^{119}Sn(d,p),(t,d),(pol d,p)   **1964No06,1975Ko19,1979Ch08**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	K. Kitao, Y. Tendow and A. Hashizume	NDS 96,241 (2002)	1-Dec-2001

$J^\pi(^{119}$Sn$)=1/2^+$.

Q(d,p)=6890 *12* (1964No06).

(d,p)	1964No06:	E=11-12 MeV, mag spectrograph.
	1967Sc12:	E=15 MeV, 40-60 keV(FWHM), deduced S
(pol D,P)	1975Ko19:	E=12 MeV; semi, $\sigma(\theta)$
		θ=15 °-135 °, deduced S
(t,d)	1979Ch08:	E=4.25-5.75 MeV; semi, $\sigma(\theta)$
		θ=120 °-160 °, deduced S

^{120}Sn Levels

E(level)[†]	L[@]	S[@]	Comments
0.0	0	0.65	S: other: 1.30 (t,d).
1170	2	0.15	S: others: 0.18 if d3/2$^+$ transfer in (pol d,p), uncertain by a factor of 3; 0.06 (t,d).
1875[#]	0	0.039	E(level): 1875 in (t,d).
			S: other: 0.078 in (t,d).
2100			
2166[‡]	0	0.023	E(level): 2160 in (t,d).
			S: other: 0.046 in (t,d).
2297[‡]	0	0.072	
2355[#]			
2421[#]	2	0.52	E(level): 2421 in (t,d).
			S: other: 0.21 in (t,d).
2587[‡]	0	0.32	E(level): 2587 in (t,d).
			S: other: 0.32 in (t,d).
2728[#]	2	0.11	
2800[‡]			
2835[‡]	2	0.83	
2930[#]	2	0.57	
2997[‡]			
3160			
3210	2	0.030	
3290			
3390			
3470			
3550	2	0.14	L: value applies to unresolved 3550+3580 doublet.
3580			
3600			
3660			
3710	2	0.11	L: value applies to unresolved 3660+3710+3730 triplet.
3730			
3800			
3880	2	0.11	
3940			
3990			
4060	2	0.088	
4190	2	0.20	
4350			

^{119}Sn(d,p),(t,d),(pol d,p)   1964No06,1975Ko19,1979Ch08 (continued)

^{120}Sn Levels (continued)

[†] Energy values are from (d,p) (1964No06), unless otherwise noted.

[‡] Values are renormalized with a calibration curve using values (1171, 1875, 2097, 2355, 2421, 2728, and 2930) of Adopted Levels.

[#] Values from Adopted Levels.

[@] From (d,p) (1967Sc12), unless otherwise noted.