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1 RR_UNC - Calculate uncertainties in reaction rates
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4 Version Jul. 2019
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6
7 Reference x.s. file      :
8 ..\IRDFF-II.g725
9 Source spectrum file    :
10 ..\IRDFF-II_sp.g
11 Reaction rate integ.flag :      1
12 Reaction rate norm. flag :      1
13
14 Spectrum MAT No.       :    9901
15 Spectrum Integral      :    1.128E+00
16 Spectrum average energy [eV] :    5.061E-02
17 Spectrum peak energy [eV] :    2.530E-02
18 Reaction rate RR = spectrum integral

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No.	Mat.	MT	E(50%) [MeV]	<RR> +/- [mb]	Unc	Unc. x.s. [%]	Unc. Sp. [%]	Unc. Total [%]
19	1	3000	3.008-8	7.2424E+04	+/- 0.000E+00	0.00	0.00	0.00
20	2	3000	4.083-8	1.1488E+03	+/- 0.000E+00	0.00	0.00	0.00
21	3	3000	2.992-8	7.1210E+04	+/- 3.621E+02	0.51	0.00	0.51
22	4	3000	2.992-8	7.1294E+04	+/- 3.621E+02	0.51	0.00	0.51
23	5	3006	2.993-8	9.3939E+05	+/- 0.000E+00	0.00	0.00	0.00
24	6	3006	4.060-8	8.7426E+02	+/- 0.000E+00	0.00	0.00	0.00
25	7	3006	2.992-8	9.3821E+05	+/- 4.770E+03	0.51	0.00	0.51
26	8	3006	2.992-8	9.3821E+05	+/- 4.770E+03	0.51	0.00	0.51
27	9	3006	2.992-8	9.3821E+05	+/- 4.770E+03	0.51	0.00	0.51
28	10	3007	4.041-8	1.2168E+03	+/- 0.000E+00	0.00	0.00	0.00
29	11	3007	4.084-8	1.1714E+03	+/- 0.000E+00	0.00	0.00	0.00
30	12	3007	2.993-8	9.0874E+01	+/- 3.393E+00	3.73	0.00	3.73
31	13	5000	2.998-8	7.7082E+05	+/- 0.000E+00	0.00	0.00	0.00
32	14	5000	4.138-8	5.0642E+03	+/- 0.000E+00	0.00	0.00	0.00
33	15	5000	2.992-8	7.6525E+05	+/- 0.000E+00	0.00	0.00	0.00
34	16	5000	2.993-8	1.3431E+00	+/- 4.029E-01	30.00	0.00	30.00
35	17	5000	2.992-8	7.6517E+05	+/- 5.935E+03	0.78	0.00	0.78
36	18	5010	2.992-8	3.8505E+06	+/- 0.000E+00	0.00	0.00	0.00
37	19	5010	4.129-8	2.4734E+03	+/- 0.000E+00	0.00	0.00	0.00
38	20	5010	2.992-8	3.8454E+06	+/- 0.000E+00	0.00	0.00	0.00
39	21	5010	2.992-8	3.8450E+06	+/- 2.982E+04	0.78	0.00	0.78
40	22	5010	2.993-8	6.7492E+00	+/- 2.025E+00	30.00	0.00	30.00
41	23	5010	2.992-8	3.8451E+06	+/- 2.982E+04	0.78	0.00	0.78
42	24	5010	2.992-8	2.4218E+05	+/- 2.049E+03	0.85	0.00	0.85
43	25	5010	2.992-8	3.6029E+06	+/- 2.975E+04	0.83	0.00	0.83
44	26	5011	4.138-8	5.7151E+03	+/- 0.000E+00	0.00	0.00	0.00
45	27	5011	4.139-8	5.7096E+03	+/- 0.000E+00	0.00	0.00	0.00
46	28	11023	4.025-8	3.9808E+03	+/- 0.000E+00	0.00	0.00	0.00
47	29	11023	4.193-8	3.4445E+03	+/- 0.000E+00	0.00	0.00	0.00
48	30	11023	2.993-8	5.3619E+02	+/- 8.432E+00	1.57	0.00	1.57
49	31	21045	3.567-8	5.2919E+04	+/- 0.000E+00	0.00	0.00	0.00
