

^{254}Cf α decay

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Y. Akovali	NDS 94,131 (2001)	1-Aug-2001

Parent: ^{254}Cf : E=0.0; $J^\pi=0^+$; $T_{1/2}=60.5$ d 2; $Q(\alpha)=5926$ 5; $\% \alpha$ decay=0.31 2

 ^{250}Cm Levels

E(level)	J^π
0.0 [†]	0 ⁺
43 [†] 5	2 ⁺

[†] Band(A): K=0⁺ g.s. band.

 α radiations

$E\alpha$ [†]	E(level)	$I\alpha$ ^{‡@}	HF [#]
5791 5	43	17 2	2.9 4
5833 5	0.0	83 2	1.0

[†] Measured by [1968Be21](#). The original energies are decreased here by 1 keV, because of changes in the calibration energies, As recommended by [1991Ry01](#).

[‡] Intensity per 100 α decays, measured by [1968Be21](#).

[#] $r_0(^{250}\text{Cm})=1.517$ 4 is calculated by the evaluator from $Hf(5833\alpha)=1.0$. $T_{1/2}(^{254}\text{Cf})=60.5$ d 2, $\% \alpha(^{254}\text{Cf})=0.31$ 2, $Q(\alpha)(^{254}\text{Cf})=5926$ 5 are used in calculations.

[@] For absolute intensity per 100 decays, multiply by 0.0031 2.

^{254}Cf α decay**Band(A): K=0⁺ g.s. band**2⁺ 430⁺ 0.0