^{110}Ag ε decay (24.56 s)   1965Fr01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev	NDS 113, 1315 (2012)	1-Aug-2011

Parent: ^{110}Ag: E=0.0; J$^{\pi}$=1^{+}; T$_{1/2}$=24.56 s *11*; Q(ε)=889 *11*; %ε decay=0.30 *6*

The parent ^{110}Ag nuclide was produced via neutron capture on ^{109}Ag. The thermal neutrons were produced via ^{9}Be(d,n) reaction, at E(d)=1 MeV. The K-X rays were detected using 5×5 cm NaI-crystal detector. β-rays were detected using a plastic scintillator detector. Measured: E(K x ray), I(K x ray).

^{110}Pd Levels

E(level)[†]	J$^{\pi}$[†]	T$_{1/2}$
0.0	0^{+}	stable
373.80 *7*	2^{+}	

[†] From Adopted Levels.

ε radiations

E(decay)	E(level)	Iε[†]	Log ft	Comments
(515 *11*)	373.80	≤0.02	≥4.8	εK=0.8573 *3*; εL=0.11463 *19*; εM+=0.02804 *6* Iε: estimated by evaluators from I(374γ)/I(658γ in ^{110}Cd), as seen in figure 1 of 1972Ka34.
(889 *11*)	0.0	0.30 *6*	4.09 *9*	εK=0.8617; εL=0.11121 *6*; εM+=0.02707 *2* Iε: from I(K x ray) in 1965Fr01.

[†] Absolute intensity per 100 decays.

γ(^{110}Pd)

E$_{\gamma}$	I$_{\gamma}$[‡]	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$	Mult.	α[†]	Comments
373.80 *8*	≤0.02	373.80	2^{+}	0.0	0^{+}	E2	0.01448	α(K)=0.01245 *18*; α(L)=0.001661 *24*; α(M)=0.000314 *5*; α(N+..)=5.17×10^{-5} *8* α(N)=5.17×10^{-5} *8* E$_{\gamma}$,Mult.: From adopted gammas.

[†] Additional information 1.
[‡] Absolute intensity per 100 decays.

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Decay Scheme

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

1^+ ____ 0.0   24.56 s 11

%ε=0.30

Q_ε=889 11

$^{110}_{47}Ag_{63}$

373.80 E2 <0.0203

2^+ _____ 373.80

	$I\varepsilon$	Log ft
	$\leq$0.02	$\geq$4.8

0^+ _____ 0.0   stable   0.30   4.09

$^{110}_{46}Pd_{64}$