^{205}Po IT decay (57.4 ms) 1985Ra18,1974Oh06

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 166, 1 (2020)	20-Apr-2020

Parent: ^{205}Po: E=1461.21 *21*; $J^{\pi}=19/2^{-}$; $T_{1/2}$=57.4 ms *9*; %IT decay=100.0

^{205}Po Levels

E(level)[†]	J^{π}[‡]	$T_{1/2}$[‡]
0.0[#]	$5/2^{-}$	1.74 h *8*
719.30[@] *4*	$9/2^{-}$	
880.33[&] *5*	$13/2^{+}$	0.645 ms *20*
1461.21[a] *21*	$19/2^{-}$	57.4 ms *9*

† From least squares fit to Eγ.
‡ From Adopted Levels.
# configuration=$\nu(f^{-1}_{5/2})$.
@ configuration=$n(f^{-1}_{5/2})\otimes\pi(h^{+2}_{9/2})_{2^+}$.
& configuration=$\nu(i^{-1}_{13/2})$.
a configuration=$\nu(f^{-1}_{5/2})\otimes\pi(h^{+2}_{9/2})_{8^+}$.

γ(^{205}Po)

E_γ[†]	I_γ[‡@]	E_i(level)	J^{π}_i	E_f	J^{π}_f	Mult.[†]	α[#]	Comments
161.030 *17*	5.87 *8*	880.33	$13/2^{+}$	719.30	$9/2^{-}$	M2	16.05	α(K)=11.08 *16*; α(L)=3.71 *6*; α(M)=0.950 *14* α(N)=0.248 *4*; α(O)=0.0513 *8*; α(P)=0.00630 *10*
580.9 *2*	93.49 *9*	1461.21	$19/2^{-}$	880.33	$13/2^{+}$	E3	0.0696	α(K)=0.0397 *6*; α(L)=0.0223 *4*; α(M)=0.00580 *9* α(N)=0.001497 *21*; α(O)=0.000297 *5*; α(P)=3.16×10^{-5} *5*
719.30 *4*	98.594 *19*	719.30	$9/2^{-}$	0.0	$5/2^{-}$	E2	0.01426	α(K)=0.01077 *15*; α(L)=0.00264 *4*; α(M)=0.000647 *9* α(N)=0.0001662 *24*; α(O)=3.37×10^{-5} *5*; α(P)=3.94×10^{-6} *6*

† From adopted gammas.
‡ From I(γ+ce)=100 and α.
# Additional information 1.
@ Absolute intensity per 100 decays.

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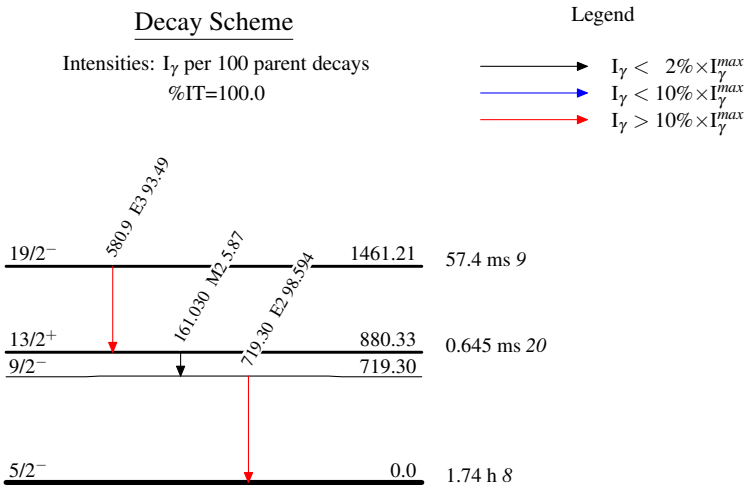
Decay Scheme

Intensities: I_γ per 100 parent decays

%IT=100.0



$^{205}_{84}Po_{121}$