^{69}Ga(α,t) 1975Ar29

History

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

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

1975Ar29: E=39.35 MeV by Orsay MP tandem accelerator, 99.75% enriched ^{69}Ga. Split-pole spectrometer with a resolution FWHM=20 keV was used. Measured $\sigma(\theta)$, DWBA analysis.

^{70}Ge Levels

E(level)[†]	L[‡]	E(level)[†]	L[‡]	E(level)[†]	L[‡]	E(level)[†]	L[‡]
0.0	(1)	2449 *4*	(3)	3054 *4*	(3)	3851 *4*	(4)
1035 *4*	(1+3)	2533 *4*	(1+3)	3193 *4*	(1+3)	3897 *4*	(1+3)
1215 *4*	(1)	2564 *4*	(4)	3240 *4*	(1+3)	3967 *4*	(4)
1705 *4*	(1+3)	2806 *4*	(3)	3337 *4*	(1)	4335 *4*	(4)
2152 *4*	(1+3)	2887 *4*	(4)	3631 *4*	(1)	4688 *4*	(4)
2310 *4*	(1)	2946 *4*	(1+3)	3680 *4*	(1+3)	5055 *4*	(4)

[†] A nominal uncertainty of 4 keV has been assigned by the authors based on comparison with level energies from ^{69}Ga(^{3}He,d).

[‡] All values are tentative, being based on a comparison between experimental intensities observed at 9° and 21° to the beam direction and the values calculated using the (^{3}He,d) data. The agreement is fairly good.