	History		
Туре	Author	Citation	Literature Cutoff Date
Full Evaluation	J. C. Batchelder and A. M. Hurst, M. S. Basunia	NDS 183, 1 (2022)	1-Mar-2022

No change compared to previous evaluation (2003Ba44).

1990He19, 1987He29: E α =80 MeV; measured E γ , I γ , $\gamma\gamma$ coin, $\alpha\gamma$ (t), DCO ratios (θ =36° and 93°).

¹⁸⁶ Pt	Levels
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E(level) [†]	Jπ‡	T _{1/2} #	Comments
0.0	0+		
191.5 <mark>&</mark> 3	2^{+}		
471.5 ^a 11	0^{+}		
490.2 ^{&} 4	4+		
607.0 ^b 4	2+		
798.5 ^a 4	2+		
877.3 ^{&} 4	6+		
956.4 <mark>b</mark> 4	3+		
991.3 ^b 4	4+		
1222.2 ^{<i>a</i>} 4	4+		
1342.7 ^{&} 4	8+		
1362.6 <mark>b</mark> 4	5+		
1407.5 ^e 4	3-		
1470.0 ^b 4	6+		
1600.1 ^{<i>a</i>} 4	6+		
1632.3 ^{<i>f</i>} 4	4-		
1692.5 ^e 4	5-		
1801.1 ⁰ 4	(7^{+})		J^{π} : based on γ decay pattern; however, 6 ⁻ is not excluded.
1857.8 5	10^{+}		
1952.1° 4	/_		
1969.3 <i>J</i> 4	6-		
2004.1 ⁰ 4	8+		
2051.2 ^J 4	7-		
2108.3 ^{<i>k</i>} 5	10+		
2122.8 4	('/-)		
2194.8 5	8-@	8.0 ns <i>13</i>	
2253.7 ^J 4	8-		
2279.9 ⁰ 5	(9 ⁺)		J^{π} : based on γ decay pattern; however, J=8 is not excluded.
2316.7 ¹ 4	8-		
2336.0 5	12^{+}		
2355.85	9-		
$2374.7^{\circ} 4$	9		
$2430.5^{\circ} 4$	9 10 [±]		
2544.4° 5 2559.28 5	$10^{-10^{-10^{-10^{-10^{-10^{-10^{-10^{-$		
2559.25 5	10	<0.5 ns	
2011.5 J	12	<u>≥0.5 118</u>	
2052.1^{3} 4	10		
2090.1 3	10		

¹⁸⁸Os(α ,6n γ) 1990He19,1987He29 (continued)

E(level) [†]	Jπ‡	$T_{1/2}^{\#}$	E(level) [†]	$J^{\pi \ddagger}$	E(level) [†]	$J^{\pi \ddagger}$
2787.8 ^e 5	11-		3566.7 ^f 6	14-	4539.7 [°] 7	19(-)
2791.9 <mark>h</mark> 5	11-		3599.5 <mark>8</mark> 5	14^{-}	4660.9? ^k 7	(18 ⁺)
2824.9 ^{&} 5	14^{+}		3664.4 ^d 6	16+	4698.8 ^f 8	18-
2864.2 ^d 5	12^{+}	≤0.5 ns	3700.7 ⁱ 7	14^{-}	4788.1 <mark>&</mark> 7	20^{+}
2887.0 ^j 5	11^{-}		3873.6 ^e 6	15^{-}	4835.7 <mark>8</mark> 6	(18 ⁻)
3042.8 <mark>8</mark> 5	12^{-}		3892.8 ^h 5	15^{-}	4938.2 7	
3073.2 ^f 5	12-		3963.1 ^k 6	(16^{+})	4956.0 ^d 7	20^{+}
3171.4 ⁱ 6	12-		3983.7 [°] 6	$17^{(-)}$	5188.4 ^C 7	$21^{(-)}$
3191.9 ^c 5	13(-)		4051.1 <mark>&</mark> 7	18^{+}	5321.0 ^f 8	(20^{-})
3192.2 ^d 5	14+	$\leq 0.5 \text{ ns}$	4110.4 ^{<i>f</i>} 7	16-	5596.9 <mark>&</mark> 8	22^{+}
3269.4 ^k 5	14^{+}		4172.3 ⁱ 8	16-	5737.9 ^d 8	(22^{+})
3299.6 ^e 5	13-		4208.2 <mark>8</mark> 6	16-	5921.6 [°] 8	23(-)
3310.5 ^h 5	13-		4258.3 ^d 7	18^{+}	6463.6 ^{&} 8	24+
3394.6 <mark>&</mark> 6	16+		4393.0 7		6582.3 ^d 9	(24^{+})
3421.2 ^j 6	13-		4482.8 ^e 7	(17^{-})	6729.6 ^c 13	$25^{(-)}$
3530.6 [°] 6	$15^{(-)}$		4517.8 ^h 6	(17^{-})	7407.6? ^{&} 13	(26 ⁺)

