Supporting Information for

Inorganic click (iClick) synthesis of heterotrinuclear Pt^{II}/Au^{I}_2 complexes.

Andrew R. Powers, Xi Yang, Trevor J. Del Castillo, Ion Ghiviriga, Khalil A. Abboud, and Adam S. Veige.*

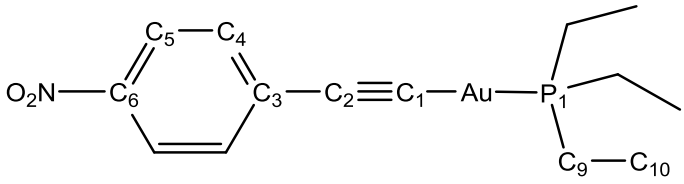
University of Florida, Department of Chemistry, Center for Catalysis, Gainesville, FL, 32611.

Index Page

General Considerations

Unless otherwise specified, all manipulations were performed under an inert atmosphere using standard Schlenk or glove-box techniques. Pentane, methylene chloride, diethyl ether, and tetrahydrofuran, were degassed by sparging with high purity argon, and were dried using a GlassContour drying column. Methanol was dried over anhydrous copper(II)sulfate, distilled and stored over 4Å molecular sieves. Benzene-d_6 (Cambridge Isotopes) was dried over sodium benzophenone ketyl, distilled, and stored over 4 Å molecular sieves; chloroform-d_3 (Cambridge Isotopes) was dried over calcium hydride, distilled, and stored over 4 Å molecular sieves; dimethylsulfoxide-d_6 (Cambridge Isotopes) was used as received. ^{1}H, ^{13}C{^{1}H}, and ^{31}P{^{1}H} NMR spectra were acquired on a Varian Mercury Broad Band 300 MHz, a Varian Mercury 300 MHz, or an Inova 500 MHz spectrometer. 2D NMR spectra were obtained on an Inova 500 MHz spectrometer. Chemical shifts are reported in δ (ppm). For ^{1}H NMR spectra, the residual solvent peak was used as an internal reference, while ^{31}P{^{1}H} spectra were referenced to an 85% phosphoric acid external standard (0 ppm). Elemental analyses were performed at Complete Analysis Laboratory Inc., Parsippany, New Jersey. The following materials were purchased and used as received chloro(dimethylsulfide)gold(I) (Sigma-Aldrich), chloro(triethylphosphine)gold(I) (Sigma-Aldrich), triphenylphosphine (Acros), *cis*-dichlorobis(triethylphosphine)platinum(II) (Sigma-Aldrich), potassium tetrachloroplatinate(II) (Aldrich), 1-ethynyl-4-nitrobenzene (Sigma-Aldrich), 1,1-bis(diphenylphosphino)methane (dppm) (Sigma-Aldrich), sodium azide (Acros). The following were prepared by literature methods: *cis*-$(PPh_3)_2PtCl_2$[1], *cis*-$(PPh_3)_2Pt(N_3)_2$ (**4-Ph**)[2], PPh_3Au-Cl[3], $PPh_3Au^{I}C{\equiv}CC_6H_4NO_2$ (**5-Ph**)[4], *cis*-$(PEt_3)_2Pt(N_3)_2$ (**4-Et**)[5], and $PEt_3Au^{I}N_3$ (**9**)[6], $[Au(\mu\text{-dppm})Cl]_2$[7].

Synthesis and characterization of **5-Et**.



To a 2-neck round bottom flask charged with a magnetic stirbar, was added chlorotriethylphosphine gold(I) (100 mg, 0.285 mmol), and 1-ethynyl-4-nitrobenzene (50.4 mg, 0.342 mmol). The flask was evacuated and then filled with argon and 5 mL of dry methanol was added via syringe. 10 mL of a freshly prepared 0.262 M solution of sodium methoxide in methanol (made from 60 mg (2.62 mmol) sodium metal in 10 mL dry methanol) was added via syringe. The suspension was allowed to stir under argon for 16 h. The following workup was done with no precaution to exclude air and water. The solution volume was reduced in vacuo to approximately 5 mL, at which time the yellow suspension was filtered through a glass fritted funnel, and the solid material was washed with cold methanol and pentane. The solid material was then taken up in chloroform, allowed to stir for 1 h and then all volatiles were removed in vacuo, and the residue triturated with pentane. The $^{31}P\{^{1}H\}$ NMR reveals two resonances in the spectra of the initial solid material (39.96 and 37.92 ppm), which upon sitting in chloroform all product converts to a single product (37.92 ppm)). 77% Yield (101 mg, 0.219 mmol). ^{1}H NMR (500 MHz, $CDCl_3$): δ 8.10 (d, $^{3}J_{HH}$ = 8.6 Hz, 2H, H5), 7.56 (d, $^{3}J_{HH}$ = 8.6 Hz, 2H, H4), 1.84 (dq, $^{2}J_{PH}$ = 7.6 Hz, $^{3}J_{HH}$ = 7.7 Hz, 6H, H9), 1.22 (dt, $^{3}J_{PH}$ = 18.2 Hz, $^{3}J_{HH}$ = 7.7 Hz, 9H, H10). ^{13}C NMR Shifts (indirect detection through ^{1}H-^{13}C gHMBC and ^{1}H-^{13}C gHSQC (500 MHz, $CDCl_3$)): δ 145.8 (C6), 132.8 (C4), 132.5 (C3), 123.4 (C5), 102.3 (C2), 17.8 (C9), 8.9 (C10) (Note: C_1 is not observed). $^{31}P\{^{1}H\}$ NMR (121.4 MHz, $CDCl_3$): δ 37.92 (s, P1). Anal. Calcd for $C_{14}H_{19}AuNO_2$: C, 36.46; H, 4.15; N, 3.04. Found: C, 36.48; H, 4.13; N, 3.00.

Table S1. NMR data for **5-Et**		
Atom	Chemical Shift (ppm)	Splitting
H_m	8.10	d, $^3J_{HH}$ = 8.6 Hz
H_o	7.56	d, $^3J_{HH}$ = 8.6 Hz
H3	1.84	dq, $^2J_{PH}$ = 7.6 Hz, $^3J_{HH}$ = 7.7 Hz
H4	1.22	dt, $^3J_{PH}$ = 18.2 Hz, $^3J_{HH}$ = 7.7 Hz
C_p	145.8	
C_o	132.8	
C_i	132.5	
C_m	123.4	
C2	102.3	
C3	17.8	
C4	8.9	
P1	37.9	s

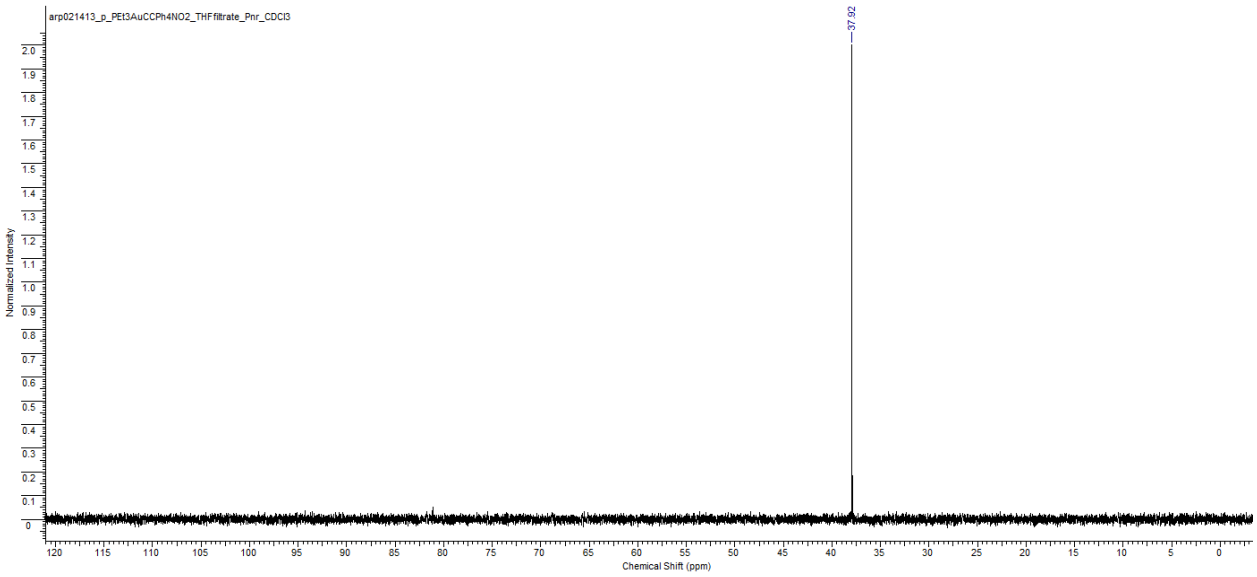


Figure S1. $^{31}P\{H\}$ NMR – 121.4 MHz, $CDCl_3$ (**5-Et**)

