^{186}Os α decay 1975Vi01

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 130, 21 (2015)	15-Jul-2015

Parent: ^{186}Os: E=0.0; $J^{\pi}=0^{+}$; $T_{1/2}=2.0\times10^{15}$ y *11*; Q(α)=2820.4 *12*; %α decay=100.0
^{186}Os-$T_{1/2}$: From ^{186}Os Adopted Levels.
^{186}Os-Q(α): From 2012Wa38.
^{186}Os-%α decay: %α=100.
$T_{1/2}(^{186}Os)=2.0\times10^{15}$ y *11*, measured by 1975Vi01, is adopted in 2003Ba44 and is recommended by 1990Ho28. This half-life is used in calculations here.
%α=100. ^{186}Os is β stable.

^{182}W Levels

E(level)	J^{π}
0.0	0^{+}

α radiations

Eα	E(level)	HF[†]	Comments
2759.7 *12*	0.0	1.0	Eα: deduced from Q(α)(^{186}Os)=2820.4 *12*. Eα≈2760 was measured by 1975Vi01. Iα: only one α group has been observed. An upper limit of 5% is calculated for an unobserved 2663.4-keV α to the 2^{+} state at 100.1060 keV by requiring its hindrance factor to be greater than 1. Iα(2759.7α)=97.5% *25* (Iα>95%) is used in computations.

[†] Calculations requiring HF(2761α)=1.0 yield $r_0(^{182}W)=1.49$ *3*.