

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 : 1Spectrum MAT No. : 9900
Spectrum Integral : 9.890E-01
Spectrum average energy [eV] : 2.474E-02
Spectrum peak energy [eV] : 2.474E-02
Reaction rate RR = spectrum integral

No.	Mat.	MT	E(50%) [MeV]	<RR>	+/- [mb]	Unc	Unc. x.s. [%]	Unc. Sp. [%]	Unc. Total [%]
1	3006	105	2.475-8	9.3884E+05	+/-	1.268E+03	0.14	0.00	0.14
2	5000	1	2.475-8	7.6964E+05	+/-	0.000E+00	0.00	0.00	0.00
3	5000	2	2.475-8	4.4687E+03	+/-	0.000E+00	0.00	0.00	0.00
4	5000	101	2.475-8	7.6478E+05	+/-	0.000E+00	0.00	0.00	0.00
5	5000	102	2.475-8	1.0389E+02	+/-	0.000E+00	0.00	0.00	0.00
6	5000	103	2.475-8	1.1264E-01	+/-	0.000E+00	0.00	0.00	0.00
7	5000	107	2.475-8	7.6467E+05	+/-	0.000E+00	0.00	0.00	0.00
8	5010	1	2.475-8	3.8473E+06	+/-	0.000E+00	0.00	0.00	0.00
9	5010	2	2.475-8	2.2665E+03	+/-	0.000E+00	0.00	0.00	0.00
10	5010	107	2.475-8	3.8441E+06	+/-	0.000E+00	0.00	0.00	0.00
11	5010	800	2.475-8	2.4179E+05	+/-	5.962E+02	0.25	0.00	0.25
12	5010	801	2.475-8	3.6023E+06	+/-	2.959E+03	0.08	0.00	0.08
13	11023	1	2.475-8	3.8911E+03	+/-	0.000E+00	0.00	0.00	0.00
14	11023	2	2.475-8	3.3575E+03	+/-	0.000E+00	0.00	0.00	0.00
15	11023	102	2.475-8	5.2820E+02	+/-	1.056E+01	2.00	0.00	2.00
16	21045	1	2.475-8	4.9751E+04	+/-	0.000E+00	0.00	0.00	0.00
17	21045	2	2.475-8	2.2538E+04	+/-	0.000E+00	0.00	0.00	0.00
18	21045	102	2.475-8	2.7210E+04	+/-	5.903E+03	21.69	0.00	21.69
19	25055	1	2.475-8	1.5373E+04	+/-	0.000E+00	0.00	0.00	0.00
20	25055	102	2.475-8	1.3279E+04	+/-	1.187E+02	0.89	0.00	0.89
21	26058	1	2.475-8	8.7761E+03	+/-	0.000E+00	0.00	0.00	0.00
22	26058	102	2.475-8	1.3149E+03	+/-	7.765E+01	5.91	0.00	5.91
23	27059	1	2.475-8	4.3151E+04	+/-	0.000E+00	0.00	0.00	0.00
24	27059	2	2.475-8	5.9677E+03	+/-	0.000E+00	0.00	0.00	0.00
25	27059	102	2.475-8	3.7180E+04	+/-	2.403E+02	0.65	0.00	0.65
26	29063	1	2.475-8	9.5608E+03	+/-	0.000E+00	0.00	0.00	0.00
27	29063	2	2.475-8	5.0886E+03	+/-	0.000E+00	0.00	0.00	0.00
28	29063	102	2.475-8	4.4707E+03	+/-	2.381E+02	5.32	0.00	5.32
29	30067	103	2.475-8	1.2301E+00	+/-	3.075E-01	25.00	0.00	25.00
30	41093	1	2.475-8	7.4514E+03	+/-	1.192E+02	1.60	0.00	1.60
31	41093	2	2.475-8	6.3017E+03	+/-	0.000E+00	0.00	0.00	0.00
32	41093	102	2.475-8	1.1496E+03	+/-	4.384E+01	3.81	0.00	3.81
33	41093	41094g	2.475-8	2.8708E+02	+/-	0.000E+00	0.00	0.00	0.00
34	41093	41094m	2.475-8	8.6247E+02	+/-	0.000E+00	0.00	0.00	0.00
35	47109	1	2.475-8	9.3049E+04	+/-	0.000E+00	0.00	0.00	0.00
36	47109	47110n	2.475-8	4.2137E+03	+/-	2.149E+02	5.10	0.00	5.10
37	48000	1	2.475-8	2.4720E+06	+/-	0.000E+00	0.00	0.00	0.00
38	48000	2	2.475-8	7.1500E+03	+/-	0.000E+00	0.00	0.00	0.00
39	48000	101	2.475-8	2.4649E+06	+/-	0.000E+00	0.00	0.00	0.00
40	48000	102	2.475-8	2.4649E+06	+/-	0.000E+00	0.00	0.00	0.00
41	48000	103	2.475-8	9.8896E-08	+/-	0.000E+00	0.00	0.00	0.00
42	48000	107	2.475-8	1.7270E-15	+/-	0.000E+00	0.00	0.00	0.00
43	49113	1	2.475-8	1.5692E+04	+/-	0.000E+00	0.00	0.00	0.00
44	49113	2	2.475-8	3.6462E+03	+/-	0.000E+00	0.00	0.00	0.00
45	49113	102	2.475-8	1.2046E+04	+/-	0.000E+00	0.00	0.00	0.00
46	49113	49114g	2.475-8	3.9148E+03	+/-	3.615E+02	9.23	0.00	9.23
47	49113	49114m	2.475-8	8.1308E+03	+/-	7.509E+02	9.23	0.00	9.23
48	49115	1	2.475-8	2.0462E+05	+/-	0.000E+00	0.00	0.00	0.00
49	49115	2	2.475-8	2.4919E+03	+/-	0.000E+00	0.00	0.00	0.00
50	49115	102	2.475-8	2.0213E+05	+/-	0.000E+00	0.00	0.00	0.00
51	49115	49116g	2.475-8	4.2447E+04	+/-	9.859E+02	2.32	0.00	2.32
52	49115	49116n	2.475-8	1.5968E+05	+/-	3.709E+03	2.32	0.00	2.32
53	57139	1	2.475-8	2.2388E+04	+/-	0.000E+00	0.00	0.00	0.00
54	57139	2	2.475-8	1.3170E+04	+/-	0.000E+00	0.00	0.00	0.00
55	57139	102	2.475-8	9.0415E+03	+/-	2.334E+02	2.58	0.00	2.58
56	64000	1	2.475-8	4.6007E+07	+/-	0.000E+00	0.00	0.00	0.00
57	64000	2	2.475-8	1.4856E+05	+/-	0.000E+00	0.00	0.00	0.00

