

^{204}Ra α decay [2005Uu02](#),[1996Le09](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 192,1 (2023)	1-Aug-2023

Parent: ^{204}Ra : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=57$ ms $+11-7$; $Q(\alpha)=7637$ 7; $\% \alpha$ decay=100

^{204}Ra - $T_{1/2}$: weighted average of 59 ms $+12-9$ ([1996Le09](#)) and 54 ms $+19-11$ ([2005Uu02](#)). Others: 72 ms $+24-14$ in [1995Le15](#) and 45 ms $+55-21$ ([1995Le04](#)).

 ^{200}Rn Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	0^+	1.03 s 3	$T_{1/2}$: From Adopted Levels.

 α radiations

E_α	E(level)	I_α^\ddagger	HF †	Comments
7486 6	0.0	100	1.000	E_α : Weighted average of 7488 keV 12 (1995Le04), 7484 keV 10 (1996Le09) and 7486 keV 8 (2005Uu02); Other: 7488 keV 25 in 1995Le15 , superseded by 1996Le09 .

† Using $r_0(^{200}\text{Rn})=1.522$ 10 from $\text{HF}(\alpha)=1.0$.

‡ Absolute intensity per 100 decays.