

$^{199}\text{Fr}$   $\alpha$  decay (4.5 ms) 2013Ka16,2013Uu01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao		NDS 121,395 (2014)	1-Mar-2014

Parent:  $^{199}\text{Fr}$ :  $E=0$ ;  $J^\pi=(1/2^+)$ ;  $T_{1/2}=4.5$  ms  $+31-13$ ;  $Q(\alpha)=781\times 10^1$  4; % $\alpha$  decay=?

2013Ka16:  $^{195}\text{At}$  from  $^{199}\text{Fr}(\alpha)$ [from  $^{141}\text{Pr}(^{60}\text{Ni},\text{X})$ ]. Measured  $E_\gamma$ ,  $E_\alpha$ ,  $I_\alpha$ ,  $\alpha\gamma$ -coin,  $T_{1/2}$  using SHIP at GSI facility.

2013Uu01:  $^{195}\text{At}$  from  $^{199}\text{Fr}(\alpha)$ [from  $^{141}\text{Pr}(^{60}\text{Ni},\text{X})$ ]. Measured  $E_\gamma$ ,  $E_\alpha$ ,  $I_\alpha$ ,  $T_{1/2}$  using RITU separator and GREAT spectrometer at JYFL facility.

1999Ta20:  $^{169}\text{Tm}(^{35}\text{Ar},6n)$ , measured  $E_\alpha$ ,  $T_{1/2}$  from  $^{199}\text{Fr}$  decay.

 $^{195}\text{At}$  Levels

E(level)	$J^\pi$	$T_{1/2}^\dagger$	Comments
0	$(1/2^+)$	290 ms 20	E(level), $J^\pi$ : From 2013Ka16. $T_{1/2}$ : from Adopted Levels.

$^\dagger$  From 2013Ka16.

 $\alpha$  radiations

$E_\alpha$	E(level)	Comments
7664 11	0	$E_\alpha$ : from 2013Ka16. Others: 7668 15 (2013Uu01), 7655 40 (1999Ta20).