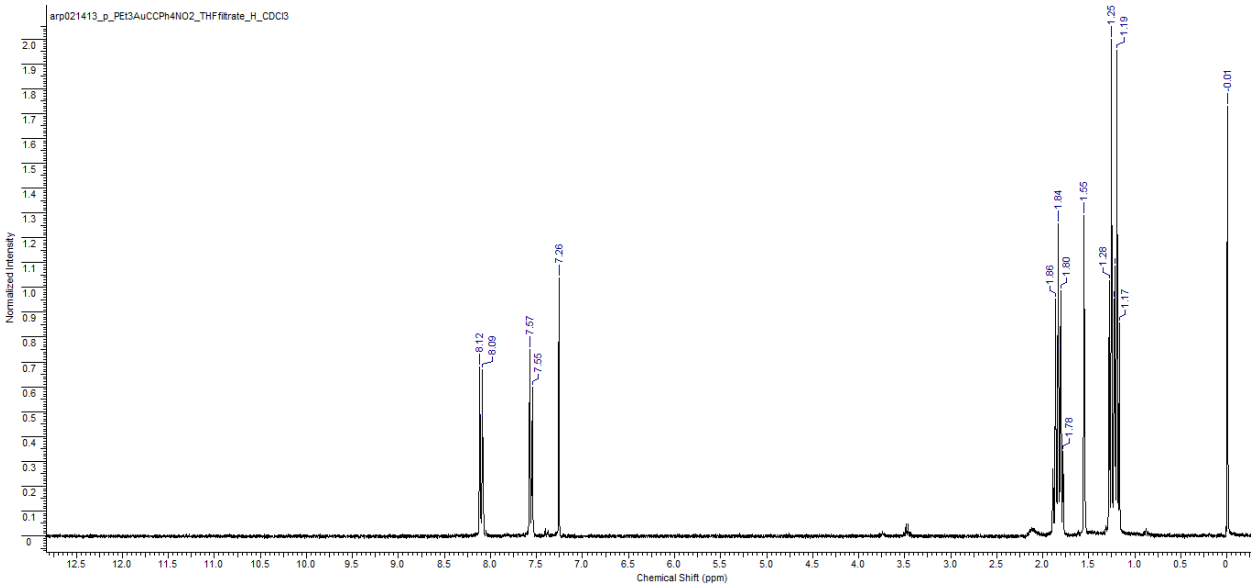


Figure S2. ^{1}H NMR – 300 MHz, $CDCl_3$ (**5-Et**)

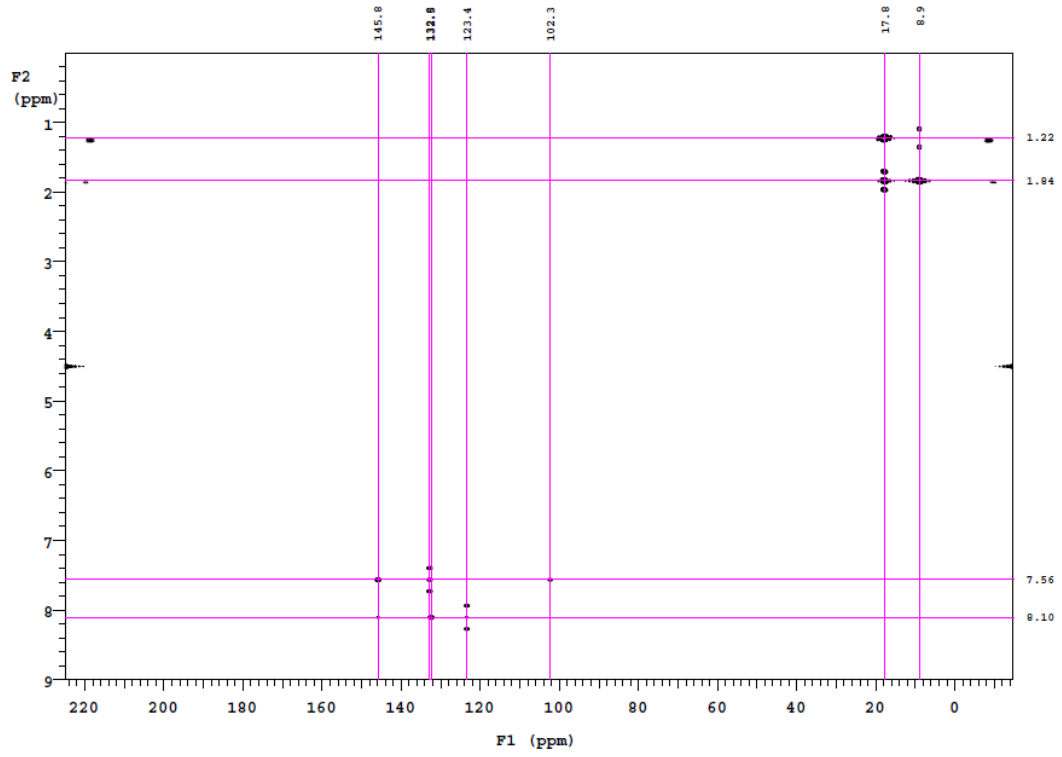


Figure S3. ^{1}H-^{13}C gHMBC spectrum - 500 MHz, $CDCl_3$ (**5-Et**)

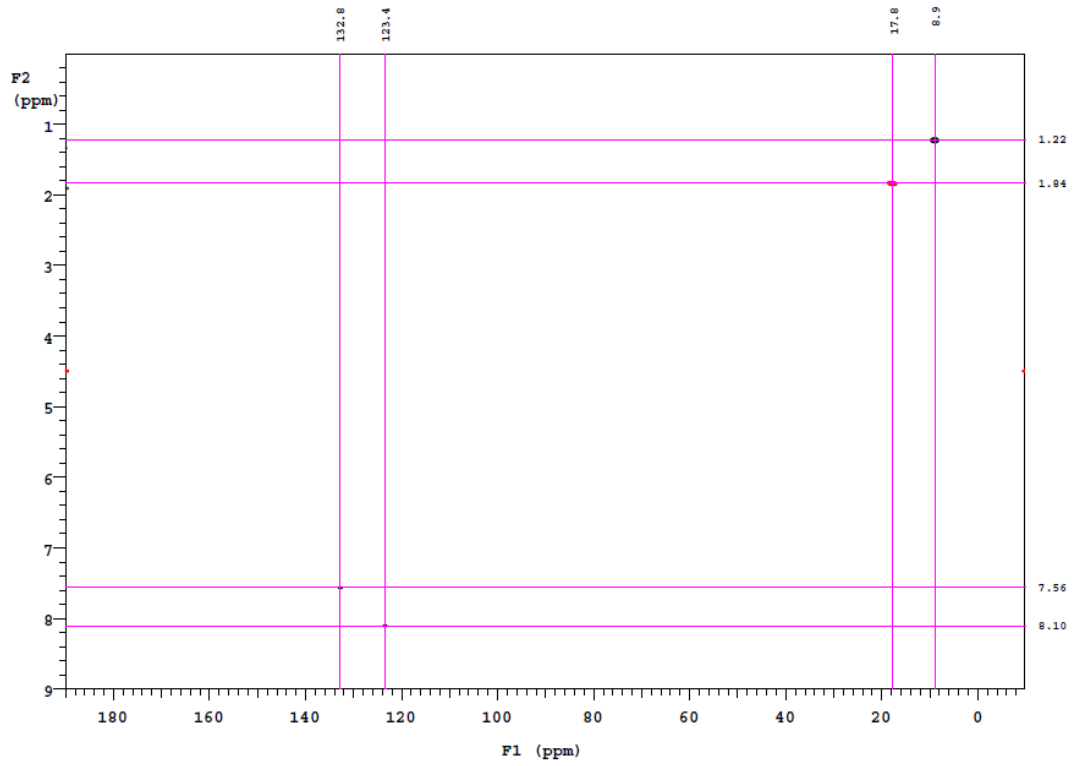
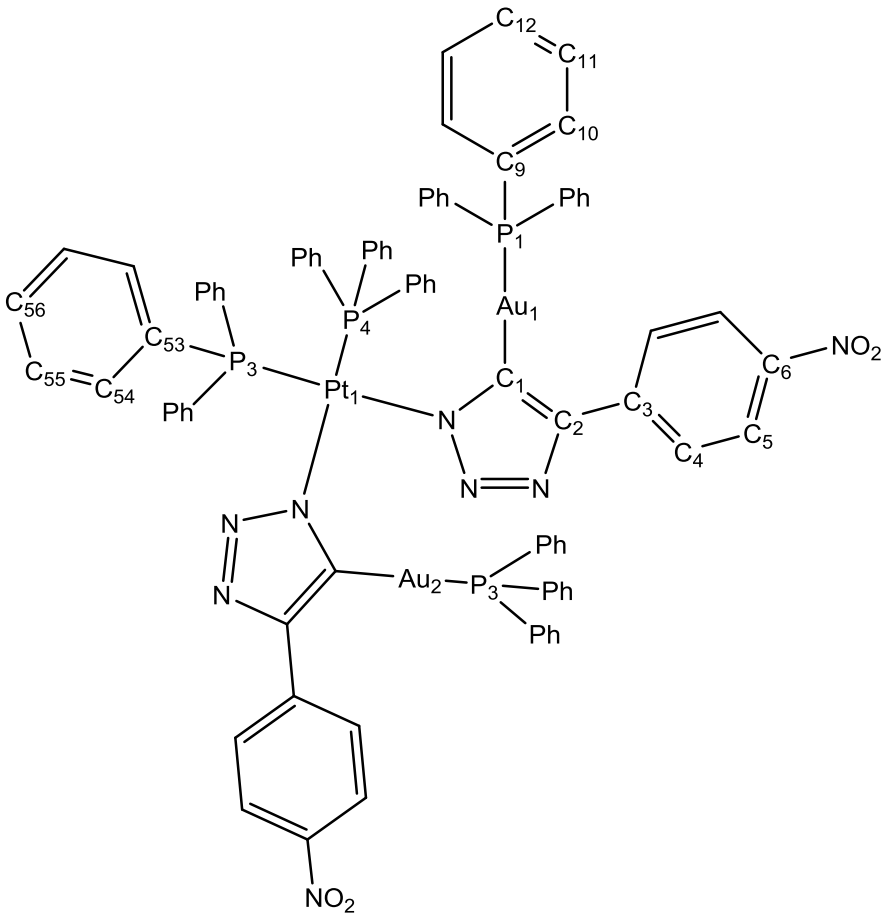


