

Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 126, 151 (2015)	1-Feb-2015

$Q(\beta^-)=-7330$ 60; $S(n)=9050$ 70; $S(p)=-370$ 70; $Q(\alpha)=6710$ 50 [2012Wa38](#)
 $Q(\epsilon p)=8440$ 60; $S(2n)=20610$ 120 (syst); $S(2p)=1510$ 80 ([2012Wa38](#)).
[2010An13](#), [2013EI08](#): U(p,X), E=1.4 GeV. Measured $E\alpha$, $I\alpha$, $T_{1/2}$, $E\gamma$, x-rays, fission fragments.

^{180}Tl Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(5 ⁻)	1.09 s <i>l</i>	$\% \epsilon + \% \beta^+ = 94$ 4; $\% \epsilon \text{SF} = 3.2 \times 10^{-3}$ 2; $\% \alpha = 6$ 4 $T_{1/2}$: from 2010An13 . Others: 1.1 s 2 (2013KoZR), 0.94 s 25 (2013EI08 , from β -delayed fission(t)), 1.5 s 2 (1998To14), 0.97 s +9-8 (1987La23), 1.9 s 9 (1993BoZK), and 0.70 s +12-9 (1987La23). J^π : direct feeding to 4 ⁺ and 6 ⁺ states in ^{180}Hg ; proposed configuration of $\pi 3s_{1/2}$ coupled with $\nu 1h_{9/2}$ (2013KoZR , 2011EI07). $\% \epsilon + \% \beta^+, \% \alpha$: from 2010An13 . $\% \alpha$: other: 7 5 from 2003An27 . $\% \epsilon \text{SF}$: from 2013EI08 . Others: 3.6×10^{-3} 7 (2010An13 , earlier analysis of same data in 2013EI08), $\approx 1.0 \times 10^{-4}$ from 1987La23 .