

**<sup>194</sup>Pt(n,γ) E=thermal 1987Ca03,1982Wa20**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao		NDS 121, 395 (2014)	1-Mar-2014

Others: 1967Gr24, 1968Sa13, 1970Or05.

1987Ca03: <sup>194</sup>Pt(n,γ) E=thermal; measured E(ce), Ice; U(6/12) supersymmetry analyses.

1982Wa20: <sup>194</sup>Pt(n,γ) E=thermal, 2 keV, 24 keV; measured E<sub>γ</sub> and I<sub>γ</sub> with curved spectrometers and Ge(Li); comparison with multi-J supersymmetry in interacting boson-fermion approximation.

Measured neutron binding energy 6105.3 5 (1982Wa20) is in good agreement with 6105.04 12 recommended in 2003Au03.

<sup>195</sup>Pt Levels

Spin and parity assignments from the av resonance capture data (1982Wa20):

I(2 keV)/I(24 keV)	J <sup>π</sup>	Comments
ratio of reduced primary γ-ray intensities		
≥ 0.5	1/2 <sup>-</sup> , 3/2 <sup>-</sup>	
0.3 - 0.5	1/2 <sup>±</sup> , 3/2 <sup>±</sup>	
< 0.3	1/2 <sup>+</sup> , 3/2 <sup>+</sup>	
0	5/2 <sup>+</sup> , (5/2 <sup>-</sup> , 1/2 <sup>+</sup> , 3/2 <sup>+</sup> )	for I(24 keV) > 30
0	5/2 <sup>±</sup>	for I(24 keV) < 30

E(level) <sup>†</sup>	J <sup>π</sup> <sup>‡</sup>	T <sub>1/2</sub> <sup>@</sup>	I(2 keV)/I(24 keV) <sup>b</sup>	Comments
0.0 <sup>&amp;</sup>	1/2 <sup>-</sup>	stable	1.00	
98.8839 <sup>&amp; 16</sup>	3/2 <sup>-</sup>		1.11	
129.782 4	5/2 <sup>-</sup>			
199.5337 <sup>&amp; 17</sup>	3/2 <sup>-</sup>		1.61	
211.4064 <sup>&amp; 19</sup>	3/2 <sup>-</sup>		1.18	
222.230 <sup>&amp; 4</sup>	1/2 <sup>-</sup> , 3/2 <sup>-#</sup>		0.62	
239.268 4	5/2 <sup>-</sup>			
259.075 23	13/2 <sup>+</sup>			
389.137 3	5/2 <sup>-</sup>			
419.704 <sup>&amp; 3</sup>	3/2 <sup>-</sup>		2.72	
431.981 23	9/2 <sup>+</sup>			
455.276 <sup>a 7</sup>	5/2 <sup>-</sup>		0	
507.920 8	5/2 <sup>-</sup> , 7/2 <sup>-</sup>			
524.851 <sup>&amp; 3</sup>	3/2 <sup>-</sup>		0.92	
590.902 <sup>&amp; 4</sup>	1/2 <sup>-</sup> , 3/2 <sup>-#</sup>		1.06	
630.146 <sup>&amp; 7</sup>	1/2 <sup>-</sup> , 3/2 <sup>-#</sup>		1.12	
664.207 6	5/2 <sup>-</sup> , 7/2 <sup>-</sup>			
739.548 <sup>&amp; 5</sup>	1/2 <sup>-</sup> , 3/2 <sup>-#</sup>		1.79	
821.785 <sup>a 23</sup>	5/2 <sup>+</sup>		0	J <sup>π</sup> : J <sup>π</sup> =5/2 <sup>+</sup> , (5/2 <sup>-</sup> , 1/2 <sup>+</sup> , 3/2 <sup>+</sup> ) from av resonance capture measurements.
926.89 <sup>&amp; 6</sup>	1/2 <sup>-</sup> , 3/2 <sup>-#</sup>		1.70	
1095.8 4	1/2 <sup>-</sup> , 3/2 <sup>-#</sup>		0.70	
1122.596 <sup>a 23</sup>			0	J <sup>π</sup> : J <sup>π</sup> =5/2 <sup>+</sup> , (5/2 <sup>-</sup> , 1/2 <sup>+</sup> , 3/2 <sup>+</sup> ) from av resonance capture measurements.

