

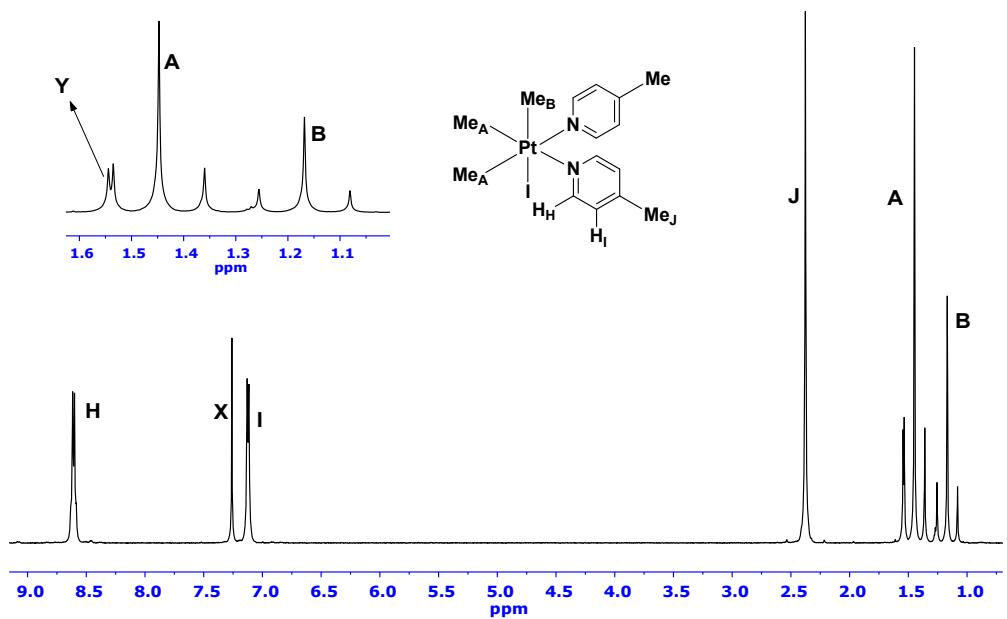
## **Substituent effects in solution speciation of the mononuclear and dinuclear trimethylplatinum(IV) iodide complexes of pyridines**

