^{157}Ta α decay (1.7 ms) 1996Pa01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 170, 1 (2020)	16-Aug-2020

Parent: ^{157}Ta: E=1589 *10*; J^{π}=(25/2$^-$); $T_{1/2}$=1.7 ms *1*; Q(α)=6355 *6*; %α decay=100.0

^{157}Ta-%α decay: From lack of other observed decay modes.

Experimental methods:

1996Pa01: produced by heavy-ion fusion-evaporation reaction with products separated in recoil mass spectrometer. Measured α's with Si strip detector.

^{153}Lu Levels

E(level)	J^{π}	Comments
0.0	11/2$^-$	E(level): The parent level energy is based on the assumption that the observed α feed the ground state as noted in the ^{157}Ta Adopted Levels.

α radiations

Eα	E(level)	Iα[‡]	HF[†]	Comments
7744 *8*	0.0	100	2.05×10^4 *14*	Eα: From 1996Pa01. Iα: Value assumes that all of the α decay is via this branch.

[†] The nuclear radius parameter $r_0(^{153}Lu)$=1.5551 *66* is deduced from interpolation (or unweighted average) of radius parameters of the adjacent even-even nuclides.

[‡] Absolute intensity per 100 decays.