^{72}Se ε decay   1958Cu91,1965Hu02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 111,1 (2010)	1-May-2009

Parent: ^{72}Se: E=0; J^π=0$^+$; $T_{1/2}$=8.40 d 8; Q(ε)=361 5; %ε decay=100.0

γ and ce singles, x-x and x-γ coincidences measured (1958Cu91).

X-γ delayed coincidences (1965Hu02).

Others: 1950Ho26 and 1957Be46.

α: Additional information 1.

^{72}As Levels

E(level)†	$J^{\pi\dagger}$	$T_{1/2}$	Comments
0	2$^-$		
46.025 18	1$^+$	10.7 ns 3	$T_{1/2}$: from 1965Hu02.

† From Adopted Levels.

ε radiations

E(decay)	E(level)	I$\varepsilon^\dagger$	Log ft	Comments
(315 5)	46.025	100 6	4.58 3	εK=0.8748 2; εL=0.1050 1; εM+=0.020198 23

† Absolute intensity per 100 decays.

γ(^{72}As)

I(γ+ce) normalization: zero ε to g.s. assumed. ε observed to 46 level only.

E_γ	$I_\gamma^\dagger$	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α	$I_{(\gamma+ce)}^\dagger$	Comments
45.89 4	57.2 4	46.025	1$^+$	0	2$^-$	E1	0.747 11	100	α(K)exp=0.63 6 α(K)=0.664 10; α(L)=0.0715 11; α(M)=0.01074 16; α(N)=0.000768 11; α(N+..)=0.000768 11 Mult.: from Adopted Gammas. E_γ: from Adopted Gammas, original value=46.0 3 (1958Cu91).

† Absolute intensity per 100 decays.

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Decay Scheme

Intensities: I$_\gamma$ per 100 parent decays

0$^+$ 0   8.40 d *8*

%ε=100   Q$_\varepsilon$=361 *5*

$^{72}_{34}$Se$_{38}$

Iε Log ft

45.89 E1 57.2

1$^+$ 46.025   10.7 ns *3*   100   4.58

2$^-$ 0

$^{72}_{33}$As$_{39}$