Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	ENSDF	25-Feb-2010

S(n)=9.59×10^3 *8*; S(p)=4.5×10^2 *syst*; Q(α)=7598 *20* 2012Wa38
Note: Current evaluation has used the following Q record 9636 syst 533 syst 7598 21 2003Au03,2010An01.
Q(α): 7598 keV *21* from Eα=7350 keV *20* to the 80-keV state in 2010An01. Q(α)=7567 keV *220* in 2003Au03.
Production: ^{144}Sm(^{40}Ca,5n), E=232 MeV (2010An01), with a production cross section of ^{179}Pb=140 pb *40*. Identification: twelve events were observed with one being Er-α_1(^{179}Pb)-α_2(^{175}Hg)-α_2(^{171}Pt).

^{179}Pb Levels

E(level)	J$^\pi$	T$_{1/2}$	Comments
0.0	(9/2$^-$)	3.5 ms *+14−8*	%α=100 J$^\pi$: Favored α-decay to the (9/2$^-$) excited state in ^{175}Hg, following by 80 keV, M1 transition to the (7/2$^-$) ground state of ^{175}Hg. The assignment is tentative. T$_{1/2}$: From 7350α(t) in 2010An01. Eα=7350 keV 20 (2010An01). configuration: Likely νh$_{9/2}$ configuration. The assignment is tentative.