^{207}Ra α decay (59 ms) 1996Le09,1987He10

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 177, 509, 2021	4-Jul-2021

Parent: ^{207}Ra: E=558 *10*; J^{π}=(13/2$^+$); $T_{1/2}$=59 ms *4*; Q(α)=7270 *60*; %α decay≤15.0

^{207}Ra-E: From the excitation energy of 362 keV *4* of the J^{π}=13/2$^+$ isomer in the daughter nucleus ^{203}Rn and the adopted Eα=7323 keV *8* (isomer) and 7131 keV *4* (ground state).

^{207}Ra-J^{π},$T_{1/2}$: From 2011Ko04.

^{207}Ra-Q(α): From 2021Wa16.

^{207}Ra-%α decay: From 2011Ko04.

^{203}Rn Levels

E(level)[†]	J^{π}[†]	$T_{1/2}$[†]
362 *4*	13/2$^+$	26.9 s *5*

[†] From Adopted Levels.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
7323 *8*	362	100	≥1.8	Eα: Weighted average of 7331 keV *15* (1996Le09), supersedes 7330 keV *15* (1995Le15), and 7320 keV *10*(1987He10).

[†] Using r_0(^{205}Ra)=1.513 *22*, weighted average of 1.539 *+27−50* in ^{206}Ra (N=118) and 1.510 *27* in ^{208}Ra (N=120), determined using HF_{α}=1.

[‡] For absolute intensity per 100 decays, multiply by ≤0.15.