

$^{118}\text{Sn}({}^3\text{He,d})$ 1967Ka22,1967Is02

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

1967Ka22: E=19 MeV; semi (FWHM<20 keV); $\sigma(E(d))$, $\theta=40^\circ$.

1967Is02: E(${}^3\text{He}$)=28.2 MeV; magnetic spectrograph (FWHM=70-90 keV), $\sigma(E(d), \theta)$ $\theta=5^\circ-40^\circ$, Q; DWBA analysis, deduced L, S.

1968Co22: E=18 MeV; semi $\Delta E-E$ counter (FWHM=70-110 keV), $\sigma(E(d), \theta)$ $\theta>20^\circ$, Q; DWBA analysis, deduced L, S.

Other: 1966Ba25.

 ^{119}Sb Levels

L(α),S(α) 1967Is02 report L=2+5 doublet for E=1370 20. The assignment L=2 to 1336 and L=5 to 1366 is based on Adopted Levels.
L(β),S(β) 1967Is02 report L=0+2 doublet for E=1670 20. The assignment is based on that of J=1/2 for 1650 and 1680 levels in (p,n).

E(level) [†]	L [‡]	C ² S' [‡]	Comments
0	2	5.6 4	
269 10	4	5.3 5	
641 10	0	0.82 7	
696 10	2	1.74 14	
1211 10			
1336 10	2	0.64 10	
1366 10	5	12 3	
1417 10			
1462 10	2	0.21	
1645 10	0	0.02 1	
1665 10	2	0.16 3	
1747 10			
1822 10	0	0.26 2	
1970 10	4	2.6 4	L,S for E=1990 20.
2067 10			
2114 10	0+2	0.07 1	For L=0; S=0.64 10 for L=2; L,S for E=2140 30.
2187 10			
2224 10			
2266 10	0+2	0.27 3	For L=0; S=0.59 7 for L=2; L,S for E=2300 30.
2355 10			
2378 10			
2417 10	0	0.3	From 1968Co22; for E=2410 30.
2455 10			
2513 10			
2539 10			
2561 10			
2624 10			
2708 10	0+2	0.06 1	For L=0; S=0.43 9 for L=2; L,S for E=2750 30.
2757 10			
2862 10			
2885 10			
2980 10			
3035 10			
3062 10			

[†] From 1967Ka22. Values from 1203 to 2216 keV include 8 keV added to authors' values, because the E(levels) are shifted systematically from other works.

[‡] From 1967Is02, unless otherwise noted. Values from 1967Is02 are relative to $\Sigma C^2S'=10$ for L=2 transitions. Correlation with levels from 1967Ka22 is uncertain above 1 MeV.