

$^{204}\text{Hg}(\text{d},\text{p}\gamma)$ **1986Ze03**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 166, 1 (2020)	20-Apr-2020

1986Ze03: Enriched target, E=14, 18 MeV; Detectors: Ge(Li), iron-free orange-spectrometer, plastic scintillators, photomultiplier;
Measured: E_γ , I_γ , $\gamma\gamma$ coin, ce- γ coin, γ -p coin and ce-p coin, $\gamma(t)$; Deduced: levels, J^π , $T_{1/2}$, transition multipolarities.

 ^{205}Hg Levels

E(level) [†]	J^π [‡]	$T_{1/2}$	Comments
0.0	$1/2^-$	5.14 min 9	$T_{1/2}$: From Adopted Levels.
379.65 18	$5/2^-$		
467.36 18	$3/2^-$		
1346.31 20	$7/2^-$		
1395.13 24	$9/2^-$		
1556.7 3	$13/2^+$	1.04 ms 10	$T_{1/2}$: From $\gamma(t)$ using gates on 379.5γ and 1015.4γ (1986Ze03).
1847.63 25	$9/2^+$		
2011.8 3			

[†] From a least-squares fit to E_γ .

[‡] From [1986Ze03](#).

 $\gamma(^{205}\text{Hg})$

E_γ [†]	I_γ [†]	E_i (level)	J_i^π	E_f	J_f^π	Mult.	Comments
161.4 5		1556.7	$13/2^+$	1395.13	$9/2^-$	M2	E_γ : From adopted gammas. 161.5 γ from ce data in 1986Ze03 .
164.1 2	≈ 3	2011.8		1847.63	$9/2^+$		
290.8 2	3.8 8	1847.63	$9/2^+$	1556.7	$13/2^+$		
379.5 2	100 20	379.65	$5/2^-$	0.0	$1/2^-$		
455.1 2	1.5 3	2011.8		1556.7	$13/2^+$		
467.5 2	47 9	467.36	$3/2^-$	0.0	$1/2^-$		
501.4 2	30 6	1847.63	$9/2^+$	1346.31	$7/2^-$		
^x 567.4 2	5.2 10						E_γ : In coincidence with 379.5 γ , 501.4 γ and 966.6 γ .
^x 621.1 2	1.9 4						E_γ : In coincidence with 379.5 γ , 467.5 γ and 1043.5 γ .
^x 735.8 2	2.6 5						E_γ : In coincidence with 467.5 γ .
^x 813.2 2	4.0 8						E_γ : In coincidence with 467.5 γ .
879.1 2	2.5 5	1346.31	$7/2^-$	467.36	$3/2^-$		
^x 946.2 2	4.6 9						E_γ : In coincidence with 379.5 γ .
966.6 2	39 8	1346.31	$7/2^-$	379.65	$5/2^-$		
1015.4 2		1395.13	$9/2^-$	379.65	$5/2^-$		
^x 1043.5 2	2.0 4						E_γ : In coincidence with 467.5 γ and (621.1 γ).
^x 1066.0 2	2.5 5						E_γ : In coincidence with 379.5 γ .

[†] From [1986Ze03](#), unless otherwise stated. The I_γ values are from the p- γ coincidence measurement at $E_d=14$ MeV.

^x γ ray not placed in level scheme.

