.ENERG.(USSR),19(1965)294. (365)
- KARAM,R.A.,PARKINSON,T.F.,PANCZYK,M.F.,AD-402668,FLA,USA,1963. (416)
- KARAM,R.A.,PARKINSON,T.F.,66WASH,1966,P.171. (130)
- KASHUKEEV,N.T.,POPOV,YU.P.,SHAPIRO,F.L.,J.NUCL.ENERGY,PART.A/B, 14(1961)76. (318)
- KIIKALA,R.C.,PURCELL,W.L.,WORDEN,J.R.,66WASH,1(1966)75. (287)
- KIM,I.J.,BECK,R.,GRYNTAKIS,E.M.,ZAGHLOUL,R.,NUCLEAR INSTRUMENTS AND METHODS,165(1979)565. (260)
- KIM,J.I.,ADAMS,F.,RADIOCHIM.ACTA,8(1967)165. (155)
- KIM,J.I.,ADAMS,F.,RADIOCHIM.ACTA,9(1968)61. (146)
- KIM,J.I.,GRYNTAKIS,E.M.,RADIOCHIM.ACTA,17(1972)191. (65)
- KIM,J.I.,GRYNTAKIS,E.M.,BORN,H.J.,RADIOCHIM.ACTA,22(1975)20. (85)
- KIROUAC,G.J.,EILAND,H.M.,75WASH,2(1975)776. (395)
- KIROUAC,G.J.,EILAND,H.M.,CONRAD,C.A.,SLOVACEK,R.E.,SEEMAN,K.W., NUCL.SCI.ENG.,52(1973)310. (73)
- KIROUAC,G.J.,EILAND,H.M.,PHYS.REV.C,11(1975)895. (135)
- KLEBER,C.N.,NUCLEONICS,20(1962)162. (375)
- KLIMENTOV,V.B.,GRIAZEV,V.M.,J.NUCL.ENERGY,9(1959)20,TRANSL. FROM AT. ENERG. (USSR)3(1957)507. (13)
- KLOPP,D.A.,ZAGOTTA,W.F.,TRANS.AM.NUCL.SOC.,5(1962)337. (373)
- KOCIC,A.,MARKOVIC,V.,BULL.INST.BORIS KIDRIC,VOL.18,NUC.ENG.,19(1968) 13. (431)
- KOEHLER,W.,SCHNEIDER,E.,NUKLEONIK,12(1969)197(SEE ALSO REF.148). (147)
- KOHLER,W.,SCHMELZ,H.,NUKLEONIK,9(1967)270. (320)
- KONAKHOVICH,YU.YA.,PEVZNER,M.I.,AT.ENERG.(USSR),8(1960)47(TRANSL.IN SOVIET ATOMIC ENERGY,8(1961)39). (177)
- KONDUROV,I.A.,EGOROV,A.I.,KAMINKEV,M.,KOROTKIN,E.M.,NIKITIN,A.M., AT.ENERG.(USSR),24(1968)533. (342)
- KONKS,V.A.,SHAPIRO,F.L.,SOV.PHYS.,JETP,20(1965)531. (157)
- KONKS,V.A.,POPOV,YU.P.,SHAPIRO,F.L.,J.EXPERIM.THEORET.PHYS.,46(1964) 80. (52)
- KRAMER,H.H.,WALL,W.H.,NUCL.SCI.ENG.,22(1965)373. (369)
- KUROSAWA,M.,SHIMIZU,K.,J.ATOMIC ENERGY SOC.JAPAN,21(1979)505. (440)
- KRUPCHINSKY,P.A.,J.NUCL.ENERGY,6(1957)155. (264)
- LANTZ,P.,BALDOCK,C.,STOUGHTON,R.,IDOM,L.,ORNL-3994,1966,P.2. (410)
- LAMB,W.E.,PHYS.REV.,55(1939)190. (326)

- LANTZ,P.M.,NUCL.SCI.ENG.,13(1962)289. (63)
- LANTZ,P.,BALDOCK,C.,IDOM,L.,ORNL-3679(1964)10. (360)
- LANTZ,P.M.,BALDOCK,C.R.,IDON,L.E.,NUCL.SCI.ENG.,20(1964)302(SEE ALSO (61)
- LATEK,S.,TOPA,J.,NUKLEONIKA,13(1968)881. (111)
- LANTZ,P.M.,BALDOCK,C.R.,IDOM,L.E.,ORNL-3832,1965,P.7. (90)
  TRANS.AM.NUCL.SOC.,6(1963)44).
