^{205}Fr α decay 1974Ho27,1967Va20

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

Parent: ^{205}Fr: E=0; $J^{\pi}=9/2^{-}$; $T_{1/2}=3.90$ s *7*; Q(α)=7054.7 *24*; %α decay=98.5 *4*
^{205}Fr-J^{π},$T_{1/2}$: From 2020Ko17.
^{205}Fr-Q(α): From 2021Wa16.
^{205}Fr-%α decay: From 2020Ko17.

^{201}At Levels

E(level)	J^{π}[†]	$T_{1/2}$[†]
0	$9/2^{-}$	87.6 s *13*

[†] From Adopted Levels.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
6915.4 *24*	0	100	1.70 *8*	Eα: Weighted average Eα=6910 keV *20* (1964Gr04), 6917 keV *5* (1967Va20), 6912 keV *5* (1974Ho27), 6917 keV *5* (1981Ri04), 6915 keV *7* (1995Le04) and 6916 keV *5* (2005De01).

[†] Using $r_0(^{201}At)$=1.516 *13*, unweighted average of $r_0(^{202}Rn)$=1.5287 *42* and $r_0(^{200}Po)$=1.5026 *13* (2020Si16).
[‡] For absolute intensity per 100 decays, multiply by 0.985 *4*.