

(HI,xn γ) 1987Lu06

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

1987Lu06: $^{116}\text{Cd}(^7\text{Li},\text{p}2\text{n}\gamma)$ E=26,30,35,40 MeV; γ , off-beam γ , $T_{1/2}$.

The decay scheme is that proposed by 1987Lu06 based on the off-beam γ -spectrum measurement.

 ^{120}Sn Levels

E(level) [†]	J $^\pi$ [†]	T $_{1/2}$	Comments
0.0	0 $^+$	stable	
1171.265 15	2 $^+$		
2194.292 21	4 $^+$		
2284.16 6	5 $^-$		
2481.61 6	7 $^-$	11.8 μs 5	$T_{1/2}$: from ^{120}Sb ε decay (5.76 d).
2836.51 7	(8 $^+$)		
2902.21 21	(10 $^+$)	6.26 μs 11	$T_{1/2}$: from γ -multiscaling of the 354.9 γ .

[†] From Adopted Levels.

 $\gamma(^{120}\text{Sn})$

E $_\gamma$ [†]	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	Mult.	δ	α^{\ddagger}	I $_{(\gamma+ce)}$	Comments
65.7 2	2902.21	(10 $^+$)	2836.51	(8 $^+$)	(E2)	7.21	22		$\alpha(K)=4.32$; $\alpha(L)=2.32$; $\alpha(M)=0.473$; $\alpha(N+..)=0.097$
89.87 16	2284.16	5 $^-$	2194.292	4 $^+$					I $_\gamma$: I(354.9 γ)/I(65.7 γ)=8.7 10.
197.37 2	2481.61	7 $^-$	2284.16	5 $^-$					Mult.: from intensity ratio of 65.7 γ and 354.9 γ if both γ 's occur in cascade.
354.90 5	2836.51	(8 $^+$)	2481.61	7 $^-$	D(+Q)	-0.2 2			Mult., δ : from Adopted Levels, gammas.
1023.048 18	2194.292	4 $^+$	1171.265	2 $^+$					
1171.25 2	1171.265	2 $^+$		0.0	0 $^+$				

[†] From adopted gammas, except for the 65.7 γ .

[‡] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

(HI,xn γ) 1987Lu06Level Scheme