Figure S4. ^{1}H-^{13}C gHSQC spectrum - 500 MHz, $CDCl_3$ (**5-Et**)

Synthesis and characterization of *cis*-**6-Ph**.



To a vial containing *cis*-$(PPh_3)_2Pt(N_3)_2$ (**4-Ph**) (15.5 mg, 0.0193 mmol) and $PPh_3Au^{I}C{\equiv}CC_6H_4NO_2$) (**5-Ph**) (23.4 mg, 0.0386 mmol), was added 0.6 ml C_6D_6. This suspension (the gold complex is fully soluble in benzene, while the platinum complex is only sparingly soluble) was transferred to a sealable J. Young NMR tube, with the assistance of another 0.2 ml of C_6D_6. The NMR tube was sealed, and the headspace removed with a freeze-pump-thaw cycle. The reaction vessel was then heated at 50 °C for 3.5 h. Within the first 10 min all the material dissolved, and within the first 30 min, large amounts of yellow crystalline solid began to form on the walls of the tube. After 3.5 h, the sample was allowed to slowly cool to room temperature, and additional product crystallized overnight. The yellow crystalline solid was isolated by decanting the supernatant and was washed with pentane to provide analytically pure *cis*-**6-Ph** in 90% yield (35.1 mg, 0.0174 mmol). NMR ^{1}H (300 MHz, $CDCl_3$): δ 8.04 (d, $^{3}J_{HH}$ = 8.7 Hz, 4H, H4), 7.95 (m, 12H, H10), 7.83 (d, $^{3}J_{HH}$ = 9.0 Hz, 4H, H5), 7.60 (m, 18H, H11/H12), 7.46 (t, $^{3}J_{HH}$ = 8.8 Hz, 12H, H54), 7.06 (t, $^{3}J_{HH}$ = 8.8 Hz, 6H, H56), 6.73 (t, $^{3}J_{HH}$ = 7.2 Hz, 6H, H55). ^{13}C NMR Shifts (indirect detection through ^{1}H-^{13}C gHMBC and ^{1}H-^{13}C gHSQC (500 MHz, $CDCl_3$)): δ 151.5 (C2), 144.4 (C3), 144.2 (C6), 134.9 (C10), 134.7 (C54), 131.6 (C9), 131.2(C12), 129.8 (C56), 129.3 (C11), 128.4 (C53), 127.5 (C55), 125.5 (C4), 123.1 (C5). NMR ^{31}P (121.4 MHz, $CDCl_3$): δ 43.53 (s, (P1)), 7.79 (s, w/ satellites: $^{1}J_{Pt\text{-}P}$= 3095 Hz, (P3)). Anal. Calcd for $C_{88}H_{68}Au_2N_8O_4P_4Pt$: C, 52.47; H, 3.40; N, 5.56. Found: C, 52.38; H, 3.48; N, 5.71.

Table S2. NMR data for *cis*-**6-Ph**		
Atom	Chemical Shift (ppm)	Splitting
H4	8.04	d, $^{3}J_{HH}$ = 8.7 Hz
H10	7.95	m
H5	7.83	d, $^{3}J_{HH}$ = 8.7 Hz
H11	7.60	m
H12	7.60	m
H54	7.46	t, $^{3}J_{HH}$ = 8.8 Hz
H56	7.06	t, $^{3}J_{HH}$ = 8.8 Hz
H55	6.73	t, $^{3}J_{HH}$ = 7.2 Hz
C2	151.5	
C3	144.4	
C6	144.2	
C10	134.9	
C54	134.7	
C9	131.6	
C12	131.2	
C56	129.8	
C11	129.3	
C53	128.4	
C55	127.5	
C4	125.5	
C5	123.1	
P1	43.53	s
P3	7.79	$^{1}J_{Pt-P}$= 3095 Hz

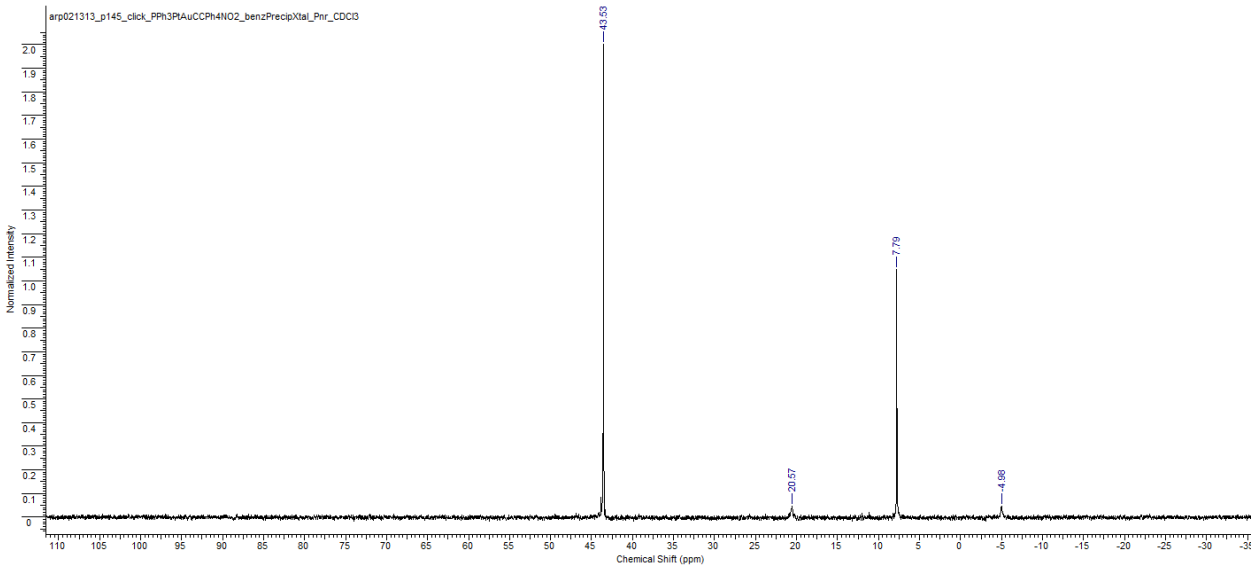


Figure S5. $^{31}P\{H\}$ NMR – 121.4 MHz, $CDCl_3$ (*cis*-**6-Ph**)

