^{107}Ag(t,p) 1977An01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Kumar(a), J. Chen(b) and F. G. Kondev	NDS 137, 1 (2016)	31-May-2016

Target ^{107}Ag J^{π}(g.s.)=1/2$^-$.

1977An01: E=17 MeV triton beam was produced from the Los Alamos Scientific Laboratory FN tandem Van de Graaff accelerator. Targets was metallic Ag samples (>98% enriched, 129 μg/cm^2) evaporated onto 20 μg/cm^2 carbon backings. Reaction products were momentum analyzed with a Q3D magnetic spectrometer (FWHM=10-15 keV) and detected by a plastic scintillator. Measured $\sigma(\theta)$. Deduced levels, J^{π}, L from DWBA analysis. Comparisons with coupling model.

^{109}Ag Levels

ΔE: Authors of 1977An01 quote uncertainties between 2 keV for the low-lying states to 10 keV at the upper end of the proton spectrum, but do not assign an uncertainty to each level. Uncertainties shown on level energies are assigned by evaluators.

E(level)	L[#]	E(level)	L[#]	E(level)	L[#]	E(level)	L[#]
0	0	1500 *5*	2	1950 *5*	4	2267 *10*	3
311[†]	2	1524 *5*	2	1993 *5*	2	2314 *10*	(2)
415[†]	2	1599 *5*	(3,4)	2062 *10*	4	2364 *10*	5
702[†]	2	1613 *5*	0	2093 *10*	2	2434 *10*	4
863[†]	2	1736 *5*	2	2124 *10*	3	2466 *10*	4
912[†]	4	1792 *5*	4	2185 *10*	(4)	2537 *10*	5
1091[†]	5,4	1815 *5*	2	2199 *10*	(4)	2569 *10*	(5)
1260 *2*	0	1839 *5*	2	2222 *10*	(4)	2614 *10*	(4)
1324[†]	2	1891 *5*	4	2256 *10*	5	2659 *10*	

[†] Assumed energy for calibration in 1977An01.

[‡] Authors of 1977An01 quote uncertainties between 2 keV for the low-lying states to 10 keV at the upper end of the proton spectrum, but do not assign an uncertainty to each level. Uncertainties shown on level energies are assigned by evaluators.

[#] From DWBA analysis in 1977An01.