¹⁸⁶Pt Levels (continued)

[†] From least-squares adjustment of $E\gamma$.

[±] From 1990He19, based on measured DCO ratios and deduced band structure. [#] From 1990He19; $T_{1/2}(2195 \text{ level})$ is from 243γ -1075 γ (t), $T_{1/2}$ limits are from centroid shift.

[@] By analogy to ¹⁸⁴Pt and ¹⁸²Os high-K isomers with probable prolate configuration= $(\nu 9/2[624])(\nu 7/2[514])$. However,

deexcitation of state differs, possibly due to availability in ¹⁸⁶Pt of decay path to 7^- (1952 keV) level with similar configuration. & Band(A): Prolate g.s. band.

^{*a*} Band(B): β band.

^{*b*} Band(C): γ band.

^c Band(D): $\pi = (-), \alpha = 1$ prolate band. π assignment tentative; supported by failure of band to interact with g.s. band which it intersects near $J^{\pi}=21^{(-)}$. Possible configuration= $((\pi,h_{9/2})(\pi,i_{13/2}))$.

^d Band(E): $\pi = +, \alpha = 0$ oblate band. Probable configuration=($\nu i_{13/2}$)($\nu i_{13/2}$). Decay to γ band from 12⁺ member suggests some similarity between these two bands.

^e Band(F): $\pi = -, \alpha = 1$ band. Signature partner of band including 4⁻ 1632 level. Possible configuration=(high j)(low j), one quasiparticle being $(\pi h_{11/2})$ or $(\nu i_{13/2})$, the other an N=4 shell quasiportian or an N=5 shell quasineutron (analogous to configuration for bands starting at $J^{\pi}=5^{-}$ in many even nuclei in the Pt-Hg transitional region).

^{*f*} Band(G): $\pi = -, \alpha = 0$ band. Signature partner of band including 3⁻ 1408 level.

^g Band(H): $\pi = -, \alpha = 0$ band. Possible configuration= $(\nu \ 11/2[615])(\nu \ 9/2[505])10^{-}$.

^h Band(I): $K^{\pi} = (10^{-}), \alpha = 1$ band. Possible configuration = $(\nu \ 11/2[615])(\nu \ 9/2[505])10^{-}$.

^{*i*} Band(J): $\pi = -, \alpha = 0$ band.

^{*j*} Band(K): $\pi = -, \alpha = 1$ band.

^k Band(L): $\pi = +, \alpha = 0$ band.