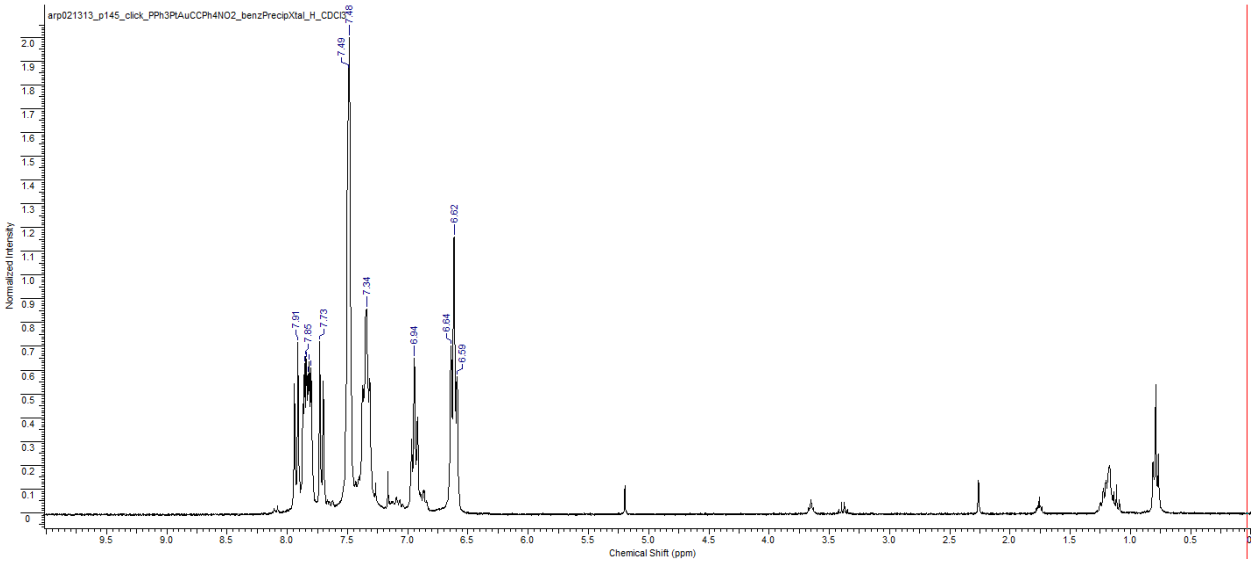


Figure S6. ^{1}H NMR – 300 MHz, $CDCl_3$, (*cis*-**6-Ph**)

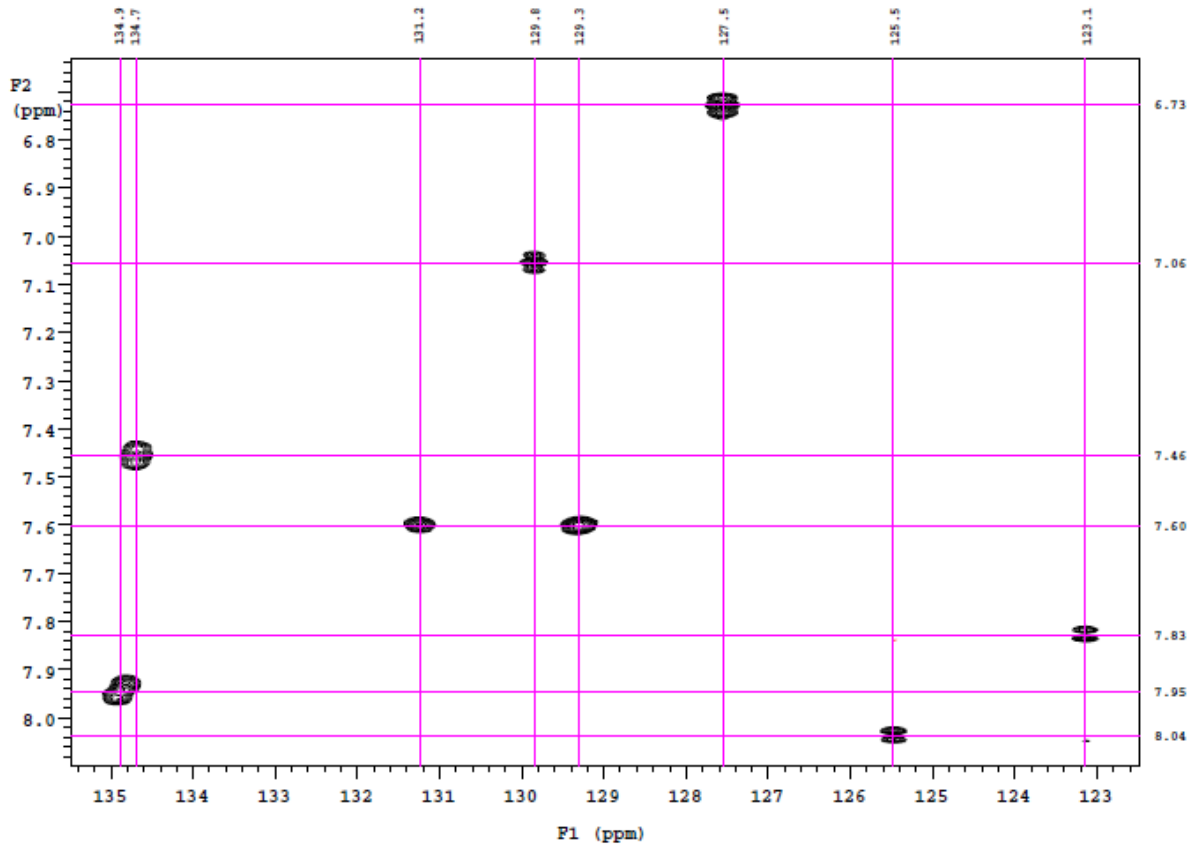


Figure S7. ^{1}H-^{13}C gHSQC – 500 MHz, $CDCl_3$, (*cis*-**6-Ph**)

