

^{202}At α decay (0.46 s) 1992Hu04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao		NDS 133, 221 (2016)	1-Dec-2015

Parent: ^{202}At : $E=391.7+x$ 2; $J^\pi=(10^-)$; $T_{1/2}=0.46$ s 5; $Q(\alpha)=6353.8$ 13; $\% \alpha$ decay=0.096 11

^{202}At - $T_{1/2}=0.46$ s 5 (1992Hu04).

^{202}At - $\% \alpha$ decay: From 1992Hu04.

1992Hu04: Measured $E\alpha$, $I\alpha$ and $\alpha(t)$.

 ^{198}Bi Levels

E(level)	J^π [†]	$T_{1/2}$ [†]	Comments
0.0	(2 ⁺ ,3 ⁺)		
0.0+x [†]	7 ⁺	11.6 min 3	Additional information 1.
248.5+x 5	(10 ⁻)	7.7 s 5	

[†] From Adopted Levels.

 α radiations

$E\alpha$ [†]	E(level)	$I\alpha$ [#]	HF [‡]
6227 5	248.5+x	100	2.56

[†] From 1992Hu04.

[‡] $r_0=1.485$ 5.

[#] For absolute intensity per 100 decays, multiply by 0.00096 11.

 $\gamma(^{198}\text{Bi})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α [‡]	$I_{(\gamma+ce)}$ [†]	Comments
248.5 5	248.5+x	(10 ⁻)	0.0+x	7 ⁺	E3	1.54 3	100	$\alpha(K)=0.1645$; $\alpha(L)=0.5652$; $\alpha(M)=0.1546$; $\alpha(N+..)=0.04774$ $E_\gamma, \text{Mult.}$: From ^{198}Bi IT decay (1972Ha73). Additional information 2.

[†] Relative intensity from $I\alpha$. For absolute intensity per 100 decays, multiply by 0.096 11.

[‡] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

Decay Scheme