$\gamma(^{186}\text{Pt})$

E_{γ}^{\dagger}	I_{γ}^{\dagger}	E _i (level)	\mathbf{J}_i^{π}	$\mathbf{E}_f = \mathbf{J}_f^{\pi}$	Mult.‡	Comments
161.1 <i>3</i>	2.7 2	2355.8	9-	2194.8 8-	D(+Q)	DCO=2.08 14 for intraband γ excludes stretched Q and $\Delta I=0$
170.6.3	0.84 7	2122.8	(7^{-})	1952.1 7-	0	DCO=1.10 24.
191.6 3	76 4	191.5	2+	0.0 0+	ò	DCO=1.02 2 for intraband γ .
202.6 3	0.48 15	2632.7	10-	2430.3 9-		
203.5 3	3.5 3	2559.2	10-	2355.8 9-	D+O	DCO=2.45 15 implies $\Delta J=1$.
228.7 <i>3</i>	1.5 2	2787.8	11-	2559.2 10-	D+Q	DCO=2.35 23 implies $\Delta J=1$.
232.7 3	1.0 1	2791.9	11-	2559.2 10-	D+Q	DCO=2.3 3; connects levels in signature partner bands.
242.6 3	5.0 3	2194.8	8-	1952.1 7-	D+Q	DCO=1.23 6. δ≈0.3 or≈5 for ΔJ=1 (from fig. 1 of 1990He19).
250.5 3	2.1 2	2108.3	10+	1857.8 10+		DCO=0.79 8 excludes $\Delta J=2$; a little low for authors' $\Delta J=0$ placement.
251.0 3	0.53 13	3042.8	12-	2791.9 11-	D(+Q)	DCO=1.7 5; connects levels in signature partner bands.
252.2 <i>3</i>	0.64 12	2374.7	9-	2122.8 (7 ⁻)	Q	DCO=0.68 25; somewhat low for authors' $\Delta J=2$ placement.
253.1 <i>3</i>	0.59 9	2864.2	12^{+}	2611.5 12+		DCO=0.8 3.
255.1 <i>3</i>	0.85 7	3042.8	12-	2787.8 11-		DCO=1.8 4; not stretched Q.
257.9 3	1.2 2	2632.7	10^{-}	2374.7 9-	D+Q	DCO=3.3 6 implies $\Delta J=1$.
259.8 3	6.0 3	1952.1	7-	1692.5 5-	Q	DCO=1.00 6 for intraband γ .
268.0 3	0.82 13	3310.5	13-	3042.8 12	D+Q	DCO=3.1 / implies $\Delta J=1$.
275.63	1.0 1	2611.5	12+	2336.0 12+		DCO=0.84 <i>14</i> .
277.03	0.64 0	1969.3	0	1092.5 5	0	DCO-105 15 for introband of
284.4 3	0.938	2255.7	8 5-	1909.5 0	Q	$DCO=1.05$ 15 for intraband γ .
203.3 3	0.34 14	1092.3	J 14-	$1407.5 \ 5$ 2210 5 12^{-1}	D(+0)	DCO-26 10: connects levels in signature partner hands
209.2 3	0.80 I3 0.55 15	3399.3	14	3500 5 14-	D(+Q)	DCO=2.0 10, connects levels in signature partner bands.
293.4 3	100	100.2	15 1 ⁺	$1015 2^+$	DTQ O	$DCO=1.03.2$ for intraband α
301 7 3	455	2253.7	7 8-	191.3 2	õ	DCO=0.98 16: connects levels in signature partner bands
315 5 3	031	4208.2	16-	3892.8 15-	Q	Deb=0.90 10, connects levels in signature partier bands.
315.7.3	0.48.8	2632.7	10^{-10}	$2316.7 8^{-10}$		
319.9.3	0.42 8	2864.2	12^{+}	$2544.4 10^+$		DCO=1.1.3.
323.4 3	0.74 8	2374.7	9-	2051.2 7		DCO=1.08 22; consistent with authors' $\Delta J=2$ placement.
327 1		798.5	2^{+}	471.5 0+		
328.2 <i>3</i>	1.7 2	3192.2	14^{+}	2864.2 12+	Q	DCO=0.95 11 for intraband γ .
336.9 <i>3</i>	0.80 10	1969.3	6-	1632.3 4-	Q	DCO=0.92 15 for intraband γ .
338.6 <i>3</i>	1.2 2	3530.6	$15^{(-)}$	3191.9 13 ⁽⁻⁾	(Q)	DCO=0.89 11 for intraband γ .
347.3 <i>3</i>	2.2 2	2316.7	8-	1969.3 6-		DCO=1.09 7; consistent with authors' $\Delta J=2$ placement.
352.0 <i>3</i>	1.4 <i>I</i>	1952.1	7-	1600.1 6+	D+Q	DCO=1.50 25; consistent with small Q admixture if $\Delta J=1$.
364.3 <i>3</i>	0.8 <i>3</i>	2559.2	10^{-}	2194.8 8-		DCO=0.8 3.
366.9 <i>3</i>	0.28 9	3191.9	$13^{(-)}$	2824.9 14+		
367.3 <i>3</i>	0.27 9	3192.2	14^{+}	2824.9 14+		
377.0 [#] 3	0.89 15	3073.2	12-	2696.1 10-		
379.1 <i>3</i>	<8	2632.7	10-	2253.7 8-	Q	DCO=1.09 6 for intraband γ . I _v : I(379.1 γ +379.2 γ +379.4 γ)=7.6 4 (1990He19).
379.2 3	<8	2430.3	9-	2051.2 7-	Q	DCO=1.02 20 for intraband γ . $I_{\gamma}: I(379.1\gamma+379.2\gamma+379.4\gamma)=7.6 4 (1990He19).$
379.4 <i>3</i>	<8	2696.1	10-	2316.7 8-	Q	DCO=1.10 9 for intraband γ . Ly: I(379.1 γ +379.2 γ +379.4 γ)=7.6 4 (1990He19).
384.1 <i>3</i>	1.2 1	991.3	4+	607.0 2+	Q	DCO=0.91 14 for intraband γ .
387.0 <i>3</i>	93 5	877.3	6+	490.2 4+	Q	DCO=0.99 2 for intraband γ .
406 1	0.60 20	1362.6	5+	956.4 3+	-	
413.2 3	2.4 2	2787.8	11-	2374.7 9-	Q	DCO=0.96 8 for intraband γ .
415.3 <i>3</i>	1.9 <i>1</i>	607.0	2^{+}	191.5 2+	-	DCO=1.6 4 rules out stretched Q.
417.2 3	3.2 2	2791.9	11-	2374.7 9-	Q	DCO=1.08 6; consistent with authors' $\Delta J=2$ placement.
422.4 3	3.6 2	2374.7	9-	1952.1 7-	Q	DCO=0.95 8 for intraband γ .
423.9 <i>3</i>	0.5 1	1222.2	4+	798.5 2+	Q	DCO=0.92 7 for intraband γ .

