

^{176}Tl p decay (5.2 ms) 2004Ke06

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Balraj Singh	ENSDF	08-Sep-2009

Parent: ^{176}Tl : $E=0$; $J^\pi=(3^-, 4^-, 5^-)$; $T_{1/2}=5.2$ ms $+30-14$; $Q(p)=1265$ *l8*; %p decay \approx 100.0

^{176}Tl - $J^\pi, T_{1/2}$: From 2004Ke06.

^{176}Tl - $Q(p)$: Deduced from measured $E(p)(\text{lab})=1258$ *l8* (2004Ke06).

^{176}Tl -%p decay: %p \approx 100 (2004Ke06), No α decay was observed.

2004Ke06: measured proton decay of ^{176}Tl .

 ^{175}Hg Levels

<u>E(level)</u>	<u>J^π</u>	<u>Comments</u>
0	($7/2^-, 9/2^-$)	J^π : from Adopted Levels.

Protons (^{175}Hg)

<u>E(p)</u>	<u>E(^{175}Hg)</u>	<u>Comments</u>
1258 <i>l8</i>	0	From comparison of measured half-life of ^{176}Tl decay with WKB calculations of half-life for $s_{1/2}$, $d_{3/2}$ and $h_{11/2}$ orbitals, most probable assignment is $L=0$ from $s_{1/2}$ orbital.