

^{201}Po IT decay (8.96 min)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

Parent: ^{201}Po : E=423.41 22; $J^\pi=13/2^+$; $T_{1/2}=8.96$ min 12; %IT decay $\approx$ 42.6

^{201}Po -%IT decay: From Adopted Levels.

 ^{201}Po Levels

E(level) [†]	J^π [†]	$T_{1/2}$ [†]	Comments
0 [‡]	3/2 ⁻	15.50 min 22	
5.61 [#] 13	5/2 ⁻		
423.41 [@] 22	13/2 ⁺	8.96 min 12	%IT $\approx$ 42.6; % α =2.4 5; % ε +% β^+ $\approx$ 55

[†] From Adopted Levels.

[‡] Configuration= ν p $_{3/2}^{-1}$.

[#] Configuration= ν f $_{5/2}^{-1}$.

[@] Configuration= ν i $_{13/2}^{-1}$.

 $\gamma(^{201}\text{Po})$

E_γ	I_γ [‡]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α [†]	Comments
(5.61 13) 417.8 2	17.1 2	5.61 423.41	5/2 ⁻ 13/2 ⁺	0 5.61	3/2 ⁻ 5/2 ⁻	M4	4.84 7	$\alpha(\text{K})=2.74$ 4; $\alpha(\text{L})=1.542$ 22; $\alpha(\text{M})=0.424$ 6 $\alpha(\text{N})=0.1116$ 16; $\alpha(\text{O})=0.02250$ 32; $\alpha(\text{P})=0.00253$ 4 E_γ : Weighted average of 418.5 keV 6 (1976Ko13), 417.6 keV 3 (1971Jo19) and 417.8 keV 6 (1986Br28). Mult.: $\alpha(\text{K})_{\text{exp}}=2.49$ 32, K/L=1.8 2, L/M=2.5 3 (1986Br28); K/L=2.0 3 (1976Ko13) and 1.6 2 (1971Jo19).

[†] Additional information 1.

[‡] For absolute intensity per 100 decays, multiply by $\approx$ 0.426.

^{201}Po IT decay (8.96 min)

Legend

Decay Scheme

Intensities: I_γ per 100 parent decays
%IT $\approx$ 42.6

-----► γ Decay (Uncertain)