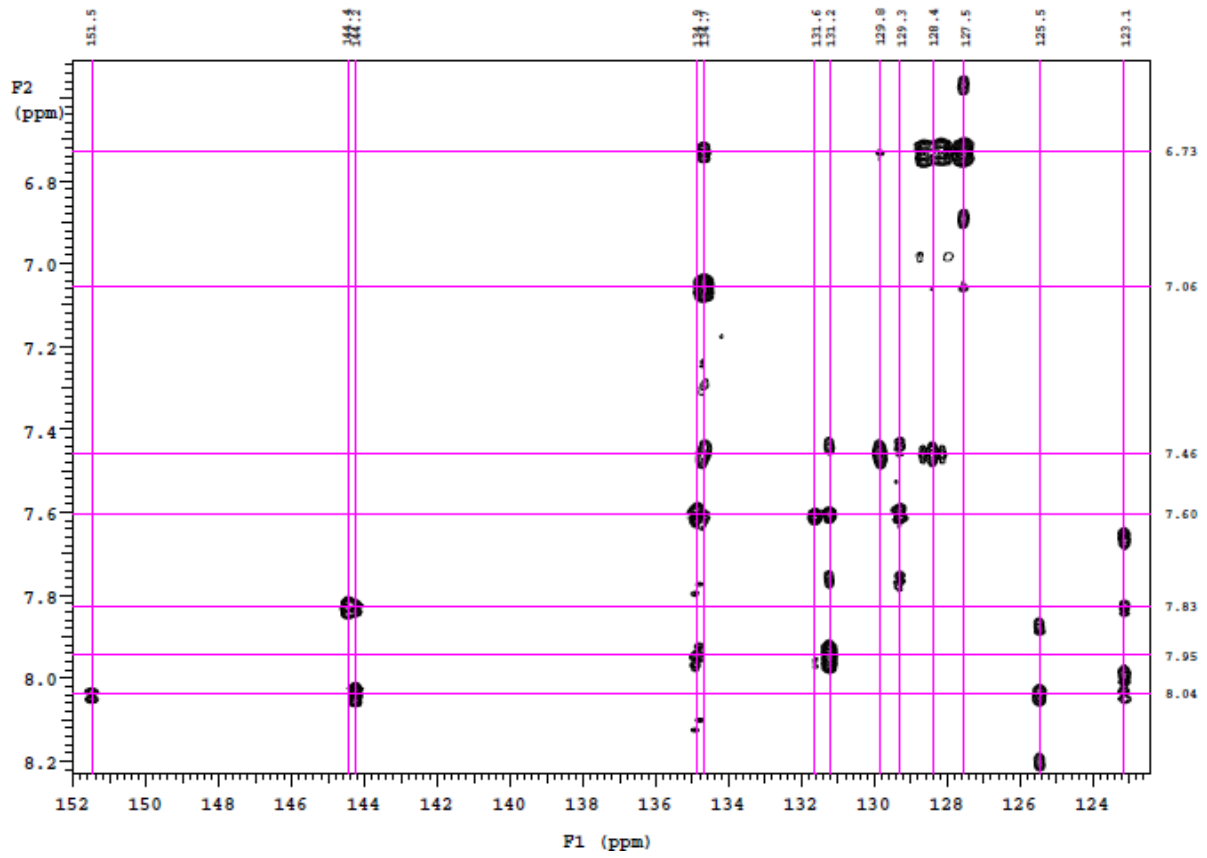
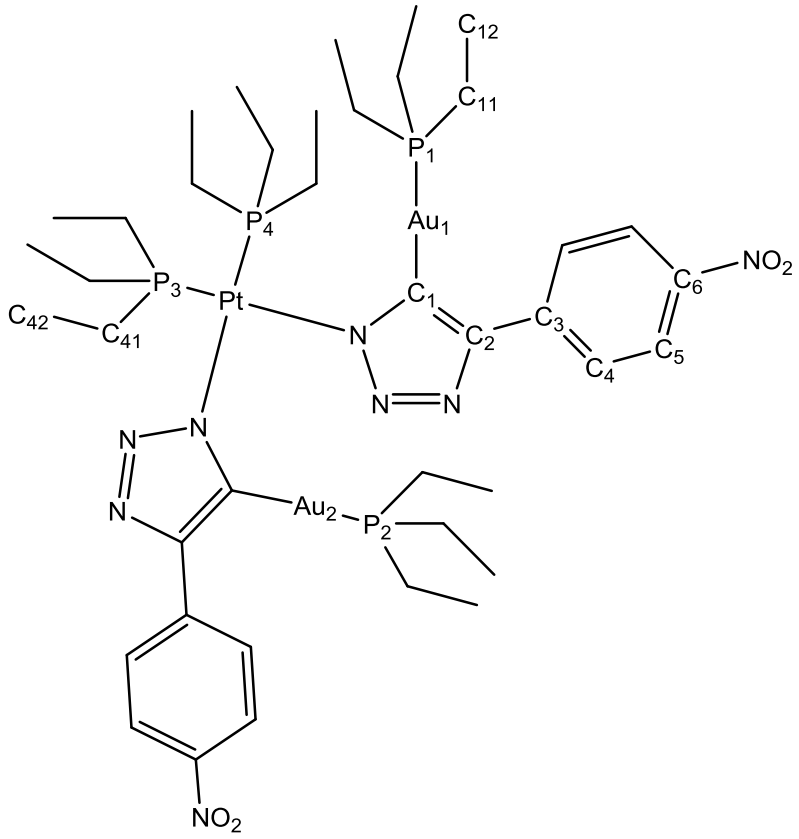


Figure S8. ^{1}H-^{13}C gHMBC – 500 MHz, $CDCl_3$, (*cis*-**6-Ph**)

Synthesis and characterization of *cis*-**6-Et**.



To a vial containing *cis*-$(PEt_3)_2Pt(N_3)_2$ (**4-Et**) (14.5 mg, 0.0282 mmol) and $PEt_3Au^{I}C{\equiv}CC_6H_4NO_2$ (**5-Et**) (26.0 mg, 0.0564 mmol), was added 0.6 ml C_6D_6. This suspension (the gold complex is fully soluble in benzene, while the platinum complex is only sparingly soluble) was transferred to a sealable J. Young NMR tube, with the assistance of another 0.2 ml of C_6D_6. The NMR tube was sealed, and the headspace removed with a freeze-pump-thaw cycle. The NMR tube was then heated at 50 °C for 16 h. Within the first 10 min all the material dissolved, and the solution turned yellow/green in color. After 16 h, the sample was allowed to slowly cool to room temperature, and additional product was allowed to crystallize overnight. The solid material (a 60:23:17 mixture of *cis*-**6-Et**, *trans*-**6-Et**, and **7** by ^{31}P NMR) was isolated by decanting the mother liquor, and washing with pentane. Pentane diffusion into a chloroform solution of the mixture selectively precipitates a mixture of *cis*-**6-Et** and **7** in crystalline form. Complex *cis*-**6-Et** can be isolated from **7** by washing with cold benzene. Yield of *cis*-**6-Et** 14.2 mg, 35% yield. NMR ^{1}H (300 MHz, $CDCl_3$): δ 8.31 (d, $^{3}J_{HH}$ = 8.95 Hz, 4H, H4), 7.83 (d, $^{3}J_{HH}$ = 8.6 Hz, 4H, 5H), 1.77 (d, $^{3}J_{HH}$ = 8.6 Hz, 6H, H11D), 1.77 (d, $^{3}J_{HH}$ = 8.95 Hz, 6H, H11A), 1.73 (ddq, $^{2}J_{HH}$ = 13.2 Hz, $^{2}J_{PH}$ = 13.2 Hz, $^{3}J_{HH}$ = 7.7 Hz, 6H, H41B), 1.29 (ddq, $^{2}J_{HH}$ = 13.6 Hz, $^{2}J_{PH}$ = 13.6 Hz, $^{3}J_{HH}$ = 7.6 Hz, 6H, H41A), 1.02 (dt, $^{3}J_{PH}$ = 8.0 Hz, $^{3}J_{HH}$ = 7.9 Hz, 18H, H42), 0.99 (dt, $^{3}J_{PH}$ = 9.1 Hz, $^{3}J_{HH}$ = 8.4 Hz, 18H, H12). ^{13}C NMR Shifts (indirect detection through ^{1}H-^{13}C gHMBC and ^{1}H-^{13}C gHSQC (500 MHz, $CDCl_3$)): δ 150.7 (C2), 144.3 (C6), 144.1 (C3), 124.8 (C4), 123.5 (C5), 17.4 (C11), 14.9 (C41), 8.9 (C12), 8.5 (C42). NMR ^{31}P (121.4 MHz, $CDCl_3$): δ 40.08 (s, (P1)), 1.53 (s, w/ satellites: $^{1}J_{Pt\text{-}P}$= 2980.1Hz, (P3)). Anal. Calcd for $C_{40}H_{68}Au_2N_8O_4P_4Pt$: C, 33.41; H, 4.77; N, 7.79. Found: C, 33.49; H, 4.61; N, 7.90.

Table S3. NMR data for *cis*-**6-Et**		
Atom	Chemical Shift (ppm)	Splitting
H4	8.31	d, $^{3}J_{HH}$ = 8.6 Hz
H5	7.83	d, $^{3}J_{HH}$ = 8.8 Hz
H11D	1.77	dq, $^{2}J_{PH}$ = 7.9 Hz, $^{3}J_{HH}$ = 7.9 Hz
H11A	1.77	dq, $^{2}J_{PH}$ = 7.9 Hz, $^{3}J_{HH}$ = 7.9 Hz
H41B	1.73	ddq, $^{2}J_{HH}$ = 13.2 Hz, $^{2}J_{PH}$ = 13.2 Hz, $^{3}J_{HH}$ = 7.7 Hz
H41A	1.29	ddq, $^{2}J_{HH}$ = 13.6 Hz, $^{2}J_{PH}$ = 13.6 Hz, $^{3}J_{HH}$ = 7.6 Hz
H42	1.02	dt, $^{3}J_{PH}$ = 8.0 Hz, $^{3}J_{HH}$ = 7.9 Hz
H12	0.99	dt, $^{3}J_{PH}$ = 9.1 Hz, $^{3}J_{HH}$ = 8.4 Hz
C2	150.7	
C6	144.3	
C3	144.1	
C4	124.8	
C5	123.5	
C11	17.4	
C41	14.9	
C12	8.9	
C42	8.5	
P1	40.8	
P3	1.53	$^{1}J_{Pt\text{-}P}$= 2980.1 Hz

