^{217}Ac α decay: E=1.15 MeV

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

Parent: ^{217}Ac: E=1149.1; $J^{\pi}=15/2^{-}$; $T_{1/2}<10$ ns; Q(α)=9832 *10*; %α decay<0.31

^{217}Ac-E: 1985De14 show a doublet parent of 1147 ($17/2^{-}$) and 1150 ($15/2^{-}$), which are 1146.6 and 1149.1, respectively, in 2018Ko01 (A=217 evaluation).

^{217}Ac-J^{π}: From 2018Ko01 (A=217 evaluation).

^{217}Ac-$T_{1/2}$: From 1985De14.

^{217}Ac-Q(α): From 2021Wa16.

^{217}Ac-%α decay: From ≤0.27 *4* in (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
10780 *15*	0.0	100	>8000	Eα: measured by 1985De14. The 9.65 and 10.54 MeV α's from the g.s. and 740-ns isomer of ^{217}Ac were used as calibration energies. Other: 10820 keV (1982SaZO). 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).

[‡] For absolute intensity per 100 decays, multiply by <0.0031.