

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

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

E=5-10 MeV, $\sigma(\text{E})$ (1976Ma09).

 ^{117}Sn Levels

E(level)	$J^\pi^\dagger$	E(level)	$J^\pi^\dagger$	E(level)	$J^\pi^\dagger$	E(level)	$J^\pi^\dagger$
0	1/2 ⁺	711.7	7/2 ⁺	1179.4	5/2 ⁺	1468.6?	
158.5	3/2 ⁺	1004.6	3/2 ⁺	1307.8	(7/2 ⁻)	1496.5	(3/2 ⁺ , 5/2 ⁺)
317.3	11/2 ⁻	1020	5/2 ⁺	1446.5	5/2 ⁺	1578.5	

[†] From Adopted Levels.

 $\gamma(^{117}\text{Sn})$

E_γ	$I_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
158.5 3	100	158.5	3/2 ⁺	0	1/2 ⁺
158.8		317.3	11/2 ⁻	158.5	3/2 ⁺
553.2 6	8.5 4	711.7	7/2 ⁺	158.5	3/2 ⁺
^x 803.2 5	1.9 2				
846 1	2.0 5	1004.6	3/2 ⁺	158.5	3/2 ⁺
861.5 9	7.6 4	1020	5/2 ⁺	158.5	3/2 ⁺
^x 959.1 13	7.6 8				
^x 967.0 7	2.8 3				
989.7 5	4.0 6	1307.8	(7/2 ⁻)	317.3	11/2 ⁻
1004.6 6	8.1 16	1004.6	3/2 ⁺	0	1/2 ⁺
1020	<6.4	1020	5/2 ⁺	0	1/2 ⁺
1020.9	<6.4	1179.4	5/2 ⁺	158.5	3/2 ⁺
^x 1161 1	10.3 5				
1288.0 7	1.5 4	1446.5	5/2 ⁺	158.5	3/2 ⁺
1309.8 [‡] 6	6.6 3	1468.6?		158.5	3/2 ⁺
^x 1337.8 10	2.0 2				
1337.8 10	2.0 2	1496.5	(3/2 ⁺ , 5/2 ⁺)	158.5	3/2 ⁺
1420 1	1.1 2	1578.5		158.5	3/2 ⁺
1446.5 7	2.0 3	1446.5	5/2 ⁺	0	1/2 ⁺
1468.6 [‡] 3	3.0 5	1468.6?		0	1/2 ⁺
1496.3 [‡]		1496.5	(3/2 ⁺ , 5/2 ⁺)	0	1/2 ⁺
1578 1	2.0 4	1578.5		0	1/2 ⁺
^x 1793.5 5	2.0 3				
^x 1809.1 3	1.2 2				

[†] Relative photon intensity.

[‡] Placement of transition in the level scheme is uncertain.

^x γ ray not placed in level scheme.

