^{72}Ge(d,^{3}He) 1978Ro14

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 188,1 (2023)	17-Jan-2023

1978Ro14: E=26 MeV deuteron beam from the Orsay MP tandem. Target was 60 μg/cm^2 96.23% enriched ^{72}Ge in GeO_2. Reaction products were momentum-analyzed with a split-pole magnetic spectrometer (FWHM=15 keV) and detected with 4 solid state position-sensitive detectors. Measured $\sigma(\theta)$, with θ(c.m)=8°−32°. Deduced levels, L-transfers, spectroscopic factors from DWBA analysis.

^{71}Ga Levels

E(level)	L	C^{2}S[†]	Comments
0	1	2.14[‡]	
388 *7*	1	0.04[#]	
487 *7*	3	1.14[#]	
510 *7*	1	0.21[‡]	
910? *7*		<0.01	
964 *7*	3	0.20[#]	
1113 *7*	1	0.39[#]	
1396 *7*	3	0.52,0.92	
1476 *7*	3	0.12,0.21	
1495 *7*	4	0.24[‡]	
1634 *7*			E(level): weak group.
1907 *7*	3	0.87,1.59	
1995 *7*	3	0.37,0.65	

[†] The absolute cross sections are estimated with an uncertainty of 20% mainly due to the uncertainty in the thickness of the target.
[‡] For L+1/2.
[#] For L-1/2.