

$^{116}\text{Sn}(\text{d,p})$

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

E=4.55, 5.15, 5.35 MeV, 25 keV FWHM ([1972Ca33](#)).

E=15 MeV, 40-60 keV FWHM ([1967Sc12](#),[1968Co32](#)).

E=32.93 MeV, 25 keV FWHM ([1983Se12](#)).

Others: [1962Ne15](#), [1961Co03](#), [1975Ch03](#).

 ^{117}Sn Levels

E(level) [†]	J ^π [†]	L [‡]	S [‡]	E(level) [†]	J ^π [†]	L [‡]	S [‡]	E(level) [†]	J ^π [†]	L [‡]	S [‡]
0	1/2 ⁺	0 [@]	0.52	2310 15	5/2 ⁺	(2)	0.004	3464 10	3/2 ⁻	(1)	0.079 [#]
157 10	3/2 ⁺	2 [@]	0.76	2360 15				3580 10			
313 10	11/2 ⁻	5 [@]	0.79	2390 15	1/2 ⁻	(1)	0.004	3637 10	3/2 ⁻	(1)	0.039 [#]
705 10	7/2 ⁺	4 [@]	0.11	2461 10	7/2 ⁻	(3) [@]	0.044	3716 10			
1015 10	5/2 ⁺	2 [@]	0.064	2545 10	7/2 ⁻	(3) [@]	0.019	3785 10	7/2 ⁻	(3) [@]	0.058
1178 10	5/2 ⁺	2 [@]	0.039	2656 10	7/2 ⁻	(3)	0.013 [#]	3875 10			
1302 10	7/2 ⁻	(3) [@]	0.037	2707 10				3950 15			
1499 10	5/2 ⁺	(2)	0.028	2770 10	3/2 ⁺	(2)	0.006	3980 15			
1589 10	5/2 ⁺	(2)	0.006 [#]	2827 10				4020 15			
1668 10	5/2 ⁺	(2)	0.007	2909 10	3/2 ⁻	(1)	0.058 [#]	4110 15			
1948 10		&		3024 10				4160 15			
2007 10				3113 10	3/2 ⁺	(2)	0.013	4210 15			
2046 10	7/2 ⁻	(3)	0.027	3140 15				4290 15			
2076 10	1/2 ⁻	(1)	0.009	3172 10				4360 15			
2146 10	3/2 ⁺	(2)	0.005	3235 10	7/2 ⁻	(3) [@]	0.12	≈4970	3/2 ⁻	(1)	0.14 [#]
2203 10				3325 10	3/2 ⁻	(1)	0.030 [#]	≈5050			
2256 10				3414 10							

[†] Assumed for DWBA analysis.

[‡] From [1972Ca33](#), except as noted.

[#] From [1967Sc12](#).

[@] From [1972Ca33](#).

& L=(1+3), S=0.003+0.002 in [1967Sc12](#).