

¹¹⁴Cd(⁶Li,3n γ) **1979Sh03**

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

E<35 MeV, $\gamma\gamma$, $\gamma(\theta)$ (1975Ga11).

E=34 MeV, $\gamma\gamma$, $\gamma(\theta)$ (1979Sh03).

¹¹⁷Sb Levels

E(level)	J π [†]	E(level)	J π [†]	E(level)	J π [†]	E(level)	J π [†]
0	5/2 ⁺	1534 [‡]	11/2 ⁺	2624 [‡]	17/2 ⁺	3130	(25/2) ⁺
527.0	7/2 ⁺	1871 [‡]	13/2 ⁺	2779	(19/2) ⁻	3625 [‡]	
1160 [‡]	9/2 ⁺	2237 [‡]	15/2 ⁺	2874	(19/2) ⁻		
1311	9/2 ⁺	2323	(15/2) ⁻	3057 [‡]	19/2 ⁺		
1323	11/2 ⁻	2525	(17/2) ⁻	3072	(21/2) ⁻		

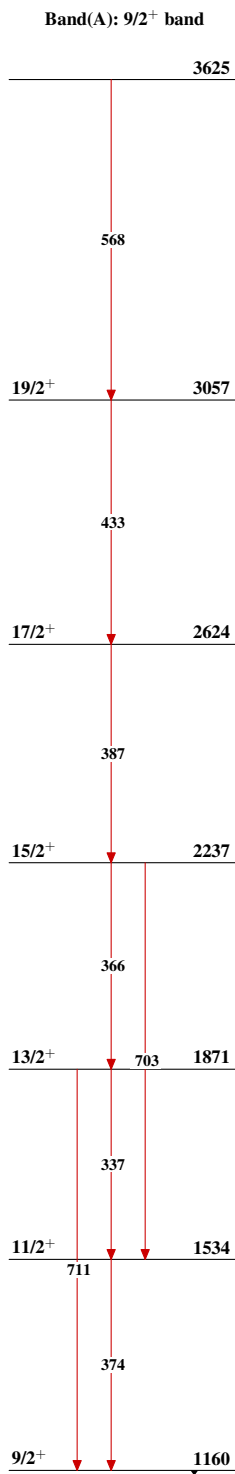
[†] From Adopted Levels.

[‡] Band(A): 9/2⁺ band.

$\gamma(^{117}\text{Sb})$

E γ	I γ	E _i (level)	J π _i [†]	E _f	J π _f [†]	Mult. [†]	δ [†]	Comments
12.6 2		1323	11/2 ⁻	1311	9/2 ⁺			
58.3 2		3130	(25/2) ⁺	3072	(21/2) ⁻			
162.7 2	9 2	1323	11/2 ⁻	1160	9/2 ⁺			
197.2 2	90 10	3072	(21/2) ⁻	2874	(19/2) ⁻	M1+E2	0.10 6	
202.1 2	91	2525	(17/2) ⁻	2323	(15/2) ⁻	M1+E2	0.03 5	
250.4 2	17 2	2874	(19/2) ⁻	2624	17/2 ⁺			
254.3 5	30	2779	(19/2) ⁻	2525	(17/2) ⁻	D+Q	0.03 8	
292.6		3072	(21/2) ⁻	2779	(19/2) ⁻			
336.8 2	81	1871	13/2 ⁺	1534	11/2 ⁺	M1+E2	0.15 5	
349.8 5	37	2874	(19/2) ⁻	2525	(17/2) ⁻	M1+E2	0.02 8	
365.7 2	63	2237	15/2 ⁺	1871	13/2 ⁺	M1+E2	0.10 5	
374.3 2	100	1534	11/2 ⁺	1160	9/2 ⁺	M1+E2	0.23 5	
387.1 5	47	2624	17/2 ⁺	2237	15/2 ⁺	M1+E2	0.16 9	
432.8 5	37	3057	19/2 ⁺	2624	17/2 ⁺			
456.9 5	15 2	2779	(19/2) ⁻	2323	(15/2) ⁻	Q		Mult.: $\delta=-0.06$ 20.
527.0 2	91	527.0	7/2 ⁺	0	5/2 ⁺	M1+E2	-0.37 6	
551.9 2	43	2874	(19/2) ⁻	2323	(15/2) ⁻	E2		Mult.: $\delta=-0.24$ 27.
568.0 1		3625		3057	19/2 ⁺			
702.8 5	14 3	2237	15/2 ⁺	1534	11/2 ⁺			
711.4 5	14 3	1871	13/2 ⁺	1160	9/2 ⁺	E2		Mult.: $\delta=-0.16$ 19.
795.5 4	50	1323	11/2 ⁻	527.0	7/2 ⁺	[M2]		Mult.: $\delta=0.05$ 20.
1000 5	151	2323	(15/2) ⁻	1323	11/2 ⁻			
1160.2 4	127	1160	9/2 ⁺	0	5/2 ⁺			
1310.9 4	70	1311	9/2 ⁺	0	5/2 ⁺			
1322.9 5	92	1323	11/2 ⁻	0	5/2 ⁺			

[†] From 1979Sh03, based upon $\gamma(\theta)$ and reaction mechanism.

$^{114}\text{Cd}(^6\text{Li},3n\gamma)$ 1979Sh03 $^{117}_{51}\text{Sb}_{66}$