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γ (¹⁸⁶Pt) (continued)

E_{γ}^{\dagger}	I_{γ}^{\dagger}	E_i (level)	\mathbf{J}_i^{π}	$\mathbf{E}_f = \mathbf{J}_f^{\pi}$	Mult. [‡]	Comments
431.9 <i>3</i>	1.1 <i>I</i>	2787.8	11-	2355.8 9-	0	DCO=0.98 13: authors placement requires stretched O.
438 1	1.6 <i>1</i>	1801.1	(7^{+})	1362.6 5+	C C	
440.5 <i>3</i>	5.8 <i>3</i>	3073.2	12-	2632.7 10-	Q	DCO=0.95 6 for intraband γ .
444.7 <i>3</i>	0.92 10	3269.4	14^{+}	2824.9 14+	Q	DCO=1.08 25.
453.1 <i>3</i>	2.6 2	3983.7	17 ⁽⁻⁾	3530.6 15 ⁽⁻⁾	(Q)	DCO=0.92 7 for intraband γ (1987He29); no DCO given in 1990He19.
456.7 <i>3</i>	1.8 2	2887.0	11-	2430.3 9-	Q	DCO=1.00 14 for intraband γ .
465.1 <i>3</i>	68 <i>3</i>	1342.7	8+	877.3 6+	Q	DCO=0.99 2 for intraband γ .
470.1 3	1.6 <i>1</i>	1692.5	5-	1222.2 4+		
471.6 3	0.56 12	4172.3	16-	3700.7 14-	Q	DCO=1.02 13 for intraband γ .
472.2 3	4.2.2	3664.4	16	3192.2 14 ⁺	Q	DCO=1.06 9 for intraband γ .
4/5.3 3	1.3 3	31/1.4	12	2696.1 10	Q	DCO=0.92 8 for intraband γ .
4/8.2 3	37.8 19	2336.0	12. 6+	$185/.8 \ 10^{-1}$	Q	DCO=1.02 2 for intraband γ .
4/8./ 3	< 3	1470.0	(0^+)	$991.5 4^{\circ}$ 1801 1 (7 ⁺)	Q	$DCO=1.10$ 19 for intraband γ .
4/9 1	$^{1.2}$	1952 1	(9) 7-	$1470.0 6^+$	D+O	DCO=1.45.25: consistent with small O admixture if Λ I=1
483.4 3	2.2 2	3042.8	12-	2559.2 10 ⁻	DIQ	DCO=0.76 13 for intraband γ ; too low for authors' $\Delta J=2$ placement.
488.9 <i>3</i>	21.9 11	2824.9	14^{+}	2336.0 12+	Q	$DCO=1.00\ 2$ for intraband γ .
493.5 <i>3</i>	3.5 2	3566.7	14^{-}	3073.2 12-	Q	DCO=1.03 6 for intraband γ .
500.9 <i>3</i>	1.9 <i>3</i>	991.3	4+	490.2 4+		DCO=1.8 3; rules out stretched Q.
503.2 <i>3</i>	1.7 2	2611.5	12^{+}	2108.3 10+	Q	DCO=0.94 10 for intraband γ .
507.7 3	0.80 13	3299.6	13-	2791.9 11-	Q	DCO=1.02 19; consistent with authors' $\Delta J=2$ placement.
511.8 3	3.0 6	3299.6	13-	2787.8 11-	Q	DCO=1.08 13 for intraband γ .
515.1 3	53 3	1857.8	10^{+}	1342.7 8+	Q	DCO=1.04 2 for intraband γ .
515.4 3	<1.1	2316.7	8	$1801.1 (/^{+})$	0	DCO=1.9 11.
