

$^{204}\text{Tl} \beta^-$ decay

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. J. Chiara and F. G. Kondev		NDS 111,141 (2010)	1-Oct-2009

Parent: ^{204}Tl : $E=0.0$; $J^\pi=2^-$; $T_{1/2}=3.783 \text{ y}$ 12; $Q(\beta^-)=763.76 \text{ 18}$; $\% \beta^- \text{ decay}=97.08 \text{ 7}$

No γ 's detected ($<1 \times 10^{-4}\%$ in 100-700 keV range, $<1 \times 10^{-5}\%$ in 700-2500 keV range) ([1972Bo62](#)). Internal bremsstrahlung studied: [1980Ba65](#), [1981Sh09](#).

 ^{204}Pb Levels

<u>E(level)</u>	<u>J^π</u>
0	0^+

 β^- radiations

<u>E(decay)</u>	<u>E(level)</u>	<u>$I\beta^{-\dagger}$</u>	<u>Log ft</u>	<u>Comments</u>
763.4 2	0	100	10.0980 ^{1u} 15	av $E\beta=244.05 \text{ 6}$ E(decay): Weighted average of 763.2 3 (1967Pa08), 763.47 22 (1968Wo02). Shape factor studied by 1967Pa08 , 1969Fl02 .

[†] For absolute intensity per 100 decays, multiply by 0.9708 7.