^{119}Pd β^- decay (0.92 s) 1991Pe04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. M. Symochko, E. Browne, J. K. Tuli	NDS 110,2945 (2009)	1-Dec-2008

Parent: ^{119}Pd: E≥0.0; J^π=(7/2$^+$); $T_{1/2}$=0.92 s *8*; Q(β^-)=7023 *SY*; %β^- decay=100.0

^{238}U(p,f) E=20 MeV, on-line mass; measured γ, $\beta\gamma$, $\gamma\gamma$, γx.

Decay scheme is that proposed by 1991Pe04. Authors were unable to determine the energies of the (7/2$^+$) and (1/2$^-$) isomers in the ^{119}Ag daughter nucleus.

^{119}Ag Levels

E(level)	J^π[†]	$T_{1/2}$
0.0+x	(7/2$^+$)	2.1 s *1*
0.0+y	(1/2$^-$)	6.0 s *5*
130+x	(7/2$^+$,9/2$^+$,11/2$^+$)	
256+y	(1/2,3/2$^-$)	
326+y	(1/2,3/2$^-$)	

[†] From Adopted Levels.

γ(^{119}Ag)

E_γ	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α[‡]	Comments
69.9 *3*	12	326+y	(1/2,3/2$^-$)	256+y	(1/2,3/2$^-$)	M1	1.163 *22*	α(K)exp=1.0 *4* α(K)=1.009 *19*; α(L)=0.1261 *24*; α(M)=0.0240 *5*; α(N)=0.00415 *8*
129.9 *3*	100	130+x	(7/2$^+$,9/2$^+$,11/2$^+$)	0.0+x	(7/2$^+$)	[M1,E2]	0.39 *19*	α(K)exp from (K x ray)γ/$\gamma\gamma$. α(K)=0.31 *14*; α(L)=0.06 *4*; α(M)=0.011 *7*; α(N)=0.0018 *12*
256.6 *3*	63	256+y	(1/2,3/2$^-$)	0.0+y	(1/2$^-$)			
326.1 *3*	52	326+y	(1/2,3/2$^-$)	0.0+y	(1/2$^-$)			
[x]507.2[#] *3*								

[†] Relative to I(129.9γ)=100.

[‡] 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.

[#] Placement of transition in the level scheme is uncertain.

[x] γ ray not placed in level scheme.

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Decay Scheme

Intensities: Relative I_γ