

^{218}Th α decay

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Shaofei Zhu and E. A. Mccutchan		NDS 175,1 (2021)	1-May-2021

Parent: ^{218}Th : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=122$ ns 5; $Q(\alpha)=9849$ 9; $\% \alpha$ decay=100

$^{218}\text{Th}-Q(\alpha)$: from [2021Wa16](#).

$^{218}\text{Th}-T_{1/2}$: from Adopted Levels of ^{218}Th ([2019Si39](#)).

 ^{214}Ra Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+	2.444 s 20	$T_{1/2}$: From the Adopted Levels.

 α radiations

$E\alpha$	E(level)	$I\alpha^\ddagger$	HF †	Comments
9668 10	0.0	100	1.000	$E\alpha$: weighted average of 9665 10 (1973No09) and 9680 20 (1973Ha32). Other: 9700 80 (1970Va13) and 9.72 MeV 7 (2018Br13). $I\alpha$: only one α group has been observed.

$^\dagger r_0(^{214}\text{Ra})=1.549$ 3 is calculated from $\text{HF}(9668\alpha)=1.0$.

‡ Absolute intensity per 100 decays.