- LAUTENBACH,G.,REP.RCN-191,1973. (28)
- LEDERER,C.M.,SHIRLEY,V.S.,TABLE OF ISOTOPES,SEVEN EDITION 1978, (310)
  (ALSO 6TH ED.1967), WILEY-INTERSCIENCE PUBL.,NEW YORK.
- LEONARD JR,B.R.,SEPPI,E.J.,FRIESEN,W.J.,NUCL.SCI.ENG.,5(1959)32. (265)
- LEMMEL,H.D.,WESTCOTT,C.H.,J.NUCL.ENERGY,21(1967)417. (380)
- LESAGE,L.,SHER,R.,REACTOR PHYSICS IN THE RESONANCE AND THERMAL (112)
  REGIONS,PROC.ANSMATH.TOP.MEET.SAN DIEGO,CALIF.,2(1966)175.
- LESAGE,L.,SHER,R.,PROC.ANS NAT.TOP.MEET.SAN DIEGO,CALIF.,1966,P.4. (340)
- LIOU,H.,RAHN,F.,HO,C.,RAINWATER,J.,HAVENS JR,W.W.,TRANS AM.NUCL.SOC., (101)
  13(1970)300.
- LOUWRIER,P.,ATEN JR,A.,J.NUCL.ENERGY,PARTS A/B,19(1965)267. (333)
- LUCAS,M.,HAGEMANN,R.,NAUDET,R.,RENSON,C.,CHEVALIER,C., (424)
  MEETING ON THE TECHN. COMMITTEE ON NATURAL FISSION REACTORS,
  PARIS 19-21 DEC.1977, 1(1979)431.
- LUX,F.,KOHLER,W.,PROGRESS REPORT IN NUCLEAR DATA RESEARCH IN THE (367)
  EURATOM COMMUNITY,1964,EANDC(E)57"V",1965,P.28.
- LYON,W.,ROSS,H.,ORNL-4196,1967,P.66. (423)
- MAC MURDO,K.W.,HARBOUR,R.M.,J.INORG.NUCL.CHEM.,34(1972)449. (300)
- MACKLIN,R.L.,POMERANCE,H.S.,PROC.CONF.PEACEFUL USES OF ATOMIC ENERGY, (11)
  GENEVA,5(1956)96.
- MACKLIN,R.L.,POMERANCE,H.S.,J.NUCL.ENERGY,2(1956)243. (239)
- MAENHAUT,W.,ADAMS,F.,HOSTE,J.,J.RADIOANAL.CHEMISTRY,16(1973)39. (429)
- MARKOVIC,V.,KOCIC,A.,BULL.BORIS KINDRIC INST.NUCL.SCI.NUCL.ENG., (139)
  22(1971)1.
- MARKOVIC,V.,KONIC,A.,BULLETIN BORIS KIDRIC INST.NUCL.SCI.,NUCL.ENG., (363)
  18(1967)11.
- MAXIA,V.,ORVINI,E.,ROLLIER,M.A.,NUCL.SCI.ENG.,35(1969)88. (370)
- MICHAEL,H.,NEUBERT,A.,WAGNER,R.,BLAIR,A.J.,NEANDC(E)-172U,176,P.43. (428)
- MONSECOUR,M.,DE REGGE,P.,J.INORG.NUCL.CHEM.,37(1975)1641. (160)
- MOORE,M.S.,MILLER,L.G.,SIMPSON,O.D.,PHYS.REV.,118(1960)714. (189)
- MOORE,M.S.,MC NALLY,J.H.,BAYBARZ,R.D.,PHYS.REV.C,4(1971)273. (299)
- MOXON,O.D.,AERE-PR/NP14,1968,P.12. (336)
- MUGHABGHAB,S.F.,CHRIEN,R.E.,PHYS.REV.,174(1968)1400. (103)
- MUGHABGHAB,S.F.,CHRIEN,R.E.,PHYS.REV.,180(1969)1131. (78)
- MAGUIRE JR,H.T.,FISHER,H.M.,BLOCK,R.C.,INT.CONF.ON NEUTRON (420)
  PHYSICS AND NUCLEAR DATA FOR REACTORS AND OTHER APPLIED
  PURPOSES, AERE HARWELL, 25-29 SEPT.1978,PAGE 472.
