^{109}Ag(p,p′) 1970Fo01,1969Sh06

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

1970Fo01: E=13 MeV proton beam was produced from the Oak Ridge National Laboratory Tandem Van de Graaff. Target is a self-supporting 1 mg/cm^2 foil enriched to 99.8% in ^{109}Ag. Scattered particles were detected by two surface barrier silicon detectors, FWHM=20-30 keV. Measured $\sigma(\theta)$. Deduced levels, L, deformation parameter from DWBA analysis.

1969Sh06: E=5.9-7.25 MeV proton beams were produced from the University of Texas EN Tandem Van de Graaff accelerator. Targets are enriched self-supporting silver with thicknesses from 130-450 μg/cm^2. Scattered particles were detected by a surface barrier detector (FWHM=30 keV). Measured $\sigma(\theta)$. Deduced levels.

Other measurements: 1987Wa27, 1973IsZT, 1967Br07, 1977ChYZ (p,p′γ).

^{109}Ag Levels

E(level)[†]	L[#]	β_L	Comments
0			
311	2	0.135	E(level): 309 (1969Sh06).
415	2	0.165	E(level): 414 (1969Sh06).
702	2		E(level): 702 (1969Sh06).
863	2		E(level): 862 (1969Sh06).
912			
1091	4		
1260	0		
1324			
1510[‡] *10*	4		
1610 *5*			
2150 *5*	3	0.077	
2230 *5*	3	0.066	

[†] From 1970Fo01. Excitation energies for levels through 1324 keV are taken by the authors from 1970Ro14. The remaining level energies are from the (p,p′) measurement in 1970Fo01.

[‡] Possible doublet or triplet.

[#] From DWBA analysis in 1970Fo01.