

rr_unc_gandr_Gandr6b_nrm_IRDFF_v105.1st
RR_UNC - Calculate uncertainties in reaction rates

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Reference x.s. file : C:\Andrej\data\IRDFF\IRDFF-v1-05.g

Source spectrum file : gandr_Gandr6b_nrm.g

Reaction rate integ.flag : 1
Reaction rate norm. flag : 1

Spectrum MAT No. : 9937
Spectrum Integral : 1.000E+00
Spectrum average energy [eV] : 2.009E+06
Spectrum peak energy [eV] : 8.198E+05
Reaction rate RR = average cross-section

No.	Mat.	MT	E(50%) [MeV]	<RR> [mb]	+/- [mb]	Unc	Unc. x.s. [%]	Unc. Sp. [%]	Unc. Total [%]
1	3006	105	0.63358	3.3039E+02	+/-	2.687E+00	0.63	0.51	0.81
2	5000	1	1.28514	2.4731E+03	+/-	4.323E+00	0.00	0.17	0.17
3	5000	2	1.2743	2.3406E+03	+/-	4.801E+00	0.00	0.21	0.21
4	5000	101	1.18881	1.0179E+02	+/-	5.598E-01	0.00	0.55	0.55
5	5000	102	0.39183	8.5173E-03	+/-	1.598E-04	0.00	1.88	1.88
6	5000	103	2.94626	2.0043E+00	+/-	2.096E-02	0.00	1.05	1.05
7	5000	106	19.2684	1.4411E-15	+/-	1.062E-15	0.00	73.68	73.68
8	5000	107	0.8449	9.0978E+01	+/-	5.935E-01	0.00	0.65	0.65
9	5010	1	1.12861	2.6203E+03	+/-	5.424E+00	0.00	0.21	0.21
10	5010	2	1.09746	2.0734E+03	+/-	4.307E+00	0.00	0.21	0.21
11	5010	107	0.84383	4.5697E+02	+/-	3.006E+00	0.00	0.66	0.66
12	5010	800	1.83028	1.8625E+02	+/-	1.064E+00	0.52	0.24	0.57
13	5010	801	0.42368	2.7072E+02	+/-	3.128E+00	0.48	1.05	1.16
14	9019	16	13.8704	7.6999E-03	+/-	4.062E-03	3.02	52.67	52.76
15	11023	1	1.22463	3.2118E+03	+/-	8.283E+00	0.00	0.26	0.26
16	11023	2	1.05643	2.6961E+03	+/-	9.391E+00	0.00	0.35	0.35
17	11023	16	15.2793	3.7574E-03	+/-	2.182E-03	1.22	58.07	58.08
18	11023	102	0.91591	2.7648E-01	+/-	3.642E-02	12.99	2.19	13.17
19	12024	103	8.11674	1.4535E+00	+/-	3.375E-01	0.83	23.20	23.22
20	13027	103	5.70395	3.8618E+00	+/-	2.490E-01	2.06	6.11	6.45
21	13027	107	8.46114	6.8724E-01	+/-	1.913E-01	0.74	27.83	27.84
22	14028	103	7.07339	5.3080E+00	+/-	6.313E-01	2.53	11.62	11.89
23	14029	13028g	15.6593	3.8165E-03	+/-	1.863E-03	4.39	48.61	48.81
24	15031	103	3.62463	3.5075E+01	+/-	1.257E+00	3.47	0.88	3.58