- MYASISCHEVA,G.G.,AKININA,M.P.,GOLD'DIN,L.L.,ERSHLER,B.V.,AT ENERG. (165)
  (USSR),2(1957)22(TRANSL.IN SOVIET ATOMIC ENERGY,5(1957)230).
- NANJYO,T.,J.NUCL.SCI.TECHN.,7(1970)126. (335)
- NEPHEW,E.A.,REP.ORNL-2869,REACTORS-POWER TID-4500(15TH ED.),1960. (15)
- NEUTRON CROSS SECTIONS,BNL-325,3RD ED.,VOL.1,1973,AND VOL1.PART A 1981(6)
- NICHOLS,W.H.,NUCL.SCI.ENG.,17(1963)144(SEE ALSO TRANS.AM.NUCL.SOC.,5 (267)
  (1962)374).
- NILSSON,R.,NUCLEAR PHYSICS,29(1962)66. (351)
- O'BRIEN JR,H.A.,ELDRIDGE,J.S.,DRUSCHEL,R.E.,HALPERIN,J.,J.INORG.NUCL. (56)
  CHEM.,29(1967)584.
- OKAZAKI,A.,LOUNSBURY,M.,DURHAM,R.W.,CHALK RIVER REP.,AECL-2148,1964. (204)
- OKAZAKI,A.,LOUNSBURY,M.,DURHAM,R.W.,CROCKER,I.H.,AECL-1965,1964. (233)
- OLSEN,J.,RISO-M-1516,1972. (426)

- OFFICE OF ATOMIC ENERGY FOR PEACE,BANGKOK, CERTAIN ACCOUNTS ON THE (18)
  UTILIZATION OF THE THAI RESEARCH REACTOR,BANGKOK CONF.REP.

- OFFICE OF ATOMIC ENERGY FOR PEACE,BANGKOK, CERTAIN ACCOUNTS ON THE UTILIZATION OF THE THAI RESEARCH REACTOR,BANGKOK CONF.REP. THAI-AEC-10,1967. (18)
- ORESTANO,F.V.,PISTELLA,F.,NUCL.SCI.ENG.,37(1969)478. (87)
- ORVINI,E.,GAGGERO,G.,LESCA,L.,BRESESTI,A.M.,BRESESTI,M.,J.INORG.NUCL. CHEM.,30(1968)1353. (60)
- PAGE,E.M.,MAHNA,K.L.,NEUTRON CROSS SECTIONS AND TECHNOLOGY,PROC.OF (217)
- OTTEWITTE,E.H.,OTTER,J.M.,ROSE,P.F.,DUNFORD,C.L.,AI-AEC-12990,1971. (114)
THE 3RD CONF.(CONF-710301) OF UNIV.OF TENNESSEE,KNOXVILLE,1971,P.469.
- PALMUCCI,M.A.,COMITATO NATIONALE ENERGIA NUCLEARE,RT/FI(67)4,ROMA, 1967. (19)
- PARKER,K.,AWRE-O-82/63,1963. (210)
- PATTENDEN,N.J.,NUCL.SCI.ENG.,17(1963)371. (16)
- PEARLSTEIN,S.,CONFERENCE ON NEUTRON CROSS SECTION TECHNOLOGY, CONF-660303,BOOK 1,P.251,WASHINGTON 22-24 MARCH 1966. (228)
- PEARLSTEIN,S.,MILLIGAN,R.F.,NUCL.SCI.ENG.,26(1966)281. (346)
- PERKINS,S.T.,AUCHAMPAUGH,G.F.,HOFF,R.W.,BOWMAN,C.D.,NUCL.SCI.ENG.,32 (1968)131. (284)
- PERSIANI,P.J.,KAGANOVE,J.J.,MC ARTY,A.E.,TID-18590,1963. (252)
- PIERCE,C.R.,SHOOK,D.F.,BOGART,D.,NASA-TN5628,1970. (138)
- PIERCE,C.R.,NASA/D-4938,1968. (141)
- PIERCE,C.R.,SHOOK,D.F.,NUCL.SCI.ENG.,31(1968)431. (121)
- PILCHER,V.E.,HUGHES,D.J.,HARVEY,J.A.,BULL AM.PHYS.SOC.,1(1956)187. (227)
