

$^{110}\text{Cd}(\alpha,\text{np}\gamma)$ 1973FrYM, 1972BrYL

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, F. G. Kondev	NDS 124, 157 (2015)		1-Aug-2014

Beam: α ; Target: ^{110}Cd ; Measured: γ , $\gamma(t)$, ce; Deduced: γ -ray MULT., ^{112}In level scheme, $T_{1/2}$.

 ^{112}In Levels

Wrongly placed γ -rays in 1973FrYM. Level scheme corrected by the evaluators to account for the adopted decay patterns.

E(level) [†]	J^π [‡]	$T_{1/2}$ [‡]	Comments
0.0	1^+		
156.61 3	4^+		
162.98 9	$(5)^+$		
206.6 10	$(2)^+$		
350.7 4	$(7)^+$	$0.69 \mu\text{s}$ 5	$T_{1/2}$: 2.7 μs 2 in 1972BrYL is inconsistent with the adopted half-life.
613.6 11	$(8)^-$	$2.81 \mu\text{s}$ 3	$T_{1/2}$: 1.6 μs 2 in 1972BrYL is inconsistent with the adopted half-life.
624.2 11	(7^+)		

[†] From a least-squares fit to $E\gamma$; levels energies in 1973FrYM and 1972BrYL corrected by the evaluators.

[‡] From the Adopted Levels.

 $\gamma(^{112}\text{In})$

E_γ [†]	I_γ [†]	E_i (level)	J_i^π	E_f	J_f^π	Mult. [†]	Comments
(6.30 5)		162.98	$(5)^+$	156.61	4^+		E_γ : from the adopted gammas.
156.61 3		156.61	4^+	0.0	1^+		E_γ : from the adopted gammas.
187.7 3	100	350.7	$(7)^+$	162.98	$(5)^+$	E2	Mult.: $\alpha(K)\exp(187.7\gamma)/\alpha(K)\exp(155.5\gamma)=0.166$ 21 (1973FrYM).
206.6	8.6 9	206.6	$(2)^+$	0.0	1^+		
262.9	203 10	613.6	$(8)^-$	350.7	$(7)^+$	M2	Mult.: $\alpha(K)\exp(262.9\gamma)/\alpha(K)\exp(155.5\gamma)=0.158$ 12 (1973FrYM).
273.5	14 2	624.2	(7^+)	350.7	$(7)^+$		

[†] From 1973FrYM.

