^{157}W ε decay 2010Bi03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 132, 1 (2016)	4-Dec-2015

Parent: ^{157}W: E=0.0; $J^{\pi}=(7/2^{-})$; $T_{1/2}$=275 ms *40*; Q(ε)=9330 *SY*; %ε+%β^{+} decay=?

^{157}W-all parent data are from ^{157}W Adopted Levels; the uncertainty associated with the systematic value is Q(ε) is 430.

2010Bi03: first identification of the ^{157}W nuclide via α decay of newly identified ^{161}Os nuclide (for a description of 2010Bi03 see ^{161}Os α decay:640 μs dataset). Both 6890α and 6580α from ^{161}Os g.s. to ^{157}W 640 μs g.s. and 275 ms isomeric state respectively were recorded in coincidence with 6117α from ^{157}Ta 10.1 ms g.s. and 6213α from ^{157}Ta 4.3 ms isomeric state to ^{153}Lu. The coincidence would be impossible, unless ^{157}W g.s. ε decays to ^{157}Ta. No details of the decay scheme are known.