

$^{69}\text{Ga}(\text{p,t})$ 1984Ro24

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huang Xiaolong, J. K. Tuli		NDS 106, 159 (2005)	1-Apr-2005

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

E=25 MeV, FWHM=11 keV; measured $\sigma(\theta)$ from 5° – 60° in 5° steps; DWBA analysis with DWUCK code.

 ^{67}Ga Levels

E(level)	L	$S^\dagger$	E(level)	L	$S^\dagger$	E(level)	L	$S^\dagger$
0	0	2.9	2144 2	0+2	0.027+0.27	2801 [#] 5		
168 2	2	0.080	2174 2	4	2.4	2898 5	(2)	0.075
362 2		$\ddagger$	2264 2	4	2.5	2942 5	0	0.023
828 2	0	0.029	2374 2	3	0.25	2978 5	(4)	1.6
911 2	2	0.75	2409 2	2	0.295	3036 5	0	0.052
1081 2	2	0.17	2457 2	4	4.3	3079 5	(4)	1.6
1203 2	2	0.90	2535 5	0(+2)	0.006+0.020	3228 5	0	0.018
1414 2	2	1.25	2571 5	2	0.18	3291 5	(0+2)	0.0077+0.11 5
1556 2	2	0.16	2598 5	4	2.9	3310 5	4	6.1
1642 2	0	0.004	2622 5	2	0.13	3337 5	0	0.011
1811 2	2	0.08	2644 5	2	0.115	3452 5	2	0.15
2042 2	2	0.20	2733 5	0	0.023	3498 5	2	0.125
2126 2	2	0.16	2748 5	2	0.13			

[†] Enhancement coefficient= $(2L+1)\sigma(\theta)(\text{exp})/(9.7N\sigma(\theta)(\text{DWUCK}))$; where the normalization factor N=25.

[‡] <0.02 for L=2, <0.36 for L=4.

[#] Mean energy deduced from a broad peak; probably a doublet.