Continued on next page (footnotes at end of table)

$^{194}\text{Pt}(n,\gamma)$  E=thermal 1987Ca03,1982Wa20 (continued) $^{195}\text{Pt}$  Levels (continued)

E(level) <sup>†</sup>	J <sup>π‡</sup>	I(2 keV)/I(24 keV) <sup>b</sup>	Comments
1132.402& 20	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	2.38	
1160.390& 25	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	0.61	
1166.4 6	1/2 <sup>+</sup> ,3/2 <sup>+</sup> #	0.28	
1271.0 3	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	0.68	
1287.7 4	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	0.63	
1312.7 7	1/2 <sup>+</sup> ,3/2 <sup>+</sup> #	0.18	
1320.8 7	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	0.68	
1334.7 4	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	0.74	
1346.9 6	1/2,3/2#	0.32	
1372.7 4	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	0.61	
1411.1 5	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	0.68	
1425.0 5	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	0.68	
1438.3 4	1/2,3/2#	0.33	
1445.3 5	1/2 <sup>-</sup> ,3/2 <sup>-</sup> #	0.54	
(6109.1 9)	1/2 <sup>+</sup>		

E(level): thermal neutron binding energy deduced from thermal, 2- and 24-keV neutron capture measurements (1982Wa20), but no primary  $\gamma$ -rays from thermal neutron capture are given by 1982Wa20.  
J<sup>π</sup>: from s-wave thermal neutron capture.

<sup>†</sup> From authors' values: E(level) values for the 129- and 1095-levels and the levels above 1160 are from 2- and 24-keV average resonance neutron capture measurements.

<sup>‡</sup> From Adopted Levels, except as noted.

# From average resonance neutron capture measurements: ratio of reduced primary intensities observed in 2 and 24 keV.

@ From Adopted Levels.

& Populated also in the average resonance capture (E=2, 24 keV).

<sup>a</sup> From 24-keV average resonance neutron capture only.

<sup>b</sup> Ratio of reduced primary  $\gamma$  intensities observed in 2- and 24-keV average resonance neutron capture. The intensity of  $\gamma$  ray was divided by the fifth power of the  $\gamma$  energy.

<sup>194</sup>Pt(n,γ) E=thermal 1987Ca03,1982Wa20 (continued)

