

$^{176}\text{Yb}(^{28}\text{Si}, \text{F}\gamma)$ 2000Bu06

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 111, 717 (2010)	1-Dec-2009

E=145 MeV. Taken from XUNDL.

Measured: γ , $\gamma\gamma$, $\gamma(\theta)$ using EUROGAM2 array which consisted of 15 large escape-suppressed Ge detectors and 24 escape-suppressed "clover" Ge detectors.

 ^{116}Cd Levels

E(level) [†]	J ^π [‡]	E(level) [†]	J ^π [‡]	E(level) [†]	J ^π [‡]	E(level) [†]	J ^π [‡]
0.0 [#]	0 ⁺	2248.7 [@] 4	5 ⁻	2873.2 4	8 ⁺	4059.2 [@] 5	(11 ⁻)
513.4 [#] 2	2 ⁺	2693.0 [@] 4	(7 ⁻)	3040.0 [#] 4	10 ⁺	4380.4 [#] 5	(14 ⁺)
1219.4 [#] 3	4 ⁺	2824.8 [#] 4	8 ⁺	3382.3 [@] 4	(9 ⁻)		
2026.6 [#] 4	6 ⁺	2828.2 4	(6 ⁻)	3578.4 [#] 5	12 ⁺		

[†] From E γ 's, assuming $\Delta(E\gamma)=0.2$ keV.

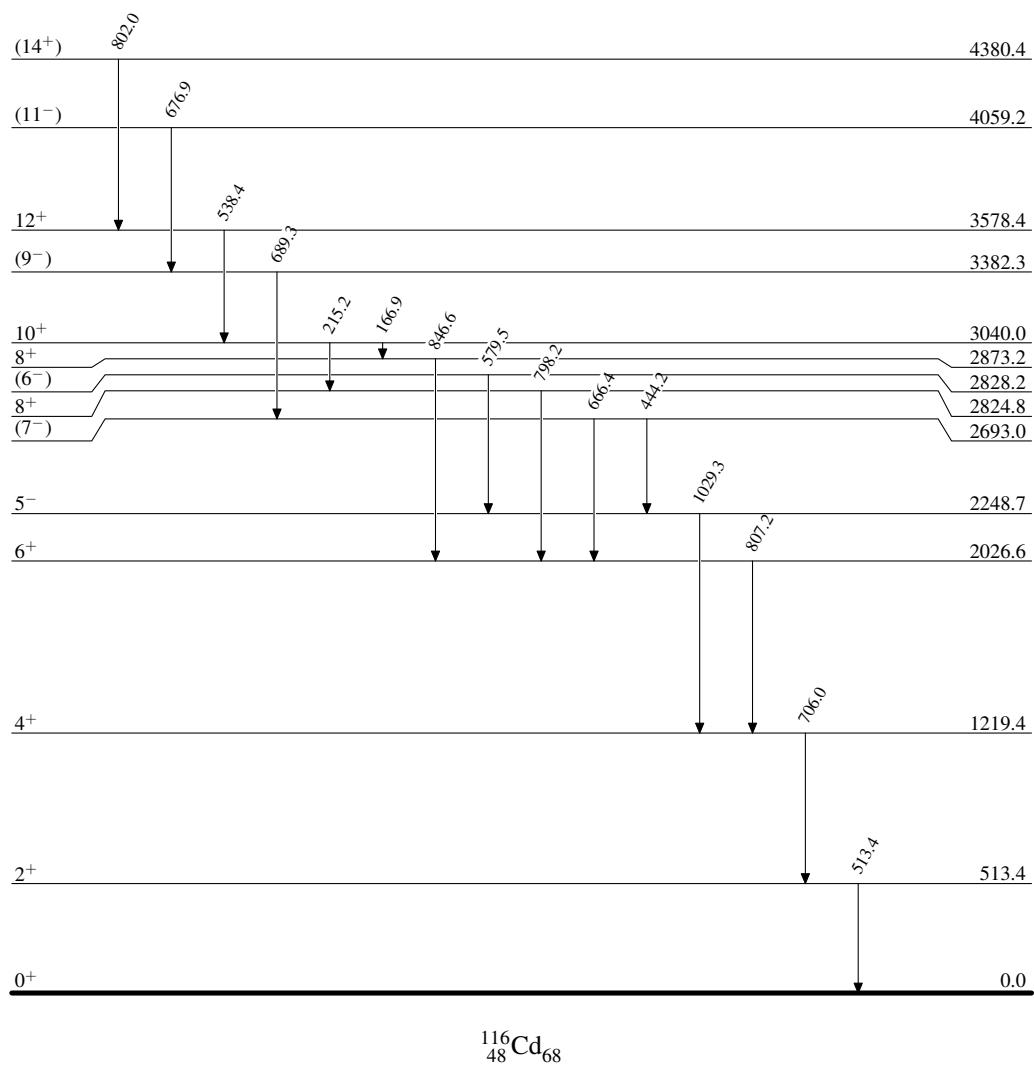
[‡] From $\gamma(q)$ and band assignments.

