^{217}Ac α decay (8 ns)

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

Parent: ^{217}Ac: E=1498.1 *4*; J^{π}=19/2$^-$; $T_{1/2}$=8 ns *2*; Q(α)=9832 *10*; %α decay<0.59

^{217}Ac-E: 1985De14 show a doublet parent of 1498 (19/2$^-$) and 1529 (21/2$^-$), which are 1498.1 and 1528.4, respectively, in 2018Ko01 (A=217 evaluation).

^{217}Ac-$T_{1/2}$: From 1973No02. Also quoted in 1985De14.

^{217}Ac-Q(α): From 2021Wa16.

^{217}Ac-%α decay: From ≤0.46 *13* (1985De14).

^{213}Fr Levels

E(level)	J^{π}	$T_{1/2}$	Comments
0.0	9/2$^-$	34.17 s *6*	J^{π},$T_{1/2}$: From Adopted Levels.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
11137 *15*	0.0	100	<2.7×10^4	Eα: From 1985De14 (peaks at 9.65 and 10.54 MeV, measured by 1973No09 were used as calibration points). Other: 11130 (1973No09). Iα: α intensity per 100 α decays from the level.

[†] Using r_0(^{213}Fr)=1.5460 *27*, unweighted average of r_0(^{212}Rn)=1.5433 *36* and r_0(^{214}Ra)=1.5487 *30* (2020Si16). Assuming %α branching=0.30 *30* of ^{217}Ac.

[‡] For absolute intensity per 100 decays, multiply by <0.0059.