Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 143, 1 (2017)	31-Mar-2017

Q(β^-)=3950 *SY*; S(n)=4710 *SY*; S(p)=1.051×10^4 *SY*; Q(α)=−1.55×10^3 *SY* 2017Wa10
ΔQ(β^-)=200 (syst), ΔS(n)=280 (syst), ΔS(p)=450 (syst), ΔQ(α)=360 (syst) (2017Wa10).

2009St16, 2008StZY thesis: ^{193}W nuclide identified in the reaction ^{9}Be(^{208}Pb,X) with a beam energy of 1 GeV/nucleon produced by the SIS-18 accelerator at GSI facility. Target thickness=2.5 g/cm^2. Fragments identified in flight by the Fragment Separator (FRS) operated in achromatic mode based on time-of-flight, Bρ and energy loss. Data collected on six FRS magnetic rigidity settings centered on: ^{206}Hg, ^{203}Ir, ^{202}Os, ^{199}Os, ^{192}W, and ^{185}Lu. Nuclides halted in a passive stopper surrounded by the RISING array in "Stopped Beam" configuration.

Experimental identification using a similar setup is reported in 2009Al30.

^{193}W Levels

E(level)	Comments
0.0	%β^-=100 The β^- decay is the only decay mode expected. Approximate number of nuclei implanted in the plastic stopper reported to be 9400 *100* (2009St16,2008StZY). E(level): the observed fragments are assumed to be in the ground state of ^{193}W nuclei. T$_{1/2}$: >300 ns from approximate time-of-flight as given in 2008StZY. Calculated value 18.7 s for β decay (1997Mo25) and the systematic value of 3 s (2017Au03). J$^\pi$: 1/2$^+$ predicted in 1997Mo25. Production σ=42 nb *9* (^{208}Pb fragmentation, E=1 GeV/nucleon, on Be target − 2014Ku02).