

$^{116}\text{Sn}(^3\text{He},d)$ 1972St19

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

E=24 MeV, IAS (1972St19).

E=18 MeV, FWHM=70-110 keV (1968Co22).

E=28.2 MeV, FWHM=70-90 keV (1967Is02).

E=28.4 MeV (1978Ka12).

The 1978Ka12 results agree with those of 1968Co22.

Other: 1966Ba25.

 ^{117}Sb Levels

E(level) [†]	J ^π [‡]	L	C ² S' [#]	Comments
0	5/2 ⁺	2	4.2	
520 20	7/2 ⁺	4	6.5	
720 20	1/2 ⁺	0	1.2	
920 20	3/2 ⁺	2	1.7	
1320 20	11/2 ⁻	5	6.3	
1380 20	3/2 ⁺	2	0.9	
1480? 20				
1700? 20				
1790? 20				
1880? 20				
2010? 30				
2110? 30				
2210 30	5/2 ⁺	2	1.0	
2280 30	1/2 ⁺	0	0.36	
2410 30	1/2 ⁺	0	0.21	
2520 30		2+4	0.29+1.0	
2610 30		0+2	0.04+0.36	L: could also be (4).
2760 30		0+2	0.03+0.35	L: could also be (4).
2880? 30				
2970? 30				
≈11.5×10 ³				E(level): Q≈-12.7 MeV, IAS of 11/2 ⁻ state.

[†] From 1972St19.

[‡] Assumed for DWBA analysis (1968Co22: first six levels).

[#] C²S' given (from 1968Co22 for 0-1380 keV levels; from 1967Is02 for 2210-2760 keV levels). Values from 1967Is02 are relative to Σ C²S'=10 for L=2 transitions.