

⁷²Ge(p,t) 1977Gu12

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal, E. A. Mccutchan		NDS 136, 1 (2016)	1-Jul-2016

1977Gu12: E_p=26 MeV provided by Orsay MP tandem accelerator. A split-pole spectrometer was used. FWHM=10 keV. Measured $\sigma(\theta)$, $\theta(\text{lab})= 5^\circ-60^\circ$; DWBA analysis.

1974Ba67: E=20 MeV, FWHM=30-40 keV; measured $\sigma(\theta)$, $\theta(\text{lab})= 15^\circ-65^\circ$; DWBA analysis.

Others: **1982Be13**, **1982Be45**.

⁷⁰Ge Levels

E(level) [†]	L [†]	S [@]	E(level) [†]	L [†]	S [@]	E(level) [†]	L [†]	S [@]	E(level) [†]	L [†]	S [@]
0.0	0	1.5	3188 3	4	0.73	3868 3			4539 3	0	0.035
1037 3	2		3292 3			3898 [‡] 3	(1)	0.008	4629 3		
1212 3	0	0.12	3308 3	(1)	0.012	3922 3	4	0.17	4712 20	(2)	0.12
1708 3	2		3329 [‡] 3			4028 3	4	0.49	4935 3	1	0.038
2155 [‡] 3			3340 [‡] 3			4086 3	4	0.21	5024 3	2	0.18
2311 3	0	0.018	3412 3	5	0.6	4180 3	2	0.55	5050 3	0	0.008
2538 3	2	0.29	3424 3	(2)	0.17	4226 3	2	0.13	5184 3	0	0.013
2562 3	3	0.91	3455 3			4242 3	(4,5)		5290 3	0	0.033
2806 3	4	0.1	3481 3			4264 20	2	0.061	5338 3	0	0.014
2891 3	0	0.01	3566 [#]			4332 20	0	0.046	5403 3	0	0.014
2947 3	2	0.22	3634 3	(2)	0.83	4345 20	2	0.18	5410 3		
3054 3	4	0.89	3683 3	0	0.049	4357 20	2	0.14	5441 3	(2)	0.16
3105 3	(0)	0.003	3740 3	0	0.007	4449 3	2	0.27	5467 3	0	0.018
3176 3	2	0.6	3780 3	2	0.35	4472 3	4	0.26			

[†] From **1977Gu12**.

[‡] Unresolved doublet.

[#] Mixed with tritons from (p,t) reactions on other Ge isotopes.

[@] $\sigma(\text{exp at peak})/\sigma(\text{DWBA})$; estimated uncertainty 20% in absolute values.