

$^{116}\text{Cd}(\text{}^3\text{He,d})$ 1972Ha09

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

E=27 MeV, 20-keV FWHM (1972Ha09). Also, $^{116}\text{Cd}(\alpha,t)$ at 25.5 MeV.

E=25 MeV, 70-keV FWHM (1971Is07).

All data are from 1972Ha09, unless otherwise noted.

 ^{117}In Levels

E(level)	J π #	L	C ² S' \ddagger	Comments
0	9/2 ⁺	4	1.37	
315 15	1/2 ⁻	1	0.29	
588 15	3/2 ⁻	1	0.34	
655 15	3/2 ⁺	2	1.05	
746 [†] 15	1/2 ⁺	0	0.28	
746 [†] 15	7/2 ⁺	4	3.4	
877 15	5/2 ⁺	2	2.76	
1048 15	5/2 ⁺	2	0.18	
1360 15	5/2 ⁺	2	0.16	L: L=4, C ² S'=0.52 10 reported by 1971Is07.
1603 15	5/2 ⁺	2	1.70	
1653 15	5/2 ⁺	2	0.22	
1696 20	3/2 ⁺	2	0.21	
1774 15	5/2 ⁺	2	0.14	
1883 15	1/2 ⁺	0	0.21	
2005 15	3/2 ⁺	2	1.0	
2047 20	3/2 ⁺	2	0.31	
2159 15	3/2 ⁺	2	0.31	
2223 15	3/2 ⁺	2	0.48	
2255 15	3/2 ⁺	2	0.30	
2308 15	7/2 ⁺	4	2.1	
2372 15				
2481 15				
2525 [†] 15	1/2 ⁺	0	<0.12	
2525 [†] 15	(7/2 ⁺ ,11/2 ⁻)	(4,5)		L: deduced from large $^{116}\text{Cd}(\alpha,t)$ cross section (1972Ha09).
2560 15	3/2 ⁺	2	0.64	
2642 15				
2755 15	3/2 ⁺	2	0.80	

[†] Unresolved doublet.

[‡] C²S' from 1972Ha09. Normalized to sum=2.0 for 0, 315, 588 levels.

Spin assumed for DWBA calculations.