$^{69}\text{Ga(d,t)}$ 1977Da09

	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)=17 MeV. Measured $\sigma(\theta)$ for $\theta=8°-60°$ in $4°-5°$ steps using split-pole spectrograph and position-sensitive gas proportional counter (FWHM≈7 keV); DWBA analysis.

^{68}Ga Levels

E(level)	L	$C^2S^{\dagger}$	E(level)	L	$C^2S^{\dagger}$	E(level)	L	$C^2S^{\dagger}$
0	1+3	0.09+0.44	677 2	1+3	0.05+0.42	1212 3	1	(0.03)
175 1	1+3	0.11+0.96	808 3	(3)	(0.12)	1232# 3	1	0.29
321 1	1	0.21	827 2	1	0.09	1249 3	(3)	(0.21)
375.5 10	1+3	0.30+1.39	842 2	1	0.92	1271 4	1	0.02
497 1	3	2.18	877 3	(4)		1291# 3	1+3	0.05+0.21
515.0 15	1	0.18	949 3	1	0.10	1317 3	1	0.07
556 2	1+(3)	0.18+(0.2)	1062?‡			1336# 3	1+3	0.08+0.17
565 2	1	0.33	1105 3	1+3	0.03+0.19	1419# 4	1	0.11
580?‡			1126 2	1	0.56			

† For L=1, the average of p1/2 and p3/2 is given; when L=3, values are for f5/2.

‡ From (d,α). Weakly seen in (d,t).

Doublet.