$\gamma(^{195}\text{Pt})$									
$E_\gamma^\dagger$	$I_\gamma^\ddagger$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. &	$\delta^\&$	$\alpha^a$	Comments
98.886 2	599 60	98.8839	3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	M1(+E2)	<0.17	6.86	$\alpha(\text{L1})_{\text{exp}}=1.16$ 11; $\alpha(\text{L2})_{\text{exp}}=0.15$ 15 (1987Ca03) $\alpha(\text{K})=5.59$ 11; $\alpha(\text{L})=0.98$ 4; $\alpha(\text{M})=0.227$ 10; $\alpha(\text{N+..})=0.067$ 3
100.652 3	131 13	199.5337	3/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>	M1(+E2)	<0.17	6.52	$\alpha(\text{L1})_{\text{exp}}=1.09$ 14; $\alpha(\text{M1})_{\text{exp}}=0.25$ 23 (1987Ca03) $\alpha(\text{K})=5.31$ 10; $\alpha(\text{L})=0.93$ 4; $\alpha(\text{M})=0.215$ 9; $\alpha(\text{N+..})=0.0634$ 25
123.337 10	130 13	222.230	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>	M1(+E2)	<0.32	3.59 9	$\alpha(\text{L1})_{\text{exp}}=0.42$ 16 (1987Ca03) $\alpha(\text{K})=2.89$ 13; $\alpha(\text{L})=0.53$ 4; $\alpha(\text{M})=0.124$ 10; $\alpha(\text{N+..})=0.036$ 3
140.385 9	115 16	239.268	5/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>	M1(+E2)	<0.62	2.36 18	$\alpha(\text{L1})_{\text{exp}}=0.32$ 28; $\alpha(\text{L2})_{\text{exp}}=0.30$ 24 (1987Ca03) $\alpha(\text{K})=1.85$ 24; $\alpha(\text{L})=0.39$ 5; $\alpha(\text{M})=0.092$ 13; $\alpha(\text{N+..})=0.027$ 4
172.906 3	505 51	431.981	9/2 <sup>+</sup>	259.075	13/2 <sup>+</sup>	E2		0.596	$\alpha(\text{K})_{\text{exp}}=0.22$ 16; $\alpha(\text{L1})_{\text{exp}}=0.054$ 21; $\alpha(\text{L2})_{\text{exp}}=0.19$ 12 (1987Ca03) $\alpha(\text{K})=0.244$ 4; $\alpha(\text{L})=0.265$ 4; $\alpha(\text{M})=0.0680$ 10; $\alpha(\text{N+..})=0.0193$ 3 Mult.: M=E2(+M1) with $\delta>2.0$ (1987Ca03). But $\gamma$ to 13/2 <sup>+</sup> rules out (M1) component (evaluator). $\delta$ : $\delta>2.24$ (1987Ca03).
197.479 14	50 9	419.704	3/2 <sup>-</sup>	222.230	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	M1(+E2)	<1.9	0.74 24	$\alpha(\text{K})_{\text{exp}}=0.60$ 51 (1987Ca03) $\alpha(\text{K})=0.55$ 25; $\alpha(\text{L})=0.139$ 8; $\alpha(\text{M})=0.033$ 4; $\alpha(\text{N+..})=0.0097$ 8
199.533 2	265 26	199.5337	3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	M1(+E2)	<0.40	0.90 5	$\alpha(\text{K})_{\text{exp}}=0.82$ 11; $\alpha(\text{L1})_{\text{exp}}=0.13$ 17 (1987Ca03) $\alpha(\text{K})=0.73$ 5; $\alpha(\text{L})=0.1285$ 22; $\alpha(\text{M})=0.0299$ 7; $\alpha(\text{N+..})=0.00880$ 18
211.407 2	1000	211.4064	3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	M1+E2	0.38 3	0.737 14	$\alpha(\text{K})_{\text{exp}}=0.614$ 5 (1987Ca03) $\alpha(\text{K})=0.595$ 13; $\alpha(\text{L})=0.1089$ 16; $\alpha(\text{M})=0.0255$ 4; $\alpha(\text{N+..})=0.00749$ 11 $\delta$ : from $\beta^-$ decay. Other: M1+(12%E2) (1987Ca03).
216.012 9	52 6	455.276	5/2 <sup>-</sup>	239.268	5/2 <sup>-</sup>	M1(+E2)	<0.6	0.69 7	$\alpha(\text{K})_{\text{exp}}=0.61$ 25 (1987Ca03) $\alpha(\text{K})=0.56$ 7; $\alpha(\text{L})=0.1022$ 15; $\alpha(\text{M})=0.0239$ 5; $\alpha(\text{N+..})=0.00702$ 12
222.230 5	64 8	222.230	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	M1(+E2)	<0.54	0.65 5	$\alpha(\text{K})_{\text{exp}}=0.57$ 20 (1987Ca03) $\alpha(\text{K})=0.52$ 5; $\alpha(\text{L})=0.0940$ 14; $\alpha(\text{M})=0.0220$ 4; $\alpha(\text{N+..})=0.00645$ 10
239.261 5	215 22	239.268	5/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	E2		0.198	$\alpha(\text{K})_{\text{exp}}=0.13$ 22 (1987Ca03) $\alpha(\text{K})=0.1080$ 16; $\alpha(\text{L})=0.0682$ 10; $\alpha(\text{M})=0.01729$ 25; $\alpha(\text{N+..})=0.00492$ 7 $\delta$ : E2 <sup>(+)</sup> (6 +10-6)%M1. Mult.: E2(+M1) with $\delta>2.3$ , but $\Delta J=2$ rules out M1 (evaluator).
243.855 14	45 5	455.276	5/2 <sup>-</sup>	211.4064	3/2 <sup>-</sup>	M1(+E2)	0.37 +54-37	0.50 12	$\alpha(\text{K})_{\text{exp}}=0.40$ 25 (1987Ca03) $\alpha(\text{K})=0.40$ 12; $\alpha(\text{L})=0.072$ 4; $\alpha(\text{M})=0.0167$ 4;

