

$^{119}\text{Sn}(\text{p,d}),(\text{d,t})$ [1982FI02,1967Sc12](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	K. Kitao	NDS 75,99 (1995)	1-Feb-1993

(p,d) [1982FI02](#) E(p)=20 MeV, Enge split-pole magnetic spectrograph, energy resolution=25 keV FWHM.

Others: [1968Ya05](#) E=55 MeV; [1971Ma58](#).

(d,t) [1967Sc12](#) E(d)=15 MeV, magnetic spectrograph, energy resolution=40-60 keV FWHM.

Others: [1960Co10](#), [1961Co03](#).

 ^{118}Sn Levels

From (p,d), unless otherwise noted.

E(level)	L	S [#]	Comments
0	0	0.55 5	
1230 [†] 20	2	0.26 4	
1780 [†] 20	0	0.06 1	E(level): 1740 15 in (d,t).
2050 [†] 20	0	0.11 1	E(level): 2030 15 in (d,t).
2120 [‡] 15			
2290 [†] 20	4		
2340 20	2	0.37 5	
2470 [‡] 15			
2530 20	0	0.32 4	
2740 [†] 20	(2)	0.60 8	E(level): 2720 15 in (d,t).
2930 20	(2)	0.30 15	
3040 [‡] 15			
3250 20	(4)	0.79	E(level): from 1968Ya05 .
3430 20	4	7.3	E(level): from 1968Ya05 .
3520 20	2	0.81	E(level): from 1968Ya05 .
3670 [‡] 15			
3700 20	2	1.42	E(level): from 1968Ya05 .
3750 20	(2)	0.90 12	
3800 [‡] 15			
3890 [‡] 15			
3940 20	(2)	0.60 8	
4010 [‡] 15			
4060 20	(2)	1.2 2	
4120 20	(2)	0.5 7	

[†] Also observed in (d,t).

[‡] From (d,t).

[#] S' from DWBA analysis in (p,d).