510.5.5	1.9 4	3310.5	13	2/91.9 11	Q	DCO=0.91 12 for intraband γ .
577 8 2	0.70.20	4393.0	12+	36/5.0 13 2326.0 12 ⁺		DCO=0.7125.
52933	0.95 25	3700.7	12	$2330.0 \ 12$ $3171.4 \ 12^{-1}$	0	DCO=0.97 11 for intraband γ
533 9 3	2.0.2	2004 1	8+	$1470.0 6^+$	(D)	DCO=0.94 25 for intraband γ .
534.2.3	0.63 16	3421.2	13-	$2887.0 \ 11^{-1}$	(\mathbf{Q})	DCO=1.06 26 for intraband γ .
540.3 3	0.95 13	2544.4	10^{+}	2004.1 8+	Q	DCO=1.06 21 for intraband γ .
543.7 <i>3</i>	3.0 2	4110.4	16-	3566.7 14-	Q	DCO=1.07 7 for intraband γ .
545.2 <i>3</i>	0.35 12	4938.2		4393.0		
556.0 <i>3</i>	2.3 2	4539.7	$19^{(-)}$	3983.7 17 ⁽⁻⁾	Q	DCO=1.05 11 for intraband γ .
556.6 <i>3</i>	1.9 2	3599.5	14^{-}	3042.8 12-	Q	DCO=1.08 14 for intraband γ .
568 [#] 1		3963.1	(16^{+})	3394.6 16+		Contaminated line.
569.8 <i>3</i>	12.1 6	3394.6	16+	2824.9 14+	Q	DCO=0.98 2 for intraband γ .
574.0 <i>3</i>	3.0 2	3873.6	15-	3299.6 13-	Q	DCO=0.92 9 for intraband γ .
580.4 <i>3</i>	3.3 3	3192.2	14+	2611.5 12+	_	DCO=1.01 5; consistent with authors' $\Delta J=2$ placement.
582.3 3	1.3 3	3892.8	15-	3310.5 13-	Q	DCO=1.15 <i>16</i> for intraband γ .
588.4 3	0.94 10	4698.8	18	4110.4 16	Q	DCO=1.00 13 for intraband γ .
589.1 3	1.6 2	3983.7	1^{-}	3394.6 16 ⁺	(D)	DCO=1.92 17; excludes stretched Q.
592.3 3	1.5.5	14/0.0	0 ¹	8/1.3 0 ⁺	0	DCO=1.4 J. DCO=1.02 14 for introbund w
595.9 5 606 6 3	2.5 2	4238.3	10 6 ⁻	1362.6 5 ⁺	Q	DCO=1.05 14 10f Infradantu γ . DCO=1.70.22; evoludes stratched O
607 1	2.1 2	607.0	2^+	$1302.0 \ 5$		DCO-1.70 22, excludes stretched Q.
607 2 3		798 5	$\frac{2}{2^{+}}$	$1915 2^+$		
608.6.3	1.2.3	4208.2	$\frac{1}{16^{-}}$	3599.5 14-	0	DCO=0.95 16 for intraband γ .
609.2 3	2.7 2	4482.8	(17^{-})	3873.6 15-	×	DCO=1.3 3 for intraband γ .
622.2 3	0.38 6	5321.0	(20-)	4698.8 18-		DCO=1.2 4 for intraband γ .
625.0 <i>3</i>	0.51 12	4517.8	(17-)	3892.8 15-	Q	DCO=0.9 3 for intraband γ .
627.5 <i>3</i>	0.58 16	4835.7	(18 ⁻)	4208.2 16-	Q	DCO=0.95 25 for intraband γ .
648.7 <i>3</i>	1.09 12	5188.4	21(-)	4539.7 19 ⁽⁻⁾	Q	DCO=1.01 10 for intraband γ .

