

$^{112}\text{Sn}(\text{p,d})$ **1981BI05**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 110, 1239 (2009)	1-Feb-2008

1981BI05 $^{112}\text{Sn}(\text{p,d})$ E=27.45 MeV resolution=12-16 keV (FWHM) mag spect.

Others: **1970Ca01**: $^{112}\text{Sn}(\text{p,d})$ E=30 MeV resolution=55-70 keV (FWHM) mag Spect. Exp data are quoted by **1976Wi10**.

 ^{111}Sn Levels

E(level) [‡]	L [†]	C ² S	E(level) [‡]	L [†]	C ² S	E(level) [‡]	L [†]	C ² S
0.0	4	4.5	2275 5			3694 10	1	0.021,0.018
155 2	2	4.0	2289 5	2	0.040,0.037	3712 10	4	0.104
256 2	0	0.29	2321 5			3758 10	4	0.064
648 2	2	0.54	2374 5			3815 10	4	0.152
753 2	2	0.087	2395 5			3830 10	4	0.092
980 2	5	0.82	2433 5			3865 10	4	0.074
1035 2			2466 5	2	0.045,0.041	3952 10	(1)	0.012,0.010
1107 2	0	0.10	2505 5	4	0.042,0.035	3971 10		
1152 3	2	0.045	2533 5	(4)	0.056,0.047	4011 10		
1279 3	4	0.13	2544 5			4029 10	(1)	0.032,0.027
1305 3	2	0.18,0.17	2600 5	(1)	0.004,0.003	4079 10	4	0.073
1353 3			2639 5			4130 10	4	0.154
1417 3			2666 5			4145 10		
1432 3	2	0.009,0.008	2690 5			4176 10	4	0.325
1484 3	#		2715 5	0	0.006	4192 10	4	0.195
1585 3	2	0.12,0.11	2738 5			4232 10	4	0.160
1695 3			2786 5	2	0.013,0.012	4259 10	1+4	0.038,0.032 [@]
1732 3	0	0.009	2804 5			4286 10		
1805 3			2824 5	2		4311 10	1	0.039,0.032
1826 3	4	0.058	2867 5			4332 10	1	0.039,0.032
1866 3	(2)	0.007,0.006	2910 5			4369 10	(1)	0.011,0.009
1895 3	4	0.13	3014 10	4	0.065	4393 10		
1928 3	5	0.049	3238 10	(1)	0.010,0.009	4416 10		
1956 3	(2)		3263 10	1	0.035,0.030	4448 10		
1999 3	(2)		3443 10	4	0.091	4483 10		
2023 3	2	0.020,0.018	3496 10	1	0.038,0.032	4511 10		
2065 3			3513 10			4556 10	1	0.068,0.056
2092 5	(1)	0.056,0.048	3559 10	1+4	0.020,0.017 [@]	4580 10	1	0.081,0.066
2133 5	1	0.100,0.085	3582 10			4617 10		
2193 5			3622 10	4	0.102			
2218 5			3661 10	1	0.053,0.045			

[†] From angular distributions compared with characteristic shapes (**1981BI05**). Values for L=2 are for J=3/2 for the 648 and 1152 levels and for J=5/2 for the 155 and 753 levels. Otherwise the paired values are for 3/2,5/2. Values for L=4 are for J=7/2 for E(level)<2500, for J=9/2 for E(level)≥3014 and for J=7/2,9/2 for the 2505,2533 levels. L=5 for J=11/2, L=1 for 1/2,3/2.

[‡] From **1981BI05**. Uncertainties assigned by evaluator based on authors' statement that uncertainties range from 2 keV for the low-lying states to 10 keV for some of the high-lying states.

L=5 for 1490 level reported by **1970Ca01**.

@ For L=1. C²S=0.080 for L=4.