

^{191}At α decay (1.7 ms) [2003Ke08](#),[2005Ke10](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 110, 999 (2009)	1-Nov-2008

Parent: ^{191}At : $E=0.0$; $J^\pi=(1/2^+)$; $T_{1/2}=1.7$ ms $+11-5$; $Q(\alpha)=7820$ 30; $\% \alpha$ decay ≈ 100.0

^{191}At - $T_{1/2}$: From $T_{1/2}=1.7$ ms $+11-5$ ([2003Ke08](#)).

^{191}At - $\% \alpha$ decay: From [2007Va21](#).

[2003Ke08](#), [2005Ke10](#): ^{191}At from $^{141}\text{Pr}(^{54}\text{Fe},4n)$, $E=248$ to 266 MeV 8 8 energy points were checked for an optimum cross section; fusion-evaporation residues (ER) were separated using gas-filled recoil separator RITU; Detectors: position sensitive silicon detector, quadrant silicon detector; Measured: $E\alpha$, $I\alpha$, $T_{1/2}$ from ER- $\alpha(^{191}\text{Pt})$ - $\alpha(^{187}\text{Bi})$ coin.

 ^{187}Bi Levels

E(level)	J^π	$T_{1/2}$	Comments
112 20	$1/2^+$	0.31 ms $+19-9$	E(level): From adopted level and 7552α from ^{191}At g.s. to this level (2003Ke08). J^π : From systematics. 2003Ke08 proposed $\pi(2p-1h)$ configuration. $T_{1/2}$: From $7552\alpha(t)$ (2003Ke08).

 α radiations

$E\alpha$	E(level)	$I\alpha^\ddagger$	HF^\dagger
7552 11	112	100	0.4 3

† From [2003Ke08](#), calculated from the measured values using the method in [1959Ra14](#) and normalized to the α decay of ^{212}Pb .

‡ For absolute intensity per 100 decays, multiply by ≈ 1 .