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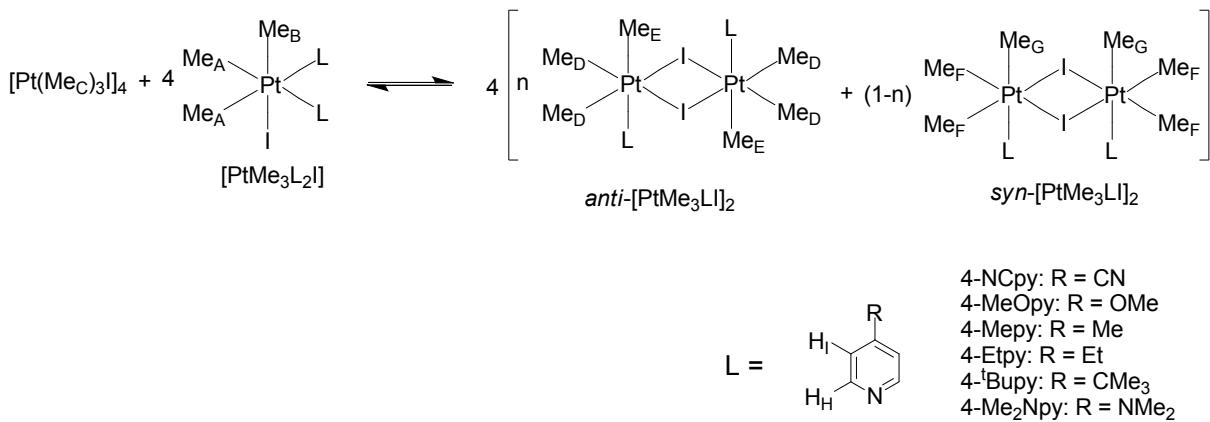
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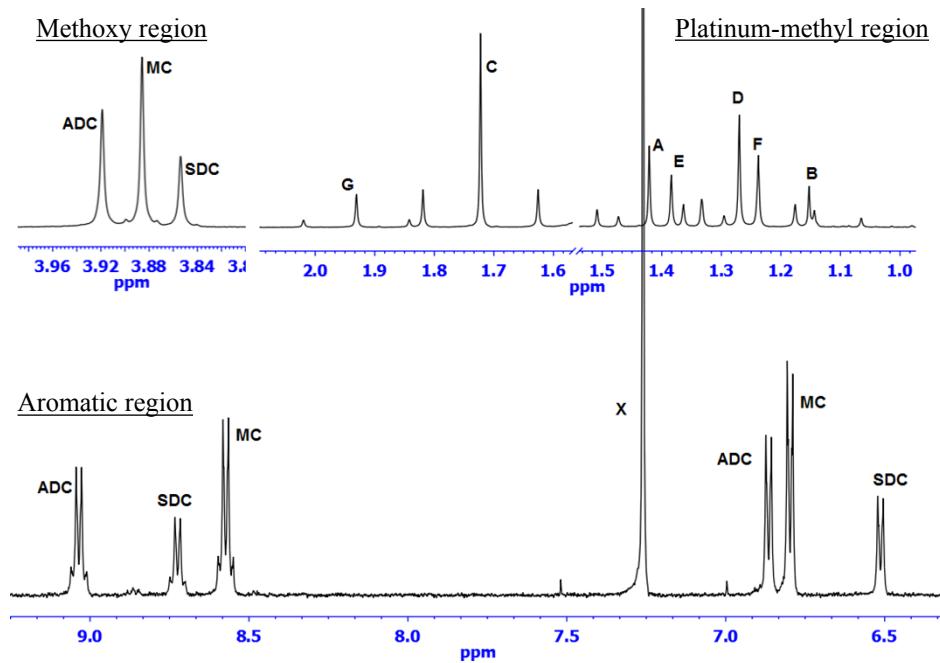
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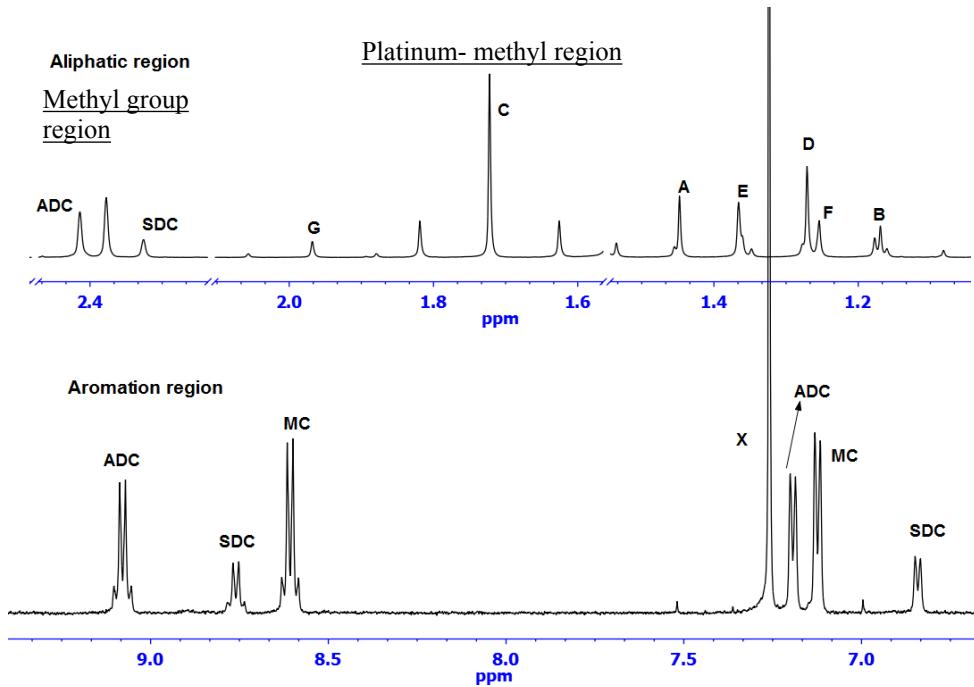
**Fig.S1** The 400 MHz  $^1\text{H}$  NMR spectrum of mononuclear  $[\text{PtMe}_3(4\text{-Mepy})_2\text{I}]$  in  $\text{CDCl}_3$ . X is the solvent peak and Y is the peak for water molecules present in  $\text{CDCl}_3$ . Inset showing the signals for the methyl groups bonded to platinum metal.



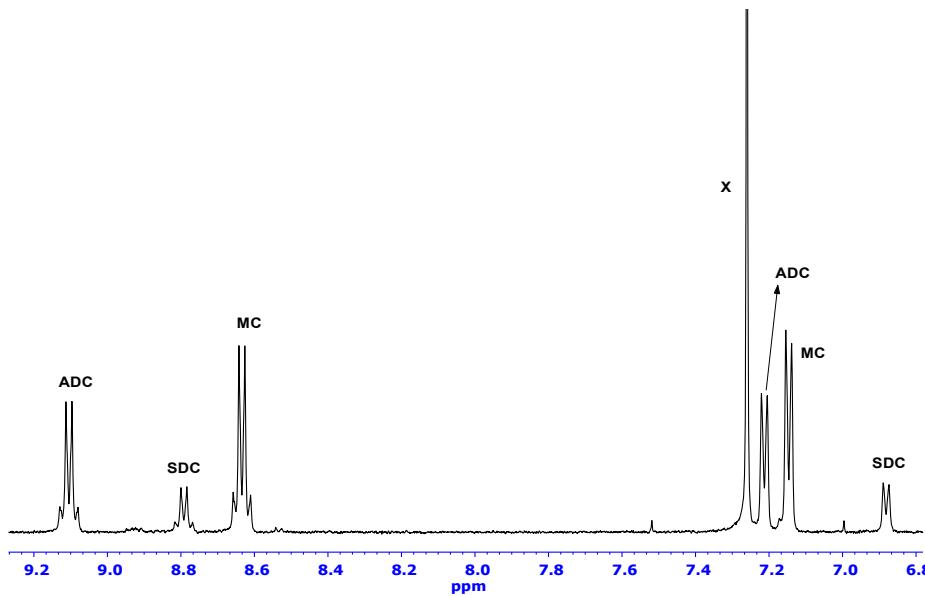
**Scheme S1** The reaction of tetrameric trimethylplatinum(IV) iodide and mononuclear  $[\text{PtMe}_3\text{L}_2\text{I}]$  ( $\text{L}$  = pyridines) complexes in chloroform showing the labelling.



