^{156}Ta ε decay (106 ms) 2011Da12

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 113, 2537 (2012)	1-Mar-2012

Parent: ^{156}Ta: E=0; $J^{\pi}=(2^-)$; $T_{1/2}$=106 ms *4*; Q(ε)=12053 *SY*; %ε+%β^+ decay=29 *3*

^{156}Ta-E: From 2011AuZZ.

^{156}Ta-$T_{1/2}$: From 2011Da12.

^{156}Ta-J^{π}: From the adopted values.

Additional information 1.

Source material produced from the ^{106}Cd(^{58}Ni,p3n) reaction, E(^{58}Ni)=290, 300 MeV, on a 1.1-mg/cm^2-thick self-supporting ^{106}Cd target, 96.5% enrichment. Reaction products were separated in the gas-filled separator RITU then implanted in the double-sided Si-strip detectors of the GREAT spectrometer. Report E(p), %p, $T_{1/2}$, Eα and %α. From the relative intensities of the proton peak from ^{156}Ta decay and the α peak from ^{156}Hf decay, 2011Da12 deduce a value for the p and α branching from the ^{156}Ta state.

2011Da12 report that the ^{156}Hf g.s. is fed in the decay of 106 ms ^{156}Ta and that the 8^+ α-decaying state is not, but provide no information on the radiations or on the levels that are populated.

The p branching from this level is 71% *3* (2011Da12).