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<sup>194</sup>Pt(n,γ) E=thermal 1987Ca03,1982Wa20 (continued)

γ(<sup>195</sup>Pt) (continued)

<u>E<sub>γ</sub><sup>†</sup></u>	<u>I<sub>γ</sub><sup>‡</sup></u>	<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Mult.&amp;</u>	<u>δ&amp;</u>	<u>α<sup>a</sup></u>	<u>Comments</u>
									α(N+..)=0.00491 16 δ: M1(+ (14 +29-14)%E2).
255.741 30	39 5	455.276	5/2 <sup>-</sup>	199.5337	3/2 <sup>-</sup>				
259.351 6	105 12	389.137	5/2 <sup>-</sup>	129.782	5/2 <sup>-</sup>	M1(+E2)	<0.5	0.42 3	α(K)exp=0.41 23 (1987Ca03) α(K)=0.35 3; α(L)=0.0602 15; α(M)=0.0140 3; α(N+..)=0.00412 9
285.578 4	60 7	524.851	3/2 <sup>-</sup>	239.268	5/2 <sup>-</sup>	(M1+E2)	<0.72	0.31 4	α(K)=0.25 4; α(L)=0.0448 23; α(M)=0.0105 5; α(N+..)=0.00308 14 α(K)exp=0.30 32 (1987Ca03) Mult.: α(K)exp also allows mult=E1; but decay scheme requires Δπ=no.
<sup>x</sup> 287.822 15	37 4								
290.254 3	290 29	389.137	5/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>	M1(+E2)	<0.54	0.31 3	α(K)exp=0.27 14 (1987Ca03) α(K)=0.252 24; α(L)=0.0435 16; α(M)=0.0101 3; α(N+..)=0.00298 10
<sup>x</sup> 299.114 12	37 4								
300.811 2	232 23	1122.596		821.785	5/2 <sup>+</sup>	E2(+M1)	2.1 +17-4	0.136 25	α(K)exp=0.11 19 (1987Ca03) α(K)=0.096 23; α(L)=0.0304 16; α(M)=0.0075 3; α(N+..)=0.00215 10
313.449 6	33 4	524.851	3/2 <sup>-</sup>	211.4064	3/2 <sup>-</sup>				
<sup>x</sup> 319.313 4	82 <sup>#</sup> 9					M1(+E2)	<0.57	0.236 22	α(K)exp=0.22 25 (1987Ca03) α(K)=0.193 20; α(L)=0.0332 16; α(M)=0.0077 4; α(N+..)=0.00227 10
319.843 4	73 <sup>#</sup> 9	739.548	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	419.704	3/2 <sup>-</sup>	E2(+M1)	≥1.23	0.12 4	α(K)exp=0.11 51 (1987Ca03) α(K)=0.08 4; α(L)=0.0247 25; α(M)=0.0060 5; α(N+..)=0.00174 16
320.819 3	79 <sup>#</sup> 9	419.704	3/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>	M1(+E2)	<0.58	0.233 23	α(K)exp=0.22 26 (1987Ca03) α(K)=0.190 21; α(L)=0.0327 16; α(M)=0.0076 4; α(N+..)=0.00224 10
<sup>x</sup> 325.404 8	90 12								
<sup>x</sup> 328.471 10	28 4								
356.395 14	66 <sup>@</sup> 12	455.276	5/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>				
368.671 3	146 15	590.902	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	222.230	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	M1(+E2)	<0.14	0.174 3	α(K)=0.1435 23; α(L)=0.0234 4; α(M)=0.00539 8; α(N+..)=0.001591 24
<sup>x</sup> 373.459 9	27 3								
378.129 9	47 6	507.920	5/2 <sup>-</sup> ,7/2 <sup>-</sup>	129.782	5/2 <sup>-</sup>				
379.503 8	46 6	590.902	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	211.4064	3/2 <sup>-</sup>				
<sup>x</sup> 388.10 3	26 4								
389.803 4	309 31	821.785	5/2 <sup>+</sup>	431.981	9/2 <sup>+</sup>	E2		0.0469	α(K)exp=0.058 24 (1987Ca03) α(K)=0.0323 5; α(L)=0.01106 16; α(M)=0.00273 4; α(N+..)=0.000784 11 Mult.: M=E2(+M1) (1987Ca03). But γ to 9/2 <sup>+</sup> rules