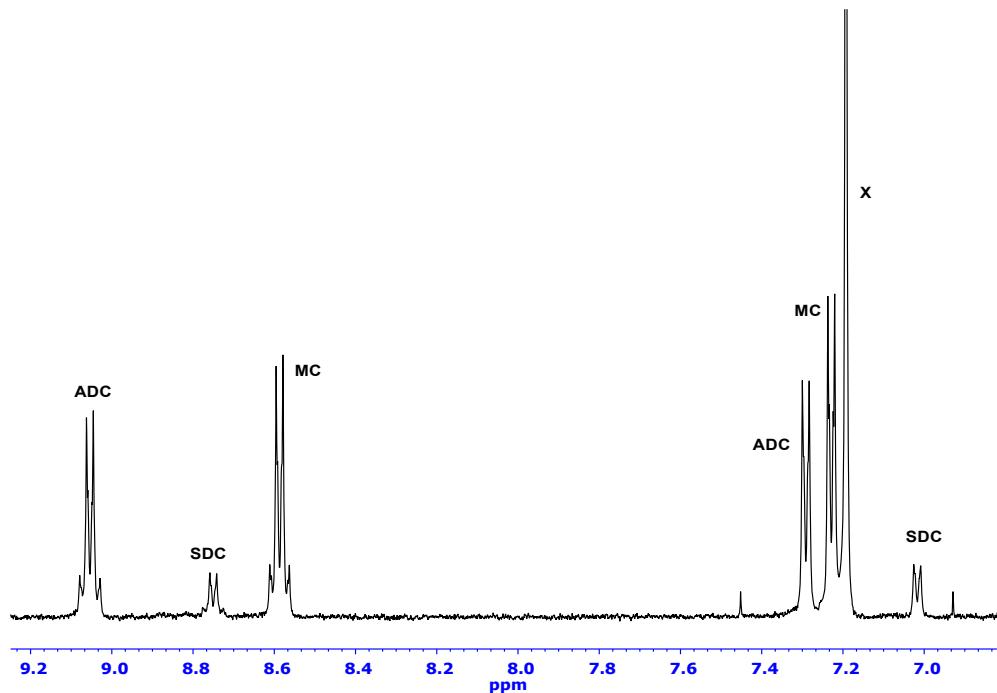
**Fig. S2** 400 MHz  $^1\text{H}$  NMR spectrum of 1:1 mixture of  $[\text{PtMe}_3(4\text{-MeOpy})_2\text{I}]$  and  $[(\text{PtMe}_3\text{I})_4]$  in  $\text{CDCl}_3$ , measured at room temperature. Here ADC = *anti*- $[\text{PtMe}_3(4\text{-MeOpy})\text{I}]_2$ , SDC = *syn*- $[\text{PtMe}_3(4\text{-MeOpy})\text{I}]_2$  and MC = mononuclear  $[\text{PtMe}_3(4\text{-MeOpy})_2\text{I}]$ . X is the solvent peak. Labelling in the platinum-methyl region refers to Scheme S1.



**Fig. S3** 400 MHz  $^1\text{H}$  NMR spectrum of 1:1 mixture of  $[\text{PtMe}_3(4\text{-Mepy})_2\text{I}]$  and  $[(\text{PtMe}_3\text{I})_4]$  in  $\text{CDCl}_3$ , measured at room temperature. Here ADC = *anti*- $[\text{PtMe}_3(4\text{-Mepy})\text{I}]_2$ , SDC = *syn*- $[\text{PtMe}_3(4\text{-Mepy})\text{I}]_2$  and MC = mononuclear  $[\text{PtMe}_3(4\text{-Mepy})_2\text{I}]$ . X is the solvent peak. Labelling of methyl groups in the platinum-methyl region refers to scheme S1.

