^{198}Pt(d,pnγ) 1984Sc19

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao	NDS 133, 221 (2016)	1-Dec-2015

E=25 MeV; measured pγ- and $\gamma\gamma$-coin., Eγ, Iγ, and ce.

^{198}Pt Levels

E(level)†	J$^\pi$‡	E(level)†	J$^\pi$‡	T$_{1/2}$#	E(level)†
0	0$^+$	1286.31 *22*	(4$^+$)		1849.18? *23*
407.22 *5*	2$^+$	1366.99 *10*	5$^-$		1944.1? *3*
774.71 *8*	2$^+$	1501.88 *14*	(7$^-$)	3.4 ns *2*	1979.38? *25*
985.04 *8*	4$^+$	1680.07 *20*	3$^-$		1995.78? *25*
1247.98 *10*	(3$^+$)	1714.14 *22*	(6$^+$)		
1279.11 *25*		1741.09 *14*			

† From level scheme and Eγ's by using least-squares fit to the γ-ray energies.
‡ From Adopted Levels.
# From ce(t) measurements.

γ(^{198}Pt)

E$_\gamma$‡	I$_\gamma$#	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Comments
134.9 *1*	≈3	1501.88	(7$^-$)	1366.99	5$^-$	
x148.2 *2*	≈0.7					
300.9@ *2*	1.5	1286.31	(4$^+$)	985.04	4$^+$	
314.0 *4*	0.8	1680.07	3$^-$	1366.99	5$^-$	E$_\gamma$: Shown as 313.5 in authors' level scheme.
367.48† *6*	29	774.71	2$^+$	407.22	2$^+$	
374.1 *1*	4.4	1741.09		1366.99	5$^-$	
381.96† *6*	37	1366.99	5$^-$	985.04	4$^+$	
407.21† *5*	100	407.22	2$^+$	0	0$^+$	
473.27† *7*	7.5	1247.98	(3$^+$)	774.71	2$^+$	
477.5 *2*	2.0	1979.38?		1501.88	(7$^-$)	
493.9 *2*	2.0	1995.78?		1501.88	(7$^-$)	
504.4 *3*	≈1	1279.11		774.71	2$^+$	
511.6 *2*	14	1286.31	(4$^+$)	774.71	2$^+$	
x556.2 *5*	≈1.5					
577.82† *6*	52	985.04	4$^+$	407.22	2$^+$	
601.2 *2*	1.9	1849.18?		1247.98	(3$^+$)	
x615.2 *2*	2.8					
657.8 *2*	2.9	1944.1?		1286.31	(4$^+$)	
694.8 *2*	3.9	1680.07	3$^-$	985.04	4$^+$	
729.1 *2*	2.7	1714.14	(6$^+$)	985.04	4$^+$	
774.9 *3*	1.6	774.71	2$^+$	0	0$^+$	
871.9 *4*	1.7	1279.11		407.22	2$^+$	

† From 1983Ya04 in (n,n'γ).
‡ From 1984Sc19, except as noted.
# Relative γ-ray intensity normalized to Iγ(407.21γ)=100.
@ Placement of transition in the level scheme is uncertain.
x γ ray not placed in level scheme.

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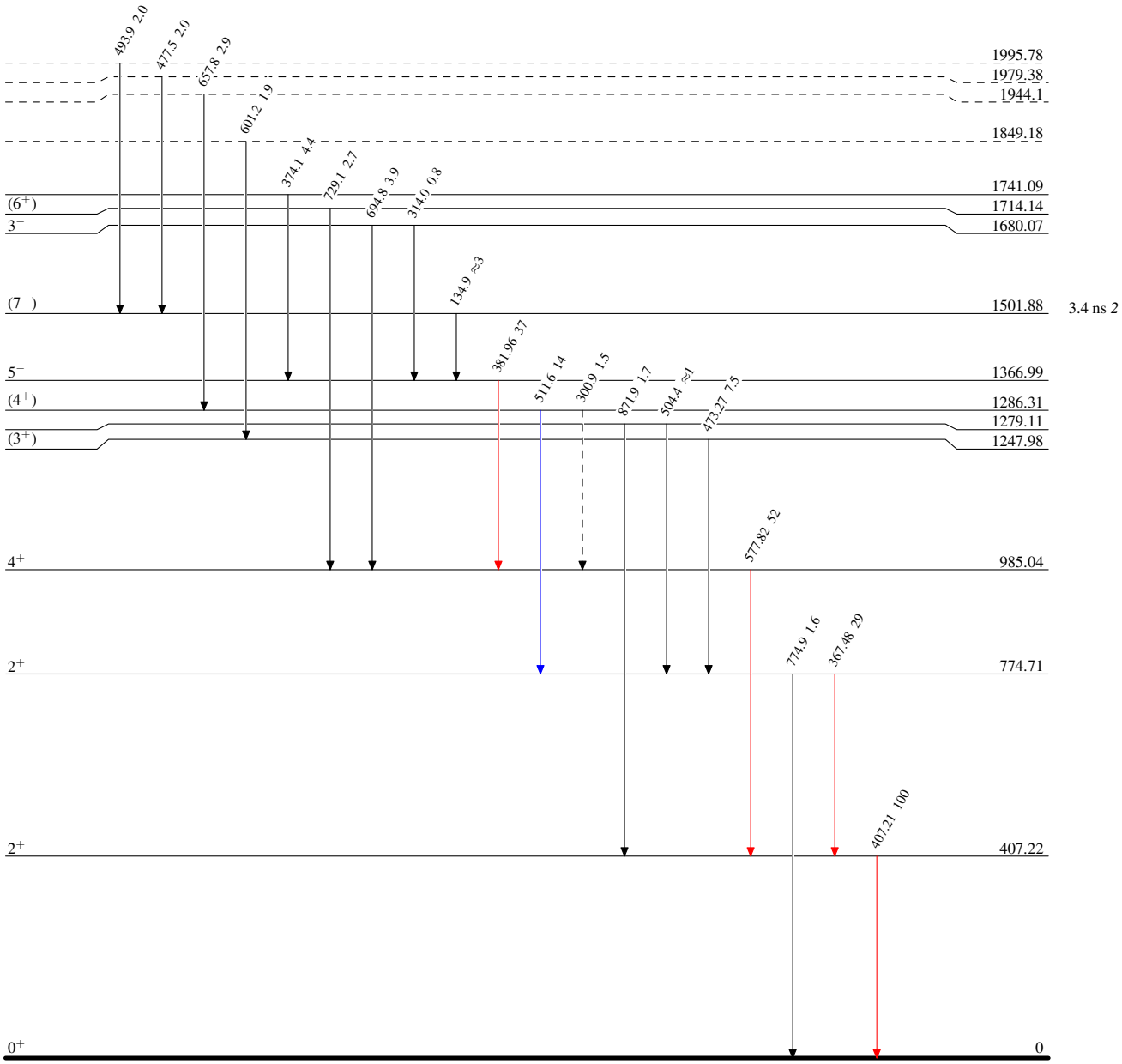
Level Scheme

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)



$^{198}_{78}Pt_{120}$