^{69}Ga(d,^{3}He) 1977Ro22

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

Target $J^{\pi}=3/2^{-}$.

E(d)=26 MeV. Measured $\sigma(\theta)$, θ=15°−35° (5° steps) using split-pole magnetic spectrometer and four position-sensitive Si detectors (FWHM=18-20 keV); DWBA calculations.

^{68}Zn Levels

E(level)	L[†]	C^2S[‡]	Comments
0	1	0.42	
1080 *10*	1	0.65	
1661 *10*	1	0.011	
1883 *10*	1+3	0.10+0.066[#]	C^2S=0.085+0.13 for maximum L=3 admixture.
2338 *10*	1	0.64	
2415 *10*	3	0.20	
2822 *10*	1	0.11	
2957 *10*	(3)	(0.19)	
3007 *10*	1(+3)	0.075+(0.0)[#]	C^2S=0.058+0.09 for maximum L=3 admixture.
3179 *10*	1(+3)	0.29+(0.0)[#]	C^2S=0.26+0.10 for maximum L=3 admixture.
3280 *10*	1+3	0.019+0.067[#]	C^2S=0.010+0.14 for maximum L=3 admixture.
3336 *10*	1(+3)	0.11+(0.0)[#]	C^2S=0.10+0.065 for maximum L=3 admixture.
3415 *10*	(1+3)	(0.05+0.08)	
3430 *10*	(1+3)	(0.01+0.024)	
3486 *10*	1+3	0.014+0.05	
3650 *10*	1(+3)	0.043+(0.0)[#]	C^2S=0.022+0.08 for maximum L=3 admixture.

[†] From DWBA fits to $\sigma(\theta)$.

[‡] Calculated for $p_{3/2}$ and $f_{5/2}$ transfer.

[#] For minimum acceptable L=3 admixture which is the solution favored by the authors. C^2S values for maximum L=3 admixture are given in the comments.