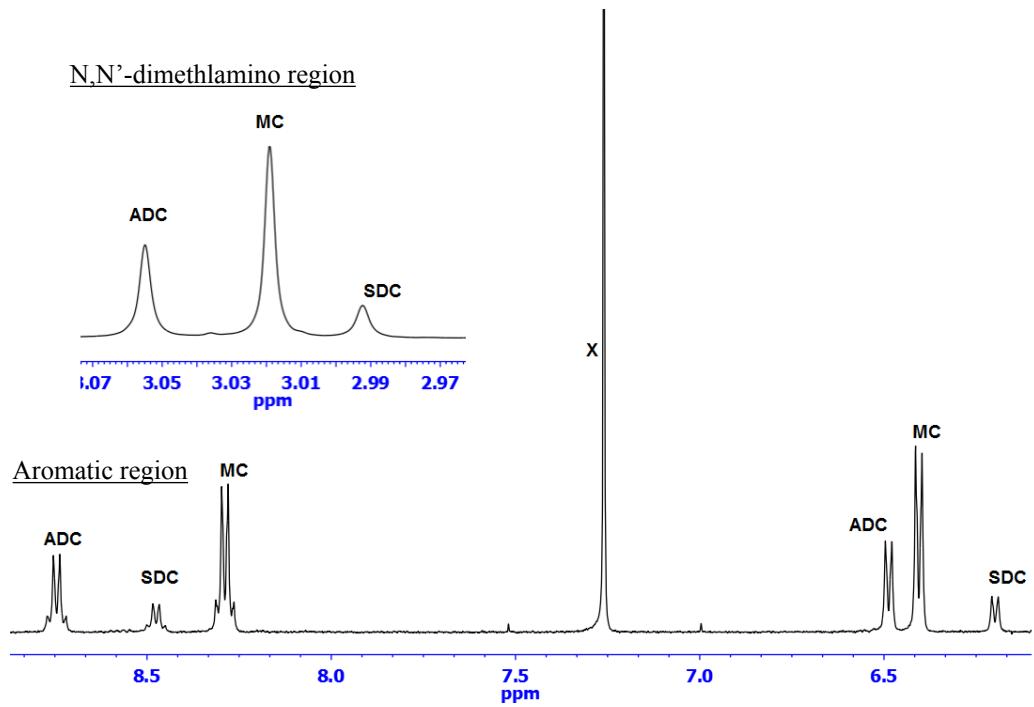


**Fig. S4** Aromatic region in the 400 MHz  $^1\text{H}$  NMR spectrum of 1:1 mixture of  $[\text{PtMe}_3(4\text{-Etpy})_2\text{I}]$  and  $[(\text{PtMe}_3\text{I})_4]$  in  $\text{CDCl}_3$ , measured at room temperature. Here ADC = *anti*- $[\text{PtMe}_3(4\text{-Etpy})\text{I}]_2$ , SDC = *syn*- $[\text{PtMe}_3(4\text{-Etpy})\text{I}]_2$  and MC = mononuclear  $[\text{PtMe}_3(4\text{-Etpy})_2\text{I}]$ . X is the solvent peak.



**Fig. S5** Aromatic region in the 400 MHz  $^1\text{H}$  NMR spectrum of 1:1 mixture of  $[\text{PtMe}_3(4\text{-}^{\text{t}}\text{Bupy})_2\text{I}]$  and  $[(\text{PtMe}_3\text{I})_4]$  in  $\text{CDCl}_3$ , measured at room temperature. Here ADC = *anti*- $[\text{PtMe}_3(4\text{-}^{\text{t}}\text{Bupy})\text{I}]_2$ .

<sup>t</sup>Bupy)I]<sub>2</sub>, SDC = *syn*-[PtMe<sub>3</sub>(4-<sup>t</sup>Bupy)I]<sub>2</sub> and MC = mononuclear [PtMe<sub>3</sub>(4-<sup>t</sup>Bupy)<sub>2</sub>I]. X is the solvent peak.



**Fig. S6** 400 MHz <sup>1</sup>H NMR spectrum of 1:1 mixture of [PtMe<sub>3</sub>(4-Me<sub>2</sub>Npy)<sub>2</sub>I] and [(PtMe<sub>3</sub>I)<sub>4</sub>] in CDCl<sub>3</sub>, measured at room temperature. Here ADC = *anti*-[PtMe<sub>3</sub>(4-Me<sub>2</sub>Npy)I]<sub>2</sub>, SDC = *syn*-[PtMe<sub>3</sub>(4-Me<sub>2</sub>Npy)I]<sub>2</sub> and MC = mononuclear [PtMe<sub>3</sub>(4-Me<sub>2</sub>Npy)<sub>2</sub>I]. X is the solvent peak.

