^{118}Ag IT decay (2.0 s) 1971Fo22

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	K. Kitao	NDS 75,99 (1995)	1-Feb-1993

Parent: ^{118}Ag: E=127.74 *16*; $J^{\pi}=4^{(+)}$; $T_{1/2}$=2.0 s *2*; %IT decay=41 *5*
^{118}Ag-%IT decay: from Iγ(127-keV it)/Iγ(487.8-keV in ^{118}Cd)=0.124 *15* (1973FoZF).
From fission product, on-line mass,Ge(Li).

^{118}Ag Levels

E(level)	J^{π}	$T_{1/2}$
0.0	$1^{(-)}$	13.76 s *15*
127.74 *16*	$4^{(+)}$	2.0 s *2*

γ(^{118}Ag)

Iγ normalization: Assuming no g.s. β^-feeding and the 127.74-keV it transition is E3; the relative I(γ′s) can be converted to Iγ′s per 100 decays by multiplying by 0.072 *3*.

E_γ	I_γ[†]	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.	α[‡]	Comments
127.74 *16*	100	127.74	$4^{(+)}$	0.0	$1^{(-)}$	E3	4.66	α(K)=2.79; α(L)=1.52; α(M)=0.305; α(N+..)=0.0550 Mult.: from α(K)exp in ^{118}Pd β^- decay.

[†] For absolute intensity per 100 decays, multiply by 0.072 *10*.
[‡] 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.

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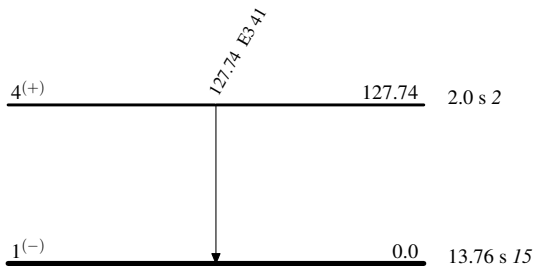
Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

%IT=41 *5*



$^{118}_{47}Ag_{71}$