

^{204}Pt β^- decay 2009Mo17

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

Parent: ^{204}Pt : $E=0.0$; $J^\pi=0^+$; $T_{1/2}=10.3$ s 14; $Q(\beta^-)=2320$ SY; $\% \beta^-$ decay=?

^{204}Pt - $T_{1/2}$: Weighted averages of 10.4 s 18 (165 γ (t)) and 10.1 s 22 (305 γ (t)) in 2009Mo17. The 165 γ and 305 γ were identified in 2009Mo17 as belonging to ^{204}Au , produced following β^- decay of ^{204}Pt .

^{204}Pt - $Q(\beta^-)$ is from theoretical predictions in 1997Mo25.

2009Mo17: Source produced by bombarding a 2.5-g/cm² ^9Be target with $E(^{208}\text{Pb})=1$ GeV/A, beam; GSI Fragment Separator; A/Q measured using magnetic rigidity and ToF; two multi sampling ionization chambers for ΔE ; fragments were implanted on an active stopper consisting of three DSSD's each with 16 horizontal and vertical strips. An array of 15 HPGe cluster detectors with 15% total efficiency at 662 keV surrounded the active stopper; measured E_γ , $\gamma\gamma$ coin and γ (t).

 ^{204}Au Levels

<u>E(level)[†]</u>	<u>J^π[†]</u>	<u>$T_{1/2}$[†]</u>
0.0	(2 ⁻)	39.8 s 9

[†] From Adopted Levels.

 $\gamma(^{204}\text{Au})$

<u>E_γ[†]</u>	<u>E_i(level)</u>	Comments
^x 165		E_γ : In coincidence with 305 γ . $T_{1/2}(165\gamma)=10.4$ s 18.
^x 305		E_γ : In coincidence with 165 γ . $T_{1/2}(305\gamma)=10.1$ s 22.

[†] From 2009Mo17.

^x γ ray not placed in level scheme.