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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.       :    9920
15 Spectrum Integral      :    9.890E-01
16 Spectrum average energy [eV] :    2.474E-02
17 Spectrum peak energy [eV] :    2.474E-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	1	2.475-8	7.2280E+04	+/- 0.000E+00	0.00	0.00	0.00
20	2	3000	2	2.475-8	1.0102E+03	+/- 0.000E+00	0.00	0.00	0.00
21	3	3000	205	2.475-8	7.1215E+04	+/- 3.624E+02	0.51	0.00	0.51
22	4	3000	207	2.475-8	7.1299E+04	+/- 3.623E+02	0.51	0.00	0.51
23	5	3006	1	2.475-8	9.3922E+05	+/- 0.000E+00	0.00	0.00	0.00
24	6	3006	2	2.475-8	7.6952E+02	+/- 0.000E+00	0.00	0.00	0.00
25	7	3006	105	2.475-8	9.3827E+05	+/- 4.771E+03	0.51	0.00	0.51
26	8	3006	205	2.475-8	9.3827E+05	+/- 4.771E+03	0.51	0.00	0.51
27	9	3006	207	2.475-8	9.3827E+05	+/- 4.771E+03	0.51	0.00	0.51
28	10	3007	1	2.475-8	1.0754E+03	+/- 0.000E+00	0.00	0.00	0.00
29	11	3007	2	2.475-8	1.0300E+03	+/- 0.000E+00	0.00	0.00	0.00
30	12	3007	207	2.475-8	9.0872E+01	+/- 3.393E+00	3.73	0.00	3.73
31	13	5000	1	2.475-8	7.7015E+05	+/- 0.000E+00	0.00	0.00	0.00
32	14	5000	2	2.475-8	4.4460E+03	+/- 0.000E+00	0.00	0.00	0.00
33	15	5000	101	2.475-8	7.6530E+05	+/- 0.000E+00	0.00	0.00	0.00
34	16	5000	205	2.475-8	1.3430E+00	+/- 4.029E-01	30.00	0.00	30.00
35	17	5000	207	2.475-8	7.6521E+05	+/- 5.936E+03	0.78	0.00	0.78
36	18	5010	1	2.475-8	3.8499E+06	+/- 0.000E+00	0.00	0.00	0.00
37	19	5010	2	2.475-8	2.1721E+03	+/- 0.000E+00	0.00	0.00	0.00
38	20	5010	101	2.475-8	3.8457E+06	+/- 0.000E+00	0.00	0.00	0.00
39	21	5010	107	2.475-8	3.8453E+06	+/- 2.983E+04	0.78	0.00	0.78
40	22	5010	205	2.475-8	6.7486E+00	+/- 2.025E+00	30.00	0.00	30.00
41	23	5010	207	2.475-8	3.8453E+06	+/- 2.983E+04	0.78	0.00	0.78
42	24	5010	800	2.475-8	2.4219E+05	+/- 2.049E+03	0.85	0.00	0.85
43	25	5010	801	2.475-8	3.6031E+06	+/- 2.976E+04	0.83	0.00	0.83
44	26	5011	1	2.475-8	5.0173E+03	+/- 0.000E+00	0.00	0.00	0.00
45	27	5011	2	2.475-8	5.0118E+03	+/- 0.000E+00	0.00	0.00	0.00
46	28	11023	1	2.475-8	3.5569E+03	+/- 0.000E+00	0.00	0.00	0.00
47	29	11023	2	2.475-8	3.0204E+03	+/- 0.000E+00	0.00	0.00	0.00
48	30	11023	102	2.475-8	5.3619E+02	+/- 3.950E+00	0.74	0.00	0.74
49	31	21045	1	2.475-8	4.9746E+04	+/- 0.000E+00	0.00	0.00	0.00
50	32	21045	2	2.475-8	2.2533E+04	+/- 0.000E+00	0.00	0.00	0.00
51	33	21045	102	2.475-8	2.7216E+04	+/- 5.904E+03	21.69	0.00	21.69
52	34	25055	1	2.475-8	1.5372E+04	+/- 0.000E+00	0.00	0.00	0.00
53	35	25055	2	2.475-8	2.0934E+03	+/- 0.000E+00	0.00	0.00	0.00