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<sup>194</sup>Pt(n,γ) E=thermal 1987Ca03,1982Wa20 (continued)

γ(<sup>195</sup>Pt) (continued)

<u>E<sub>γ</sub><sup>†</sup></u>	<u>I<sub>γ</sub><sup>‡</sup></u>	<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>Mult.&amp;</u>	<u>δ&amp;</u>	<u>α<sup>a</sup></u>	<u>Comments</u>
391.377 10	26 <sup>#</sup> 4	590.902	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	199.5337	3/2 <sup>-</sup>	M1(+E2)	<0.14	0.1481 23	out (M1) component (evaluator). δ: δ=1.9 +11-4 (1987Ca03). α(K)exp=0.18 17 (1987Ca03) α(K)=0.1223 20; α(L)=0.0199 3; α(M)=0.00459 7; α(N+..)=0.001353 20
392.860 19	18 <sup>#</sup> 4	1132.402	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	739.548	1/2 <sup>-</sup> ,3/2 <sup>-</sup>				
395.071 3	134 15	524.851	3/2 <sup>-</sup>	129.782	5/2 <sup>-</sup>	M1(+E2)	0.49 +60-49	0.13 4	α(K)= 0.11 4; α(L)= 0.018 4; α(M)= 0.0042 7; α(N+..)=0.00132 23 α(K)exp=0.10 32 (1987Ca03)
407.910 12	60 <sup>#</sup> 7	630.146	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	222.230	1/2 <sup>-</sup> ,3/2 <sup>-</sup>				
409.049 11	54 <sup>#</sup> 6	507.920	5/2 <sup>-</sup> ,7/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>				
<sup>x</sup> 409.716 21	54 <sup>#</sup> 7								
<sup>x</sup> 414.327 6	120 12								
418.741 8	66 10	630.146	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	211.4064	3/2 <sup>-</sup>				
419.705 4	485 49	419.704	3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	M1(+E2)	<0.46	0.116 8	α(K)exp=0.11 18 (1987Ca03) α(K)=0.096 7; α(L)=0.0159 8; α(M)=0.00367 16; α(N+..)=0.00108 5
420.71 6	14 6	1160.390	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	739.548	1/2 <sup>-</sup> ,3/2 <sup>-</sup>				
424.944 18	18 5	664.207	5/2 <sup>-</sup> ,7/2 <sup>-</sup>	239.268	5/2 <sup>-</sup>				
425.978 7	72 8	524.851	3/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>				
<sup>x</sup> 430.620 10	63 7								
<sup>x</sup> 432.408 11	108 <sup>#</sup> 16								
432.647 22	48 <sup>#</sup> 13	821.785	5/2 <sup>+</sup>	389.137	5/2 <sup>-</sup>				
452.799 16	40 5	664.207	5/2 <sup>-</sup> ,7/2 <sup>-</sup>	211.4064	3/2 <sup>-</sup>				
464.674 7	60 7	664.207	5/2 <sup>-</sup> ,7/2 <sup>-</sup>	199.5337	3/2 <sup>-</sup>				
<sup>x</sup> 472.217 20	53 <sup>@</sup> 12								
524.846 4	186 19	524.851	3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>				
531.263 23	40 <sup>#</sup> 12	630.146	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>				
<sup>x</sup> 533.252 19	52 <sup>#</sup> 8								
534.418 15	46 <sup>#</sup> 9	664.207	5/2 <sup>-</sup> ,7/2 <sup>-</sup>	129.782	5/2 <sup>-</sup>				
<sup>x</sup> 544.126 15	40 5								
590.895 7	159 16	590.902	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	M1(+E2)	<0.32	0.0488 17	α(K)exp=0.05 21 (1987Ca03) α(K)=0.0404 15; α(L)=0.00651 20; α(M)=0.00150 5; α(N+..)=0.000442 13
<sup>x</sup> 594.26 4	46 <sup>@</sup> 10								
<sup>x</sup> 612.870 21	70 8								
<sup>x</sup> 617.71 14	21 4								
629.86 25	11 3	630.146	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>				
635.59 3	39 5	1160.390	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	524.851	3/2 <sup>-</sup>				
640.33 16	20 3	739.548	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>				
<sup>x</sup> 647.485 12	75 8								

