

$^{73}\text{Se}$  IT decay (39.8 min) 1969Ko25,1968Mu08

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen		NDS 158, 1 (2019)	16-May-2019

Parent:  $^{73}\text{Se}$ : E=25.71 4;  $J^\pi=3/2^-$ ;  $T_{1/2}=39.8$  min 17; %IT decay=72.6 3

$^{73}\text{Se}$ -%IT decay: %IT=72.6 3 (1980Te01,1969Ma21).

1969Ko25:  $^{70}\text{Ge}(\alpha,n)$ , detected ce from IT decay,  $\gamma(\text{ce})$ -coin.

1968Mu08:  $^{70}\text{Ge}(\alpha,n)$ , chemical separation, detected ce from IT decay.

 $^{73}\text{Se}$  Levels

E(level)	$J^\pi^\dagger$	$T_{1/2}^\dagger$
0.0	$9/2^+$	
25.71 4	$3/2^-$	39.8 min 17

$^\dagger$  From Adopted Levels.

 $\gamma(^{73}\text{Se})$ 

1969Ko25 find no  $\gamma$  or K x ray in the range 5 to 80 keV in coin with 25 $\gamma$ , i.e., 25.71 $\gamma$  feeds the g.s. directly.

$E_\gamma$	$I_\gamma^\dagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult.	$\alpha^\ddagger$	$I_{(\gamma+\text{ce})}^\dagger$	Comments
25.71 4	0.0190 4	25.71	$3/2^-$	0.0	$9/2^+$	E3	5250 90	100	$\alpha(\text{K})=1045$ 16; $\alpha(\text{L})=3600$ 60; $\alpha(\text{M})=573$ 10; $\alpha(\text{N})=32.7$ 6 $E_\gamma$ : from 1969Ko25. Other: 25.9 3 (1968Mu08). Mult.: from K/L=0.289 14 and $\alpha(\text{K})_{\text{exp}}=1072$ 3, $\alpha(\text{L}1)_{\text{exp}}=0060$ 100, $\alpha(\text{L}23)_{\text{exp}}=3650$ 120. $I_\gamma$ : from I( $\gamma+\text{ce}$ ) and $\alpha$ .

$^\dagger$  For absolute intensity per 100 decays, multiply by 0.726 3.

$^\ddagger$  Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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 **$^{73}\text{Se}$  IT decay (39.8 min) 1969Ko25,1968Mu08**Decay SchemeIntensities:  $I_{(\gamma+ce)}$  per 100 parent decays

%IT=72.63

