

^{113}Cd IT decay (14.1 y) 1969De25

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 111,1471 (2010)	1-May-2009

Parent: ^{113}Cd : E=263.7 3; $J^\pi=11/2^-$; $T_{1/2}=14.1$ y 5; %IT decay=0.14

Measured E_γ , I_γ , $\alpha(\text{K})\text{exp}$ from I_γ and $I(\text{K x ray})$.

α : [Additional information 1](#).

 ^{113}Cd Levels

E(level)	J^π	$T_{1/2}^\dagger$
0.0	$1/2^+$	7.7×10^{15} y 3
263.7 3	$11/2^-$	14.1 y 5

† From Adopted Levels.

 $\gamma(^{113}\text{Cd})$

E_γ	I_γ^\dagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α	$I_{(\gamma+ce)}^\dagger$	Comments
263.7 3	19.08 30	263.7	$11/2^-$	0.0	$1/2^+$	E5	4.24 7	100	ce(K)/($\gamma+ce$)=0.415 6; ce(L)/($\gamma+ce$)=0.317 5; ce(M)/($\gamma+ce$)=0.0666 13; ce(N)/($\gamma+ce$)=0.01087 22; ce(O)/($\gamma+ce$)= 8.81×10^{-5} 18 ce(N+)/($\gamma+ce$)=0.01095 23 B(E5)(W.u.)=0.0499 23 I_γ : from $I(\gamma+ce)$ and α . Mult.: $\alpha(\text{K})\text{exp}=3.0$ 5 yields M4,E5. ΔJ rules out M4.

† For absolute intensity per 100 decays, multiply by 0.0014.

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Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=0.14