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58	64000	101	2.475-8	4.5859E+07	+/- 0.000E+00	0.00	0.00
59	64000	102	2.475-8	4.5859E+07	+/- 0.000E+00	0.00	0.00
60	73181	1	2.475-8	2.6285E+04	+/- 0.000E+00	0.00	0.00
61	73181	2	2.475-8	5.6044E+03	+/- 0.000E+00	0.00	0.00
62	73181	102	2.475-8	2.0678E+04	+/- 6.203E+02	3.00	3.00
63	74186	1	2.475-8	3.8180E+04	+/- 0.000E+00	0.00	0.00
64	74186	2	2.475-8	8.4466E+01	+/- 0.000E+00	0.00	0.00
65	74186	102	2.475-8	3.8095E+04	+/- 1.903E+03	5.00	5.00
66	79197	1	2.475-8	1.0652E+05	+/- 0.000E+00	0.00	0.00
67	79197	2	2.475-8	7.8319E+03	+/- 0.000E+00	0.00	0.00
68	79197	102	2.475-8	9.8686E+04	+/- 1.828E+02	0.19	0.19
69	90232	1	2.475-8	2.0242E+04	+/- 0.000E+00	0.00	0.00
70	90232	2	2.475-8	1.2902E+04	+/- 0.000E+00	0.00	0.00
71	90232	18	2.475-8	5.3702E-02	+/- 4.833E-02	90.00	90.00
72	90232	102	2.475-8	7.3404E+03	+/- 7.813E+01	1.06	1.06
73	92235	1	2.475-8	6.9962E+05	+/- 0.000E+00	0.00	0.00
74	92235	18	2.475-8	5.8565E+05	+/- 1.024E+03	0.17	0.17
75	92235	102	2.475-8	9.9020E+04	+/- 1.591E+03	1.61	1.61
76	92238	1	2.475-8	1.1882E+04	+/- 0.000E+00	0.00	0.00
77	92238	18	2.475-8	1.6813E-02	+/- 8.409E-03	50.01	50.01
78	92238	102	2.475-8	2.6834E+03	+/- 5.115E+01	1.91	1.91
79	93237	1	2.475-8	1.9025E+05	+/- 0.000E+00	0.00	0.00
80	93237	2	2.475-8	1.4044E+04	+/- 0.000E+00	0.00	0.00
81	93237	18	2.475-8	2.1522E+01	+/- 2.152E+00	10.00	10.00
82	94239	1	2.475-8	1.0240E+06	+/- 0.000E+00	0.00	0.00
83	94239	2	2.475-8	7.9855E+03	+/- 0.000E+00	0.00	0.00
84	94239	18	2.475-8	7.4767E+05	+/- 5.948E+03	0.80	0.80
85	95241	1	2.475-8	6.1562E+05	+/- 0.000E+00	0.00	0.00
86	95241	2	2.475-8	1.1037E+04	+/- 0.000E+00	0.00	0.00
87	95241	18	2.475-8	3.0226E+03	+/- 6.045E+01	2.00	2.00