¹⁸¹Pt α decay **1995Bi01**

		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 159, 1 (2019)	30-Aug-2019

Parent: ¹⁸¹Pt: E=0.0; $J^{\pi}=1/2^-$; $T_{1/2}=52.0$ s 22; $Q(\alpha)=5150$ 5; $\%\alpha$ decay=0.074 10 ¹⁸¹Pt-Q α is from 2017Wa10.

 181 Pt- $\%\alpha$ decay: From 1995Bi01.

1995Bi01: Activity produced by the bombardment of Yb with a 165-MeV ¹⁹F beam. Mass separated sources. Detectors: two counting stations: Station 1 with a cooled Si(Li) detector and a Ge(Li) γ -ray detector; Station 2 with a Si(Au) surface barrier detector and two Ge(Li) γ -ray detectors. Measured E α , I α , T_{1/2}, $\%\alpha$, $\%\epsilon$ + $\%\beta^+$, $\alpha\gamma$ coin, E α - $\gamma\gamma$ coin. The coincidence time window was 50 ns.

Others: 1966Si08.

¹⁷⁷Os Levels

E(level)	$J^{\pi \dagger}$	T _{1/2} †	Comments
0.0 [#] 88 ^{‡#} 11	1/2-	3.0 min 2	E(level): Probable population of both, the 75.6 keV, $J^{\pi} = (3/2^{-})$ and 90.6 keV, $J^{\pi} = 5/2^{-}$, levels.

[†] From Adopted Levels.

[‡] From the measured α decay energies (1995Bi01).

[#] $\nu 1/2[521]$ (p_{3/2}).

 α radiations

$E\alpha^{\dagger}$	E(level)	$\mathrm{I}\alpha^{\dagger \#}$	HF^{\ddagger}	Comments
4950 <i>10</i>	88	3.8	13	E <i>α</i> : Other: 5020 20 (1966Si08).
5036 <i>5</i>	0.0	96.2	1.6	

[†] From 1995Bi01.

[‡] Calculated using $r_0(^{177}\text{Os})= 1.547$ 17, unweighted average from the r_0 values of 1.53 4 (^{176}Os) and 1.563 7 (^{178}Os), deduced using HF=1.0.

[#] For absolute intensity per 100 decays, multiply by 0.00074 10.