54	36	25055	102	2.475-8	1.3281E+04	+/- 1.235E+02	0.93	0.00	0.93
55	37	26000	24051g	0	1.2103E-02	+/- 1.180E-03	9.75	0.00	9.75
56	38	26000	25054g	0	1.1672E-18	+/- 1.107E-18	94.87	0.00	94.87
57	39	26054	1	2.475-8	4.4128E+03	+/- 0.000E+00	0.00	0.00	0.00
58	40	26054	2	2.475-8	2.1589E+03	+/- 0.000E+00	0.00	0.00	0.00
59	41	26054	103	2.475-8	1.9968E-17	+/- 1.894E-17	94.87	0.00	94.87
60	42	26054	107	2.475-8	2.0707E-01	+/- 2.018E-02	9.75	0.00	9.75
61	43	26058	1	2.475-8	8.7744E+03	+/- 0.000E+00	0.00	0.00	0.00
62	44	26058	2	2.475-8	7.4598E+03	+/- 0.000E+00	0.00	0.00	0.00
63	45	26058	102	2.475-8	1.3149E+03	+/- 7.765E+01	5.91	0.00	5.91
64	46	27059	1	2.475-8	4.3150E+04	+/- 0.000E+00	0.00	0.00	0.00

68	47	27059	2	2.475-8	5.9665E+03	+/-	0.000E+00	0.00	0.00	0.00
69	48	27059	102	2.475-8	3.7188E+04	+/-	2.404E+02	0.65	0.00	0.65
70	49	29000	29064g	2.475-8	3.0917E+03	+/-	1.560E+02	5.05	0.00	5.05
71	50	29063	1	2.475-8	9.5594E+03	+/-	0.000E+00	0.00	0.00	0.00
72	51	29063	2	2.475-8	5.0876E+03	+/-	0.000E+00	0.00	0.00	0.00
73	52	29063	102	2.475-8	4.4709E+03	+/-	2.381E+02	5.32	0.00	5.32
74	53	30000	29067g	2.475-8	4.9695E-02	+/-	1.242E-02	25.00	0.00	25.00
75	54	30067	103	2.475-8	1.2301E+00	+/-	3.075E-01	25.00	0.00	25.00
76	55	30068	1	2.475-8	5.9575E+03	+/-	0.000E+00	0.00	0.00	0.00
77	56	30068	2	2.475-8	4.8877E+03	+/-	0.000E+00	0.00	0.00	0.00
78	57	41093	1	2.475-8	7.4508E+03	+/-	0.000E+00	0.00	0.00	0.00
79	58	41093	2	2.475-8	6.3012E+03	+/-	0.000E+00	0.00	0.00	0.00
80	59	41093	102	2.475-8	1.1497E+03	+/-	4.384E+01	3.81	0.00	3.81
81	60	41093	41094g	2.475-8	2.8712E+02	+/-	1.095E+01	3.81	0.00	3.81
82	61	41093	41094m	2.475-8	8.6258E+02	+/-	3.289E+01	3.81	0.00	3.81
83	62	47109	1	2.475-8	9.3025E+04	+/-	0.000E+00	0.00	0.00	0.00
84	63	47109	2	2.475-8	2.4501E+03	+/-	0.000E+00	0.00	0.00	0.00
85	64	47109	47110n	2.475-8	4.2116E+03	+/-	2.148E+02	5.10	0.00	5.10
86	65	48000	1	2.475-8	2.4350E+06	+/-	0.000E+00	0.00	0.00	0.00
87	66	48000	2	2.475-8	7.4890E+03	+/-	0.000E+00	0.00	0.00	0.00
88	67	48000	101	2.475-8	2.4276E+06	+/-	0.000E+00	0.00	0.00	0.00
89	68	49000	49114m	2.475-8	3.4887E+02	+/-	3.222E+01	9.23	0.00	9.23
90	69	49113	1	2.475-8	1.5691E+04	+/-	0.000E+00	0.00	0.00	0.00
91	70	49113	2	2.475-8	3.6459E+03	+/-	0.000E+00	0.00	0.00	0.00
92	71	49113	102	2.475-8	1.2048E+04	+/-	0.000E+00	0.00	0.00	0.00
93	72	49113	49114g	2.475-8	3.9154E+03	+/-	3.616E+02	9.23	0.00	9.23
94	73	49113	49114m	2.475-8	8.1321E+03	+/-	7.510E+02	9.23	0.00	9.23
95	74	49115	1	2.475-8	2.0463E+05	+/-	0.000E+00	0.00	0.00	0.00
