

^{254}Lr α decay

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

Parent: ^{254}Lr : E=0.0; $T_{1/2}=13$ s 3; $Q(\alpha)=8850$ SY; % α decay=76 11

 ^{250}Md Levels

E(level)[†]

0.0
 ≈ 250
 ≈ 310

[†] Deduced from measured $E\alpha$'s and $Q(\alpha)=8846$ 150 (from the mass adjustments of [1995Au04](#)).

 α radiations

<u>$E\alpha$[†]</u>	<u>E(level)</u>	<u>$I\alpha$^{‡@}</u>	<u>HF[#]</u>
8408 20	≈ 310	36	≈ 3.6
8460 20	≈ 250	64	≈ 3.0

[†] Measurement by [1985He22](#). Earlier measurement: [1981Mu06](#).

[‡] α intensity per 100 α decays, measured by [1985He22](#).

[#] $r_0(^{250}\text{Md})=1.471$ 15 is used in calculations. No uncertainties on $I\alpha$'s were listed by [1985He22](#), therefore, HF's are given here as approximate values. When uncertainties on α branching, $E\alpha$, $Q(\alpha)$ and $T_{1/2}$ are included, but $\Delta I\alpha$'s omitted, HF's are $\text{Hf}(8460\alpha)=3.0$ 9, $\text{Hf}(840\alpha)=3.6$ 10.

[@] For absolute intensity per 100 decays, multiply by 0.76 11.