Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 195,368 (2024)	1-Dec-2023

Q(β^-)=4660 *syst*; S(n)=5870 *syst*; S(p)=9010 *syst*; Q(α)=−110 *syst* 2021Wa16

ΔQ(β^-)=300 (syst), ΔS(n)=360 (syst), ΔS(p)=500 (syst), ΔQ(α)=500 (syst) (2021Wa16).

S(2n)=10700 *360* (syst, 2021Wa16), S(2p)=20140 (2019Mo01, calculated).

2009St16, 2008StZY thesis: ^{191}Ta nuclide identified in the reaction ^{9}Be(^{208}Pb,X), E=1 GeV/nucleon, studied at the SIS-18 accelerator facility, GSI. 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.

2014Ku02: ^{9}Be(^{208}Pb,X), E=1 GeV/nucleon; measured reaction products from fragmentation, production σ=(16.0 mb *32*) × 10^{-6} for ^{191}Ta.

^{191}Ta Levels

E(level)	Comments
0	%β^-=100 Approximate number of nuclei implanted in the plastic stopper reported to be 260 *20* (2009St16,2008StZY). E(level): the observed fragments are assumed to be in the ground state of ^{191}Ta nuclei. The β^- decay is the only decay mode expected. $T_{1/2}$: Expected >300 ns from the approximate time-of-flight (tof), tof is also listed as <<3.4 μs in 2008StZY. Calculated and systematic half-life values are 1.8 s for β decay (2019Mo01) and 460 ms (syst) (2021Ko07 – NUBASE). J$^\pi$: 9/2$^-$ predicted in 2019Mo01; 7/2$^+$ from systematics (2021Ko07 – NUBASE).