^{120}Sn(p,p),(pol p,p) IAS 1966Ri06,1968Ve08,1975Ar04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

1966Ri06: (p,p),(p,n), E(lp)=7.2-9.1 MeV, enriched target, measured σ(E(p),θ), deduced widths, L; the level energies from (p,n) are consistent with those from (p,p).

1968Ve08: (p,p) E(p)=6.5-9.5 MeV; semi, measured σ(E(p),θ), deduced J.

1975Ar04: E(pol p)=9.6-11.5 MeV, enriched target, measured excitation $\sigma(\theta)$, analyzing power(E,θ); deduced res energy, Γ(total), Γ(p), J^π, $\sigma(\theta)$, analyzing power(E,θ), uncertainties in E(res) range from 5 to 20 keV; Evaluator assumed ΔE to be 20keV.

Others: 1966Ha16, 1970Ar23, 1971Da18, 1976Be49, 1977Ba52.

Coulomb displacement energy=13665 *20*, calculated by evaluator from E(res) + S(n) (^{121}Sn) with E(res) of 3/2$^+$ state.

^{121}Sb Levels

E(level)[@]	J$^\pi$[‡]	$T_{1/2}$	L[&]	Comments
13274[†] *15*	3/2$^+$[#]	39 keV	2	E(level): IAR of g.s. 3/2$^+$ in ^{121}Sn Γ(p)=7.5 keV.
13349[†] *15*	1/2$^+$[#]	60 keV	0	E(level): IAR of 60.3-keV, 1/2$^+$ state in ^{121}Sn Γ(p)=24 keV.
14400[†] *15*	5/2$^+$[#]	53 keV	2	E(level): IAR of 1120-keV, 5/2$^+$ state in ^{121}Sn Γ(p)=3 keV.
14703[†] *15*	5/2$^+$[#]	38 keV	2	E(level): IAR of 1432-keV, 5/2$^+$ state in ^{121}Sn Γ(p)=1.5 keV.
15870 *20*	7/2$^-$	28 keV	3	E(level): IAR of 2589-keV, 7/2$^-$ state in ^{121}Sn; Γ(p)=2.2 keV.
15952 *20*	7/2$^-$	70 keV	3	E(level): IAR of 2666-keV, 7/2$^-$ state in ^{121}Sn; Γ(p)=10.8 keV.
16210 *20*	(7/2$^-$)	50 keV	(3)	E(level): IAR of 2927-keV, (7/2$^-$) state in ^{121}Sn; Γ(p)=2.0 keV.
16302 *20*	(7/2$^-$)	42 keV	(3)	E(level): IAR of 3019-keV, (7/2$^-$) state in ^{121}Sn; Γ(p)=1.3 keV.
16399 *20*	(7/2$^-$)	58 keV	(3)	E(level): IAR of 3138-keV (7/2$^-$) state in ^{121}Sn; Γ(p)=1.5 keV.
16595 *20*	(7/2$^-$)	78 keV	(3)	E(level): IAR of 3326-keV, (7/2$^-$) state in ^{121}Sn; Γ(p)=2.3 keV.
16667 *20*	3/2$^-$	107 keV	1	E(level): IAR of 3396-keV 3/2$^-$ state in ^{121}Sn; Γ(p)=6.6 keV.
16795 *20*	3/2$^-$	52 keV	1	E(level): IAR of 3510-keV, 3/2$^-$ state in ^{121}Sn; Γ(p)=5.0 keV.
16940 *20*	(3/2$^-$)	110 keV	1	E(level): IAR of 3680-keV, (3/2$^-$) state in ^{121}Sn; Γ(p)=6.2 keV.

[†] From ^{120}Sn(p,p) cross-section measurement (1966Ri06), and ^{120}Sn(p,p) polarization measurement (1968Ve08).

[‡] Determined from L and the analyzing power excitation function (1975Ar04), except where noted otherwise.

[#] L values from 1966Ri06 and J values from 1968Ve08.

[@] From S(p)=5778.5 *21* (2009AuZZ)+res E(p)(c.m.).

[&] From optical-model calculation for angular distribution.