^{134}Xe IT decay (290 ms) 1968WiZY

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	NDS 103, 1 (2004)	31-Jul-2004

Parent: ^{134}Xe: E=1965.5 *5*; $J^{\pi}=7^{-}$; $T_{1/2}$=290 ms *17*; %IT decay=100.0
From ^{134}Xe(n,n′), natural and enriched targets.

^{134}Xe Levels

E(level)†	J^{π}†	$T_{1/2}$†	Comments
0.0	0^{+}	$>5.8\times10^{22}$ y	
847.041 *23*	2^{+}	2.08 ps *14*	
1731.17 *3*	4^{+}	2.22 ps *14*	
1965.5 *5*	7^{-}	290 ms *17*	%IT=100

† From Adopted Levels.

γ(^{134}Xe)

E_{γ}†	I_{γ}‡	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.†	α#	Comments
234.3 *5*	70.0 *5*	1965.5	7^{-}	1731.17	4^{+}	E3	0.429	α(K)=0.284 *9*; α(L)=0.114 *4*; α(M)=0.0245 *8*; α(N+..)=0.00601 *18* Additional information 1.
847.025 *25*	100	847.041	2^{+}	0.0	0^{+}	E2	0.00237	α=0.00237; α(K)=0.00202 *6*; α(L)=0.00026 *1*
884.090 *25*	100	1731.17	4^{+}	847.041	2^{+}	E2	0.00215	α=0.00215; α(K)=0.00183 *6*; α(L)=0.00024 *1*

† From Adopted Levels, gammas.
‡ Absolute intensity per 100 decays.
# 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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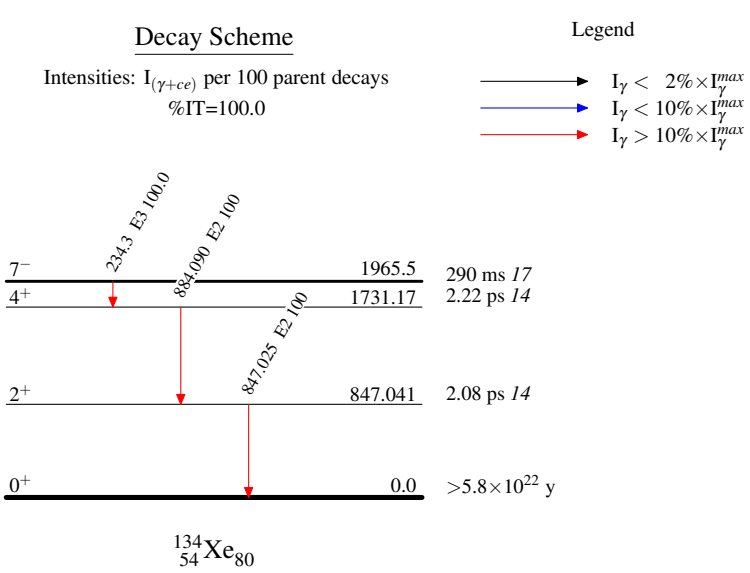
Decay Scheme

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

%IT=100.0



$^{134}_{54}Xe_{80}$