50	32	21045	4.218-8	2.5705E+04	+/- 0.000E+00	0.00	0.00	0.00
51	33	21045	2.992-8	2.7212E+04	+/- 1.868E+03	6.86	0.00	6.86
52	34	25055	3.167-8	1.5670E+04	+/- 0.000E+00	0.00	0.00	0.00
53	35	25055	4.224-8	2.3889E+03	+/- 0.000E+00	0.00	0.00	0.00
54	36	25055	2.993-8	1.3280E+04	+/- 1.475E+02	1.11	0.00	1.11
55	37	26000	24051g	0 1.2102E-02	+/- 1.180E-03	9.75	0.00	9.75
56	38	26000	25054g	0 1.3318E-18	+/- 1.263E-18	94.86	0.00	94.86
57	39	26054	3.615-8	4.7174E+03	+/- 0.000E+00	0.00	0.00	0.00
58	40	26054	4.223-8	2.4633E+03	+/- 0.000E+00	0.00	0.00	0.00
59	41	26054	4.223-8	2.2784E-17	+/- 2.162E-17	94.87	0.00	94.87
60	42	26054	2.993-8	2.0705E-01	+/- 2.018E-02	9.75	0.00	9.75
61	43	26058	4.054-8	9.8266E+03	+/- 0.000E+00	0.00	0.00	0.00
62	44	26058	4.225-8	8.5117E+03	+/- 0.000E+00	0.00	0.00	0.00
63	45	26058	2.993-8	1.3148E+03	+/- 6.668E+01	5.07	0.00	5.07
64	46	27059	3.170-8	4.4000E+04	+/- 0.000E+00	0.00	0.00	0.00

68	47	27059	2	4.225-8	6.8079E+03	+/-	0.000E+00	0.00	0.00	0.00
69	48	27059	102	2.993-8	3.7190E+04	+/-	2.417E+02	0.65	0.00	0.65
70	49	29000	29064g	2.992-8	3.0911E+03	+/-	1.279E+02	4.14	0.00	4.14
71	50	29063	1	3.671-8	1.0275E+04	+/-	0.000E+00	0.00	0.00	0.00
72	51	29063	2	4.226-8	5.8049E+03	+/-	0.000E+00	0.00	0.00	0.00
73	52	29063	102	2.992-8	4.4701E+03	+/-	1.852E+02	4.14	0.00	4.14
74	53	30000	29067g	2.993-8	4.9713E-02	+/-	1.243E-02	25.00	0.00	25.00
75	54	30067	103	2.993-8	1.2305E+00	+/-	3.076E-01	25.00	0.00	25.00
76	55	30068	1	4.022-8	6.6471E+03	+/-	0.000E+00	0.00	0.00	0.00
77	56	30068	2	4.228-8	5.5769E+03	+/-	0.000E+00	0.00	0.00	0.00
78	57	41093	1	4.056-8	8.3396E+03	+/-	0.000E+00	0.00	0.00	0.00
79	58	41093	2	4.232-8	7.1901E+03	+/-	0.000E+00	0.00	0.00	0.00
80	59	41093	102	2.992-8	1.1494E+03	+/-	4.590E+01	3.99	0.00	3.99
81	60	41093	41094g	2.992-8	2.8705E+02	+/-	1.146E+01	3.99	0.00	3.99
82	61	41093	41094m	2.992-8	8.6236E+02	+/-	3.444E+01	3.99	0.00	3.99
83	62	47109	1	3.055-8	9.3835E+04	+/-	0.000E+00	0.00	0.00	0.00
84	63	47109	2	4.220-8	2.7861E+03	+/-	0.000E+00	0.00	0.00	0.00
85	64	47109	47110n	3.022-8	4.2328E+03	+/-	2.158E+02	5.10	0.00	5.10
86	65	48000	1	4.523-8	3.2723E+06	+/-	0.000E+00	0.00	0.00	0.00
87	66	48000	2	5.757-8	1.1918E+04	+/-	0.000E+00	0.00	0.00	0.00
88	67	48000	101	4.519-8	3.2603E+06	+/-	0.000E+00	0.00	0.00	0.00
89	68	49000	49114m	3.065-8	3.5331E+02	+/-	1.434E+01	4.06	0.00	4.06
90	69	49113	1	3.347-8	1.6358E+04	+/-	0.000E+00	0.00	0.00	0.00
91	70	49113	2	4.231-8	4.1566E+03	+/-	0.000E+00	0.00	0.00	0.00
92	71	49113	102	3.065-8	1.2201E+04	+/-	0.000E+00	0.00	0.00	0.00
93	72	49113	49114g	3.065-8	3.9653E+03	+/-	1.610E+02	4.06	0.00	4.06
