

$^{100}\text{Mo}(^{13}\text{C},5n\gamma)$ 2005Da16

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2008

E=65 MeV. Measured E_γ , I_γ , $\gamma\gamma$, lifetimes with an array consisting of eight Compton suppressed Clover detectors. DSAM analysis.

 ^{108}Cd Levels

E(level)	J^π	E(level)	J^π	$T_{1/2}^\ddagger$	E(level)	J^π	$T_{1/2}^\ddagger$
0.0	0^+	3683.09 [#] 15	8^+ †		6458.9 [#] 8	16^+	0.40 ps 5
632.92 [#] 5	2^+ †	4152.52 [#] 15	10^+ †		7564.2 [#] 13	18^+	0.229 ps 28
1508.39 [#] 7	4^+ †	4708.60 [#] 17	12^+ †		8824.5 [#] 16	20^+	0.152 ps 28
2541.24 [#] 10	6^+ †	5502.6 [#] 8	14^+	0.91 ps 9			

† From (HL,xny) for ^{108}Cd in Adopted Levels.

‡ From Doppler-shift attenuation method, line-shape analysis. Systematic uncertainties in the stopping powers, which may be as large as 10%, not included.

Band(A): Yrast band. States above 16^+ seem to originate from antimagnetic rotation as shown by the trend of B(E2) values deduced from lifetime data.

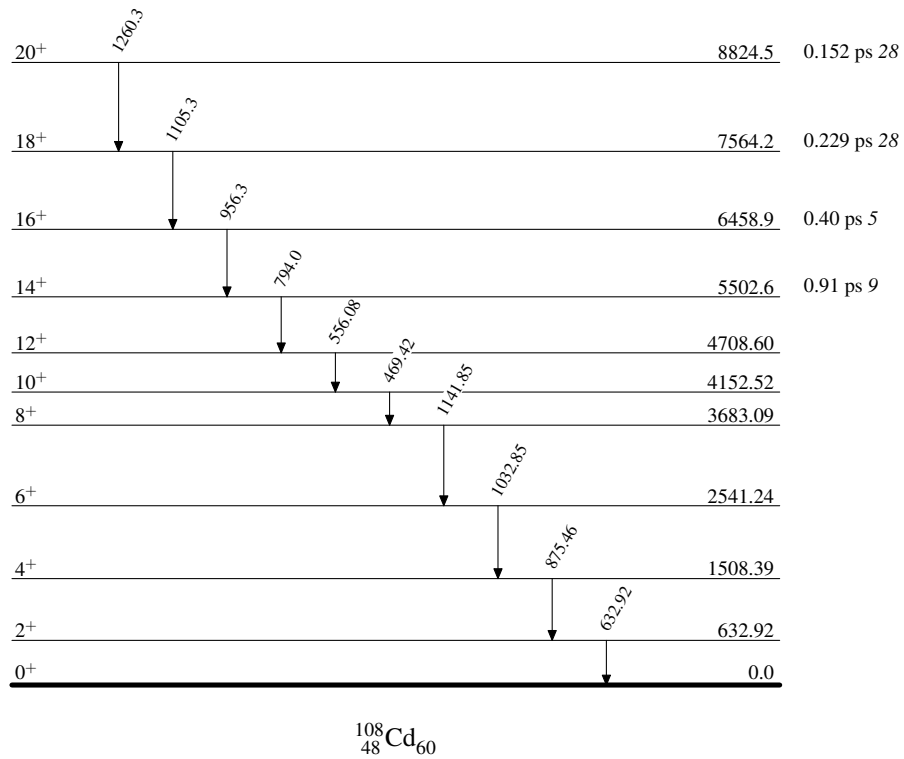
 $\gamma(^{108}\text{Cd})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
469.42 [†] 5	4152.52	10^+	3683.09	8^+
556.08 [†] 7	4708.60	12^+	4152.52	10^+
632.92 [†] 5	632.92	2^+	0.0	0^+
794.0 7	5502.6	14^+	4708.60	12^+
875.46 [†] 5	1508.39	4^+	632.92	2^+
956.3 2	6458.9	16^+	5502.6	14^+
1032.85 [†] 7	2541.24	6^+	1508.39	4^+
1105.3 10	7564.2	18^+	6458.9	16^+
1141.85 [†] 10	3683.09	8^+	2541.24	6^+
1260.3 10	8824.5	20^+	7564.2	18^+

† From (HL,xny) for ^{108}Cd in Adopted Levels.

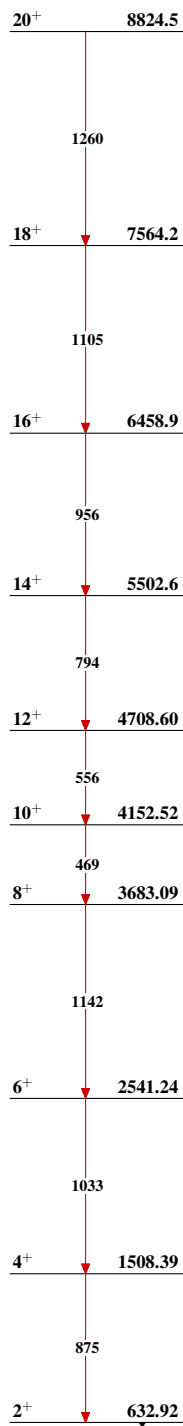
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Level Scheme



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Band(A): Yrast band

 $^{108}_{48}\text{Cd}_{60}$