

^{182}Pb α decay 2000Je09,1999To11,1987To09

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Achterberg, O. A. Capurro, G. V. Marti		NDS 110, 1473 (2009)	31-May-2008

Parent: ^{182}Pb : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=59$ ms 6; $Q(\alpha)=7066$ 6; $\% \alpha$ decay=98.0

^{182}Pb -Weighted average from 55 5 ms (1999To11), 55 +40-35 ms (1987To09), and 68 7 ms (2000Je09).

^{182}Pb - $Q(\alpha)$ from 2003Au03.

^{182}Pb -Branching from estimate of $\% \epsilon \approx 2$ from systematics (2003Au02).

Activity produced by the $^{90}\text{Zr}(^{94}\text{Mo},2n)$ reaction at $E=321-390$ MeV (1986Ke03), by $^{147}\text{Sm}(^{40}\text{Ca},5n)$ at $E=222$ MeV (1987To09), and by $^{92}\text{Zr}(^{92}\text{Mo},2n)$ at $E=410$ MeV (1999To11).

 ^{178}Hg Levels

E(level)	J^π
0.0	0^+

 α radiations

E_α	E(level)	Hf †	Comments
6911 6	0.0	1.0	E_α : from Q_α values in 2003Au03. The weighted average of experimental values: 6919 15 (1987To09), 6921 10 (1986Ke03), 6895 10 (1999To11) and 6911 10 (2000Je09), yields $E_\alpha(\text{av})=6910$ 6 keV. 1999To11 estimate a reduced α width $\delta^2=61$ 7 keV.

† $r_0(^{178}\text{Hg})=1.51$ 4 calculated by requiring $\text{Hf}(6911\alpha)=1.0$.