Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 166, 1 (2020)	20-Apr-2020

Q(β^-)=5803 *SY*; S(n)=3120 *SY*; S(p)=10570 *SY*; Q(α)=−150 *SY* 2017Wa10

2010Al24: ^{205}Pt nuclide identified in ^{9}Be(^{238}U,X) reaction with a beam energy of 1 GeV/nucleon produced by the SIS synchrotron at GSI facility. Target=2500 mg/cm^2. The fragment residues were analyzed with the high resolving power magnetic spectrometer Fragment separator (FRS). The identification of nuclei was made on the basis of magnetic rigidity, velocity, time-of-flight, energy loss and atomic number of the fragments using two plastic scintillators and two multisampling ionization chambers. The FRS magnet was tuned to center on ^{210}Au, ^{216}Pb, ^{219}Pb, ^{227}At and ^{229}At nuclei along the central trajectory of FRS.

2011Mo18: ^{208}Pb beam, E=1 GeV/nucleon, delivered by the SIS-18 synchrotron at GSI to a 1.6 g/cm^2 Be target. Reaction products identified by the magnetic spectrometer fragment separator (FRS) by A/Q, energy loss and magnetic rigidity measurements.

2017Ca12: ^{238}U beam, E=1 GeV/nucleon, from SIS-18 synchrotron at GSI on a ^{9}Be target of thickness 1.6 g/cm^2. Reaction products were separated and identified by GSI Fragment Separator (FRS) using Bρ-ΔE-Bρ technique. The FRS tracking detectors were four time-projection chambers (TPCs), two ionization chambers, and thin plastic scintillators for tof measurement. Mass-over-charge (A/Q) ratios were measured for ions analyzed on an event-by-event basis. Finally selected ions of interest were implanted into a stack of double-sided silicon strip detectors SIMBA, which also detected β-decay events.

^{205}Pt Levels

E(level)	J$^\pi$	Comments
0.0	(9/2$^+$)	%β^-=100; %β^-n=? J$^\pi$: From systematics of single-particle structures above N=126. T$_{1/2}$: >300 ns from the time-of-flight in 2017Ca12, but the actual lifetime is expected to be much longer. configuration: $\nu(g^{+1}_{9/2})$ and spherical shape.