Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. Hashizume	NDS 112,1647 (2011)	1-Oct-2009

Q(β^-)=8408 *24*; S(n)=4305 *13*; S(p)=1.500×10^4 *syst*; Q(α)=−1.050×10^4 *syst* 2012Wa38
Note: Current evaluation has used the following Q record 8470 60 *4260* 90 *14790* syst-10330 syst 2003Au03.
Δ(S(p))=310, Δ(Q(α))=600 (2003Au03).
Q(β^-): Experimental value is 8468 *63* from $\beta\gamma$-coin (1987Sp09).
Assignment: ^{235}U(n,F) E=th, on-line mass separation.
Nuclear structure calculations on the levels and their properties: (1996Bo11).

^{127}Cd Levels

Cross Reference (XREF) Flags

A ^{9}Be(^{136}Xe,Xγ)

E(level)	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	(3/2$^+$)	0.37 s *7*		%β^-=100 J$^\pi$: syst of odd-Cd isotopes. T$_{1/2}$: from γ multiscaling. Value from weighted av of 0.43 s *3* (1986Go10,1986Ho24) and 0.30 s *3* (1986Ma42). Other: 1.3 s (1981Al25).
0+x	11/2$^-$[†]		A	
738.70+x *20*	(15/2$^-$)[†]		A	
1560.1+x *8*	(19/2$^-$)[†]		A	
2331.0+x *9*	(23/2$^-$)[†]		A	
3239.9+x *11*	(27/2$^-$)[†]		A	
y		?	A	T$_{1/2}$: Microsecond isomer from observation of delayed γ rays.

[†] From systematics and band assignments (2007Ho22).

γ(^{127}Cd)

E$_i$(level)	J$_i^\pi$	E$_\gamma$	I$_\gamma$	E$_f$	J$_f^\pi$
738.70+x	(15/2$^-$)	738.7 *2*	100.0	0+x	11/2$^-$
1560.1+x	(19/2$^-$)	821.4 *7*	100.0	738.70+x	(15/2$^-$)
2331.0+x	(23/2$^-$)	770.9 *4*	100.0	1560.1+x	(19/2$^-$)
3239.9+x	(27/2$^-$)	908.9 *6*	100.0	2331.0+x	(23/2$^-$)

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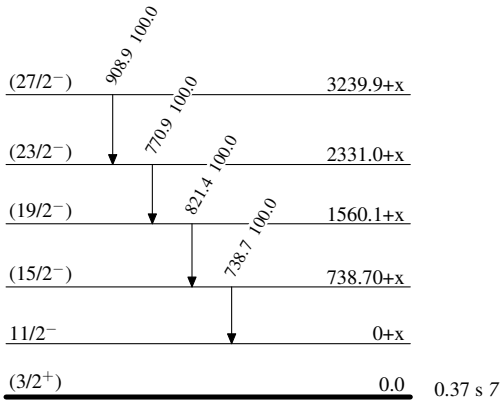
Level Scheme

Intensities: Relative photon branching from each level



$^{127}_{48}Cd_{79}$