96	75	49115	2	2.475-8	2.4917E+03	+/-	0.000E+00	0.00	0.00	0.00
97	76	49115	102	2.475-8	2.0215E+05	+/-	0.000E+00	0.00	0.00	0.00
98	77	49115	49116g	2.475-8	4.2452E+04	+/-	9.860E+02	2.32	0.00	2.32
99	78	49115	49116m	2.475-8	1.5970E+05	+/-	3.709E+03	2.32	0.00	2.32
100	79	57139	1	2.475-8	2.2211E+04	+/-	0.000E+00	0.00	0.00	0.00
101	80	57139	2	2.475-8	1.3170E+04	+/-	0.000E+00	0.00	0.00	0.00
102	81	57139	102	2.475-8	9.0424E+03	+/-	2.334E+02	2.58	0.00	2.58
103	82	64000	1	2.475-8	4.8655E+07	+/-	0.000E+00	0.00	0.00	0.00
104	83	64000	2	2.475-8	1.6847E+05	+/-	0.000E+00	0.00	0.00	0.00
105	84	64000	101	2.475-8	4.8487E+07	+/-	0.000E+00	0.00	0.00	0.00
106	85	73181	1	2.475-8	2.6285E+04	+/-	0.000E+00	0.00	0.00	0.00
107	86	73181	2	2.475-8	5.6041E+03	+/-	0.000E+00	0.00	0.00	0.00
108	87	73181	102	2.475-8	2.0681E+04	+/-	6.204E+02	3.00	0.00	3.00
109	88	74186	1	2.475-8	3.8186E+04	+/-	0.000E+00	0.00	0.00	0.00
110	89	74186	2	2.475-8	8.4464E+01	+/-	0.000E+00	0.00	0.00	0.00
111	90	74186	102	2.475-8	3.8102E+04	+/-	1.904E+03	5.00	0.00	5.00
112	91	79197	1	2.475-8	1.0693E+05	+/-	0.000E+00	0.00	0.00	0.00
113	92	79197	2	2.475-8	8.2221E+03	+/-	0.000E+00	0.00	0.00	0.00
114	93	79197	102	2.475-8	9.8708E+04	+/-	2.294E+02	0.23	0.00	0.23
115	94	90232	1	2.475-8	2.0241E+04	+/-	0.000E+00	0.00	0.00	0.00
116	95	90232	2	2.475-8	1.2901E+04	+/-	0.000E+00	0.00	0.00	0.00
117	96	90232	18	2.475-8	5.3711E-02	+/-	1.880E-02	35.00	0.00	35.00
118	97	90232	102	2.475-8	7.3414E+03	+/-	9.395E+01	1.28	0.00	1.28
119	98	92235	1	2.475-8	7.0090E+05	+/-	0.000E+00	0.00	0.00	0.00
120	99	92235	18	2.475-8	5.8726E+05	+/-	2.844E+03	0.48	0.00	0.48
121	100	92238	1	2.475-8	1.1822E+04	+/-	0.000E+00	0.00	0.00	0.00
122	101	92238	2	2.475-8	9.1973E+03	+/-	0.000E+00	0.00	0.00	0.00
123	102	92238	18	2.475-8	1.8517E-02	+/-	1.759E-03	9.50	0.00	9.50
124	103	92238	102	2.475-8	2.6837E+03	+/-	2.776E+01	1.03	0.00	1.03
125	104	93237	1	2.475-8	1.9134E+05	+/-	0.000E+00	0.00	0.00	0.00
126	105	93237	2	2.475-8	1.5701E+04	+/-	0.000E+00	0.00	0.00	0.00
127	106	93237	18	2.475-8	2.0396E+01	+/-	1.360E-01	0.67	0.00	0.67
128	107	94239	1	2.475-8	1.0240E+06	+/-	0.000E+00	0.00	0.00	0.00
129	108	94239	2	2.475-8	7.9853E+03	+/-	0.000E+00	0.00	0.00	0.00
130	109	94239	18	2.475-8	7.4664E+05	+/-	6.619E+03	0.89	0.00	0.89
131	110	95241	1	2.475-8	6.1553E+05	+/-	0.000E+00	0.00	0.00	0.00
132	111	95241	2	2.475-8	1.1036E+04	+/-	0.000E+00	0.00	0.00	0.00
133	112	95241	18	2.475-8	3.0222E+03	+/-	6.044E+01	2.00	0.00	2.00
134										
135										