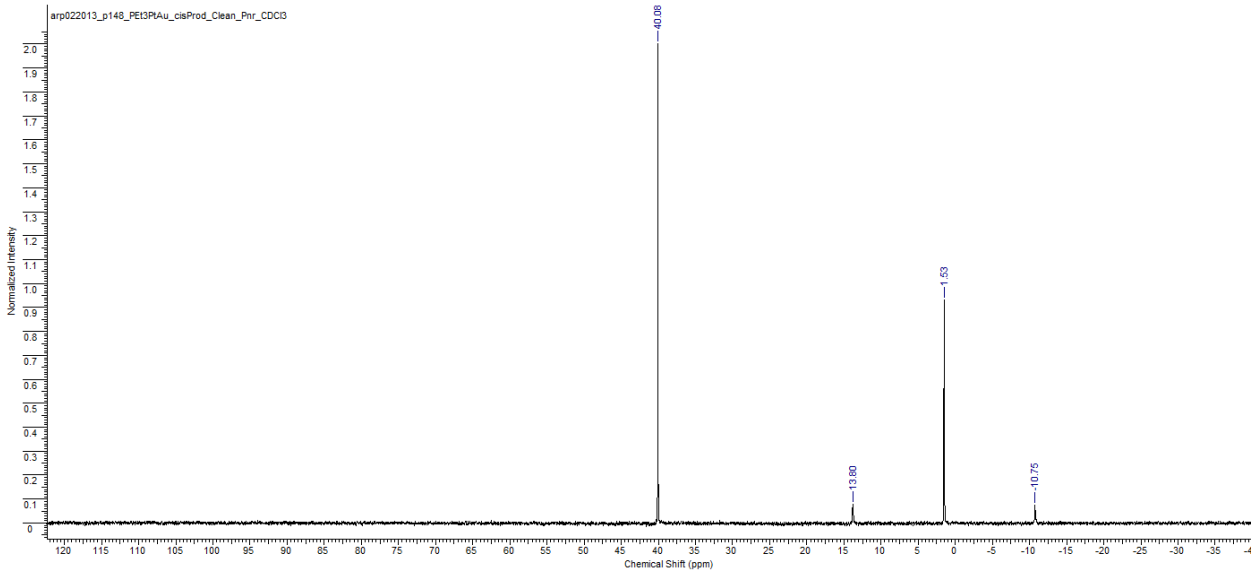


Figure S9. $^{31}P\{H\}$ NMR – 121.4 MHz, $CDCl_3$ (*cis*-**6-Et**)

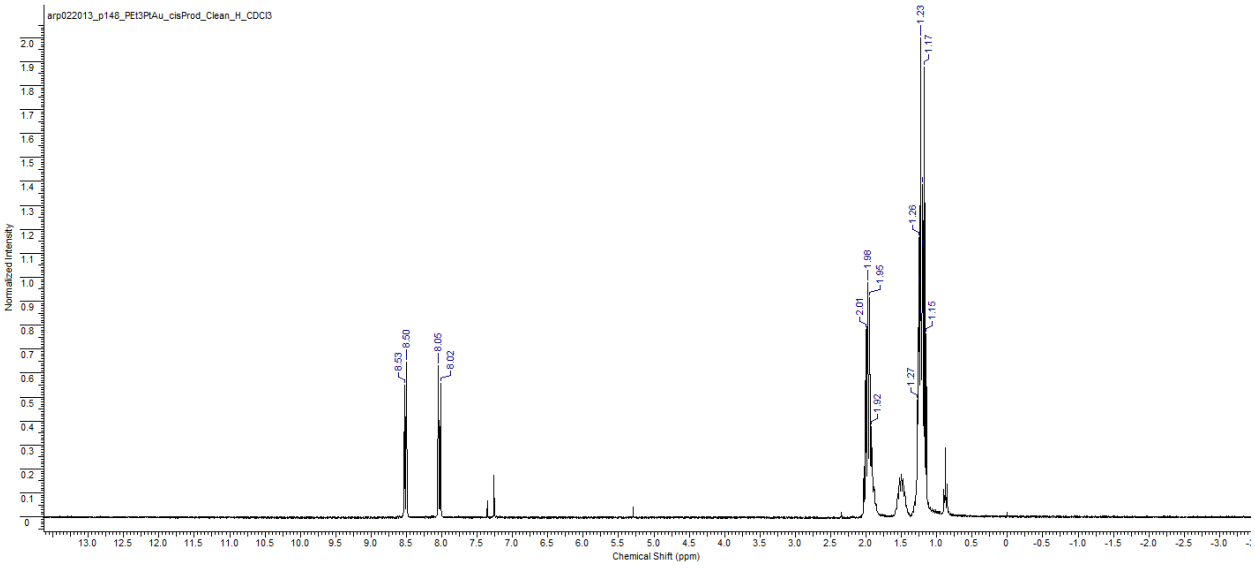


Figure S10. ^{1}H NMR – 300 MHz, $CDCl_3$ (*cis*-**6-Et**)

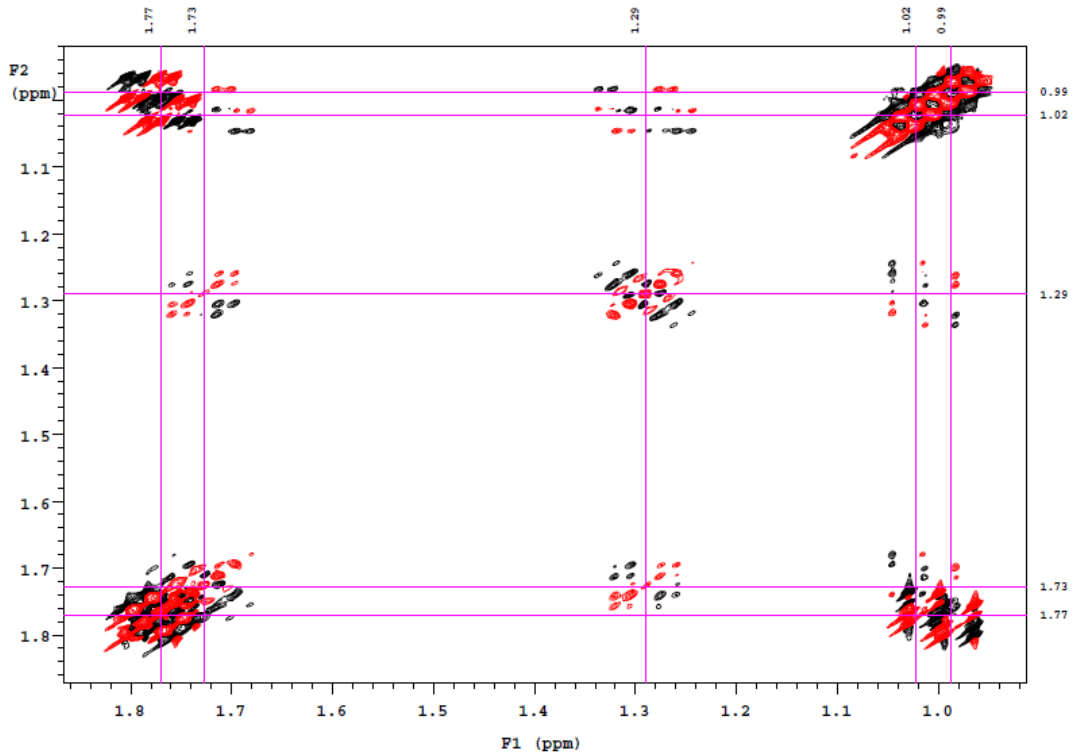


Figure S11. ^{1}H-^{1}H DQCOSY spectrum – 500 MHz, $CDCl_3$, (*cis*-**6-Et**)

