

^{217}Fr α decay

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 181, 475 (2022)	1-Jan-2022

Parent: ^{217}Fr : E=0.0; $J^\pi=9/2^-$; $T_{1/2}=22 \mu\text{s}$ 5; $Q(\alpha)=8469$ 4; % α decay=100.0

^{217}Fr - $J^\pi, T_{1/2}$: From [2018Ko01](#) (A=217 evaluation).

^{217}Fr - $Q(\alpha)$: From [2021Wa16](#).

 ^{213}At Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	$9/2^-$	125 ns 6	$J^\pi, T_{1/2}$: From Adopted Levels.

 α radiations

$E\alpha$	E(level)	$I\alpha^{\ddagger}$	HF^{\dagger}	Comments
8313 5	0.0	100	1.2 3	$E\alpha$: Weighted average of 8315 8 (1970Bo13) and 8312 5 (1988Hu08), uncertainty is the lower input value. Other measured value: 8310 20 (1968Ha14).

[†] Using $r_0(^{213}\text{At})=1.5656$ 5, unweighted average of $r_0(^{212}\text{Po})=1.5658$ 6 (Perhaps 1.5658 59 in [2020Si16](#) is a misprint of 1.56580 59) and $r_0(^{214}\text{Rn})=1.5655$ 13 ([2020Si16](#)).

[‡] Absolute intensity per 100 decays.