^{106}Cd(^{3}He,2nγ)   **1984Au12**

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	Jean Blachot	NDS 109, 1383 (2008)	1-Mar-2008

E(^{3}He)=20 MeV.
Measured: γ, Iγ, $\gamma(\theta)$, $\gamma\gamma$, A$_2$/A$_0$.

^{107}Sn Levels

E(level)	J$^{\pi\dagger}$	E(level)	J$^{\pi\dagger}$	E(level)	J$^{\pi\dagger}$	E(level)
0	(5/2$^+$)	1350.0‡ 5	(11/2$^+$)	1798.8 7	(13/2$^+$)	2145.0 7
151.4‡ 3	(7/2$^+$)	1370.8 6	(9/2$^+$)	1943.1 6	(13/2$^+$)	2804.0? 8
1223.1 5	(9/2$^+$)	1668.1 6	(11/2$^-$)	2067.0‡ 6	(15/2$^+$)	

† From Adopted Levels.
‡ Band(A): positive-parity band with L=2 character built on the g7/2 neutron orbit.

$\gamma(^{107}$Sn)

E$_\gamma$	I$_\gamma$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.†	$\alpha^\ddagger$	Comments
123.9 3		2067.0	(15/2$^+$)	1943.1	(13/2$^+$)			
151.4 3	105 9	151.4	(7/2$^+$)	0	(5/2$^+$)	(M1)	0.178	
428.0 4		1798.8	(13/2$^+$)	1370.8	(9/2$^+$)			
445.0 4		1668.1	(11/2$^-$)	1223.1	(9/2$^+$)			I$_\gamma$: weak.
659.0 4		2804.0?		2145.0				
717.0 5	62 7	2067.0	(15/2$^+$)	1350.0	(11/2$^+$)			
720.0 5	35 8	1943.1	(13/2$^+$)	1223.1	(9/2$^+$)			
795.0 5	16 5	2145.0		1350.0	(11/2$^+$)			
1198.6 5	100	1350.0	(11/2$^+$)	151.4	(7/2$^+$)	Q		
1219.4 5	37 5	1370.8	(9/2$^+$)	151.4	(7/2$^+$)			
1223.1 5	75 6	1223.1	(9/2$^+$)	0	(5/2$^+$)	Q		

† Based on $\gamma(\theta)$. $\Delta\pi$=no for 151γ based on level scheme.
‡ 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.
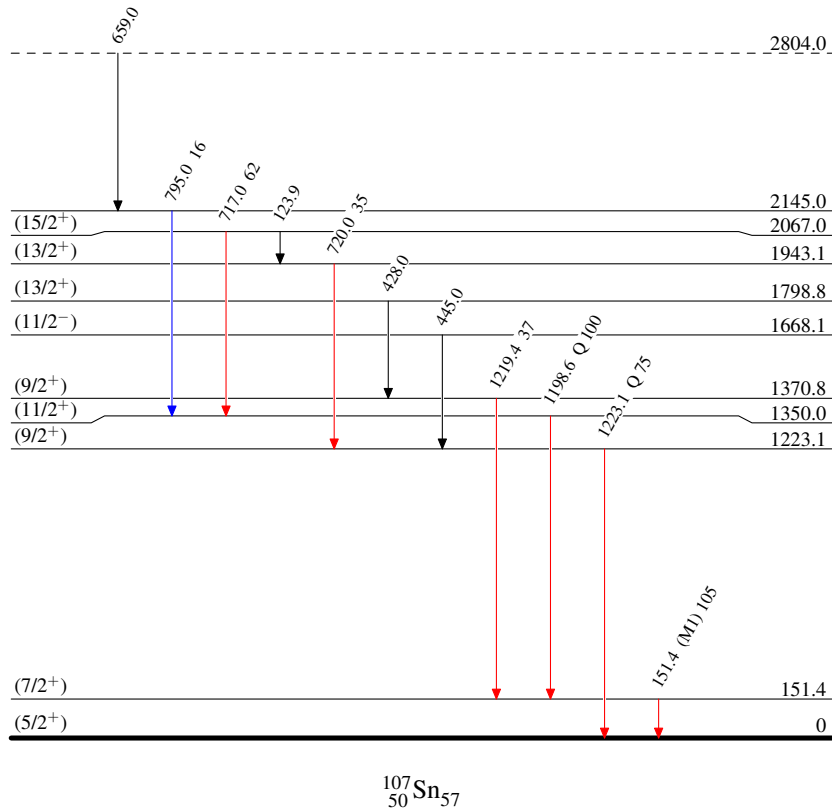
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Level Scheme

Intensities: Relative I$_\gamma$

Legend

→	I$_\gamma$ < 2%×I$_\gamma^{max}$
→	I$_\gamma$ < 10%×I$_\gamma^{max}$
→	I$_\gamma$ > 10%×I$_\gamma^{max}$

$^{107}_{50}Sn_{57}$

$^{106}\text{Cd}(^3\text{He},2n\gamma)$ **1984Au12**

Band(A): Positive-parity band with L=2 character built on the g7/2 neutron orbit

$(15/2^+)$ 2067.0

717

$(11/2^+)$ 1350.0

1199

$(7/2^+)$ 151.4

$^{107}_{50}\text{Sn}_{57}$

$^{106}\text{Cd}(^3\text{He},2n\gamma)$ **1984Au12**