

$^{106}\text{Cd}(p,n\gamma)$ 1984Fi05

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne and A. Negret		NDS 109, 943 (2008)	1-May-2007

E(p)=7-9 MeV. Measured: E γ , $\gamma\gamma$, γ -ray excitation function β^+ delayed γ -ray excitation functions. Deduced: ^{106}In levels, J^π , mass excess.

 ^{106}In Levels

E(level)	J^π [†]	Comments
0.0	7 ⁺	
28.6 4	(3 ⁺)	J^π : In contradiction with adopted (2) ⁺ .
123.2 1		J>5 suggested by 1984Fi05.
151.1 4	(2,1 ⁺)	J^π : (2) ⁺ from Adopted Levels.
203.7 4	(3) ⁺	
223.60 15	(5)	
253.0 4	(3)	J^π : (3) ⁺ from Adopted Levels.
306.2 4	(4)	
390.0 3		J>5 suggested by 1984Fi05.
506.2 5	(2,1)	J^π : (1 ⁺) from Adopted Levels.
753.4 5	(3,4)	
758.9 4		J>5 suggested by 1984Fi05.
892.9 5	1 ⁺	
1218.6 6	1 ⁺	

[†] Based on suggestions from comparison of excitation functions with Hauser-Feshbach calculations.

 $\gamma(^{106}\text{In})$

No I γ values given by the authors.

E γ	E $_i$ (level)	J^π_i	E $_f$	J^π_f	E γ	E $_i$ (level)	J^π_i	E $_f$	J^π_f
49.3 1	253.0	(3)	203.7	(3) ⁺	326 1	1218.6	1 ⁺	892.9	1 ⁺
52.6 1	203.7	(3) ⁺	151.1	(2,1 ⁺)	369.0 3	758.9		390.0	
83.8 2	390.0		306.2	(4)	386.8 3	892.9	1 ⁺	506.2	(2,1)
100.4 1	223.60	(5)	123.2		447 1	753.4	(3,4)	306.2	(4)
101.9 1	253.0	(3)	151.1	(2,1 ⁺)	477.5 3	506.2	(2,1)	28.6	(3 ⁺)
122.5 1	151.1	(2,1 ⁺)	28.6	(3 ⁺)	535 1	758.9		223.60	(5)
123.2 1	123.2		0.0	7 ⁺	602.3 3	753.4	(3,4)	151.1	(2,1 ⁺)
155.1 1	306.2	(4)	151.1	(2,1 ⁺)	712 1	1218.6	1 ⁺	506.2	(2,1)
224.4 2	253.0	(3)	28.6	(3 ⁺)	725 1	753.4	(3,4)	28.6	(3 ⁺)
247 1	753.4	(3,4)	506.2	(2,1)	864 1	892.9	1 ⁺	28.6	(3 ⁺)
253.3 2	506.2	(2,1)	253.0	(3)	1190.0 5	1218.6	1 ⁺	28.6	(3 ⁺)
266.8 3	390.0		123.2						

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Level Scheme

