^{77}Zn IT decay (1.05 s) 1986Ek01,2009Il01,2009Pa35

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	30-Sep-2020

Parent: ^{77}Zn: E=772.43 *2*; $J^\pi=1/2^-$; $T_{1/2}$=1.05 s *10*; %IT decay=34 *7*

^{77}Zn-%IT decay: from $\%\beta^-$=66 *7* (2009Il01). Others: $\%\beta^-$>52 (2009Pa35), %IT>50 from 1986Ek01.

^{77}Zn Levels

E(level)	J^π †	$T_{1/2}$ †
0.0	$7/2^+$	2.08 s *5*
772.43 *2*	$1/2^-$	1.05 s *10*

† From the Adopted Levels.

$\gamma(^{77}Zn)$

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α ‡	$I_{(\gamma+ce)}$ †	Comments
772.43 *2*	772.43	$1/2^-$	0.0	$7/2^+$	[E3]	0.00133	100	α(K)=0.001185; α(L)=0.0001230; α(M)=1.761×10^{-5}; α(N)=6.81×10^{-7} E_γ: from 2009Il01. Other: 772.0 *2* (2009Pa35).

† For absolute intensity per 100 decays, multiply by 0.34 *7*.

‡ 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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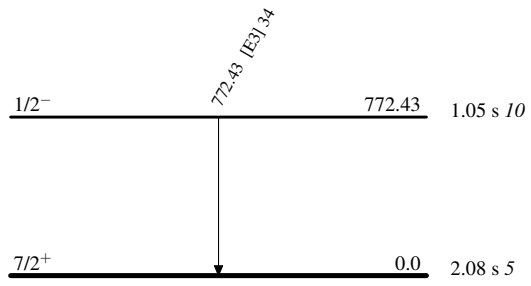
Decay Scheme

%IT=34 *7*



$^{77}_{30}Zn_{47}$