**Table S1**  $^1\text{H}$  NMR data<sup>a</sup> for the reaction of trimethylplatinum(IV) iodide with mononuclear  $[\text{PtMe}_3\text{L}_2\text{I}]$  ( $\text{L}$ = pyridines) complexes in  $\text{CDCl}_3$

<b>PtMe<sub>3</sub>L<sub>2</sub>I complex</b>	<b>Pt(IV) species present in solution</b>	<b><math>\delta(\text{Pt-Me})^{b, e}</math></b>	<b>Trans ligand</b>	<b><math>\delta(\text{ligand H})^{c, e}</math></b>
$[\text{PtMe}_3(4-\text{NCpy})_2\text{I}]^1$	$[\text{PtMe}_3(4-\text{NCpy})_2\text{I}]$	A 1.53 (71.2) B 1.18 (67.3)	4-NCpy I	H 9.04 (6.4) (17.9) <sup>d</sup> I 7.64 (6.5)
	$\text{PtMe}_3\text{I}$	C 1.72 (77.3)	I	-
	<i>anti</i> - $[\text{PtMe}_3(4-\text{NCpy})\text{I}]_2$	D 1.27 (73.9) E 1.41 (72.5)	I 4-NCpy	H 9.47 (6.4) (18.5) <sup>d</sup> I 7.67 (6.5)
	<i>syn</i> - $[\text{PtMe}_3(4-\text{NCpy})\text{I}]_2$	F 1.25 G 2.04 (72.6)	I 4-NCpy	H 9.18 I 7.37
$[\text{PtMe}_3(4-\text{MeOpy})_2\text{I}]$	$[\text{PtMe}_3(4-\text{MeOpy})_2\text{I}]$	A 1.42 (70.0) B 1.15 (70.2)	4-MeOpy I	H 8.58 (7.0) (19.0) <sup>d</sup> I 6.80 (7.0) OMe 3.89
	$\text{PtMe}_3\text{I}$	C 1.72 (77.3)	I	-
	<i>anti</i> - $[\text{PtMe}_3(4-\text{MeOpy})\text{I}]_2$	D 1.27 (75.1) E 1.38 (71.0)	I 4-MeOpy	H 9.04 (6.9) (19.7) <sup>d</sup> I 6.86 (7.0) OMe 3.92
	<i>syn</i> - $[\text{PtMe}_3(4-\text{MeOpy})\text{I}]_2$	F 1.24 (75.2) G 1.93 (71.0)	I 4-MeOpy	H 8.73 (6.8) (19.5) <sup>d</sup> I 6.51 (6.9) OMe 3.85
$[\text{PtMe}_3(4-\text{Mepy})_2\text{I}]^2$	$[\text{PtMe}_3(4-\text{Mepy})_2\text{I}]$	A 1.45 (70.0) B 1.17 (70.0)	4-Mepy I	H 8.61 (6.4) (19.0) <sup>d</sup> I 7.12 (6.0) Me 2.38
	$\text{PtMe}_3\text{I}$	C 1.72 (77.3)	I	-
	<i>anti</i> - $[\text{PtMe}_3(4-\text{Mepy})\text{I}]_2$	D 1.27 (75.1) E 1.37 (71.1)	I 4-Mepy	H 9.08 (6.5) (19.6) <sup>d</sup> I 7.19 (6.0) Me 2.41
	<i>syn</i> - $[\text{PtMe}_3(4-\text{Mepy})\text{I}]_2$	F 1.25 (75.1) G 1.97 (71.1)	I 4-Mepy	H 8.76 (6.4) (19.2) <sup>d</sup> I 6.84 (5.8) Me 2.33
$[\text{PtMe}_3(4-\text{Etpy})_2\text{I}]$	$[\text{PtMe}_3(4-\text{Etpy})_2\text{I}]$	A 1.45 (70.1) B 1.18 (70.2)	4-Etpy I	H 8.64 (6.4) (18.9) <sup>d</sup> I 7.15 (6.4) CH <sub>2</sub> 2.68 Me 1.27
	$\text{PtMe}_3\text{I}$	C 1.72 (77.3)	I	-
	<i>anti</i> - $[\text{PtMe}_3(4-\text{Etpy})\text{I}]_2$	D 1.28 (75.1) E 1.36 (71.0)	I 4-Etpy	H 9.11 (6.6) (19.8) <sup>d</sup> I 7.21 (6.3) CH <sub>2</sub> 2.72 Me 1.30
	<i>syn</i> - $[\text{PtMe}_3(4-\text{Etpy})\text{I}]_2$	F 1.28 (75.1) G 1.99 (71.1)	I 4-Etpy	H 8.79 (6.5) (19.4) <sup>d</sup> I 6.88 (6.1) CH <sub>2</sub> 2.62 Me 1.26
$[\text{PtMe}_3(4-\text{tBupy})_2\text{I}]$	$[\text{PtMe}_3(4-\text{tBupy})_2\text{I}]$	A 1.45 (69.9) B 1.19 (70.1)	4-tBupy I	H 8.66 (6.5) (19.0) <sup>d</sup> I 7.30 (6.7) <sup>t</sup> Bu 1.33
	$\text{PtMe}_3\text{I}$	C 1.72 (77.3)	I	-
	<i>anti</i> - $[\text{PtMe}_3(4-\text{tBupy})\text{I}]_2$	D 1.30 (75.1) E 1.35 (70.8)	I 4-tBupy	H 9.12 (6.6) (19.8) <sup>d</sup> I 7.36 (6.6) <sup>t</sup> Bu 1.35

