^{134}I β^- decay (3.52 min) 1972Co04

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

Parent: ^{134}I: E=316.49 *22*; J^π=(8)$^-$; $T_{1/2}$=3.52 min *4*; Q(β^-)=4175 *15*; %β^- decay=2.3 *10*

^{134}Xe Levels

E(level)	J^π †	$T_{1/2}$ †
0.0	0^+	
847.0	2^+	
1732.0	4^+	
1966.3	7^-	290 ms *17*

† From Adopted Levels.

β^- radiations

E(decay)	E(level)	Iβ^- †	Log *ft*	Comments
(2525 *15*)	1966.3	2.3 *10*	7.06 *19*	av Eβ=1017.4 *69*

† Absolute intensity per 100 decays.

γ(^{134}Xe)

Iγ normalization: From Σ I(γ+ce)=100 to g.s..

E_γ	I_γ †	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α ‡	Comments
234.3 *5*	69	1966.3	7^-	1732.0	4^+	E3	0.440	α(K)= 0.292; α(L)= 0.1168; α(M)= 0.0251; α(N+..)=0.00616
847	100	847.0	2^+	0.0	0^+	E2	0.00237	α(K)=0.00202; α(L)=0.00026
885	100	1732.0	4^+	847.0	2^+	E2	0.00215	α(K)=0.00183; α(L)=0.00024

† For absolute intensity per 100 decays, multiply by 0.023 *10*.
‡ 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.

^{134}I β^- decay (3.52 min) 1972Co04

Decay Scheme

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