

$^{183}\text{Tl}$   $\varepsilon$  decay [1999Ba45,1992BoZO](#)

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Coral M. Baglin	NDS 134, 149 (2016)	15-Apr-2015

Parent:  $^{183}\text{Tl}$ : E=628.7;  $J^\pi=(9/2^-)$ ;  $T_{1/2}=53.3$  ms 3;  $Q(\varepsilon)=7217$  I2;  $\% \varepsilon + \% \beta^+$  decay > 0.0

Parent:  $^{183}\text{Tl}$ : E=0.0;  $J^\pi=(1/2^+)$ ;  $T_{1/2}=6.9$  s 7;  $Q(\varepsilon)=7217$  I2;  $\% \varepsilon + \% \beta^+$  decay = ?

Existence of  $^{183}\text{Tl}$   $\varepsilon$  decay deduced from accumulation of 5900  $\alpha$  following  $\alpha$  decay of daughter ( $^{183}\text{Hg}$ ) ([1992BoZO](#)) and from observed  $\alpha(^{187}\text{Bi}, 9/2^-) - 5910 \alpha(^{183}\text{Hg})$  correlation ([1999Ba45](#)).

Parent  $T_{1/2}=6.9$  s 7 for  $(1/2^+)$   $^{183}\text{Tl}$  ([1992BoZO](#)), 53.3 ms 3 for  $(9/2^-)$   $^{183}\text{Tl}$  ([2004Ra28](#)).

 $^{183}\text{Hg}$  Levels

<u>E(level)</u>	<u><math>J^\pi</math></u>	<u>Comments</u>
0.0	$1/2^-$	$J^\pi$ : from Adopted Levels.