

RR_UNC - Calculate uncertainties in reaction rates

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Reference x.s. file : IRDFF-v1-05.g60
 Source spectrum file : IRDFF-v1-05_sp.g60
 Reaction rate integ.flag : 1
 Reaction rate norm. flag : 1

Spectrum MAT No. : 9902
 Spectrum Integral : 1.512E+01
 Spectrum average energy [eV] : 1.324E+05
 Spectrum peak energy [eV] : 5.624E-01
 Reaction rate RR = spectrum integral

No.	Mat.	MT	E(50%) [MeV]	<RR>	+/- [mb]	Unc	Unc. x.s. [%]	Unc. Sp. [%]	Unc. Total [%]
1	3006	105	2.216-6	4.0426E+05	+/-	5.304E+02	0.13	0.00	0.13
2	5000	1	2.998-6	3.8987E+05	+/-	0.000E+00	0.00	0.00	0.00
3	5000	2	7.516-4	6.2232E+04	+/-	0.000E+00	0.00	0.00	0.00
4	5000	101	2.190-6	3.2732E+05	+/-	0.000E+00	0.00	0.00	0.00
5	5000	102	2.211-6	4.4513E+01	+/-	0.000E+00	0.00	0.00	0.00
6	5000	103	1.61856	8.6804E-01	+/-	0.000E+00	0.00	0.00	0.00
7	5000	107	2.190-6	3.2727E+05	+/-	0.000E+00	0.00	0.00	0.00
8	5010	1	2.274-6	1.6820E+06	+/-	0.000E+00	0.00	0.00	0.00
9	5010	2	2.134-3	3.5549E+04	+/-	0.000E+00	0.00	0.00	0.00
10	5010	107	2.190-6	1.6445E+06	+/-	0.000E+00	0.00	0.00	0.00
11	5010	800	2.205-6	1.0377E+05	+/-	2.519E+02	0.24	0.00	0.24
12	5010	801	2.189-6	1.5407E+06	+/-	1.250E+03	0.08	0.00	0.08
13	11023	1	2.835-3	1.2917E+05	+/-	0.000E+00	0.00	0.00	0.00
14	11023	2	2.834-3	1.2835E+05	+/-	0.000E+00	0.00	0.00	0.00
15	11023	102	5.105-6	3.0518E+02	+/-	9.162E+00	3.00	0.00	3.00
16	13027	103	1.94994	9.0388E-07	+/-	2.023E-07	22.39	0.00	22.39
17	15031	103	1.83096	2.6295E+00	+/-	2.884E-01	10.97	0.00	10.97
18	16032	103	1.89662	1.2714E+00	+/-	1.501E-01	11.80	0.00	11.80
19	21045	1	1.201-4	2.4075E+05	+/-	0.000E+00	0.00	0.00	0.00
20	21045	2	1.746-4	2.2870E+05	+/-	0.000E+00	0.00	0.00	0.00
21	21045	102	2.092-6	1.1322E+04	+/-	8.621E+02	7.61	0.00	7.61
22	22047	103	1.71031	3.1327E+00	+/-	1.619E-01	5.17	0.00	5.17
23	25055	1	3.628-4	6.3291E+05	+/-	0.000E+00	0.00	0.00	0.00
24	25055	102	3.073-4	1.3257E+04	+/-	5.265E+02	3.97	0.00	3.97
25	26054	103	1.78767	2.4617E+00	+/-	4.751E-01	19.30	0.00	19.30
