Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	ENSDF	1-Jun-2022

Q(β^-)=7.4×10^3 *SY*; S(n)=3.3×10^3 *SY*; S(p)=9060 *SY*; Q(α)=1.2×10^3 *SY* 2021Wa16
Q(β^-n)=2510 (syst) *300* (2021Wa16).
2010Al24: ^{208}Au nuclide produced in ^{9}Be(^{238}U,X) reaction with E = 1 GeV/nucleon produced by the SIS synchrotron at GSI facility. Fragments were analyzed with the Fragment Recoil Separator (FRS) and identified using magnetic rigidity, velocity, time-of-flight, energy loss and atomic number of the fragments.

^{208}Au Levels

E(level)	Comments
0	%β^-=100; %β^-n=? Production σ=0.748 nb (from e-mail reply of Oct 29, 2010 from H. Alvarez-Pol, which also stated that further analysis was in progress). The β^- and delayed neutron decay are the only decay modes expected. Calculated %β^-n=4 (2019Mo01). E(level): it is assumed that the observed fragments correspond to nuclei in their ground state. From A/Z plot (figure 1 in 2010Al24), 15 or 18 events are assigned to ^{208}Au. $T_{1/2}$: >300 ns from time-of-flight as given in 2006Ca30 for a similar setup. Actual half-life is expected to be much larger as suggested by the calculated value of 9.5 s (2019Mo01).