

Adopted Levels

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	K. Auranen and E. A. Mccutchan		NDS 168, 117 (2020)	1-Aug-2020

$Q(\beta^-)=4310$ SY; $S(n)=4690$ SY; $Q(\alpha)=1320$ SY [2017Wa10](#)

$\Delta Q(\beta^-)=360$; $\Delta S(n)=360$; $\Delta Q(\alpha)=500$ ([2017Wa10](#)).

$S(2n)=8020$ (syst) 360; $Q(\beta^-n)=760$ (syst) 300 ([2017Wa10](#)).

[2010A124](#): ^{212}Hg produced in $^9\text{Be}(^{238}\text{U},X)$ reaction with $E(^{238}\text{U})=1$ GeV/nucleon at GSI facility. Fragments were analyzed with the high resolving power magnetic spectrometer FRagment Separator (FRS) and identified based on measurements of magnetic rigidity, velocity, time-of-flight, energy loss and atomic number of the fragments.

[2017Ca12](#): ^{212}Hg produced in $^9\text{Be}(^{238}\text{U},X)$ reaction with $E(^{238}\text{U})=1$ GeV/nucleon at GSI facility, separated with the high resolving power magnetic spectrometer FRagment Separator (FRS) and identified based on measurements of magnetic rigidity, velocity, time-of-flight, energy loss and atomic number of the fragments using two plastic scintillators and two multisampling ionization chambers.

 ^{212}Hg Levels

E(level)	J^π	Comments
0.0	0^+	<p>$\% \beta^- = 100$; $\% \beta^- n = ?$ $\% \beta^-$: the β^- and delayed neutron decay are the only decay modes expected. Calculated $\% \beta^- n = 2$ (2019Mo01). $T_{1/2}$: > 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 21 s for β decay (2019Mo01). Production $\sigma = 1.71$ nb (from e-mail reply of Oct 29, 2010 from first author of 2010A124, which also stated that further analysis was in progress). From A/Z plot (figure 1 in 2010A124), ≈ 45 events are assigned to ^{212}Hg; from figure 5 of 2017Ca12 ≈ 70 events are assigned to ^{212}Hg.</p>