^{199}At α decay (0.31 s) 2013Ja06

History

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

Parent: ^{199}At: E=240; $J^{\pi}=1/2^+$; $T_{1/2}$=0.31 s *8*; Q(α)=6777.2 *12*; %α decay≈1.0

^{199}At-$T_{1/2}$: From 2013Ja06.

^{199}At-%α decay: %α≈1 (2013Ja06).

2013JA06: ^{199}At from ^{203}Fr(α)[from ^{169}Tm(^{40}Ar,6n)]. E(^{40}Ar)=205 MeV provided by the K-130 cyclotron at the Accelerator Laboratory in the University of Jyvaskyla (JYFL). Target=^{169}Tm (99.8%). Measured Eγ, Iγ, Eα, Iα, E(ce), I(ce), $\gamma\gamma$, (ce)γ-coin, $T_{1/2}$ using the recoil-decay tagging (RDT) technique with JUROGAM array. Deduced α branching ratio.

^{195}Bi Levels

E(level)	J^{π}	$T_{1/2}$	Comments
401	[1/2$^+$]	87 s *1*	$T_{1/2}$: from ^{195}Bi Adopted Levels.

α radiations

Eα	E(level)	Iα[†]	Comments
≈6480	401	100	Eα: from 2013Ja06.

[†] For absolute intensity per 100 decays, multiply by ≈0.01.