^{122}Sn(p,d) 1970Ca01,1982Fl02

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

1970Ca01: E(p)=30 MeV, enriched target, magnetic spectrograph, FWHM(d)=55-70 keV, $\sigma(\theta)$ $\theta \leq 60°$.
1982Fl02: E(p)=20 MeV, DWBA analysis was used to deduce spectroscopic factors.

^{121}Sn Levels

E(level)[†]	L	S[@]	Comments
0[‡]	2+5	4.5 *15*	
60	0	1.9 *15*	
934[#]	2+4		
1127	2	3.20 *35*	E(level): other: 1140 (1982Fl02). J^π: $5/2^+$ from J-dependence of $\sigma(\theta)$ for L=2 (1970Ca01).
1419	2	2.80 *35*	J^π: $5/2^+$ from J-dependence of $\sigma(\theta)$ for L=2 (1970Ca01).
1730	2		J^π: $3/2^+$ from J-dependence of $\sigma(\theta)$ for L=2 (1970Ca01).
1900	0		
1930	2		J^π: $3/2^+$ from J-dependence of $\sigma(\theta)$ for L=2 (1970Ca01).
1980	(0)		
2220	(2)		
2280	0		
2330			
2490	5		
2680			
2720	4		
2800	2		J^π: $3/2^+$ from J-dependence of $\sigma(\theta)$ for L=2 (1970Ca01), but $J^\pi=(3/2)^+$ in Adopted Levels.
2830	(3)		
2950	1		
3010	2		J^π: $3/2^+$ from J-dependence of $\sigma(\theta)$ for L=2 (1970Ca01).
3140	2		J^π: $3/2^+$ from J-dependence of $\sigma(\theta)$ for L=2 (1970Ca01).
3220			

[†] E(levels) are values from 1970Ca01. No uncertainties are given by the authors.
[‡] Unresolved doublet of g.s.and an excited level with E<10 keV. The adopted excited level has E=6.3 keV.
[#] Unresolved doublet. Adopted energies are 908.6 and 925.59.
[@] S factor from DWBA analysis using DWUCK code (1982Fl02).