

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Shaofei Zhu and E. A. Mccutchan		NDS 175, 1 (2021)	1-May-2021

$Q(\beta^-)=5310$ SY; $S(n)=4500$ SY; $S(p)=10910$ CA; $Q(\alpha)=1210$ CA [2021Wa16,2019Mo01](#)

$\Delta Q(\beta^-)=450$; $\Delta S(n)=500$ ([2021Wa16](#)).

$S(2n)=7390$ (syst) 500; $Q(\beta^-n)=1920$ (syst) 400 ([2021Wa16](#)).

$S(p)$, $Q(\alpha)$ and $S(2p)=20440$ (theory, [2019Mo01](#)).

[2010A124](#): ^{214}Hg nuclide was produced by the fragmentation of ^{238}U at an energy of 1 GeV/nucleon on a ^9Be target at GSI. Its identification was made on the basis of magnetic rigidity, velocity and time-of-flight, energy loss and its atomic number determined by FRagment Separatort (FRS) and associated detectors at different focal planes. The FRS magnet was tuned for ^{210}Au , ^{216}Pb , ^{219}Pb , ^{227}At and ^{229}At to be along its central trajectory. The probability of at least one of the events corresponding to ^{214}Hg was larger than 95%.

 ^{214}Hg Levels

E(level)	J^π	Comments
0	0^+	$\% \beta^- = 100$; $\% \beta^- n = ?$ Only the β^- and β^--delayed neutron decays are expected. Calculated $\% \beta^- n = 10$ (2019Mo01). $T_{1/2}$: Experimental lower limit: 300 ns based on the minimum time-of-flight through FRS (2006Ca30); Actual halflife is expected to be much longer based on calcuated half-life for β decay: 5.5 s (2019Mo01). Production $\sigma=0.247$ nb with 10% statistical and 20% systematic uncertainties (2010A124).