25	16032	103	3.95742	6.7233E+01	+/-	1.883E+00	2.53	1.19	2.80
26	21045	1	1.66078	3.3780E+03	+/-	1.304E+01	0.00	0.39	0.39
27	21045	2	1.3843	2.6478E+03	+/-	1.366E+01	0.00	0.52	0.52
28	21045	102	0.552	5.0885E+00	+/-	4.646E-01	9.00	1.56	9.13
29	22046	16	15.9125	5.1444E-03	+/-	3.030E-03	4.41	58.72	58.89
30	22046	103	5.86969	1.1143E+01	+/-	7.656E-01	3.19	6.08	6.87
31	22047	103	3.63704	1.7878E+01	+/-	5.657E-01	2.79	1.50	3.16
32	22047	21046g	14.7181	8.8228E-03	+/-	4.414E-03	8.61	49.29	50.03
33	22048	103	8.08761	2.9354E-01	+/-	6.752E-02	5.59	22.31	23.00
34	22048	21047g	15.6505	1.8767E-03	+/-	9.541E-04	8.64	50.10	50.84
35	22049	21048g	15.7453	1.1392E-03	+/-	5.794E-04	7.30	50.33	50.86
36	23051	107	9.70127	2.3699E-02	+/-	8.984E-03	3.19	37.77	37.91
37	24052	16	14.5738	4.4131E-02	+/-	2.506E-02	2.68	56.71	56.78
38	25055	1	1.59957	3.5418E+03	+/-	1.445E+01	0.00	0.41	0.41
39	25055	16	12.9582	2.0806E-01	+/-	1.127E-01	1.94	54.12	54.15
40	25055	102	0.73269	2.9023E+00	+/-	7.874E-01	27.08	1.66	27.13
41	26054	16	16.3771	1.4470E-03	+/-	8.694E-04	5.01	59.87	60.08
42	26054	103	4.28457	7.7016E+01	+/-	2.707E+00	3.16	1.54	3.51
43	26054	107	7.19564	8.1774E-01	+/-	1.209E-01	3.99	14.23	14.78
44	26056	103	7.34878	1.0616E+00	+/-	1.691E-01	2.69	15.70	15.93
45	26058	1	1.28013	4.7724E+03	+/-	1.140E+01	0.00	0.24	0.24
46	26058	102	0.71968	2.0669E+00	+/-	2.289E-01	11.01	1.22	11.07
47	27059	1	1.47628	3.7178E+03	+/-	1.070E+01	0.00	0.29	0.29
48	27059	2	1.12911	2.9759E+03	+/-	1.166E+01	0.00	0.39	0.39
49	27059	16	12.9524	2.0390E-01	+/-	1.097E-01	1.67	53.77	53.79
50	27059	17	19.8286	1.2078E-06	+/-	1.208E-06	0.00	100.03	100.03
51	27059	102	0.8869	5.0085E+00	+/-	2.110E-01	4.03	1.23	4.21
52	27059	103	5.70943	1.3838E+00	+/-	1.041E-01	3.60	6.61	7.52
53	27059	107	8.11331	1.5266E-01	+/-	3.561E-02	3.98	22.98	23.33
54	28058	16	14.8278	3.8292E-03	+/-	2.202E-03	1.31	57.50	57.51
55	28058	103	4.04161	1.0574E+02	+/-	2.357E+00	1.75	1.38	2.23
56	28060	103	6.80972	2.1111E+00	+/-	2.582E-01	1.97	12.07	12.23
57	29063	1	1.43119	3.6393E+03	+/-	5.558E+00	0.00	0.15	0.15