94	73	49113	49114m	3.065-8	8.2357E+03	+/-	3.343E+02	4.06	0.00	4.06
95	74	49115	1	3.117-8	2.0901E+05	+/-	0.000E+00	0.00	0.00	0.00
96	75	49115	2	4.198-8	2.8178E+03	+/-	0.000E+00	0.00	0.00	0.00
97	76	49115	102	3.104-8	2.0619E+05	+/-	0.000E+00	0.00	0.00	0.00
98	77	49115	49116g	3.104-8	4.3299E+04	+/-	4.406E+02	1.02	0.00	1.02
99	78	49115	49116m	3.104-8	1.6289E+05	+/-	1.657E+03	1.02	0.00	1.02
100	79	57139	1	3.753-8	2.4049E+04	+/-	0.000E+00	0.00	0.00	0.00
101	80	57139	2	4.235-8	1.5021E+04	+/-	0.000E+00	0.00	0.00	0.00
102	81	57139	102	2.994-8	9.0275E+03	+/-	3.477E+02	3.85	0.00	3.85
103	82	64000	1	2.752-8	4.1517E+07	+/-	0.000E+00	0.00	0.00	0.00
104	83	64000	2	3.746-8	1.6057E+05	+/-	0.000E+00	0.00	0.00	0.00
105	84	64000	101	2.749-8	4.1356E+07	+/-	0.000E+00	0.00	0.00	0.00
106	85	73181	1	3.282-8	2.7126E+04	+/-	0.000E+00	0.00	0.00	0.00
107	86	73181	2	4.233-8	6.3850E+03	+/-	0.000E+00	0.00	0.00	0.00
108	87	73181	102	3.009-8	2.0740E+04	+/-	6.222E+02	3.00	0.00	3.00
109	88	74186	1	3.003-8	3.8247E+04	+/-	0.000E+00	0.00	0.00	0.00
110	89	74186	2	4.364-8	9.9288E+01	+/-	0.000E+00	0.00	0.00	0.00
111	90	74186	102	3.000-8	3.8147E+04	+/-	1.906E+03	5.00	0.00	5.00
112	91	79197	1	3.118-8	1.0855E+05	+/-	0.000E+00	0.00	0.00	0.00
113	92	79197	2	4.230-8	9.3600E+03	+/-	0.000E+00	0.00	0.00	0.00
114	93	79197	102	3.021-8	9.9190E+04	+/-	4.926E+02	0.50	0.00	0.50
115	94	90232	1	3.796-8	2.2008E+04	+/-	0.000E+00	0.00	0.00	0.00
116	95	90232	2	4.237-8	1.4711E+04	+/-	0.000E+00	0.00	0.00	0.00
117	96	90232	18	2.990-8	5.3770E-02	+/-	1.882E-02	35.00	0.00	35.00
118	97	90232	102	2.958-8	7.2965E+03	+/-	9.337E+01	1.28	0.00	1.28
119	98	92235	1	2.886-8	6.8909E+05	+/-	0.000E+00	0.00	0.00	0.00
120	99	92235	18	2.873-8	5.7464E+05	+/-	2.839E+03	0.49	0.00	0.49
121	100	92238	1	3.977-8	1.3113E+04	+/-	0.000E+00	0.00	0.00	0.00
122	101	92238	2	4.239-8	1.0492E+04	+/-	0.000E+00	0.00	0.00	0.00
123	102	92238	18	2.999-8	1.8536E-02	+/-	1.765E-03	9.52	0.00	9.52
124	103	92238	102	3.001-8	2.6876E+03	+/-	2.784E+01	1.04	0.00	1.04
125	104	93237	1	2.990-8	1.9060E+05	+/-	0.000E+00	0.00	0.00	0.00
126	105	93237	2	4.197-8	1.7731E+04	+/-	0.000E+00	0.00	0.00	0.00
127	106	93237	18	2.825-8	1.9873E+01	+/-	5.446E-01	2.74	0.00	2.74
128	107	94239	1	3.357-8	1.1051E+06	+/-	0.000E+00	0.00	0.00	0.00
129	108	94239	2	4.153-8	8.9096E+03	+/-	0.000E+00	0.00	0.00	0.00
130	109	94239	18	3.256-8	7.8612E+05	+/-	7.545E+03	0.96	0.00	0.96
131	110	95241	1	2.891-8	6.1555E+05	+/-	0.000E+00	0.00	0.00	0.00
132	111	95241	2	4.081-8	1.2121E+04	+/-	0.000E+00	0.00	0.00	0.00
133	112	95241	18	2.943-8	3.0601E+03	+/-	6.120E+01	2.00	0.00	2.00
134										
135										