26	26058	1	1.433-3	1.1552E+05	+/-	0.000E+00	0.00	0.00	0.00
27	26058	102	2.318-4	1.2555E+03	+/-	6.193E+01	4.93	0.00	4.93
28	27059	1	1.322-4	8.6852E+05	+/-	0.000E+00	0.00	0.00	0.00
29	27059	2	1.324-4	7.9308E+05	+/-	0.000E+00	0.00	0.00	0.00
30	27059	102	1.295-4	7.5117E+04	+/-	5.765E+02	0.77	0.00	0.77
31	27059	103	1.82759	2.0814E-04	+/-	1.877E-04	90.19	0.00	90.19
32	27059	107	1.32917	1.0755E-05	+/-	1.036E-05	96.28	0.00	96.28
33	28058	103	1.73247	8.9770E+00	+/-	3.198E-01	3.56	0.00	3.56
34	29063	1	2.084-3	1.1474E+05	+/-	0.000E+00	0.00	0.00	0.00
35	29063	2	2.096-3	1.0937E+05	+/-	0.000E+00	0.00	0.00	0.00
36	29063	102	5.822-4	4.8643E+03	+/-	2.058E+02	4.23	0.00	4.23
37	30064	103	1.80934	1.0013E+00	+/-	8.524E-02	8.51	0.00	8.51
38	30067	103	2.278-4	4.0358E+00	+/-	9.942E-01	24.63	0.00	24.63
39	41093	1	1.825-3	1.1912E+05	+/-	1.612E+03	1.35	0.00	1.35
40	41093	2	2.091-3	1.0930E+05	+/-	2.067E+03	1.89	0.00	1.89
41	41093	102	7.308-4	8.7456E+03	+/-	2.955E+02	3.38	0.00	3.38
42	41093	41093m	1.37724	1.1512E+02	+/-	5.095E+00	4.43	0.00	4.43
43	41093	41094g	7.308-4	2.1841E+03	+/-	0.000E+00	0.00	0.00	0.00
44	41093	41094m	7.308-4	6.5616E+03	+/-	0.000E+00	0.00	0.00	0.00
45	42092	41092m	1.84473	6.0844E-02	+/-	1.528E-02	25.12	0.00	25.12
46	45103	45103m	1.10537	8.8238E+02	+/-	3.845E+01	4.36	0.00	4.36
47	47109	1	5.184-6	1.7109E+06	+/-	0.000E+00	0.00	0.00	0.00
48	47109	47110n	5.166-6	6.8512E+04	+/-	4.765E+03	6.96	0.00	6.96
49	48000	1	1.428-4	1.7386E+05	+/-	0.000E+00	0.00	0.00	0.00
50	48000	2	7.456-4	1.1689E+05	+/-	0.000E+00	0.00	0.00	0.00
51	48000	101	1.007-6	5.5271E+04	+/-	0.000E+00	0.00	0.00	0.00
52	48000	102	1.007-6	5.5271E+04	+/-	0.000E+00	0.00	0.00	0.00
53	48000	103	1.89521	6.4897E-05	+/-	0.000E+00	0.00	0.00	0.00
54	48000	107	1.60356	6.1331E-03	+/-	0.000E+00	0.00	0.00	0.00
55	49113	1	1.465-5	4.3898E+05	+/-	0.000E+00	0.00	0.00	0.00
56	49113	2	8.824-4	1.0569E+05	+/-	0.000E+00	0.00	0.00	0.00
57	49113	102	4.833-6	3.3318E+05	+/-	0.000E+00	0.00	0.00	0.00

