

[Adopted Levels, Gammas](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 121, 561 (2014)	31-Mar-2014

$Q(\beta^-)=5482$ *I2*; $S(n)=3680$ *I3*; $S(p)=7890$ *SY*; $Q(\alpha)=2540$ *SY* [2012Wa38](#)
 $\Delta S(p)=150$ (syst), $\Delta Q(\alpha)=300$ (syst) [2012Wa38](#).

[210Tl Levels](#)[Cross Reference \(XREF\) Flags](#)

[A](#) ^{214}Bi α decay (19.9 min)

E(level) [#]	J^π	$T_{1/2}$	XREF	Comments
0.0	(5 ⁺) [†]	1.30 min 3	A	% β^- =100; % β^- n=0.007 +7-4 % β^- n: From 1961St20 . $T_{1/2}$: from 1964We06 . Other values: 1.32 min (1931Cu01), 1.3 min (1937De03), 1.50 min 25 (1957Ko42).
62.5 10	(4 ⁺) [†]		A	
253.6 15	(4 ⁺ ,5 ⁺) [‡]		A	
335 [@] 3	(6 ⁺) [‡]		A	
499 [@] 4	(4 ⁺ ,5 ⁺) [‡]		A	
583 [@] 4	(3 ⁺) [‡]		A	

[†] In analogy with levels in ^{208}Tl and $\text{Hf}(\alpha)$ from ^{214}Bi ($J^\pi=1^-$) g.s.; members of Configuration=((π $3s_{1/2}$) $^{-1}$ (ν $2g_{9/2}$)).

[‡] From $\text{Hf}(\alpha)$ syst; primarily multiplet Configuration=((π $2d_{3/2}$) $^{-1}$ (ν $2g_{9/2}$)).

[#] From γ -ray energies, unless otherwise specified.

[@] From $E\alpha$ in ^{214}Bi α decay.

[γ\(\$^{210}\text{Tl}\$ \)](#)

E _i (level)	J_i^π	E_γ [†]	I_γ	E _f	J_f^π	Mult.	a [‡]	Comments
62.5	(4 ⁺)	62.5	100	0.0	(5 ⁺)	(M1)	6.20	Mult.: from ce data in ^{214}Bi α decay.
253.6	(4 ⁺ ,5 ⁺)	191.1	100	62.5	(4 ⁺)			

[†] From ^{214}Bi α decay.

[‡] 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.

Adopted Levels, Gammas**Level Scheme**

Intensities: Relative photon branching from each level

