

$^{116}\text{Cd}(\text{p},\text{p}'\gamma)$ 1992Ku01,1978Ha33

Type	Author	History
Full Evaluation	Jean Blachot	Citation
		NDS 111, 717 (2010)

E(p)=5-20 MeV (1978Ha33). E(p)=7-9 MeV (1992Ku01).

Measured: γ (semi), $\gamma\gamma$, $\text{p}\gamma$ coin, ce (1992Ku01). ^{116}Cd Levels

E(level)	J^π [†]	E(level)	J^π [†]	E(level)	J^π [†]	E(level)
0.0	0^+	1380.2	0^+	1951.0	2^+	2296
513.5	2^+	1641.5	2^+	2027.7		2371
1212.7	2^+	1915.2	3^+	2115		2386
1219.0	4^+	1921.3	3^- [‡]	2121?		2604
1282.5	0^+	1927.8	(0^+)	2250		2648

[†] From 1992Ku01.[‡] Deduced from excitation function and coupled-channel calculations. $\gamma(^{116}\text{Cd})$

E_γ [†]	I_γ [‡]	E_i (level)	J_i^π	E_f	J_f^π	E_γ [†]	I_γ [‡]	E_i (level)	J_i^π	E_f	J_f^π		
195		2115		1921.3	3^-	1212.6	3	75	1212.7	2^+	0.0	0^+	
422.7	3	<1.3	1641.5	2^+	1219.0	4^+	1385		2604		1219.0	4^+	
513.9	3	1000	513.5	2^+	0.0	0^+	1401.8	3	<2.7	1915.2	3^+	513.5	2^+
699.4	3	129	1212.7	2^+	513.5	2^+	1407.5	3	50	1921.3	3^-	513.5	2^+
702.7	3	<1.3	1915.2	3^+	1212.7	2^+	1414.3	3	103	1927.8	(0^+)	513.5	2^+
705.5	3	4.3	1219.0	4^+	513.5	2^+	1437.5	3	9	1951.0	2^+	513.5	2^+
708.7	3	15	1921.3	3^-	1212.7	2^+	1601.5		2115		513.5	2^+	
769.0	3	40	1282.5	0^+	513.5	2^+	1607.3 [#]		2121?		513.5	2^+	
807.9			2027.7		1219.0	4^+	1641.5	3	13	1641.5	2^+	0.0	0^+
866.7	3	31	1380.2	0^+	513.5	2^+	1736.0		2250		513.5	2^+	
1029.2			2250		1219.0	4^+	2091		2604		513.5	2^+	
1038.6 [#]			2250		1212.7	2^+	2604		2604		0.0	0^+	
1128.5	3	15	1641.5	2^+	513.5	2^+							

[†] From 1992Ku01 up to the level 1951 keV, from 1978Ha33 for the 2296 to 2250 levels and from 1973De12 for higher levels.[‡] From 1992Ku01 up to level 1951 keV (15% uncertainty). 1973De12 give branching ratios.

Placement of transition in the level scheme is uncertain.

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Legend

Level Scheme

Intensities: Relative I_γ

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- - - → γ Decay (Uncertain)

