

^{208}Fr α decay

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. J. Chiara and F. G. Kondev		NDS 111,141 (2010)	1-Oct-2009

Parent: ^{208}Fr : $E=0.0$; $J^\pi=7^+$; $T_{1/2}=59.1$ s 3; $Q(\alpha)=6772$ 3; $\% \alpha$ decay=89 3
 ^{208}Fr - $Q(\alpha)$ is from [2007Ma45](#).

 ^{204}At Levels

E(level)	J^π †	$T_{1/2}$ †
0	7^+	9.12 min 11

† From Adopted Levels.

 α radiations

$E\alpha$	E(level)	$I\alpha$ ‡	HF†	Comments
6641 3	0	100	1.50 6	$E\alpha$: From 1991Ry01 based on 6647 keV 5 (1967Va20), 6636 keV 5 (1974Ho27), and 6636 keV 5 (1981Ri04). 1988Wo11 and 1993Wa04 deduce $\approx 2\%$ L=2 admixtures from α anisotropy.

† Using $r_0(^{204}\text{At})=1.485$ 4 weighted average of 1.495 14 (^{204}Rn), 1.487 6 (^{206}Rn), 1.492 7 (^{202}Po), and 1.476 6 (^{204}Po) from [1998Ak04](#).

‡ For absolute intensity per 100 decays, multiply by 0.89 3.