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 $^{184}\text{Pb}$   $\alpha$  decay (490 ms)

| <u>Type</u>     | <u>Author</u>   | <u>History<br/>Citation</u> | <u>Literature Cutoff Date</u> |
|-----------------|-----------------|-----------------------------|-------------------------------|
| Full Evaluation | E. A. Mccutchan | NDS 126, 151 (2015)         | 1-Feb-2015                    |

Parent:  $^{184}\text{Pb}$ : E=0.0;  $J^\pi=0^+$ ;  $T_{1/2}=490$  ms 25;  $Q(\alpha)=6774$  3; % $\alpha$  decay=80 15

 $^{180}\text{Hg}$  Levels

| <u>E(level)</u> | <u><math>J^\pi</math></u> |
|-----------------|---------------------------|
| 0.0             | $0^+$                     |

 $\alpha$  radiations

| <u><math>E\alpha</math></u> | <u>E(level)</u> | <u>HF<sup>†</sup></u> | <u>Comments</u>                                                                                                                                                                                                                                                                            |
|-----------------------------|-----------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6627 6                      | 0.0             | 1.00                  | $E\alpha$ : weighted average of 6625 10 ( <a href="#">1999To11</a> ), 6626 6 ( <a href="#">1998Co27</a> ), 6634 10 ( <a href="#">1987To09</a> ), 6632 10 ( <a href="#">1980Sc09</a> ), and 6618 10 ( <a href="#">1980Du02</a> ).<br>$I\alpha$ : only one $\alpha$ group has been observed. |

<sup>†</sup> Calculations requiring  $\text{HF}(6627\alpha)=1.0$  yield  $r_0(^{180}\text{Hg})=1.508$  10 for  $\alpha$  branching of 80%.