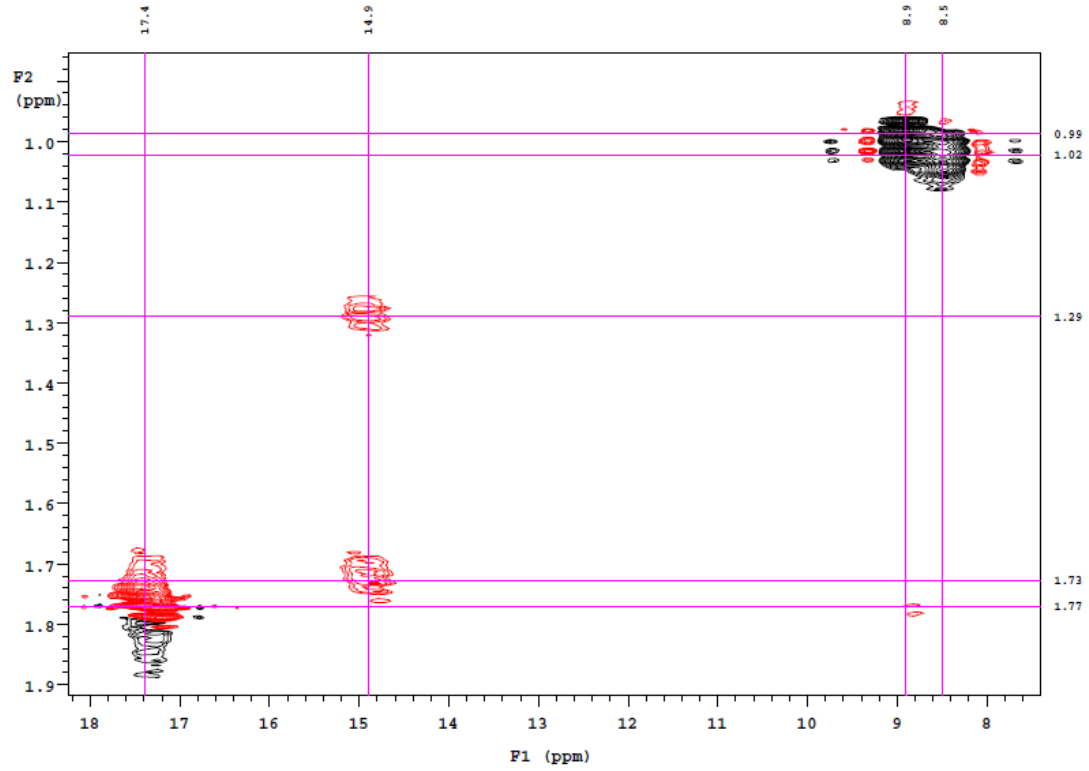


Figure S12. ^{1}H-^{13}C gHSQC spectrum - 500 MHz, $CDCl_3$, (*cis*-**6-Et**)

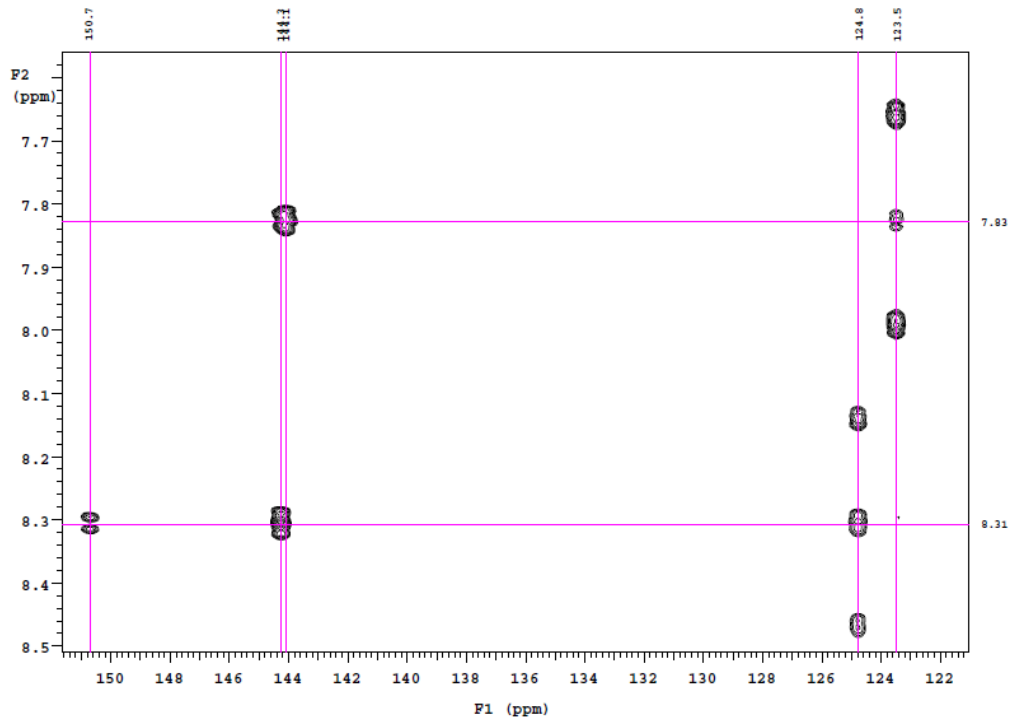


Figure S13. ^{1}H-^{13}C gHMBC (expanded region F1: 152-121 ppm) spectrum, 500 MHz, $CDCl_3$, (*cis*-**6-Et**)

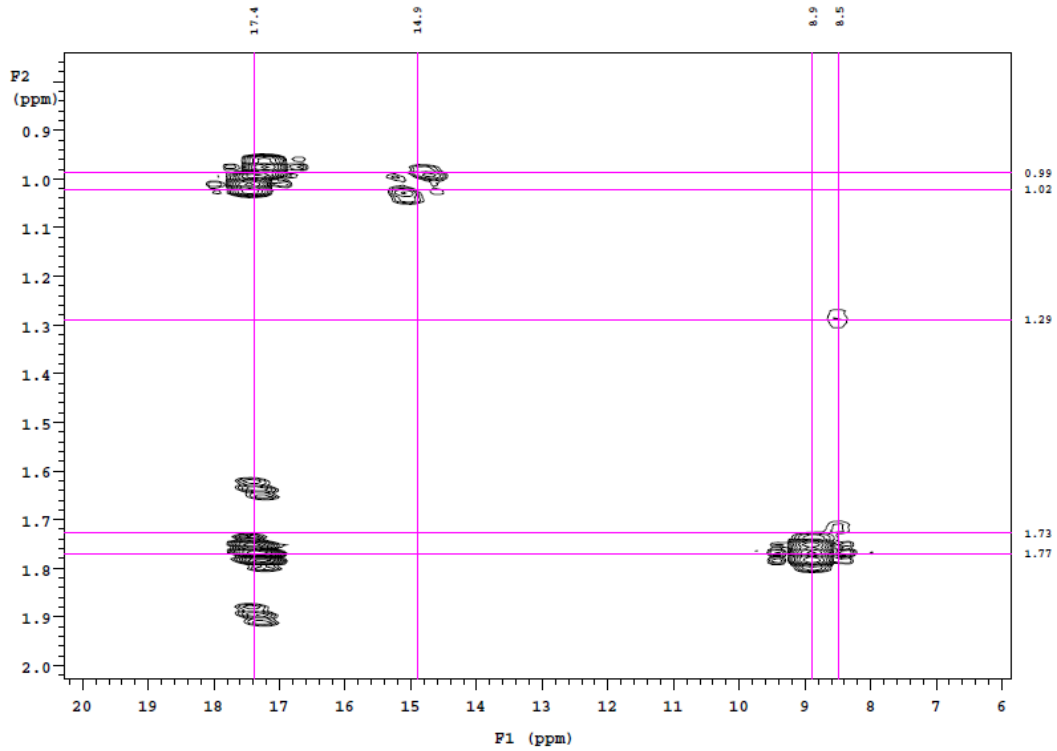
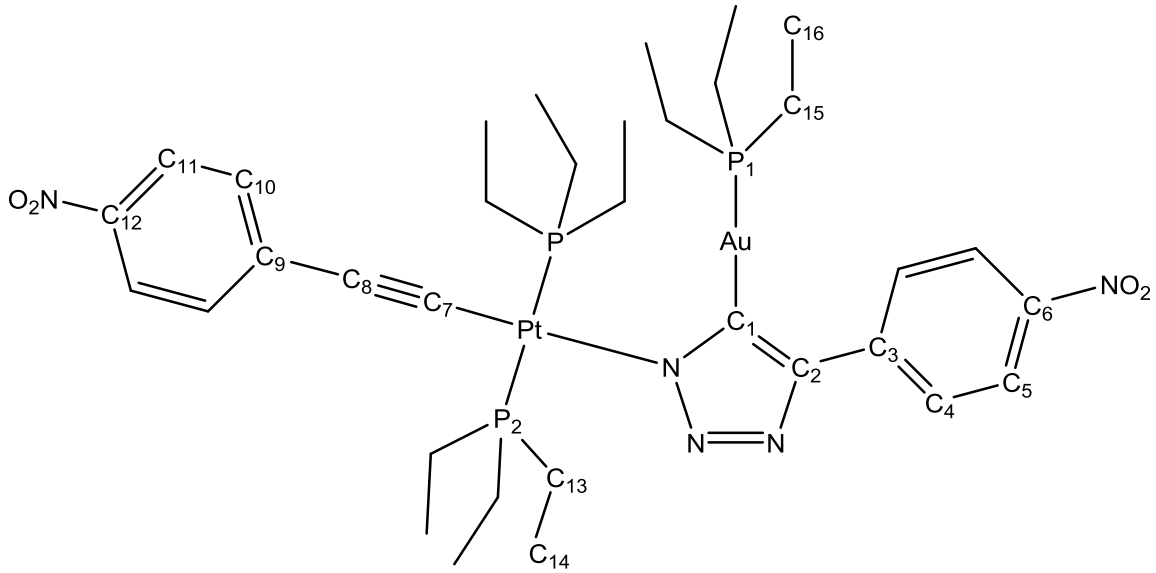


Figure S14. ^{1}H-^{13}C gHMBC (expanded region F1: 20-6 ppm) spectrum - 500 MHz, $CDCl_3$, (*cis*-**6-Et**)

Synthesis and characterization of **8**.



