

$^{116}\text{Sn}(\text{p},\text{d})$     **1970Ca01**

Type	Author	History		Literature Cutoff Date
		Citation		
Full Evaluation	Jean Blachot	NDS 113, 2391 (2012)		1-Sep-2012

E=30 MeV.

Magnetic spectrograph resolution: 55-70 keV (FWHM).

Q(p,d)=-7344 15 ([1970Ca01](#)). $^{115}\text{Sn}$  Levels**1970Ca01:** syst analysis of (p,d) excitations in  $^{111}\text{Sn}$ - $^{123}\text{Sn}$ . $\Delta E$ : Uncertainty  $\geq 6$  keV.

E(level)	J $^\pi$	L $^{\ddagger}$	S $^{\#}$	Comments
0.0	1/2 $^+$	0	14.0	J $^\pi$ : from Adopted Levels.
501		2	3.22	
623		4	2.12	
729		5	0.65	
998		2	15.3	
1282		2	0.27	
1419		2	0.36	
1652		2	0.34	E(level): may correspond with 1644-keV state; see $(\alpha,\text{n}\gamma)$ .
1753	2@		0.49	E(level): may correspond with 1734-keV state; see $(\alpha,\text{n}\gamma)$ , $^{115}\text{Sb}$ decay.
1840		4	0.07	E(level): may correspond with 1857-keV state; see $(\alpha,\text{n}\gamma)$ , $^{115}\text{Sb}$ decay.
1980		0	1.75	
2060	2@		0.28	
2280	(1+2)		0.15	
2360				
2390				
2510		(2)	0.07	
2590		1	0.65	
2810		2@	0.14	
2950			0.07	

 $^{\dagger}$  Uncertainty  $\geq 6$  keV. $^{\ddagger}$  From angular distributions compared with characteristic shapes. $^{\#}$  Cross section (mb/sr) at peak angle.@ 5/2 $^+$  assigned to L=2 transfer ([1970Ca01](#)) on the basis of J dependence of (p,d) angular distributions.