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$\gamma(^{186}\text{Pt})$ (continued)

E_{γ}^{\dagger}	I_{γ}^{\dagger}	E _i (level)	\mathbf{J}_i^{π}	$\mathbf{E}_f = \mathbf{J}_f^{\pi}$	Mult. [‡]	Comments
656.5 <i>3</i>	7.1 5	4051.1	18+	3394.6 16+	0	DCO=0.96 3 for intraband γ .
657.8 <i>3</i>	2.2 2	3269.4	14^{+}	2611.5 12+	Q	DCO=0.92 9 for intraband γ .
661.2 <i>3</i>	0.90 20	2004.1	8+	1342.7 8+	-	
675.8 <i>3</i>	0.61 12	1632.3	4-	956.4 3+		DCO=1.5 4.
693.7 <i>3</i>	2.4 2	3963.1	(16^{+})	3269.4 14+	(Q)	DCO=1.2 3 for intraband γ .
697.7 <i>3</i>	1.4 2	4956.0	20^{+}	4258.3 18+	Q	DCO=1.00 23 for intraband γ .
697.8 [#] 3	2.8 2	4660.9?	(18^{+})	3963.1 (16 ⁺)		Contaminated line.
700.9 <i>3</i>	0.97 11	1692.5	5-	991.3 4+		DCO=1.4 4.
705.8 <i>3</i>	3.1 2	3530.6	$15^{(-)}$	2824.9 14+	(D)	DCO=1.92 15; excludes stretched Q.
722.6 3	1.9 2	1600.1	6+	877.3 6+		DCO=0.88 13.
731.6 3	0.8 3	1222.2	4+	490.2 4+		
733.2 3	0.47 9	5921.6	$23^{(-)}$	5188.4 21(-)	Q	DCO=1.15 21 for intraband γ .
737.0 3	2.4 2	4788.1	20+	4051.1 18+	Q	DCO=0.96 13 for intraband γ .
/53.6 3	6.4 <i>4</i>	2611.5	12'	185/.8 10	Q	DCO=0.98 5; consistent with authors' $\Delta J=2$ placement.
/04./ 3 765.6.2	1.0 /	930.4	3 · 10 ⁺	191.5 Z ⁺	0	DCO-1.04.5. consistent with outbons' AL-2 placement
703.0 3	4.92	2108.5	(22^{+})	1342.7 8	Q	DCO=1.04 J; consistent with authors $\Delta J=2$ placement.
701.9.5	0.40 14	708 5	(22) 2 ⁺	4930.0 20	Q	$DCO=1.1$ 4 for initiabalid γ .
79963	153	991 3	$\frac{2}{4^{+}}$	19152^+		
700 0 [#] 3	1.5 2	1407.5	3-	607.0 2+		Placement probably incorrect: la disagrees strongly with
000 1	0.25	(720.6	5 25(-)	5021 (22(-)		adopted branching.
808 7	≈0.35	6729.6	25()	5921.6 23	0	
808.8 5	1.2 4	5590.9	(24^{+})	$4/88.1 \ 20^{\circ}$ 5737.0 (22 ⁺)	Q	DCO=0.94 10 for intradand γ .
044.4 J	1.00 J	2101.0	(24) 12(-)	3737.9(22)		DCO-1.91.17, analysics stratshed O
856 4 3	1.52 10 1.25 14	3102.2	13	$2336.0 12^{+}$	0	DCO=1.05 17; excludes stretched Q. DCO=1.05 18; consistent with authors' AI=2 placement
86673	1.25 14 0.3 1	6463.6	24^+	2330.0 12 5596.9 22 ⁺	() ()	DCO-1.12.23 for intrahand γ
872.3.3	2.7.2	1362.6	24 5 ⁺	$490.2 4^+$	(Q)	DCO=1.1225 for intraband y. DCO=1.05.9
916.2 [#] 3	0.43 13	1407.5	3-	490.2 4+		Placement probably incorrect; neither $E\gamma$ nor $I\gamma$ agrees well with adopted value
92373	1 40 13	1801-1	(7^{+})	877 3 6+		DCO=1.1.2
933.3 3	1.2 1	3269.4	14+	2336.0 12+		DCO=1.24 16.
937.2 3	0.60 10	2279.9	(9^{+})	1342.7 8+		
944 [#] 1		7407.6?	(26^{+})	6463.6 24+		
979.7.3	1.3.3	1470.0	6 ⁺	490.2 4+		
1006.3 3	1.2 1	2864.2	12^{+}	1857.8 10+	0	DCO=1.01 14; consistent with authors' $\Delta J=2$ placement.
1030.6 <i>3</i>	1.4 <i>I</i>	1222.2	4+	191.5 2+		
1074.8 <i>3</i>	8.1 4	1952.1	7-	877.3 6+	D+Q	DCO=1.73 6; Q admixture is small if $\Delta J=1$.
1087.7 <i>3</i>	1.6 <i>1</i>	2430.3	9-	1342.7 8+		DCO=1.83 18; excludes stretched Q.
1092.0 <i>3</i>	0.30 10	1969.3	6-	877.3 6+		
1110.0 3	≈0.65	1600.1	6+	490.2 4+		
1127.4 3	1.03 13	2004.1	8+	877.3 6+		DCO=1.6 5.
1138 1	0.6 4	3963.1	(16 ⁺)	2824.9 14+		
1142.0 3	0.33 12	1632.3	4	490.2 4		
11/5.8 5	2.0 Z	2051.2	/ 5-	$\frac{8}{1.3}$ 6'		DCO=1.74 13; excludes stretched Q. DCO=1.71 % consistent with pure stretched D or with
1202.8 3	5.9 5	1092.3	5	490.2 4		$Q(+D)$ ($\delta \ge 1.4$) $\Delta J=0$ transition (1990He19).
1216.3 3	0.94 10	1407.5	3-	191.5 2+		
1240.0 3	0.92 12	2122.8	(/)	8/1.3 6		

