

^{208}At α decay 1981Va27,1981Va29

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	C. J. Chiara and F. G. Kondev		NDS 111,141 (2010)	1-Oct-2009

Parent: ^{208}At : $E=0.0$; $J^\pi=6^+$; $T_{1/2}=1.63$ h 3; $Q(\alpha)=5751.0$ 22; $\% \alpha$ decay=0.55 6

Others: 1968Go12, 1970GoZZ.

 ^{204}Bi Levels

<u>E(level)[†]</u>	<u>J^π[†]</u>
0	6^+
5.55 5	5^+
15.08 7	4^+
53.40 20	7^+

[†] From Adopted Levels.

 α radiations

<u>$E\alpha$[†]</u>	<u>E(level)</u>	<u>$I\alpha$^{†\#}</u>	<u>HF[‡]</u>	<u>Comments</u>
5586 2	53.40	0.87	163	
5626 4	15.08	2.14 20	102 15	
5634 [@]	5.55			$E\alpha$: This α was not observed, presumably because its energy is close to the intense 5640.3-keV α line.
5640.3 21	0	96.9 3	2.7 3	$E\alpha, I\alpha$: from 1991Ry01.

[†] From 1981Va27 and 1981Va29 unless otherwise specified.

[‡] Using $r_0(^{204}\text{Bi})=1.436$ 7 weighted average of 1.4550 17 (^{202}Pb), 1.4296 8 (^{204}Pb), 1.476 6 (^{204}Po) and 1.4571 33 (^{206}Po) from 1998Ak04.

[#] For absolute intensity per 100 decays, multiply by 0.0055 6.

[@] Existence of this branch is questionable.