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58	29063	2	1.07177	2.8487E+03	+/-	7.128E+00	0.00	0.25	0.25
59	29063	16	13.6901	9.4895E-02	+/-	5.174E-02	1.45	54.50	54.52
60	29063	102	0.94214	1.0656E+01	+/-	9.116E-01	8.52	0.82	8.55
61	29063	107	7.01304	5.1571E-01	+/-	7.124E-02	3.09	13.46	13.81
62	29065	16	12.5337	3.3544E-01	+/-	1.768E-01	1.96	52.66	52.69
63	30064	103	4.02821	3.8336E+01	+/-	8.762E-01	1.74	1.48	2.29
64	30067	103	4.40912	9.5746E-01	+/-	6.458E-02	5.53	3.86	6.74
65	33075	16	12.7763	3.1353E-01	+/-	1.690E-01	6.13	53.55	53.90
66	39089	16	13.7699	1.6445E-01	+/-	9.265E-02	1.31	56.32	56.34
67	40090	16	14.2851	1.0019E-01	+/-	5.671E-02	0.93	56.60	56.60
68	41093	1	1.20361	5.7542E+03	+/-	2.879E+01	0.48	0.13	0.50
69	41093	2	0.92462	4.4771E+03	+/-	1.632E+02	3.64	0.24	3.64
70	41093	102	0.6472	2.5182E+01	+/-	6.152E-01	2.18	1.10	2.44
71	41093	41093m	2.5883	1.4200E+02	+/-	3.754E+00	2.63	0.27	2.64
72	41093	41092m	11.1914	4.4200E-01	+/-	2.309E-01	0.86	52.24	52.25
73	41093	41094g	0.6472	6.2888E+00	+/-	6.931E-02	0.00	1.10	1.10
74	41093	41094m	0.6472	1.8893E+01	+/-	2.082E-01	0.00	1.10	1.10
75	42092	41092m	5.19384	6.5935E+00	+/-	3.603E-01	3.83	3.89	5.46
76	45103	45103m	2.27431	7.0942E+02	+/-	2.809E+01	3.95	0.26	3.96
77	47109	1	1.31538	5.7877E+03	+/-	5.912E+00	0.00	0.10	0.10
78	47109	47110n	0.72665	9.6873E+00	+/-	7.283E-01	7.50	0.50	7.52
79	48000	1	1.33578	5.8820E+03	+/-	5.472E+00	0.00	0.09	0.09
80	48000	2	1.08736	4.3784E+03	+/-	7.909E+00	0.00	0.18	0.18
81	48000	101	0.97191	6.3833E+01	+/-	3.015E-01	0.00	0.47	0.47
82	48000	102	0.96905	6.3717E+01	+/-	3.050E-01	0.00	0.48	0.48
83	48000	103	6.45794	3.7664E-02	+/-	4.916E-03	0.00	13.05	13.05
84	48000	104	15.3699	1.7410E-04	+/-	8.481E-05	0.00	48.71	48.71
85	48000	105	16.2234	1.1897E-05	+/-	5.787E-06	0.00	48.64	48.64
86	48000	106	18.7542	9.8521E-09	+/-	6.308E-09	0.00	64.03	64.03
87	48000	107	4.75113	7.7438E-02	+/-	2.220E-03	0.00	2.87	2.87
88	49113	1	1.41004	5.5381E+03	+/-	4.081E+00	0.00	0.07	0.07
89	49113	2	1.19728	4.4414E+03	+/-	6.798E+00	0.00	0.15	0.15
90	49113	102	1.125	2.2071E+02	+/-	9.470E-01	0.00	0.43	0.43
91	49113	49113m	2.64815	1.5334E+02	+/-	1.884E+00	1.19	0.30	1.23
92	49113	49114g	1.08472	4.3606E+01	+/-	1.409E+00	3.18	0.57	3.23
93	49113	49114m	1.13458	1.7710E+02	+/-	5.827E+00	3.27	0.40	3.29
94	49115	1	1.41109	5.5369E+03	+/-	4.029E+00	0.00	0.07	0.07
95	49115	2	1.19125	4.4355E+03	+/-	6.717E+00	0.00	0.15	0.15
96	49115	102	1.09118	1.5834E+02	+/-	7.348E-01	0.00	0.46	0.46
97	49115	49115m	2.58718	1.8518E+02	+/-	3.157E+00	1.68	0.28	1.70
98	49115	49114m	11.6614	8.8489E-01	+/-	4.561E-01	5.32	51.27	51.54
99	49115	49116g	1.0343	3.0583E+01	+/-	7.989E-01	2.56	0.50	2.61
100	49115	49116n	1.10503	1.2776E+02	+/-	3.387E+00	2.61	0.46	2.65
101	53127	16	11.441	1.1570E+00	+/-	6.001E-01	3.18	51.77	51.86