	<i>syn</i> -[PtMe <sub>3</sub> (4- <sup>t</sup> Bupy)I] <sub>2</sub>	F 1.34 (75.1) G 2.01 (71.2)	I 4- <sup>t</sup> Bupy	H 8.82 (6.6) (19.4) <sup>d</sup> I 7.09 (6.4) <sup>t</sup> Bu 1.32
[PtMe <sub>3</sub> (4-Me <sub>2</sub> Npy) <sub>2</sub> I] <sup>1</sup>	[PtMe <sub>3</sub> (4-Me <sub>2</sub> Npy) <sub>2</sub> I]	A 1.35 (69.3) B 1.14 (71.5)	4-Me <sub>2</sub> Npy I	H 8.29 (7.2) (19.6) <sup>d</sup> I 6.40 (7.2) NMe <sub>2</sub> 3.02
	PtMe <sub>3</sub> I	C 1.72 (77.3)	I	-
	<i>anti</i> -[PtMe <sub>3</sub> (4-Me <sub>2</sub> Npy)I] <sub>2</sub>	D 1.27 (75.6) E 1.39 (70.0)	I 4-Me <sub>2</sub> Npy	H 8.74 (7.1) (20.6) <sup>d</sup> I 6.49 (7.1) NMe <sub>2</sub> 3.05
	<i>syn</i> -[PtMe <sub>3</sub> (4-Me <sub>2</sub> Npy)I] <sub>2</sub>	F 1.27 (75.6) G 1.90 (70.1)	I 4-Me <sub>2</sub> Npy	H 8.48 (7.0) (20.3) <sup>d</sup> I 6.20 (7.0) NMe <sub>2</sub> 2.99

<sup>a</sup>Chemical shifts quoted in ppm are relative to an internal solvent peak (CDCl<sub>3</sub>, δ 7.26 ppm). <sup>b</sup> <sup>2</sup>J<sub>Pt-H</sub>/Hz in parentheses. <sup>c</sup> <sup>3</sup>J<sub>H-H</sub>/Hz in parentheses. <sup>d</sup> <sup>3</sup>J<sub>Pt-H</sub>/Hz in parentheses. <sup>e</sup> labelling refers to scheme S1. Not all the scalar coupling resolved.

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**Table S2 Crystallographic data and structure refinement for mononuclear [PtMe<sub>3</sub>L<sub>2</sub>] complexes**

Complex	[PtMe <sub>3</sub> (4-NCpy) <sub>2</sub> I]	[PtMe <sub>3</sub> (4-Mepy) <sub>2</sub> I]	[PtMe <sub>3</sub> (4-Etpy) <sub>2</sub> I]
CCDC No.	1037991	866046	823795
Empirical formula	C <sub>15</sub> H <sub>17</sub> IN <sub>4</sub> Pt	C <sub>15</sub> H <sub>23</sub> IN <sub>2</sub> Pt	C <sub>17</sub> H <sub>27</sub> IN <sub>2</sub> Pt
Formula weight	575.32	553.34	581.39
T / K	123(2)	123(2)	133(2)
λ / Å	0.71073	0.71073	0.71073
Crystal color, shape	colorless, block	colorless, block	yellow, block
Crystal size/mm <sup>3</sup>	0.300 x 0.200 x 0.100	0.380x0.140x0.140	0.410x0.210x0.180
Crystal system	Triclinic	monoclinic	monoclinic
Space group	P-1	P2 <sub>1</sub> /n	P2 <sub>1</sub> /c
a / Å	9.7124(5)	11.1252(4)	12.0156(17)
b / Å	10.2867(5)	12.8648(5)	12.0304(17)
c / Å	10.3892(5)	12.2536(3)	13.4566(19)
α / °	70.911(3)	90	90.00
β / °	66.286(3)	98.742(2)	102.370(3)
γ / °	73.069(3)	90	90.00
V / Å <sup>3</sup>	882.64(8)	1733.40(10)	1900.0(5)
Z	2	4	4
D <sub>calc.</sub> (g cm <sup>-3</sup> )	2.165	2.120	2.032
μ / mm <sup>-1</sup>	9.696	9.866	9.007
F(000)	532	1032	1096
θ / °	2.70 to 25.25	3.12 to 25.25	2.29 to 30.58
Completeness to θ <sub>full</sub>	98.9 %	99.2%	99.9 %
Reflections collected	6324	10387	30865
Independent reflections	3174 [R(int) = 0.0243]	3119 [R(int) = 0.0281]	5833 [R(int) = 0.0201]
Absorption correction	multi-scan	multi-scan	multi-scan
Max. and min. trans.	0.7457, 0.4643	0.7457, 0.4865	0.433, 0.238
Data/restraints /parameters	3174/0/193	3119 / 0 / 177	5833/0/195
Goodness-of-fit on F <sup>2</sup>	1.049	1.079	1.079
Final R indices [I > 2σ(I)]	R1 = 0.0215, wR2 = 0.0508	R1 = 0.0189, wR2 = 0.0398	R1 = 0.0146, wR2 = 0.0344
R indices (all data)	R1 = 0.0235, wR2 = 0.0514	R1 = 0.0220, wR2 = 0.0410	R1 = 0.0184, wR2 = 0.0359
Largest diff. peak and hole/ eÅ <sup>-3</sup>	0.936, -1.136	0.589, -0.514	0.598, -1.298

