

¹¹²Cd(p,p) IAR 1970Mi08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 111, 1471 (2010)	1-May-2009

E=6-11 MeV. Measured $\sigma(E(p),\theta)$, $\theta=90^\circ, 120^\circ, 150^\circ, \text{ and } 170^\circ$, semi, 1970Mi08.

For level widths, see 1970Mi08.

Others: 1969Ab09, 1975Ab09, 1977So10.

¹¹³In Levels

E(level) [#]	J ^π [‡]	L [†]	Comments
12873	1/2 ⁺	0	IAS of 1/2 ⁺ ¹¹³ Cd g.s..
13180	3/2 ⁺	2	IAS of 299 keV, (3/2 ⁺) ¹¹³ Cd excitation.
13417	5/2 ⁺	2	IAS of 584 keV, 5/2 ⁺ ¹¹³ Cd excitation.
13531	3/2 ⁺	2	IAS of 681 keV, (3/2 ⁺) ¹¹³ Cd excitation.
13738	1/2 ⁺	0	IAS of 884 keV, 1/2 ⁺ ¹¹³ Cd excitation.
13857	1/2 ⁺	0	IAS of 988 keV, 1/2 ⁺ ¹¹³ Cd excitation.
14064	5/2 ⁺	2	
14379	3/2 ⁺	2	
14478	3/2 ⁺	2	
14673?	(5/2 ⁺)	(2)	
15033	1/2 ⁺	0	
15086?	(1/2 ⁺)	(0)	
15131	7/2 ⁻	3	
15325?	(3/2 ⁻)	(1)	
15466	3/2 ⁻	1	
15508	7/2 ⁻	3	
15600?	(3/2 ⁻)	(1)	
15629	(7/2 ⁻)	(3)	
15674?	(1/2 ⁺)	(0)	
15748	7/2 ⁻	3	
15791?	(7/2 ⁻)	(3)	
15870?	(5/2 ⁺)	(2)	
15924?	(1/2 ⁺)	(0)	
15961?	(5/2 ⁺)	(2)	
16028	3/2 ⁻	1	
16136	3/2 ⁻	1	
16226	7/2 ⁻	3	
16334?	(3/2 ⁻)	(1)	
16493?	(1/2 ⁺)	(0)	
16587	3/2 ⁻	1	

[†] From shape of $\sigma(E(p),\theta)$.

[‡] Based on L-values, known J^π in ¹¹³Cd or shell-model considerations.

[#] From S(p)=6074 4 (1985Wa02) + res E(p)(C.M.) (1970Mi08).