- PONCELET,L.G.,ARGONNE CODE CENTER ABSTRACT 249,WCAP-6073,1966. (255)
- POPE,A.L.,AEEW-M-1266,1974(SEE ALSO AEEW-M-1234,1973 AND AEEW-M-1191, 1973). (34)
- PRINCE,A.,TRANS.AM.NUCL.SOC.,10(1967)228(SEE ALSO REF.259). (272)
- PRINCE,A.,68WASH,2(1968)951(SEE ALSO REF.272). (259)
- PROKHOROV,YU.A.,INDSWG-64,1964,P.75. (17)
- RAHN,F.J.,CAMARDA,H.S.,HACKEN,G.,HAVENS JR.W.W.,LIOU,H.I., RAINWATER,J.,SLAGOWITZ,M.,WYNCHANK,S.,NUCL.SCI.ENG.,49(1972)219. (83)
- RAHN,F.J.,HO,C.,TRANS.AM.NUCL.SOC.,12(1969)749. (82)
- REYNONS,S.A.,MULLINS,W.T.,ORNL-4466,1970,P.74. (407)
- REYNOLDS,J.T.,LUBITZ,C.R.,ITKIN,I.,HARRIS,D.R.,KAPL-3327(ENDF-112), 1967. (105)
- RIBON,P.,KREPS,J.,73 BOLOGNA,REVIEW PAPER NO.10(1973) OR IAEA-169, FISSION PRODUCT NUCLEAR DATA,1(1974)235. (5)
- RICABARRA,M.D.,TURJANSKI,R.,RICABARRA,G.H.,BIGHAM,C.B.,CAN J.PHYS.,46 (1968)2473. (20)
- RICABARRA,M.D.,TURJANSKI,R.,RICABARRA,G.H.,CAN.J.PHYS.,51(1973)1454. (66)
- RICABARRA,M.D.,TURJANSKI,R.,RICABARRA,G.H.,CAN.J.PHYS.,47(1969)2031. (109)
- RICABARRA,G.H.,TURJANSKI,R.,RICABARRA,M.D.,CN-26/1,1970(THE SAME AS 70 HELS,2(1970)589). (92)
- ROGERS,J.W.,SCOVILLE,J.J.,NUCL.SCI.ENG.,33(1968)350. (104)
- ROGERS,J.W.,SCOVILLE,J.J.,TRANS.AM.NUCL.SOC.,10(1967)259(SEE ALSO REF.55). (53)
- ROSE,H.,COOPER,W.A.,TATTERSALL,R.B.,2ND PROC.CONF.PEACEFUL USES OF ATOMIC ENERGY,IAEA,GENEVA,1(1958)16. (41)
- ROY,J.C.,WUSCHE,D.,CAN.J.CHEM.,36(1958)1424. (31)
- ROY,J.C.,ROY,L.P.,CAN.J.PHYS.,37(1959)907. (64)
- RUITZ,C.P.,PETERSON JR,J.P.,RIDER,B.F.,TRANS.AM.NUCL.SOC.,7(1964)270. (87)
- RUSCHE,B.C.,TRANS.AM.NUCL.SOC.,14(1971)344. (278)
- RYABOV,UY.V.,SO DON-SIK,CHIKOV,N.,YANEVA,N.,AT.ENERG.(USSR),24(1968) 351(TRANSL.IN SOVIET ATOMIC ENERGY,24(1968)435). (216)
- RYVES,T.B.,HUNT,J.B.,GOODIER,I.W.,J.NUCL.ENERGY,22(1968)485. (327)
- RYVES,T.B.,J.NUCL.ENERGY,24(1970)35. (23)

- RYVES,T.B.,J.NUCL.ENERGY,25(1971)129(SEE ALSO REF.304). (57)
- RYVES,T.B.,ZIEBA,K.J.,J.PHYS.A,7(1974)2318. (145)
- RYVES,T.B., NUCLEAR SCIENCE AND ENGINEERING, 72(1979)357. (425)
- SAGE,L.,FURR,A.K.,TRANS.AMER.NUCL.SOC.,23(1976)501. (398)