[†] From 1990He19. Uncertainty in $E\gamma$ is 0.3 keV, except for unresolved multiplets (in which case, $\Delta E=1$ keV). The evaluators presume that the latter uncertainty is the appropriate one for those lines quoted to the nearest keV in 1990He19.

 $\gamma(^{186}\text{Pt})$ (continued)

[‡] From DCO ratios in 1990He19 (stretched Q transition in gate) and deduced band structure. Expected ratios are 1.00 for Q ($\Delta J=2$), 1.94 for pure D ($\Delta J=1$), 0.91 for pure D ($\Delta J=0$) transitions (see 1987He29,1990He19); ratios ≥ 2 imply mult=D+Q, $\Delta J=1$.

^{$\Delta J = 1$.} [#] Placement of transition in the level scheme is uncertain.



 $^{186}_{78}{\rm Pt}_{108}$



 $^{186}_{78}{\rm Pt}_{108}$



 $^{186}_{78}{\rm Pt}_{108}$



 $^{186}_{78}{\rm Pt}_{108}$



 $^{186}_{78}{\rm Pt}_{108}$

¹⁸⁸Os(α,6nγ) 1990He19,1987He29



 $^{186}_{78}{\rm Pt}_{108}$



 $^{186}_{78}{\rm Pt}_{108}$





¹⁸⁶₇₈Pt₁₀₈



 $^{186}_{78}{\rm Pt}_{108}$