^{132}I IT decay (1.387 h) 1974Di03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. A. Rodionov and S. Sakharov, Balraj Singh	NDS 104, 497 (2005)	10-Feb-2005

Parent: ^{132}I: E=120 *20*; J^π=(8$^-$); $T_{1/2}$=1.387 h *15*; %IT decay=86 *2*
^{132}I-%IT decay: %IT=86 *2*.

^{132}I Levels

E(level)	J^π	$T_{1/2}$	Comments
0	4$^+$	2.295 h *13*	
22? *11*	(5$^+$)		E(level)<32.9 as no (K x ray)(98γ) coincidence (1974Di03).
120 *20*	(8$^-$)	1.387 h *15*	E(level): from difference in Q(β^-)=3680 *15* for ^{132}I isomer (1974Di03) and Q(β^-)=3560 *15* for ^{132}I g.s. (1965Jo13).

$\gamma(^{132}I)$

Iγ normalization: From level scheme.

E_γ	I_γ †‡	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α @	$I_{(\gamma+ce)}$ #	Comments
(22 *11*)		22?	(5$^+$)	0	4$^+$				
98.0 *10*	28.8 *7*	120	(8$^-$)	22?	(5$^+$)	E3	21.6	100	α(K)=6.97 *21*; α(L)=11.5 *4*; α(M)=2.54 *8*; α(N+..)=0.598 *18* Additional information 1. Mult.: K/L+M=0.45 *5*.

† Relative to Iγ(599.8)=100 in ^{132}Xe.
‡ For absolute intensity per 100 decays, multiply by 0.129 *3*.
# For absolute intensity per 100 decays, multiply by 0.86 *2*.
@ 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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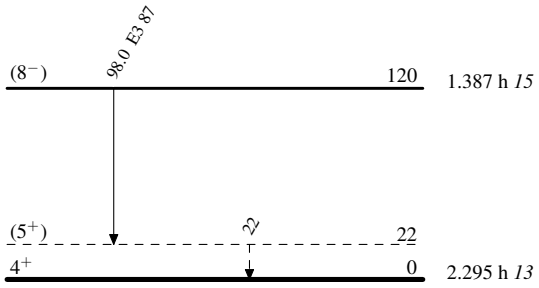
Legend

Decay Scheme

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

%IT=86 *2*

γ Decay (Uncertain)



$^{132}_{53}I_{79}$