- SAKATA,H.H.,NAGAYAMA,S.,JAP.ATOMIC ENERGY RESEARCH,TOKAI,UNPUBLISHED (SEE REF.5). (27)
- SAMSON,J.B.,GA-3069,1962. (168)
- SANTRY,D.C.,WERNER,R.D.,CAN.J.PHYSICS,51(1973)2441. (393)
- SCHENTER,R.E.,PRIVATE COMMUNICATIONS TO NEA/DATA BANK, CALCULATIONS FROM ENDF/B-IV LIBRARY,HANFORD ENG. DEVELOPMENT LABORATORY, RICHLAND,WASH.USA,1975. (24)
- SCHMIDT,J.J.,KFK-120,1966. (254)
- SCHNEIDER,E.,EANDC(E)89,1968,P.43. (148)
- SCHUMAN,R.P.,WASH-1136,1969,PAGES 51,53 AND 53(SEE ALSO REF.113, REF.288 AND IN-1317,1969). (279)
- SCHUMAN,R.P.,WASH-1124,1968,P.72(SEE ALSO REF.113,279). (288)
- SCHUMAN,R.P.,BERRETH,J.R.,IN-1296,1969. (113)
- SCHUMAN,R.P.,IDO-16760,1961,P.13. (352)
- SCHUMAN,R.P.,IN-1126,MTR,USA,1967,P.19. (422)
- SCHUMAN,R.P.,BERRETH,J.R.,NUCL.SCI.ENG.,12(1962)519. (69)
- SCOVILLE,J.J.,ROGERS,J.W.,IN-1195,1968 (SEE ALSO REF.53). (55)
- SCOVILLE,J.J.,FAST,E.,PARKINSON,T.F.,REACTOR PHYS.CONST.CENTER NEWS LETTER NO.10,1965. (366)
- SCOVILLE,J.J.,ET AL.,WASH-1041,1962,P.37. (328)
- SCOVILLE,J.J.,ROGERS,J.W.,TRANS.AM.NUCL.SOC.,8(1965)290. (91)
- SCOVILLE,J.J.,KNIGHT,D.W.,FAST,E.,TRANS.AM.NUCL.SOC.,5(1962)377. (93)
- SCOVILLE,J.J.,FAST,E.,KNIGHT,D.W.,NUCL.SCI.ENG.,18(1964)400. (94)
- SCOVILLE,J.J.,FAST,E.,ROGERS,J.W.,NUCL.SCI.ENG.,25(1966)12. (95)
- SCOVILLE,J.J.,FAST,E.,WASH-1053,1964,P.78. (283)
- SEHGAL,B.R.,TRANS.AM.NUCL.SOC.,6(1963)41. (235)
- SEKINE,T.,BABA,H., J.INORG.NUCL.CHEMISTRY,40(1978)1977. (430)
- SHER,R.,LESAGE,L.,CONNOLLY,T.J.,BORWN,H.L.,TRANS.AM.NUCL.SOC.,9(1966) 248. (131)
- SHER,R.,PERSONAL COMMUNICATION CITED IN NEA/DATA BANK INTERNAL FILE(SEE ALSO "KEY TO NOTES" NO.16). (142)
- SHOOK,D.F.,PIERCE,C.R.,TRANS.AM.NUCL.SOC.,10(1967)261. (132)
- SHWE,H.,COTE,R.E.,PRESTWICH,W.V.,PHYS.REV.,159(1967)1050. (54)
- SHWE,H.,COTE,R.E.,PHYS.REV.,179(1969)1148. (355)
- SIMONS,R.L.,MC ELROY,W.N.,BNWL-1312(UC-34)1970. (154)
- SIMPSON,F.B.,BURGOS,W.H.,EVANS,J.E.,KIRBY,H.W.,NUCL.SCI.ENG.,12(1962) 243. (181)
- SIMPSON,F.B.,CODDING JR,J.W.,NUCL.SCI.ENG.,28(1967)133. (187)
- SIMPSON,F.B.,SCHUMAN,R.P.,TRANS.AM.NUCL.SOC.,6(1963)43. (249)
- SIMPSON,O.D.,SIMPSON,F.B.,HARVEY,J.A.,SLAUGHTER,G.G.,BENJAMIN,R.W., AHLFELD,C.E.,NUCL.SCI.ENG.,55(1974)273. (285)
