

$^{72}\text{Ge}(\text{p},\text{p}')$, (**pol p,p'**) 1986Ro08

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 111,1 (2010)	1-May-2009

(p,p'): E=22 MeV, $\sigma(\theta)$, FWHM=10 keV (1986Ro08); E≈14.5 MeV, FWHM=70 keV, $\sigma(\theta)$, coupled-channels (1970Cu03); E≈12 MeV (1964Da21).

(pol p,p), (pol p,p')²⁺: E=11.5 MeV, $\sigma(\theta)$, A(θ), coupled-channels calculation assuming a vibrational model (1985Se05).

(pol p,p')⁴⁺: E=65 MeV, $\sigma(\theta)$, A(θ), coupled-channels analysis (1985MaZO).

Others: 1967Br10, 1970Pe09.

 ^{72}Ge Levels

See 1970Cu03 for other values of β_L and B(EL) deduced from β_L .

E(level) [†]	L @	Comments
0	0	
693 4	0	
834 4	2	$\beta_2=0.203$ 10 (1985Se05)
1464 4	2	
1728 4	4	$\beta_2=0.216$; $\beta_4=0.016$ (1985MaZO)
2027 4		
2043 20	(2)	E(level): from 1970Cu03, probably the same as the 2065 level in the adopted level.
2401 4	2+4	L: from 1970Cu03, probably a doublet.
2467 4	(4)	
2514 4	3	
2572 10		E(level): from 1964Da21.
2753 4		
2772 [‡] 4		
2894 4	0	
2943 [#] 4	3	
3034 [‡] 4		
3072 4	4	
3097 4	2	
3130 4	(5)	
3181 4	(4)	
3250 4	4	
3327 [‡] 4		
3344 [‡] 4		
3361 4		
3406 [#] 4		
3422 4	2	
3439 [‡] 4	(6)	
3465 4	1	
3511 4	2	
3529 4	(4)	
3556 4	1	
3571 4		
3591 4	4	
3624 10	(1)	
3637 10		
3663 [‡] 10	(6)	
3674 10	(3)	
3688 10	7	
3709 10		

Continued on next page (footnotes at end of table)

 $^{72}\text{Ge}(\text{p},\text{p}')$, (pol p,p') **1986Ro08 (continued)**

 ^{72}Ge Levels (continued)

E(level) [†]	L [@]						
3745 10		3876 10		3964 10		4028 10	
3772 10	4	3881 10		3974 10		4035 10	1
3784 10		3890 10		3985 10		4052 10	
3797 10		3904 10		3995 10	1	4065 10	
3832 10		3915 [#] 10		4007 10		4076 10	
3858 10	4	3937 10	5	4020 10		4082 10	4

[†] From 1986Ro08, except as noted.

[‡] Doublet from angular distribution.

[#] Multiplet from angular distribution.

[@] From coupled-channel analysis of $\sigma(\theta)$ (1986Ro08).