

<sup>118</sup>Sn(p,p),(p,p'),(p,n) IAS 1966Ri06,1966Ha16,1968Ve08

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. M. Symochko, E. Browne, J. K. Tuli		NDS 110,2945 (2009)	1-Dec-2008
(p,p):	1968Ve08	E(p)=6.5-9.5 MeV; semi, measured $\sigma(E(p),\theta)$ , $\theta=71^\circ, 138^\circ$ ; deduced J		
	1966Ri06	E(p)=6.2-9.4 MeV; semi, measured $\sigma(E(p),\theta)$ , $\theta=90^\circ, 125^\circ, 165^\circ$ ; deduced widths, L		
(p,p')	1966Al10	E(p)=8.2-12 MeV; magnetic spectrograph, measured $\sigma(E(p))$ at $\theta=90^\circ$ ; 34 resonances reported		
(p,n):	1966Ha16	E(p)=7-9 MeV; proportional counter, measured $\sigma(E(p))$ at $\theta=90^\circ$ ; deduced $\Gamma$ , Coulomb displacement energy		
	1966Ri06	E(p)=7.0-8.7 MeV; neutron tof, measured $\sigma(E(p))$ ; deduced Coulomb displacement energy		
Others:	<sup>119</sup> Sn(p,np) (1975Fi01,1977Fi10,1978Fi07,1974Wh06,1971Mi03, 1977Ba52)			
	<sup>119</sup> Sn( <sup>3</sup> He,t) (1976Be49,1995Ph01)			

<sup>119</sup>Sb Levels

Coulomb displacement energy=13728 20 (1976Be49), 13728 15 (1966Ha16), 13667 30 (1977Ba52).

E(level) <sup>†</sup>	J <sup><math>\pi</math></sup>	L	Comments
0.0			
12367 12	1/2 <sup>+</sup>	0	E(p)(C.M.)=7258 8; weighted average of 7255 15 (1966Ri06), 7261 10 (1966Ha16), and 7251 20 (1976Be49). Others: 7280 (1966AlZY), 7230 60 (1971Mi03). $\Gamma=39.9$ keV, $\Gamma(p)=10.5$ keV (1976Be49). $\Gamma=50$ keV, $\Gamma(p)=17$ keV (1966Ri06). $\Gamma=60.5$ keV (1966Ha16). $\Gamma(p)/\Gamma=0.320$ 15 (1977Fi10), 0.38 5 (1971Mi03), $\approx 0.3$ (1977Ba52). J <sup><math>\pi</math></sup> : IAS of the 1/2 <sup>+</sup> g.s. in <sup>119</sup> Sn.
12385 17	3/2 <sup>+</sup>	2	E(p)(C.M.)=7276 15 (1966Ri06). Other: 7300 (1966AlZY). $\Gamma=32$ keV; $\Gamma(p)=5$ keV (1966Ri06), $\Gamma(p)=7$ keV (1968Ve08). J <sup><math>\pi</math></sup> : IAS of the 23.9-keV 3/2 <sup>+</sup> level in <sup>119</sup> Sn.
13169	7/2 <sup>+</sup>		J <sup><math>\pi</math></sup> : IAS of the 787-keV 7/2 <sup>+</sup> level in <sup>119</sup> Sn.
13299	3/2 <sup>+</sup>		J <sup><math>\pi</math></sup> : IAS of the 920-keV 3/2 <sup>+</sup> level in <sup>119</sup> Sn.
13432 12	5/2 <sup>+</sup>	2	E(p)(C.M.)=8323 9; weighted average of 8328 15 (1966Ri06) and 8321 10 (1966Ha16). Other: 8350 (1966AlZY). $\Gamma=37$ keV, $\Gamma(p)=3$ keV (1966Ri06). $\Gamma=50.5$ keV (1966Ha16). J <sup><math>\pi</math></sup> : IAS of the 1089-keV 5/2 <sup>+</sup> level in <sup>119</sup> Sn.
13707 17	5/2 <sup>+</sup>		E(p)(C.M.)=8598 15 (1966Ri06). Other: 8630 (1966AlZY). $\Gamma\approx 40$ keV, $\Gamma(p)\approx 1.7$ keV (1968Ve08). J <sup><math>\pi</math></sup> : IAS of the 1355-keV 5/2 <sup>+</sup> level in <sup>119</sup> Sn.
14289			E(p)(C.M.)=9180 (1966AlZY). $\Gamma\approx 70$ keV, $\Gamma(p)\approx 4$ keV (1966Ri06).

<sup>†</sup> From S(p)=5109 8 (1995Au04)+res E(p)(C.M.).