^{133}Xe IT decay (2.198 d) 1976Me16,1969Fr04

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov and A. Rodionov, F. G. Kondev	NDS 112,855 (2011)	31-Oct-2010

Parent: ^{133}Xe: E=233.221 *15*; $J^\pi=11/2^-$; $T_{1/2}$=2.198 d *13*; %IT decay=100

^{133}Xe Levels

E(level)	J^π[†]	$T_{1/2}$[†]
0.0	$3/2^+$	5.2475 d *5*
233.221 *15*	$11/2^-$	2.198 d *13*

[†] From Adopted Levels.

γ(^{133}Xe)

E_γ	I_γ[†#]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	δ	α[@]	Comments
233.221 *15*	10.12 *15*	233.221	$11/2^-$	0.0	$3/2^+$	M4+E5	0.10 *8*	8.88 *15*	α(K)exp=4.4 *14*; K/(L+M+N)+O=2.32 *15* (1952Be55) α(K)exp=7.4 *14*; K/(L+M+N)+O=2.54 *20* (1972Ac02) α(K)exp=7.68 *25*; K/(L+M+N)+O=2.04 *12* (1968Al16) α(K)exp=6.5 *9*; α(L+...)exp=2.9 *4* (2008Pe04) α(K)=6.22 *10*; α(L)=2.08 *11*; α(M)=0.46 *3*; α(N+..)=0.106 *6* α(N)=0.095 *5*; α(O)=0.0106 *5* α(L1)=1.169 *17*; α(L2)=0.252 *4*; α(L3)=0.614 *9* E_γ: from (1976Me16). Others: 233.2 *4* (1972Ac02), 232.8 *3* (1952Be55). L1:L2:L3=100 *3*:25.0 *12*:52.6 *16* (1969Fr04). δ: calculated in 2006Ra03 from subshell ratios of 1969Fr04. δ=0.12 *9* calculated by evaluators with BrIccMixing program from K/L+ ratios.

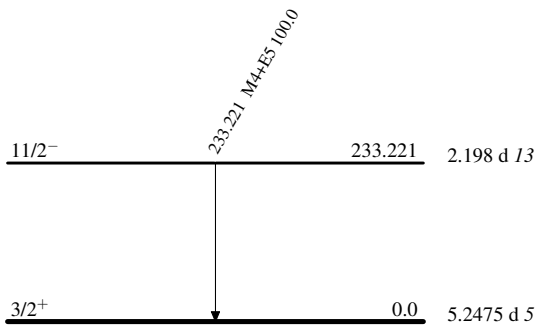
[†] From I(γ+ce)=100 and α.
[‡] From α(K)exp and sub-shell ratios.
[#] Absolute intensity per 100 decays.
[@] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

^{133}Xe IT decay (2.198 d) 1976Me16,1969Fr04

Decay Scheme

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

%IT=100



$^{133}_{54}Xe_{79}$