

^{156}Ta p decay (0.36 s) 1993Li34,1996Pa01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 160, 1 (2019)	21-Oct-2019

Parent: ^{156}Ta : E=102 8; $J^\pi=9^+$; $T_{1/2}=0.36$ s 4; Q(p)=1020 4; %p decay=4.2 9

^{156}Ta -E: [Additional information 1](#).

[Additional information 2](#).

Data are from [2003Re20](#) and are based on the studies of [1993Li34](#) and [1996Pa01](#).

[1993Li34](#): nuclide produced using the $^{58}\text{Ni}+^{102}\text{Pd}$ reaction, E(^{58}Ni)=290 MeV. Reaction products analyzed using a recoil mass separator and implanted into a double-sided Si strip detector. Measured correlation of decay products, $T_{1/2}$, E(p), proton branching fraction.

[1996Pa01](#): nuclide produced in heavy-ion fusion reactions initiated by ^{58}Ni and ^{70}Ge bombardment of ^{102}Pd , ^{106}Cd and ^{112}Sn targets, with bombarding energies ranging from 290 MeV to 354 MeV. Reaction products separated in a recoil mass separator and analyzed using a double-sided Si strip detector. Measured correlation of decay products, $T_{1/2}$, E(p) and proton branching fraction.

 ^{155}Hf Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(7/2 ⁻)	843 ms 30	$J^\pi, T_{1/2}$: adopted values (from Adopted Levels dataset).

Protons (^{155}Hf)

E(p)	E(^{155}Hf)	I(p)	Comments
1106 8	0.0	100	E(p): weighted average of 1108 8 (1996Pa01) and 1103 12 (1993Li34). This differs somewhat from that calculated from the adopted energy of the excited state in ^{156}Ta .