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<sup>194</sup>Pt(n,γ) E=thermal 1987Ca03,1982Wa20 (continued)

γ(<sup>195</sup>Pt) (continued)

<u>E<sub>γ</sub><sup>†</sup></u>	<u>I<sub>γ</sub><sup>‡</sup></u>	<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>	<u>E<sub>γ</sub><sup>†</sup></u>	<u>I<sub>γ</sub><sup>‡</sup></u>	<u>E<sub>i</sub>(level)</u>	<u>J<sub>i</sub><sup>π</sup></u>	<u>E<sub>f</sub></u>	<u>J<sub>f</sub><sup>π</sup></u>
687.69 6	44 8	926.89	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	239.268	5/2 <sup>-</sup>	<sup>x</sup> 929.1 4	25 8				
<sup>x</sup> 688.96 24	30 8					<sup>x</sup> 930.7 5	22 7				
705.07 13	31 5	1160.390	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	455.276	5/2 <sup>-</sup>	948.70 15	38 6	1160.390	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	211.4064	3/2 <sup>-</sup>
715.11 14	26 4	926.89	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	211.4064	3/2 <sup>-</sup>	<sup>x</sup> 1005.60 8	101 11				
<sup>x</sup> 738.27 2	30 6					<sup>x</sup> 1024.91 19	28 5				
739.74 16	41 6	739.548	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	1030.60 22	27 6	1160.390	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	129.782	5/2 <sup>-</sup>
<sup>x</sup> 758.5 3	17 5					1033.13 22	29 6	1132.402	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>
<sup>x</sup> 776.71 5	29 4					<sup>x</sup> 1046.93 9	113 12				
<sup>x</sup> 864.2 4	19 7					<sup>x</sup> 1049.09 20	37 6				
892.57 26	19 5	1132.402	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	239.268	5/2 <sup>-</sup>	1061.45 10	86 10	1160.390	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	98.8839	3/2 <sup>-</sup>
<sup>x</sup> 913.9 4	27 11					<sup>x</sup> 1064.8 5	14 6				
<sup>x</sup> 915.3 4	37 10					<sup>x</sup> 1066.77 23	34 6				
<sup>x</sup> 917.1 3	27 7					<sup>x</sup> 1076.04 21	33 7				
926.85 23	25 7	926.89	1/2 <sup>-</sup> ,3/2 <sup>-</sup>	0.0	1/2 <sup>-</sup>	<sup>x</sup> 1091.27 8	126 14				

<sup>†</sup> From 1982Wa20. Secondary E<sub>γ</sub> observed with γ spectrometer and Ge(Li) at thermal neutron energies. Absolute calibration error is not included.

<sup>‡</sup> Relative photon intensity obtained from Ge(Li) and normalized to I<sub>γ</sub>(E<sub>γ</sub>=211 keV)=1000, except as noted. Values are from 1982Wa20.

<sup>#</sup> Total intensity of the multiplet was taken from the Ge(Li) data, while relative intensities of the individual components were obtained from the crystal measurements.

<sup>@</sup> The γ ray was obscured in the Ge(Li) measurements by a contaminant. The intensity was obtained from the ratio to neighboring lines in the crystal measurements.

<sup>&</sup> From α(exp) measurements (1987Ca03), except as noted. Normalized so that α(K)(211γ)=0.614 5 from δ(211γ)=0.37, taken by the authors from 1973Ca10.

<sup>a</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

<sup>x</sup> γ ray not placed in level scheme.

