^{204}Hg(^{18}O,^{16}Oγ) 1976He14

History			
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 201,346 (2025)	21-Jan-2025

1976He14: E(^{18}O)=75 and 81 MeV; Target: isotopically enriched in ^{204}Hg (96%); Detectors: two Ge(Li) at 0 and 90 deg relative to the beam direction and an annular surface barrier detector; Measured: $\gamma\gamma$ and γ-particle coincidences, Eγ.

^{206}Hg Levels

E(level)†	J$^\pi$‡	T$_{1/2}$	Comments
0.0	0$^+$	8.32 min *13*	T$_{1/2}$: From Adopted Levels.
1068.0 *10*	(2$^+$)	1.27 ps *17*	T$_{1/2}$: From Adopted Levels.
2102.0 *15*	(4$^+$)	≤7 ns	J$^\pi$,T$_{1/2}$: Proposed in 1976He14, in disagreement with the adopted values.

† From a least-squares fit to Eγ.
‡ From 1976He14.

γ(^{206}Hg)

E$_\gamma$†	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Comments
1034 *1*	2102.0	(4$^+$)	1068.0	(2$^+$)	E$_\gamma$: Observed in coincidence with 1068γ (1976He14).
1068 *1*	1068.0	(2$^+$)	0.0	0$^+$	

† From 1976He14.

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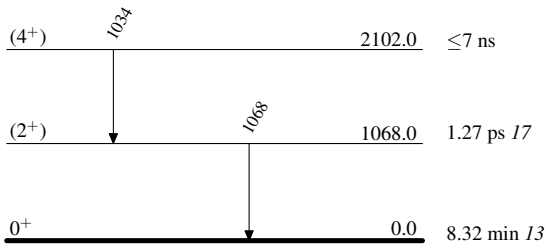
Level Scheme



$^{206}_{80}Hg_{126}$