[#] Band(A): g.s. Band.

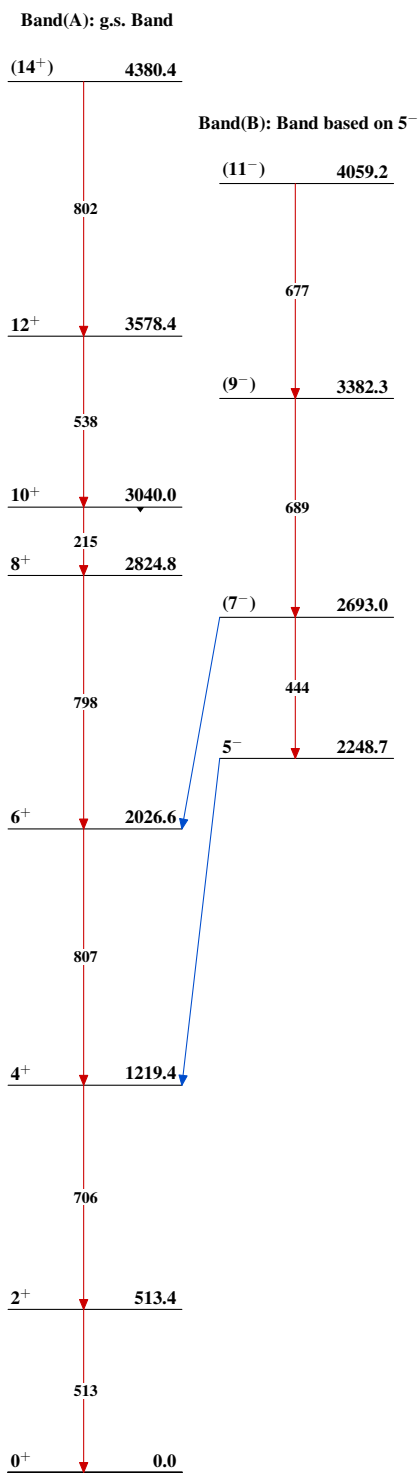
[@] Band(B): Band based on 5⁻.

 $\gamma(^{116}\text{Cd})$

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
166.9	3040.0	10 ⁺	2873.2	8 ⁺	689.3	3382.3	(9 ⁻)	2693.0	(7 ⁻)
215.2	3040.0	10 ⁺	2824.8	8 ⁺	706.0	1219.4	4 ⁺	513.4	2 ⁺
444.2	2693.0	(7 ⁻)	2248.7	5 ⁻	798.2	2824.8	8 ⁺	2026.6	6 ⁺
513.4	513.4	2 ⁺	0.0	0 ⁺	802.0	4380.4	(14 ⁺)	3578.4	12 ⁺
538.4	3578.4	12 ⁺	3040.0	10 ⁺	807.2	2026.6	6 ⁺	1219.4	4 ⁺
579.5	2828.2	(6 ⁻)	2248.7	5 ⁻	846.6	2873.2	8 ⁺	2026.6	6 ⁺
666.4	2693.0	(7 ⁻)	2026.6	6 ⁺	1029.3	2248.7	5 ⁻	1219.4	4 ⁺
676.9	4059.2	(11 ⁻)	3382.3	(9 ⁻)					

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$^{116}_{48}\text{Cd}_{68}$