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58 49113 49113m 1.53915 9.4121E+01 +/- 1.663E+00 1.77 0.00 1.77
59 49113 49114g 4.795-6 1.0799E+05 +/- 9.434E+03 8.74 0.00 8.74
60 49113 49114m 4.851-6 2.2518E+05 +/- 1.959E+04 8.70 0.00 8.70
61 49115 1 1.456-6 3.4279E+06 +/- 0.000E+00 0.00 0.00 0.00
62 49115 2 1.568-6 2.1311E+05 +/- 0.000E+00 0.00 0.00 0.00
63 49115 102 1.454-6 3.2142E+06 +/- 0.000E+00 0.00 0.00 0.00
64 49115 49115m 1.49689 1.2742E+02 +/- 2.860E+00 2.24 0.00 2.24
65 49115 49116g 1.454-6 6.7498E+05 +/- 2.099E+04 3.11 0.00 3.11
66 49115 49116n 1.454-6 2.5392E+06 +/- 7.895E+04 3.11 0.00 3.11
67 57139 1 8.070-5 1.4139E+05 +/- 0.000E+00 0.00 0.00 0.00
68 57139 2 1.604-4 1.2799E+05 +/- 0.000E+00 0.00 0.00 0.00
69 57139 102 7.262-5 1.1810E+04 +/- 6.544E+02 5.54 0.00 5.54
70 64000 1 2.112-5 5.7129E+05 +/- 0.000E+00 0.00 0.00 0.00
71 64000 2 6.297-4 1.8919E+05 +/- 0.000E+00 0.00 0.00 0.00
72 64000 101 6.130-6 3.7749E+05 +/- 0.000E+00 0.00 0.00 0.00
73 64000 102 6.130-6 3.7749E+05 +/- 0.000E+00 0.00 0.00 0.00
74 73181 1 1.023-5 9.1370E+05 +/- 0.000E+00 0.00 0.00 0.00
75 73181 2 1.222-4 2.4674E+05 +/- 0.000E+00 0.00 0.00 0.00
76 73181 102 4.452-6 6.5944E+05 +/- 2.498E+04 3.79 0.00 3.79
77 74186 1 1.869-5 3.6666E+06 +/- 0.000E+00 0.00 0.00 0.00
78 74186 2 1.870-5 3.1767E+06 +/- 0.000E+00 0.00 0.00 0.00
79 74186 102 1.862-5 4.8617E+05 +/- 2.193E+04 4.51 0.00 4.51
80 79197 1 4.903-6 1.9714E+06 +/- 0.000E+00 0.00 0.00 0.00
81 79197 2 8.971-6 3.9831E+05 +/- 0.000E+00 0.00 0.00 0.00
82 79197 102 4.878-6 1.5701E+06 +/- 3.250E+04 2.07 0.00 2.07
83 80199 80199m 1.51192 1.4819E+02 +/- 6.822E+00 4.60 0.00 4.60
84 90232 1 1.314-4 3.2668E+05 +/- 0.000E+00 0.00 0.00 0.00
85 90232 2 3.121-4 2.3774E+05 +/- 0.000E+00 0.00 0.00 0.00
86 90232 18 1.65677 3.6487E+01 +/- 7.715E-01 2.11 0.00 2.11
87 90232 102 2.398-5 8.4144E+04 +/- 1.755E+03 2.09 0.00 2.09
88 92235 1 2.409-5 5.6960E+05 +/- 0.000E+00 0.00 0.00 0.00
89 92235 18 1.662-5 2.6527E+05 +/- 8.988E+02 0.34 0.00 0.34
90 92235 102 1.668-5 1.3934E+05 +/- 1.871E+03 1.34 0.00 1.34
91 92238 1 3.676-5 6.1782E+05 +/- 0.000E+00 0.00 0.00 0.00
92 92238 18 1.67545 1.7417E+02 +/- 1.547E+00 0.89 0.00 0.89
93 92238 102 2.013-5 2.7535E+05 +/- 6.983E+03 2.54 0.00 2.54
94 93237 1 1.066-5 7.4315E+05 +/- 0.000E+00 0.00 0.00 0.00
95 93237 2 4.406-4 1.6546E+05 +/- 0.000E+00 0.00 0.00 0.00
96 93237 18 0.866 2.6206E+03 +/- 9.986E+01 3.81 0.00 3.81
97 94239 1 2.281-5 6.3412E+05 +/- 0.000E+00 0.00 0.00 0.00
98 94239 2 5.496-4 1.6820E+05 +/- 0.000E+00 0.00 0.00 0.00
99 94239 18 1.388-5 2.8231E+05 +/- 3.660E+03 1.30 0.00 1.30
100 95241 1 1.336-6 1.4043E+06 +/- 0.000E+00 0.00 0.00 0.00
101 95241 2 5.358-4 1.7138E+05 +/- 0.000E+00 0.00 0.00 0.00
102 95241 18 1.820-6 8.6860E+03 +/- 1.507E+02 1.74 0.00 1.74

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