^{115}Pd IT decay 1990Fo07,1987FoZY

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113, 2391 (2012)	1-Sep-2012

Parent: ^{115}Pd: E=89.3 *2*; J^{π}=(7/2$^-$); $T_{1/2}$=50 s *3*; %IT decay=8.0 *20*
Activity: ^{235}U(n,F) mass separator OSIRIS.
Measured: γ, $\gamma\gamma$, βce, $T_{1/2}$,Ge(Li), Si(Li).
1990Fo07 measured %IT=8.0 *20*.
New J from Adopted Levels and 2005Fo09.

^{115}Pd Levels

E(level)	J^{π}[†]	$T_{1/2}$[†]
0	(1/2$^+$)	25 s *2*
89.3 *2*	(7/2$^-$)	50 s *3*

[†] From Adopted Levels.

γ(^{115}Pd)

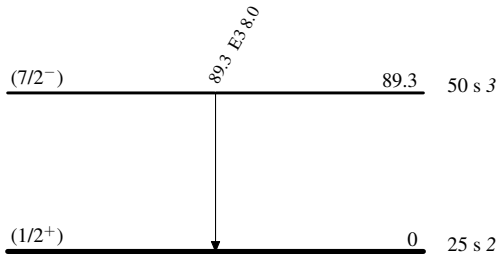
E_γ	I_γ[†]	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.	α[‡]	$I_{(\gamma+ce)}$[†]	Comments
89.3 *2*	4.062	89.3	(7/2$^-$)	0	(1/2$^+$)	E3	23.3 *5*	100	ce(K)/(γ+ce)=0.450 *8*; ce(L)/(γ+ce)=0.413 *8*; ce(M)/(γ+ce)=0.0832 *21*; ce(N+)/(γ+ce)=0.0126 *4* ce(N)/(γ+ce)=0.0126 *4* Mult.: absolute ce measurements (1990Fo07). E_γ: from 1990Fo07.

[†] For absolute intensity per 100 decays, multiply by 0.080 *20*.
[‡] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

^{115}Pd IT decay 1990Fo07,1987FoZY

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=8.0 *20*



$^{115}_{46}Pd_{69}$