- SIMS,G.H.E.,JUHNKE,D.G.,J.INORG.NUCL.CHEM.,29(1967)2671. (84)
- SIMS,G.H.E.,JUHNKE,D.G.,J.INORG.NUCL.CHEM.,31(1969)3721. (317)
- SIMS,G.H.E.,JUHNKE,D.G.,J.INORG.NUCL.CHEM.,30(1968)349. (46)
- SIMS,G.H.,J.INORG.NUCL.CHEM.,29(1967)593. (316)
- SIMS,G.H.,JUHNKE,D.G.,J.INORG.NUCL.CHEM.,29(1967)2853. (345)
- SIMS,G.H.E.,JUHNKE,D.G.,J.INORG.NUCL.CHEM.,32(1970)2839. (102)
- SINGH,U.N.,BLOCK,R.C.,NAKAGOME,Y.,NUCL.SCIENCE ENG.,67(1980)54. (445)
- SKOLNIK,W.,FRANCIS,N.C.,TRANS .AMER.NUCL.SOC.,2(1959)135. (418)
- SKOLNIK,W.,FRANCIS,N.C.,TRANS.AM.NUCL.SOC.,2(1959)121. (349)
- SLOVACEK,R.E.,CRAMER,D.S.,BEAN,E.B.,HOCKENBURY,R.W.,VALENTINE,J.R., BLOCK,R.C.,NUC.SCI.ENG.,62(1977)455 (SEE ALSO BULL.AM.PHYS.SOC., (397)

20(1975)581).
- SMITH.,JHAYBANICK,C.J.,FOLGER,R.L.,HOLCOMB,H.P.H.,RITCHER,I.B., 68WASH,2(1968)1285. (306)
- SMITH,R.R.,PASSEL,T.O.,REEDER,S.D.,ALLEY,N.P.,HEATH,R.L., (175)

20(1975)581).
- SMITH.,JHAYBANICK,C.J.,FOLGER,R.L.,HOLCOMB,H.P.H.,RITCHER,I.B., (306)
68WASH,2(1968)1285.
- SMITH,R.R.,PASSEL,T.O.,REEDER,S.D.,ALLEY,N.P.,HEATH,R.L., (175)
IDO-16226,1955.
- SNIDOW,N.L.,ADVANCED PRODUCTS ENG.DEPART.,BAW-393-5,1966. (195)
- SOKOLOWSKI,E.K.,BLADH,R.,REP.AE-351,1969. (376)
- SPENCER,J.D.,BAUMANN,N.P.,TRANS.AM.NUCL.SOC.12(1969)284. (244)
- SPIVAK,P.E.,EROZOLIMSKY,B.G.,LAVERENCHIK,V.I.,PROC.CONF.PEACEFUL USES (12)
OF ATOMIC ENERGY,GENEVA,5(1956)91.
- SPIVAK,P.E.,ET AL.,PROC.OF INTERN.CONF.ON PEACEFUL USES OF ATOMIC (304)
ENERGY,GENEVA,5(1956)172.
- SPIVAK,P.E.,ET AL.,PROC.OF INTERN.CONF.ON PEACEFUL USES OF ATOMIC (304)
- STEEN,N.M.,WAPD-TM-971,1970. (171)
- STEINNES,E.,J.INORG.NUCL.CHEM.,37(1975)1591. (59)
- STEINNES,E.,J.INORG.NUCL.CHEM.,34(1972)2699. (47)
- STEPHENSON,T.E.,BNL961(T-401),1965. (315)
- STIEGLITZ,R.G.,HOCKENBURG,R.W.,BLOCK,R.C.,NUCL.PHYS.,A163(1971)592. (324)
- STIPPEL,E.S.,ORNL-TR-1365,1965. (39)
- STOKES,G.E.,SCHUMAN,R.P.,SIMPSON,O.D.,NUCL.SCI.ENG.,33(1968)16(SEE (110)
ALSO TRANS.AM.NUCL.SOC.,6(1963)41).
- STORY,J.S.,REP.AEEW-M122,1961. (343)
- STOUGTON,R.W.,HALPERIN,J.,DRUSCHEL,R.E.,JOHNSTON,F.J.,LANTZ,P.M., (414)
OLIVER,J.H.,PARKER,G.W.,60VIENNA,1960,P.239.