**Table S3 Crystallographic data and structure refinement for dinuclear  $[\text{PtMe}_3\text{Li}]_2$  complexes**

Complex	<i>syn</i> -[PtMe <sub>3</sub> (4-NCPy)I] <sub>2</sub>	<i>anti</i> -[PtMe <sub>3</sub> (4-NCPy)I] <sub>2</sub>	<i>syn</i> -[PtMe <sub>3</sub> (4-MeOpy)I] <sub>2</sub>	<i>syn</i> -[PtMe <sub>3</sub> (4-Etpy)I] <sub>2</sub>
CCDC No.	1037992	1037993	1037994	1037995
Empirical formula	C <sub>18</sub> H <sub>26</sub> I <sub>2</sub> N <sub>4</sub> Pt <sub>2</sub>	C <sub>18</sub> H <sub>26</sub> I <sub>2</sub> N <sub>4</sub> Pt <sub>2</sub>	C <sub>18</sub> H <sub>32</sub> I <sub>2</sub> N <sub>2</sub> O <sub>2</sub> Pt <sub>2</sub>	C <sub>20</sub> H <sub>36</sub> I <sub>2</sub> N <sub>2</sub> Pt <sub>2</sub>
Formula weight	942.41	942.41	952.43	948.49
T / K	173(2)	173(2)	193(2)	193(2)
$\lambda$ / Å	0.71073	0.71073	0.71073	0.71073
Crystal color, shape	pale-yellow, block	colorless, block	yellow, block	yellow, plate
Crystal size/mm <sup>3</sup>	0.450x0.350x0.160	0.380x0.240x0.160	0.240x0.230x0.180	0.340x0.320x0.160
Crystal system	monoclinic	Monoclinic	monoclinic	orthorhombic
Space group	<i>P</i> 2 <sub>1</sub> /n	<i>P</i> 2 <sub>1</sub> /c	<i>P</i> 2 <sub>1</sub> /n	<i>P</i> n <sub>am</sub>
<i>a</i> / Å	8.88211(18)	8.0595(2)	10.4070(9)	10.7003(10)
<i>b</i> / Å	12.0880(2)	11.2505(3)	11.7649(6)	12.7871(9)
<i>c</i> / Å	22.6364(5)	13.6434(4)	20.7823(17)	18.4091(17)
$\alpha$ / °	90	90	90	90
$\beta$ / °	99.0938(19)	106.090(3)	98.377(10)°	90
$\gamma$ / °	90	90	90	90
<i>V</i> / Å <sup>3</sup>	2399.86(9)	1188.64(6)	2517.4(3)	2518.8(4)
<i>Z</i>	4	2	4	4
<i>D</i> <sub>calc.</sub> (g cm <sup>-3</sup> )	2.608	2.633	2.513	2.501
$\mu$ / mm <sup>-1</sup>	14.228	14.363	13.568	13.554
<i>F</i> (000)	1696	848	1728	1728
$\theta$ / °	1.92 to 25.00	2.39 to 25.25	2.34 to 25.25	3.33 to 25.00
Completeness to $\theta_{full}$	99.9 %	99.9 %	99.6 %	96.2%
Reflections collected	8366	4366	17067	16248
Independent reflections	4241 [R(int) = 0.0335]	2161 [R(int) = 0.0299]	4544 [R(int) = 0.0537]	2215 [R(int) = 0.0646]
Absorption correction	analytical	Gaussian	multi-scan	multi-scan
Max. and min. trans.	0.344, 0.147	0.405, 0.159	0.1115, 0.0529	0.1480, 0.0562
Data/restraints /parameters	4241 / 0 / 241	2161 / 0 / 122	4544 / 0 / 245	2215 / 0 / 127
Goodness-of-fit on <i>F</i> <sup>2</sup>	1.042	1.064	0.928	1.050
Final <i>R</i> indices [ <i>I</i> > 2σ( <i>I</i> )]	R1 = 0.0302, wR2 = 0.0649	R1 = 0.0331, wR2 = 0.0868	R1 = 0.0232, wR2 = 0.0493	R1 = 0.0351, wR2 = 0.0925
<i>R</i> indices (all data)	R1 = 0.0339, wR2 = 0.0669	R1 = 0.0349, wR2 = 0.0887	R1 = 0.0334, wR2 = 0.0512	R1 = 0.0384, wR2 = 0.0947
Largest diff. peak and hole/eÅ <sup>-3</sup>	1.431, -1.323	2.079, -1.932	0.844, -0.8777	2.340, -2.403

