

^{200}Fr α decay

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong	NDS 108, 1093 (2007)	1-Jan-2006

Parent: ^{200}Fr : $E=0$; $J^\pi=(3^+)$; $T_{1/2}=49$ ms 4; $Q(\alpha)=7621$ 50; % α decay=100.0

^{200}Fr - $T_{1/2}$: From RITU (2005De01). Others: 19 MS +13-6(1996En01),570 MS +270-140 (1995Mo14).

[Additional information 1.](#)

2005De01: Th(p,X), $E_p=1.4$ GeV, Separated by ISOLDE, Measured $E\alpha$, $T_{1/2}$.

1996En01: Measured $E\alpha$, $T_{1/2}$. Source produced by $^{170}\text{Yb}(^{35}\text{Cl,xng})$ $E=4.9$ - 5.3 MeV/nucleon. Separated with gas-filled recoil separator.

 ^{196}At Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(3^+)	0.388 s 7	$J^\pi, T_{1/2}$: From Adopted Levels.

 α radiations

$E\alpha$	E(level)	$I\alpha^\dagger$	Comments
7471 7	0.0	100	$E\alpha$: Weighted average of 7473 12 (2005De01), 7500 30 (1995Mo14), 7468 9 keV (1996En01).

† Absolute intensity per 100 decays.