		History	
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 1871 (2012)	15-Jun-2012

Others: 1964Sa13, 1965Sa11, 1966Sa02.

The level scheme and data are from 1974Ya03, except where noted. E(p)=14 MeV, powdered Ir metal targets enriched to 97% in ¹⁹³Ir; measured $E\gamma$, $I\gamma$, (Ge(Li), FWHM=2.4 keV at 1332 keV), $\gamma\gamma$ coin, $I\gamma(30^\circ)/I\gamma(90^\circ)$ intensity ratios (used to differentiate between Q and D transitions).

¹⁹²Pt Levels

E(level)	$J^{\pi \dagger}$	E(level)	J^{π}	E(level)	$J^{\pi \dagger}$	E(level)	J^{π}
0.0‡	0^{+}	1365.33 [‡] 11	6+	1518.16 15	(7-)	2018.13 [‡] 23	8+
316.50 [‡] 5	2^{+}	1377.93 10	3-	1576.61 20	(2^{+})	2102.97 20	(9 ⁻)
612.40 [#] 7	2+	1383.83 <i>13</i>	(5 ⁻)	1666.46 14		2113.08 23	
784.54 [‡] 8	4+	1406.23 13		1739.3 4	(1 ⁻)		
920.82 [#] 9	3+	1439.1 <i>3</i>	$(1^+, 2^+)$	1746.26 15			
1200.99 [#] 8	4+	1481.68 <i>12</i>		1964.48 <i>19</i>			

[†] Authors' values, based on transition multipolarities (from $I\gamma(30^\circ)/I\gamma(90^\circ)$) and level-energy systematics for ¹⁹⁰Pt, ¹⁹²Pt, and ¹⁹⁴Pt. See ¹⁹²Pt Adopted Levels for evaluator's assignments.

[‡] Band(A): K=0 g.s. band.

[#] Band(B): K=2 quasi- γ vibration band.

$\gamma(^{192}\text{Pt})$

E_{γ}	I_{γ}^{\dagger}	E _i (level)	\mathbf{J}_i^{π}	\mathbf{E}_{f}	\mathbf{J}_f^{π}	Comments
134.30 12	1.9.3	1518.16	(7^{-})	1383.83	(5^{-})	
152.9 2	0.5 1	1518.16	(7^{-})	1365.33	6+	
176.8 3	0.5 1	1377.93	3-	1200.99	4+	
182.8 2	0.6 1	1383.83	(5^{-})	1200.99	4^{+}	
^x 263.9 3	0.4 1		. ,			
288.54 10	1.8 2	1666.46		1377.93	3-	
295.89 8	32.7 18	612.40	2+	316.50	2+	
308.42 6	14.9 9	920.82	3+	612.40	2^{+}	
316.49 5	100	316.50	2+	0.0	0^{+}	K/L=1.9 2 (1966Sa02); uncertain because of angular distribution effects.
^x 341.2 5	0.3 1					
^x 357.7 2	0.8 1					
362.43 8	3.4 <i>3</i>	1746.26		1383.83	(5^{-})	
x382.8 4	0.4 1					
^x 388.4 3	0.7 1					
x407.23 10	1.5 2					
416.42 10	1.7 2	1200.99	4+	784.54	4+	
x427.0 6	0.1 <i>I</i>					
446.32 11	2.2 2	1964.48		1518.16	(7^{-})	
^x 452.0 7	0.5 2					
^x 460.5 5	0.2 1					
468.04 7	46.7 23	784.54	4+	316.50	2+	K/L=3.3 10 (1966Sa02); uncertain because of angular distribution effects.
485.40 9	4.2 4	1406.23		920.82	3+	
^x 516.2 7	1.0 4					
^x 522.4 2	0.4 1					

Continued on next page (footnotes at end of table)

¹⁹³Ir(p,2n γ) 1974Ya03 (continued)

$\gamma(^{192}\text{Pt})$ (continued)

Eγ	I_{γ}^{\dagger}	E _i (level)	\mathbf{J}_i^{π}	E_f	\mathbf{J}_{f}^{π}	Comments
560.85 8	4.6 4	1481.68		920.82	3+	
580.80 8	4.8 5	1365.33	6+	784.54	4+	
584.81 12	0.2 1	2102.97	(9 ⁻)	1518.16	(7^{-})	
588.59 8	6.1 6	1200.99	4+	612.40	2+	
593.39 12	3.6 4	1377.93	3-	784.54	4+	
599.27 15	23.2 25	1383.83	(5^{-})	784.54	4+	
604.34 20	4.5 7	920.82	3+	316.50	2^{+}	
612.42 10	5.7 5	612.40	2+	0.0	0^{+}	
631.4 2	0.7 1	2113.08		1481.68		Placed by evaluator; see ¹⁹⁰ Os(α ,2n γ), ¹⁹² Os(α ,4n γ) for analogous placement.
^x 650.2 5	0.3 1					
652.8 2	0.8 2	2018.13	8+	1365.33	6+	
^x 661.7 2	0.7 1					
^x 669.4 3	1.7 3					
^x 681.3 5	0.5 1					
^x 722.9 4	0.4 1					
745.5 <i>3</i>	1.3 2	1666.46		920.82	3+	
^x 758.0 5	0.4 1					
765.7 <i>3</i>	0.9 2	1377.93	3-	612.40	2^{+}	
^x 779.6 4	0.8 3					
^x 783.9 7	0.2 1					
^x 815.3 5	0.6 3					
^x 872.6 5	0.5 2					
884.5 <i>3</i>	0.4 1	1200.99	4+	316.50	2^{+}	
^x 897.0 5	0.3 1					
^x 909.8 4	0.3 1					
x925.2 4	0.2 1					
^x 9/3.6 5	0.1 1					
^x 1028.6 3	0.5 1					
^1052.6.0	0.3 1	1277.02	2-	216.50	2+	
1061.46 15	5.04	13/7.93	3	316.50	2.	
1122.6.2	1.0.2	1420 1	(1+2+)	216 50	2^+	
1122.0 5	$1.0 \ 3$	1439.1	(1,2) (1^{-})	612.40	$\frac{2}{2^{+}}$	
x1256.2.5	0.52 052	1759.5	(1)	012.40	2	
x1268.0.7	0.32 032					
x1282.1.6	0.52 021					
x1202.1 0	0.8.2					
x1385.2.6	0.5.3					
1422.7.5	0.9.2	1739.3	(1^{-})	316.50	2^{+}	
x1449.4 2	1.6 2	1.0710	(-)	010.00	-	
x1506.6 8	0.4 2					
1576.6 2	2.1 3	1576.61	(2^{+})	0.0	0^{+}	

[†] For E(p)=14 MeV; arbitrary units, relative to $I\gamma(316.5\gamma)=100$ (1974Ya03). ^{*x*} γ ray not placed in level scheme.







 $^{192}_{78}{\rm Pt}_{114}$