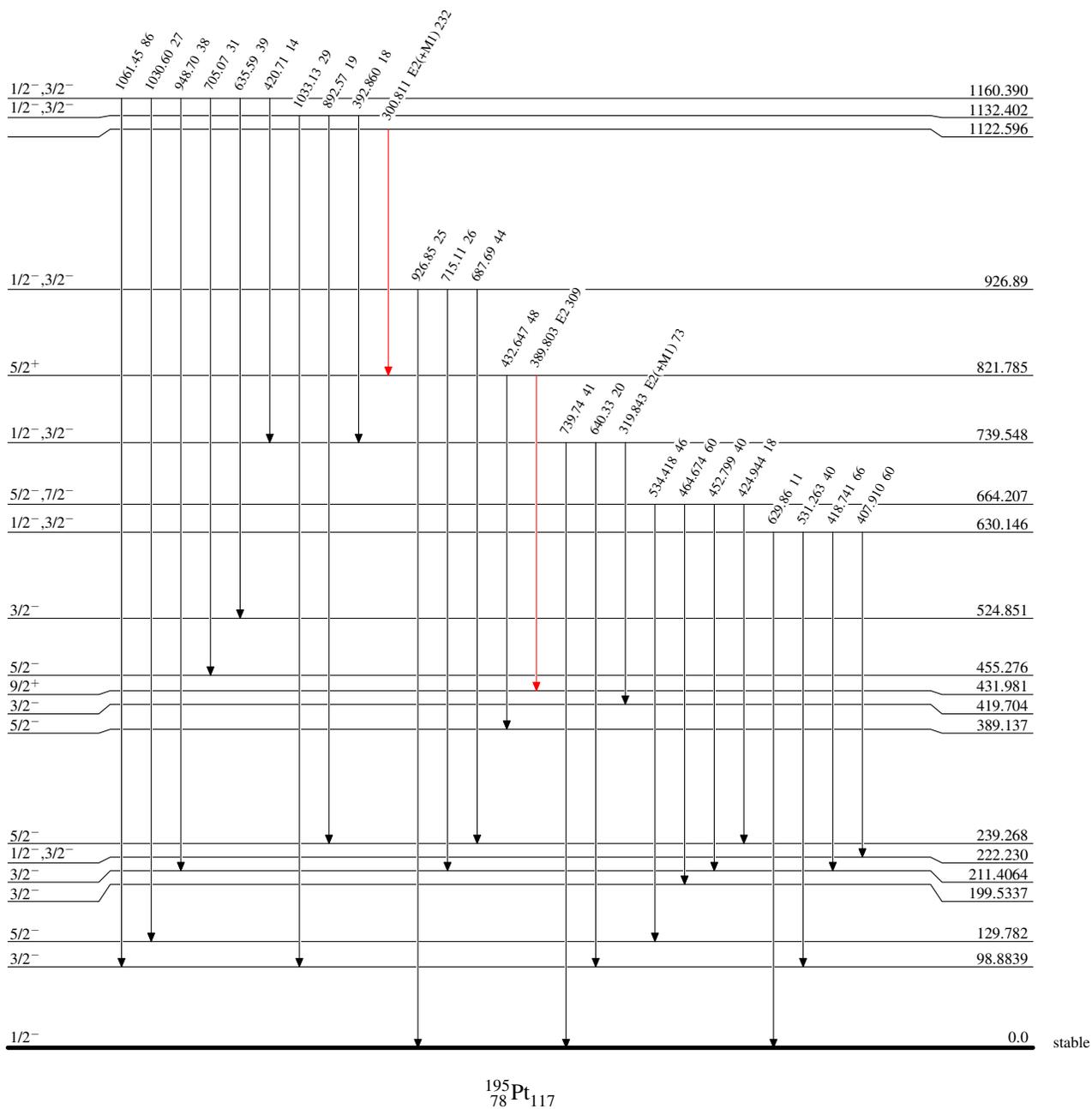
$^{194}\text{Pt}(n,\gamma)$  E=thermal 1987Ca03,1982Wa20

Level Scheme

Intensities: Relative  $I_\gamma$

Legend

- $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $I_\gamma > 10\% \times I_\gamma^{\text{max}}$