- STOUGHTON,R.W.,HALPERIN,J.,NUCL.SCI.ENG.,6(1959)100. (207)
- TATTERSALL,R.B.,ROSE,H.,PATTENDEN,S.K.,JOWITT,D.,J.NUCL.ENERGY,12 (14)
(1960)32.
- THOMPSON,M.C.,HYDER,M.L.,REULAND,R.J.,J.INORG.NUCL.CHEM.,33(1971)1553 (289)
- TIREN,L.I.,JENKINS,J.M.,UK AEE REPORT AEEW-R,1962,P.163. (167)
- UNDERHILL,G.K.,DISSERTATION ABSTRACTS SECTION B,34(1974)6026. (219)
- VAN DER LINDEN,R.,DE CORTE,F.,VAN DEN WINKEL,P.,HOSTER,J.,J.RADIONAL. (312)
CHEM.,11(1972)133.
- VAN DER LINDEN,R.,DE CORTE,F.,HOSTE,J., J.RADIOANAL.CHEM.,20(1974)695 (29)
(SEE ALSO 73PARIS,IAEA,2(1973)241.
- VIDAL,R.,CARDOSO-MARTINHO,E.,CEA-R-2840,1965 (SEE ALSO CEA-R-2486, (44)
1964 AND REF.45).
- VIDAL,R.,EANDC(E)-57,1965,P.170(SEE ALSO EANDC(E)-57,1965,P.171 (68)
AND REF.45).
- WAGEMANS,C.,DERUYTTER,A.J.,NUCL.SCI.ENG.,60(1976)44(SEE ALSO 75WASH, (270)
GB17,1975).
- WAGEMANS,C.,DERUYTTER,A.J.,PERSONNAL COMMUNICATION CITED IN NEA DB (220)
FILE (SEE "KEY TO NOTES",NR.16).1976.

- WALKER,W.H.,AECL-3037,PART I,1972. (25)
- WALKER,W.H.,WESTCOTT,C.H.,ALEXANDER,T.K.,CAN.J.PHYS.,38(1960)57. (266)
- WALKER,W.H.,GREEN,R.E.,CAN.J.PHYS.,39(1961)1184. (79)
- WALKER,W.H.,COPLEY,L.A.,CAN.J.PHYS.,44(1966)1985. (362)
- WALL,T.,AAEC/TM466,1968. (129)
- WEBSTER,J.W.,ORNL-TM-1448,1966. (242)
- WERNER,R.D.,EASTWOOD,T.A.,NUCL.SCI.ENG.,21(1965)20. (361)
- WESTCOTT,C.H.,WALKER,W.H.,ALEXANDER,T.K.,2ND INT.CONF.PEACEFUL USES (292)
OF ATOMIC ENERGY,IAEA,GENEVA,16(1958)70.
- WESTON,L.W.,GWIN,R.,DE SAUSSURE,G.,FULLWOOD,R.R.,HOCKENBURY,R.W., (200)
NUCL.SCI.ENG.,34(1968)1(SEE ALSO TRANS.AM.NUCL.SOC.,10(1967)220).
- SHER,R.,68WASH,1(1968)253. (406)
- WINTERS,R.R.,MACKLIN,R.L.,HALPERIN,J.,PHYS.REV.C,18(1978)2092. (405)

- WOLF,G.,NUKLEONIK,2(1960)255. (144)
- YASUNO,T.,NUCL.SCI.TECHN.,2(1965)532. (194)
- YASUNO,T.,NUCL.SCI.TECHN.,4(1967)43. (257)
- YOUNG,T.E.,SIMPSON,F.B.,BERRETH,J.R.,COOPS,M.S.,NUCL.SCI.ENG.,30 (1967)355. (250)
- YOUNG,T.E.,REEDER,S.D.,NUCL.SCI.ENG.,40(1970)389. (277)
- ZHURAVLEV,K.D.,KROSKIN,N.I.,UJETVJERIKOV,A.P.,AT.ENERG.(USSR),39 (1975)285. (301)
- ZHURAVLEV,K.D.,KROSHKIN,N.I., SOVIET ATOMIC ENERGY 47(1979)565. (439)
- ZIJP,W.L.,NUCLEAR DATA IN SCIENCE AND TECHN.,IAEA,VIENNA,2(1973)271. (98)