^{117}Pd β^- decay 1991Pe04,1990RoZX

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Mar-2009

Parent: ^{117}Pd: E=0.0; $J^\pi=(5/2^+)$; $T_{1/2}$=4.3 s *3*; Q(β^-)=4238 *15*; %β^- decay=100.0

1990PeZU, 1991Pe04 ^{238}U(p,F) E=28 MeV. On-line mass separator. Measured: γ, γX, ce (1991Pe10), Pd is assigned by coin with Ag-K-x rays.

1990RoZX on-line chemistry measured γ, γ(t).

α: Additional information 2.

Additional information 1.

^{117}Ag Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	$1/2^-$	72.8 s *+20−7*	$T_{1/2}$: From 1974Gr29.
247.5	$3/2^-$		
323.9	$5/2^-$		

$\gamma(^{117}Ag)$

E_γ †	I_γ †	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	Comments
76.6 *3*	4.4 *6*	323.9	$5/2^-$	247.5	$3/2^-$	M1	0.895 *16*	α(K)exp=0.8 *3* (1991Pe10) α(K)=0.776 *14*; α(L)=0.0969 *18*; α(M)=0.0184 *4*; α(N)=0.00319 *6*; α(O)=0.000146 *3* α(N+..)=0.00333 *6*
x147.3 *3*	7 *1*							
247.5 *5*	100 *1*	247.5	$3/2^-$	0.0	$1/2^-$	M1	0.0357	α(K)exp=0.035 *8* (1991Pe10) α(K)=0.0311 *5*; α(L)=0.00377 *6*; α(M)=0.000716 *11*; α(N)=0.0001241 *19*; α(O)=5.81×10^{-6} *9* α(N+..)=0.0001299 *20*
323.9 *2*	37 *4*	323.9	$5/2^-$	0.0	$1/2^-$			
x349 *1*	3.4 *6*							
x402.5 *2*	11 *1*							
x482.1 *4*								
x522.6 *3*	16 *2*							
x625.9 *3*	28 *3*							
x630 *1*	24 *3*							
x649.9 *3*	41 *3*							
x769.7 *3*	10 *1*							

† From 1990RoZX.

x γ ray not placed in level scheme.

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Decay Scheme

Intensities: Relative I_γ