

$^{120}\text{Sn}(\text{d,t}),(\text{pol d,t})$ 1967Sc12,1994Va28

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. M. Symochko, E. Browne, J. K. Tuli		NDS 110,2945 (2009)	1-Dec-2008

Additional information 1.

1967Sc12: E=15 MeV, magnetic spectrograph FWHM=40 keV; enriched target (2-4 mg/cm² thick).

1994Va28, 2002La31: E=200 MeV, mag spect FWHM=200 keV, polarized d; 99.6% enriched target (39.6 mg/cm² thick); analyzing-power, DWBA analysis. Others: E=50 MeV (1977Va15,1974Va17): 98.4% enriched target, 2.10 mg/cm².

See 1977Va15 for spectra and discussion of deeply bound hole state, and 1978Ko05 for calculating spreading widths.

 ^{119}Sn Levels

E(level)	J ^π ‡	T _{1/2}	L [#]	C ² S [#]	Comments
0					
30					
89	11/2 ⁻	293 d	5	4.4	T _{1/2} : From Adopted Levels.
788	7/2 ⁺		4	7.0	
920					
1090	5/2 ⁺		2	4.3	
1240					
1360					
1560					
1640					
1730					
5350 [†]					
5850 [†]					
7500 [†]					
9500 [†]					
10500 [†]					
12750 [†]					
15750 [†]					
20250 [†]					

[†] From 2002La31.

[‡] From Adopted Levels.

[#] From DWBA analysis (1994Va28).