

$^{109}\text{Ag}(\text{p,t})$ 1975De27

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 109, 1383 (2008)	1-Mar-2008

$J^\pi(^{109}\text{Ag})=1/2^-$.

$E(\text{p})=29.7$ MeV.

Other: $E(\text{p})=19$ MeV (1975Ku14).

Resolution (FWHM): 10 keV (1975De27), 5-15 keV (1975Ku14), magnetic s.

 ^{107}Ag Levels

$\Delta E: \Delta E=\pm 5$ keV. Authors discuss energy shift and suggest 2 keV should be added to their values.

Ds: Absolute cross section $\pm 40\%$ uncertain.

$E(\text{level})^\dagger$	$L^\ddagger$	$\sigma^\text{@}$	Comments
0	0 [#]	599	
125		2.3	
324	2 [#]	36	
422	2 [#]	422	
784	2 [#]	5.2	
947	2 [#]	9.0	
970	4	3.3	
1061		1.2	E(level): may correspond with $L=4$ ($^3\text{He},d$) excitation at 1059 keV.
1144	4	3.7	L: other: $L=3$ (1975Ku14) at 1147 keV.
1221	(6)	1.0	
1462	2	16	
1481	6,5	1.5	
1570	4	4.7	
1613	0 [#]	4.3	
1651	0 [#]	15	
1685	4 [#]	10	E(level): other: 1688 (1975Ku14).
1832	2	7.3	
1851	0 [#]	9.9	E(level): other: 1854 (1975Ku14).
1875	2,3	2.5	E(level): other: 1880 (1975Ku14).
			L: $L=3$ (1975Ku14), $L=2$ (1975De27).
1904	2,3	14	E(level): other: 1911 (1975Ku14).
			L: $L=3$ (1975Ku14), $L=2$ (1975De27).
1918	4	4.1	
1942	2	2.9	
1956	4	3.7	
2024	3,4	13	E(level): other: 2030 (1975Ku14).
			L: $L=3$ (1975Ku14), $L=4$ (1975De27).
2062	3 [#]	6.4	E(level): other: 2066 (1975Ku14).
2111	4,3	3.1	E(level): other: 2119 (1975Ku14).
2140	3	11	E(level): other: 2144 (1975Ku14).
			L: $L=3$ (1975Ku14), $L=3,2$ (1975De27).
2177	3 [#]	54	E(level): other: 2182 (1975Ku14).
2199	3 [#]	50	E(level): other: 2203 (1975Ku14).
2227	3 [#]	9.5	E(level): other: 2229 (1975Ku14).
2254	2	16	E(level): other: 2258 (1975Ku14).
2284	2	6.9	
2306	4	5.2	
2320	4	7.3	

Continued on next page (footnotes at end of table)

$^{109}\text{Ag}(\text{p,t})$ **1975De27 (continued)** ^{107}Ag Levels (continued)

E(level) [†]	L [‡]	$\sigma^{\textcircled{a}}$	Comments
2347		4.3	
2355	5	3.5	
2374	2	14	
2405	2	6.4	
2414	4	9	
2437	2	21	E(level): other: 2442 (1975Ku14).
2463	4	23	E(level): other: 2467 (1975Ku14).
2494	4	7.3	
2533	4	12	
2588			E(level): not resolved at 20°.
2594	4	19	
2666	4,5	5.6	
2672		3.9	
2701	4	6.4	
2717		15	
2733	4	6.4	
2776		≈6	
2808	4	19	
2844	4	24	
2881			E(level): not resolved at 20°.
2902			E(level): not resolved at 20°.
3111		≈16	
3125		≈10	

[†] $\Delta E = \pm 5$ keV. Authors discuss energy shift and suggest 2 keV should be added to their values.

[‡] Deduced from angular distributions ($\theta = 10^\circ, 20^\circ, 30^\circ, 40^\circ, 50^\circ$) compared with DWBA calc ([1975De27](#)). Other L-values ([1975Ku14](#)): angular distribution ($\theta = 10^\circ - 75^\circ$, in 5° steps) compared with standard shapes for given L-transfer and phonon character.

[#] (p,t) L-values of [1975De27](#), [1975Ku14](#) correspond.

[@] Cross section ($\mu\text{b/sr}$) at $\theta = 20^\circ$ given ([1975De27](#)).

[&] Absolute cross section $\pm 40\%$ uncertain.