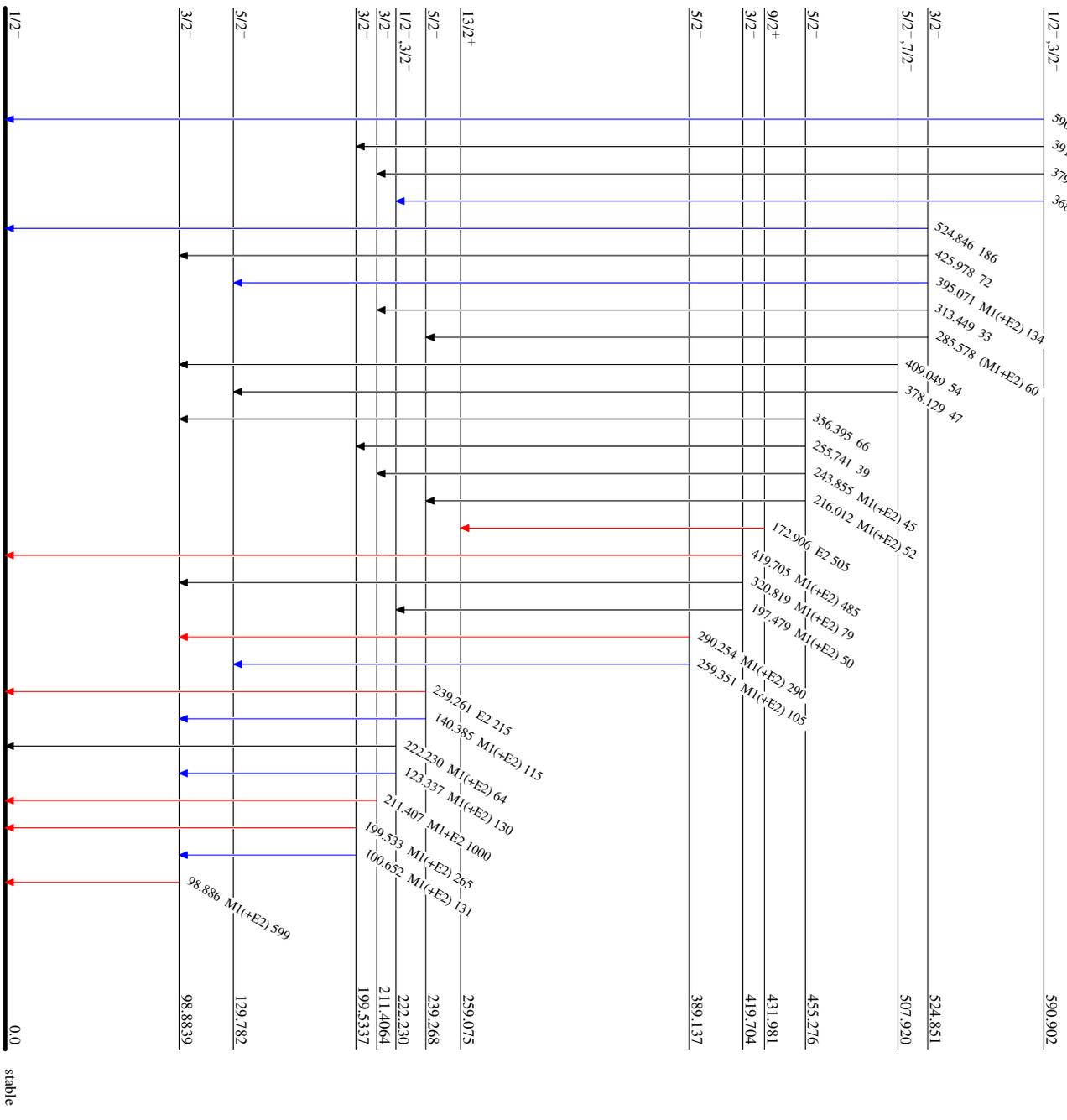
<sup>194</sup>Pt(n,γ) E=thermal 1987Ca03,1982Waz20

Level Scheme (continued)

Intensities: Relative I<sub>γ</sub>

Legend

- I<sub>γ</sub> < 2% × I<sub>γmax</sub>
- I<sub>γ</sub> < 10% × I<sub>γmax</sub>
- I<sub>γ</sub> > 10% × I<sub>γmax</sub>



<sup>195</sup>Pt  
<sub>78</sub>Pt<sub>117</sub>