

^{187}Pb α decay (18.3 s) [1981Mi12](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 134, 149 (2016)	15-Apr-2015

Parent: ^{187}Pb : $E=0.0$; $J^\pi=(13/2^+)$; $T_{1/2}=18.3$ s 3; $Q(\alpha)=6393$ 6; $\% \alpha$ decay=12.0 20

^{187}Pb -See comment on ^{187}Pb parent energy in α decay (15.2 s).

^{187}Pb - $\% \alpha$ decay: From α - α correlation data of [1999An36](#).

Others: [1972Ga27](#), [1974Le02](#), [2000By02](#).

For this decay, $Q_{\text{xBR}}=767$ 128.

 ^{183}Hg Levels

E(level)	J^π [†]	Comments
183 9	(13/2 ⁺)	$T_{1/2}$: absence of 6077 α - γ coin may indicate that $T_{1/2}$ (266 level) exceeds the 8 μs coincidence time employed in the experiment of 1981Mi12 . E(level): from $Q(\alpha)=6393$ 6 (2012Wa38) and $E\alpha=6077$ 7 from ^{187}Pb (g.s.).

[†] From Adopted Levels.

 α radiations

$E\alpha$ [†]	E(level)	$I\alpha$ ^{‡@}	HF [#]	Comments
6077 7	183	100	1.5 3	$E\alpha$: weighted average of 6073 10 (1981Mi12), 6080 20 (1974Le02), 6080 10 (1972Ga27).

[†] From [1981Mi12](#).

[‡] Intensity per 100 parent α decays; only one α group has been observed ([1981Mi12](#)).

[#] If $r_0=1.496$ 15 (based on $r_0(^{182}\text{Hg})=1.50$ 2, $r_0(^{184}\text{Hg})=1.491$ 14 in [1998Ak04](#)), $\% \alpha=12$ 2, $Q(\alpha)=6395$ 6 and $T_{1/2}=18.3$ s 5 for ^{187}Pb parent.

@ For absolute intensity per 100 decays, multiply by 0.12 2.