^{76}Ge(t,p) 1978Ar12,1978Ma21

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Ameenah R. Farhan, Balraj Singh	NDS 110, 1917 (2009)	30-Jun-2009

1978Ar12: E=17 MeV; measured $\sigma(\theta)$; magnetic spectrograph; FWHM=15 keV; absolute σ accurate to≈25% and relative σ accurate to 5%.
1978Ma21: E=15 MeV; measured $\sigma(\theta)$; multiangle spectrograph;FWHM=35 keV; absolute cross sections have uncertainty≈40%.
Others: 1989Ca02, 1984Mo07, 1981St18.
Data are from 1978Ar12 unless stated otherwise. Levels above 4134 keV are noted only In 1978Ar12.

^{78}Ge Levels

E(level)[†]	L	Comments
0.0	0	
621 *3*	2	E(level): 619 *5* (1978Ma21).
1187 *3*	2	E(level): 1182 *5* (1978Ma21).
1547 *3*	0	E(level): 1539 *5* (1978Ma21) As unresolved doublet.
1570 *3*	4	
1843 *3*	2	E(level): 1838 *5* (1978Ma21).
2292 *3*	(4)	E(level),L: 2288 *5*; L=(4,5) (1978Ma21).
2330 *3*	(4,5)	E(level),L: 2326 *5*; L=4,(0), possibly a doublet (1978Ma21).
2404?[‡] *5*		
2439 *3*	2	E(level): 2433 *5* (1978Ma21).
2652 *3*	5	E(level): 2639 *5* (1978Ma21).
2759	(3,4)	E(level),L: 2744, L=3 (1978Ma21).
2850	5	E(level),L: level reported by 1978Ar12 only.
2955	4[#]	E(level): 2952 (1978Ma21).
3183[‡]	2[‡]	
3236[#]	1+3[#]	E(level): 3204 (1978Ar12).
3287[‡]	6[‡]	
3350[‡]	0[‡]	
3386[‡]		
3615	3[#]	E(level): 3613 (1978Ma21).
3638	2[#]	E(level): 3640 (1978Ma21).
3667[#]	0[#]	E(level): 3684 (1978Ar12).
3707[‡]	4[‡]	
3797[‡]	3[‡]	
3816[‡]	2[‡]	
3898[‡]	0[‡]	
3965[#]	2[#]	E(level): 3996 (1978Ar12).
4015[‡]	0[‡]	
4036[#]	5[#]	E(level): 4050 (1978Ar12).
4070[‡]	2[‡]	
4115[#]	1[#]	E(level): 4109 (1978Ar12).
4134[‡]	2[‡]	
4259		
4305		
4335		
4378		
4745		
4816		

Continued on next page (footnotes at end of table)

^{76}Ge(t,p) 1978Ar12,1978Ma21 (continued)

^{78}Ge Levels (continued)

E(level)[†]
5191
5324

[†] The uncertainties In excitation energies are 3 keV up to an energy of 2.7 MeV and 6-10 keV above this (1978Ar12). Energy uncertainties are 5 keV for energies<3 MeV and 7-10 keV above this (1978Ma21).
[‡] Level reported by 1978Ma21 only.
[#] From 1978Ma21.