102	57139	1	1.56435	5.9229E+03	+/-	4.941E+00	0.00	0.08	0.08
103	57139	2	1.34985	4.6203E+03	+/-	7.041E+00	0.00	0.15	0.15
104	57139	102	1.26949	6.7966E+00	+/-	3.483E-01	5.08	0.68	5.12
105	59141	16	11.706	1.0739E+00	+/-	5.742E-01	11.74	52.17	53.47
106	64000	1	1.47222	6.7453E+03	+/-	6.320E+00	0.00	0.09	0.09
107	64000	2	1.18991	4.1490E+03	+/-	7.679E+00	0.00	0.19	0.19
108	64000	101	0.78934	9.5057E+01	+/-	7.901E-01	0.00	0.83	0.83
109	64000	102	0.78932	9.5055E+01	+/-	7.902E-01	0.00	0.83	0.83
110	69169	16	10.264	3.7260E+00	+/-	1.869E+00	2.54	50.10	50.17
111	69169	17	17.9878	4.5253E-03	+/-	3.025E-03	6.61	66.52	66.85
112	73181	1	1.56509	7.0159E+03	+/-	6.235E+00	0.00	0.09	0.09
113	73181	2	1.43048	4.6282E+03	+/-	6.899E+00	0.00	0.15	0.15
114	73181	102	0.80776	8.6537E+01	+/-	4.752E+00	5.42	0.88	5.49
115	74186	1	1.58322	6.9775E+03	+/-	7.440E+00	0.00	0.11	0.11
116	74186	2	1.32043	4.5959E+03	+/-	9.531E+00	0.00	0.21	0.21
117	74186	102	1.00678	3.3796E+01	+/-	8.533E-01	2.47	0.52	2.52
118	79197	1	1.68065	6.6559E+03	+/-	6.524E+00	0.00	0.10	0.10
119	79197	2	1.49103	4.6432E+03	+/-	8.344E+00	0.00	0.18	0.18
120	79197	16	10.3881	3.2559E+00	+/-	1.595E+00	1.94	48.95	48.99
121	79197	102	0.7125	7.7517E+01	+/-	7.687E-01	0.56	0.82	0.99
122	80199	80199m	2.96564	2.8216E+02	+/-	1.049E+01	3.68	0.49	3.72
123	82204	82204m	4.83669	1.7421E+01	+/-	1.041E+00	4.66	3.74	5.98
124	83209	17	17.6953	6.0727E-03	+/-	3.881E-03	6.06	63.63	63.91
125	90232	1	1.56235	7.7269E+03	+/-	7.361E+00	0.00	0.10	0.10
126	90232	2	1.20347	4.8843E+03	+/-	1.028E+01	0.00	0.21	0.21
127	90232	18	2.85634	7.4815E+01	+/-	1.733E+00	2.11	0.96	2.32
128	90232	102	0.90446	9.4524E+01	+/-	1.155E+01	12.21	0.49	12.22
129	92235	1	1.58325	7.6196E+03	+/-	6.777E+00	0.00	0.09	0.09
130	92235	18	1.63318	1.2241E+03	+/-	5.358E+00	0.42	0.14	0.44
131	92235	102	0.72532	9.3880E+01	+/-	1.716E+01	18.27	0.63	18.28
132	92238	1	1.56693	7.7709E+03	+/-	6.745E+00	0.00	0.09	0.09
133	92238	16	8.14948	1.4207E+01	+/-	3.554E+00	1.77	24.95	25.01
134	92238	18	2.66632	3.0515E+02	+/-	2.596E+00	0.52	0.67	0.85
135	92238	102	0.91474	7.0069E+01	+/-	8.279E-01	1.06	0.53	1.18
136	93237	1	1.57359	7.5472E+03	+/-	6.559E+00	0.00	0.09	0.09
137	93237	2	1.34147	4.3040E+03	+/-	7.433E+00	0.00	0.17	0.17

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rr_unc_gandr_Gandr6b_nrm_IRDFF_v105.lst
138 93237 18 1.97523 1.3453E+03 +/- 2.292E+01 1.69 0.22 1.70
139 94239 1 1.55931 7.7635E+03 +/- 6.980E+00 0.00 0.09 0.09
140 94239 2 1.35891 4.3334E+03 +/- 7.416E+00 0.00 0.17 0.17
141 94239 18 1.70693 1.7931E+03 +/- 8.339E+00 0.46 0.07 0.47
142 95241 1 1.51948 7.7903E+03 +/- 7.324E+00 0.00 0.09 0.09
143 95241 2 1.33771 4.8382E+03 +/- 8.143E+00 0.00 0.17 0.17
144 95241 18 2.14432 1.3753E+03 +/- 3.901E+01 2.82 0.28 2.84

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