

^{128}Ag β^- decay 1998KaZM,2000Ka48,2004KaZR

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Zoltan Elekes and Janos Timar		NDS 129, 191 (2015)	28-Feb-2015

Parent: ^{128}Ag : E=0; $T_{1/2}=58$ ms 5; $Q(\beta^-)=123\times 10^2$ 3; $\% \beta^-$ decay=100.0

1998KaZM, 2000Ka48, 2004KaZR: ^{238}U (p,F) E(p)=1 GeV; UO_2 -C target, resonance ionization laser source; on-line mass separation, 3 Ge placed at 90° and 180° to each other, plastic scintillator, β detector behind source implantation spot, $\gamma\gamma$, $\gamma\beta$. Collection tape advanced after each proton pulse.

2004KaZR suggests two alternative level schemes, which differ in the placement of the 986 keV γ ray. One of the alternatives is presented here where the 986 keV γ ray connects levels at 2096 keV and 3082 keV. In the other level scheme the 986 keV γ ray is placed between levels of 2415 keV and 1429 keV.

 ^{128}Cd Levels

E(level)	J^π [†]	$T_{1/2}$	Comments
0.0	0^+	0.28 s 4	$T_{1/2}$: from Adopted Levels, Gammas.
645.2 5	(2^+)		
1429.1 7	(4^+)		
2095.8 9			
2892.6 5			
3081.8? 10			
3290.9 5			

[†] From Adopted Levels.

 $\gamma(^{128}\text{Cd})$

E_γ [†]	I_γ [‡]	E_i (level)	J_i^π	E_f	J_f^π
645.2 5	100	645.2	(2^+)	0.0	0^+
666.7 5	26 12	2095.8		1429.1	(4^+)
783.9 5	49 20	1429.1	(4^+)	645.2	(2^+)
986.0 5	25 12	3081.8?		2095.8	
2892.6 5	18 8	2892.6		0.0	0^+
3290.9 5	14 7	3290.9		0.0	0^+

[†] From 2004KaZR. Uncertainties are assigned by the evaluators.

[‡] From 2004KaZR.

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Decay Scheme

Intensities: Type not specified

Legend

