## $^{184}$ Pt $\alpha$ decay 1995Bi01

History						
Туре	Author	Citation	Literature Cutoff Date			
Full Evaluation	E. A. Mccutchan	NDS 126, 151 (2015)	1-Feb-2015			

Parent: <sup>184</sup>Pt: E=0.0;  $J^{\pi}=0^+$ ;  $T_{1/2}=17.3 \text{ min } 2$ ;  $Q(\alpha)=4598 \ 8$ ;  $\% \alpha \text{ decay}=0.0017 \ 7$ 

 $\alpha$  branching=0.0017% 7 was obtained by 1995Bi01.  $\%\alpha\approx0.0010$  was adopted by 1989Fi11 from the earlier measurements of 1963Gr08 and 1966Si08.

180Os Levels

E(level)	$J^{\pi}$
0.0	$0^{+}$

 $\alpha$  radiations

Εα	E(level)	$I\alpha^{\ddagger}$	$HF^{\dagger}$	Comments	
4502 10	0.0	94 6	1.0	Eα: measured by 1995Bi01. Eα=4490 15 is adopted in 1989Fi11 from Eα=4480 20 and 4500 20 measured by 1963Gr08 and 1966Si08, respectively. Iα: only one α group has been observed. Iα deduced by evaluator assuming by assuming that hindrance factors for possible α's to the first 2 <sup>+</sup> , 132 level and the second 0 <sup>+</sup> , 736 level should be larger than that for the 4502-keV α giving Iα(4373α to 2 <sup>+</sup> )<12.3, Iα(3771α to 0 <sup>+</sup> at 736)<0.0004 per 100 α decays. Iα(4502α)=94 6 (Iα>87.8) per 100 α decays is used to calculate the radius parameter.	

<sup>†</sup>  $r_0(^{180}\text{Os})=1.536\ 31$  is calculated by requiring HF(4502 $\alpha$ )=1.0. <sup>‡</sup> For absolute intensity per 100 decays, multiply by  $1.7 \times 10^{-5}\ 7$ .