^{202}Hg(d,pγ) 1986Ze03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 177, 509, 2021	4-Jul-2021

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

^{203}Hg Levels

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$	Comments
0	5/2$^-$		
7.5 *3*	(1/2$^-$)		
50.49 *20*	(3/2$^-$)		
225.2? *4*	(3/2$^-$)		
368.95? *18*			
548.74 *16*	(5/2$^-$)		
591.52 *18*	9/2$^-$		
755.50? *22*			
933.13 *23*	13/2$^+$	27 μs *5*	$T_{1/2}$: From 341.5γ(t) and 591.4γ(t) in 1986Ze03.
1117.96 *21*			
1488.25? *24*			

[†] From a least-squares fit to Eγ.
[‡] From 1986Ze03.

γ(^{203}Hg)

E$_\gamma$[†]	I$_\gamma$[†]	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.[†]
206.8 *2*	10 *2*	755.50?		548.74	(5/2$^-$)	
217.7 *2*	65 *13*	225.2?	(3/2$^-$)	7.5	(1/2$^-$)	(M1)
[x]302.2 *2*	11 *2*					
318.4 *2*	76 *15*	368.95?		50.49	(3/2$^-$)	(M1)
341.5 *2*		933.13	13/2$^+$	591.52	9/2$^-$	
[x]351.6 *2*	21 *4*					
362.5 *2*	17 *3*	1117.96		755.50?		
369.0 *2*	≈60	368.95?		0	5/2$^-$	
370.4 *2*	≈80	1488.25?		1117.96		
[x]403.6 *2*	6 *2*					
[x]484.7 *2*	<23					
498.3 *2*	31 *6*	548.74	(5/2$^-$)	50.49	(3/2$^-$)	
541.2 *2*	48 *10*	548.74	(5/2$^-$)	7.5	(1/2$^-$)	(E2)
548.8 *2*	100 *20*	548.74	(5/2$^-$)	0	5/2$^-$	(M1)
555.0 *2*		1488.25?		933.13	13/2$^+$	
569.3 *2*	75 *15*	1117.96		548.74	(5/2$^-$)	(E1,E2)
591.4 *2*	55 *11*	591.52	9/2$^-$	0	5/2$^-$	
[x]656.4 *2*	13 *3*					
[x]666.2 *2*	20 *4*					
[x]699.8 *2*	15 *3*					
[x]703.2 *2*	25 *5*					
[x]721.5 *2*	16 *3*					

[†] From 1986Ze03.
[x] γ ray not placed in level scheme.

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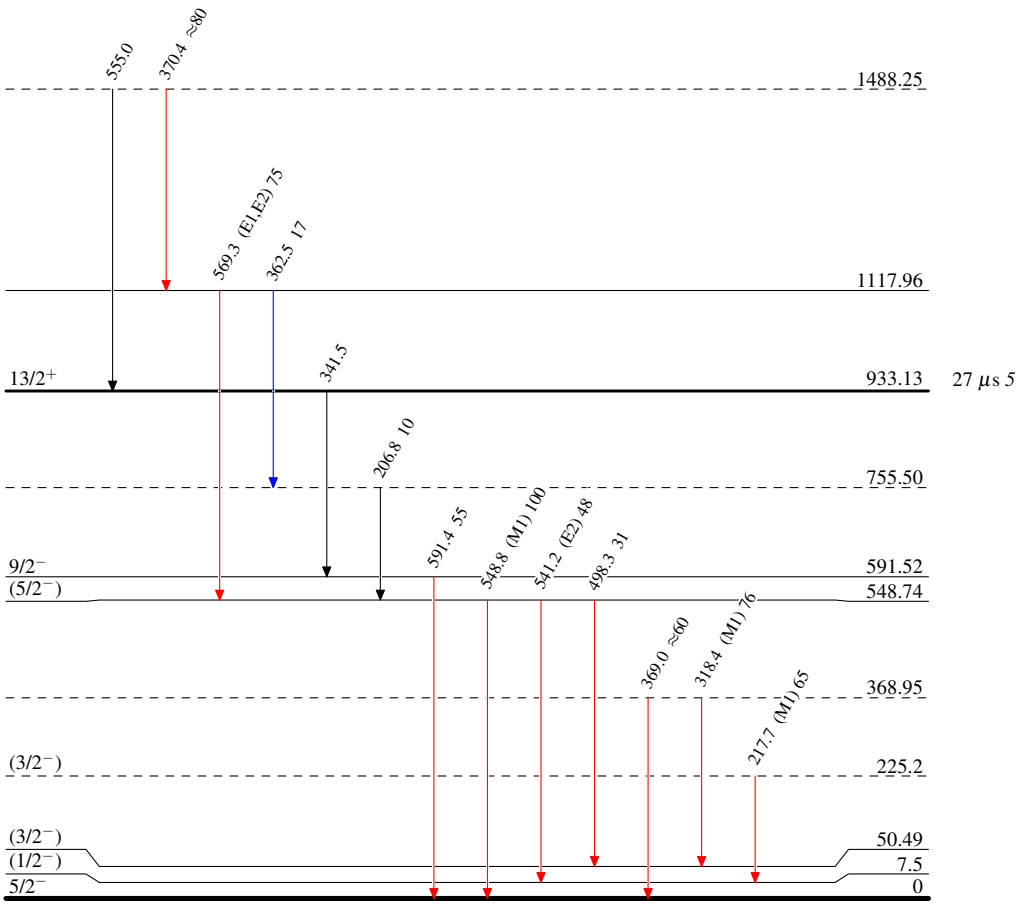
Level Scheme

Intensities: Type not specified



$^{203}_{80}Hg_{123}$