**Table S4 Selected bond lengths (Å) and angles (°) in mononuclear [PtMe<sub>3</sub>L<sub>2</sub>I] complexes (L = 4-NCpy, 4-Mepy, 4-Etpy)**

Complex	[PtMe <sub>3</sub> (4-NCpy) <sub>2</sub> I]	[PtMe <sub>3</sub> (4-Mepy) <sub>2</sub> I]	[PtMe <sub>3</sub> (4-Etpy) <sub>2</sub> I]
Pt1-C1	2.053(4)	2.058(4)	2.053(2)
Pt1-C2	2.044(5)	2.055(4)	2.053(3)
Pt1-C3	2.077(4)	2.061(3)	2.069(3)
Pt1-N1	2.200(3)	2.176(3)	2.175(2)
Pt1-N2	2.185(4)	2.186(3)	2.189(2)
Pt1-I1	2.7784(3)	2.7723(3)	2.7771(4)
N1-Pt1-N2	88.57(12)	89.10(10)	90.67(6)
C1-Pt1-N1	178.77(16)	178.37(15)	176.89(9)
C2-Pt1-N2	177.02(15)	176.97(14)	178.58(9)
C3-Pt1-I3	177.99(14)	177.19(10)	178.11(7)

**Table S5 Selected bond lengths (Å) and angles (°) in dinuclear [PtMe<sub>3</sub>LI]<sub>2</sub> complexes**

<i>anti</i> -[PtMe <sub>3</sub> (4-NCpy)I] <sub>2</sub>			
Pt1-C1	2.047(9)	C1-Pt1-N1	178.9(3)
Pt1-C2	2.056(9)	C2-Pt1-I1	179.0(2)
Pt1-C3	2.057(9)	C3-Pt1-I1	177.2(3)
Pt1-N1	2.210(6)	Pt1-I1-Pt1a	92.46(2)
Pt1-I1	2.7956(6)	I1-Pt1-I1a	87.54(2)
<i>syn</i> -[PtMe <sub>3</sub> (4-NCpy)I] <sub>2</sub>			
Pt1-C1	2.029(7)	C1-Pt1-N1	179.1(2)
Pt1-C2	2.045(7)	C2-Pt1-I2	178.3(2)
Pt1-C3	2.041(6)	C3-Pt1-I1	178.6(2)
Pt2-C4	2.043(7)	C4-Pt2-N4	177.5(2)
Pt2-C5	2.051(6)	C5-Pt2-I2	177.3(2)
Pt2-C6	2.043(7)	C6-Pt2-I1	179.6(2)
Pt1-N1	2.197(6)	Pt1-I1-Pt2	92.89(2)
Pt2-N2	2.210(6)	Pt1-I1-Pt2	93.06(2)
Pt1-I1	2.7916(5)	I1-Pt1-I2	86.67(2)
Pt1-I2	2.7927(5)	I1-Pt2-I2	86.89(2)
Pt2-I1	2.7908(5)		
Pt2-I2	2.7818(5)		
<i>syn</i> -[PtMe <sub>3</sub> (4-MeOpy)I] <sub>2</sub>			
Pt1-C1	2.053(8)	C1-Pt1-N1	177.0(3)
Pt1-C2	2.054(8)	C2-Pt1-I1	179.6(3)
Pt1-C3	2.044(7)	C3-Pt1-I2	176.8(3)

Pt2-C4	2.047(9)	C4-Pt2-N2	177.2(3)
Pt2-C5	2.036(9)	C5-Pt2-I2	178.5(3)
Pt2-C6	2.029(8)	C6-Pt2-I1	177.7(3)
Pt1-N1	2.188(6)	Pt1-I1-Pt2	93.16(2)
Pt2-N2	2.181(6)	Pt1-I1-Pt2	92.64(2)
Pt1-I1	2.7839(5)	I1-Pt1-I2	86.92(2)
Pt1-I2	2.8116(5)	I1-Pt2-I2	86.82(2)
Pt2-I1	2.8020(5)		
Pt2-I2	2.7987(5)		
<hr/>			
<b><i>syn</i>-[PtMe<sub>3</sub>(4-Etpy)I]<sub>2</sub></b>			
Pt1-C1	2.054(8)	C1-Pt1-N1	178.3(3)
Pt1-C2	2.034(9)	C2-Pt1-I2	178.1(3)
Pt1-C3	2.061(9)	C3-Pt1-I1	178.4(2)
Pt1-N1	2.189(5)	Pt1-I1-Pt1a	92.00(2)
Pt1-I1	2.7785(6)	Pt1-I2-Pt1a	93.64(2)
Pt1-I2	2.8166(6)	I1-Pt1-I2	86.81(1)

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