To a vial containing *cis*-$(PEt_3)_2Pt(N_3)_2$ (**4-Et**) (14.5 mg, 0.0282 mmol) and $PEt_3Au^IC{\equiv}CC_6H_4NO_2$ (**5-Et**) (26.0 mg, 0.0564 mmol), was added 0.6 ml C_6D_6. This suspension (the gold complex is fully soluble in benzene, while the platinum complex is only sparingly soluble) was transferred to a sealable J. Young NMR tube, with the assistance of another 0.2 ml of C_6D_6. The NMR tube was sealed, and the headspace removed with a freeze-pump-thaw cycle. The NMR tube was then heated at 50 °C for 16 h. Within the first 10 min all the material dissolved, and the solution turned yellow/green in color. After 16 h, the sample was immediately filtered to remove a mixture of crystalline solid which consisted predominately of *cis*-**6-Et** and **7**, with a very minor amount of **8**. The volume of the benzene filtrate was allowed to reduce via slow evaporation by approximately 0.1 ml, and was filtered again. This filtrate was again allowed to reduce to approximately 0.2 ml by slow evaporation, which yielded a final crop of crystalline material. This final crop of crystalline material (a 95:5 mixture of **8**, and **7** by NMR) was isolated by decanting the mother liquor, and washing the solid material with pentane. Pure **8** was unable to be obtained via further fractional recrystallizations from the 5 molar percent impurity of **7**. Yield of **8** is 19.8% yield based on platinum). NMR ^{1}H (300 MHz, $CDCl_3$): δ 8.59 (d, $^3J_{HH}$ = 8.2 Hz, 2H, (H4)), 8.17 (d, $^3J_{HH}$ = 8.2 Hz, 2H, (H5)), 8.12 (d, $^3J_{HH}$ = 8.2 Hz, 2H, (H11)), 7.31 (d, $^3J_{HH}$ = 8.2 Hz, 2H, (H10)), 1.92 (dq, $^2J_{PH}$ = 8.5 Hz, $^3J_{HH}$ = 7.9 Hz, (H15)), 1.82 (d, $^3J_{HH}$ = 8.2 Hz, (H13A)), 1.77 (ddq, $^2J_{HH}$ = 8.1 Hz, $^2J_{PH}$ = 8.1 Hz, $^3J_{HH}$ = 7.3 Hz, (H13B)), 1.34 (dt, $^3J_{PH}$ = 17.6 Hz, $^3J_{HH}$ = 7.7 Hz, (H16)), 1.18 (dt, $^3J_{PH}$ = 16.1 Hz, $^3J_{HH}$ = 8.1 Hz, (H14)). ^{13}C NMR Shifts (indirect detection through ^{1}H-^{13}C gHMBC and ^{1}H-^{13}C gHSQC (500 MHz, $CDCl_3$)): δ 151.8 (C2), 144.9 (C6), 144.6 (C12), 143.6 (C3), 135.8 (C9), 131.1 (C10), 125.1 (C4), 123.8 (C5), 123.7 (C11), 106.6 (C8), 17.9 (C15), 14.4 (C13), 8.9 (C16), 8.1 (C14), (note: C1 and C7 are not observed). NMR ^{31}P (121.4 MHz, $CDCl_3$): δ 40.0 (s, (P1)), 13.8 (s, w/ satellites: $^1J_{Pt\text{-}P}$= 2458.1 Hz, (P2)).

Table S4. NMR data for **8**		
Atom	Chemical Shift (ppm)	Splitting
H4	8.59	d, $^{3}J_{HH}$ = 8.2 Hz
H5	8.17	d, $^{3}J_{HH}$ = 8.2 Hz
H11	8.12	d, $^{3}J_{HH}$ = 8.2 Hz
H10	7.31	d, $^{3}J_{HH}$ = 8.2 Hz
H15	1.92	dq, $^{2}J_{PH}$ = 8.5 Hz, $^{3}J_{HH}$ = 7.9 Hz
H13A	1.82	ddq, $^{2}J_{HH}$ = 8.1 Hz, $^{2}J_{PH}$ = 8.1 Hz, $^{3}J_{HH}$ = 7.3 Hz
H13B	1.77	ddq, $^{2}J_{HH}$ = 7.9 Hz, $^{2}J_{PH}$ = 7.9 Hz, $^{3}J_{HH}$ = 7.3 Hz
H16	1.34	dt, $^{3}J_{PH}$ = 17.6 Hz, $^{3}J_{HH}$ = 7.7 Hz
H14	1.18	dt, $^{3}J_{PH}$ = 16.1 Hz, $^{3}J_{HH}$ = 8.1 Hz
C2	151.8	
C6	144.9	
C12	144.6	
C3	143.6	
C9	135.8	
C10	131.1	
C4	125.1	
C5	123.8	
C11	123.7	
C8	106.6	
C15	17.9	
C13	14.4	
C16	8.9	
C14	8.1	
P1	40.0	s
P2	13.8	$^{1}J_{Pt-P}$= 2458.1 Hz

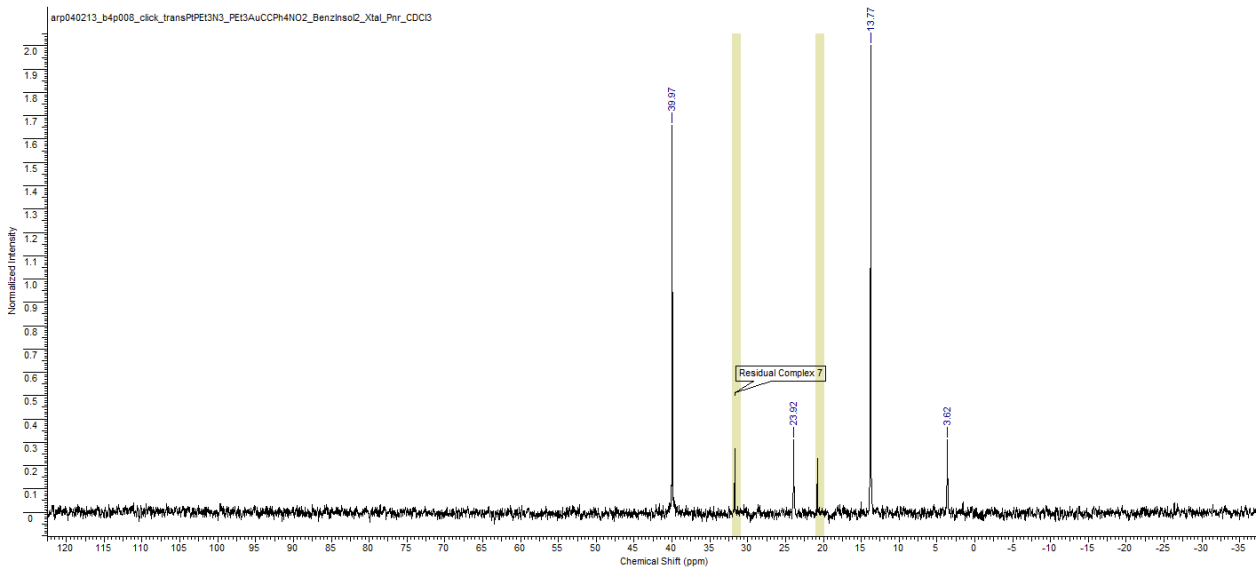


Figure S15. $^{31}P\{H\}$ NMR – 121.4 MHz, $CDCl_3$ (**8**)

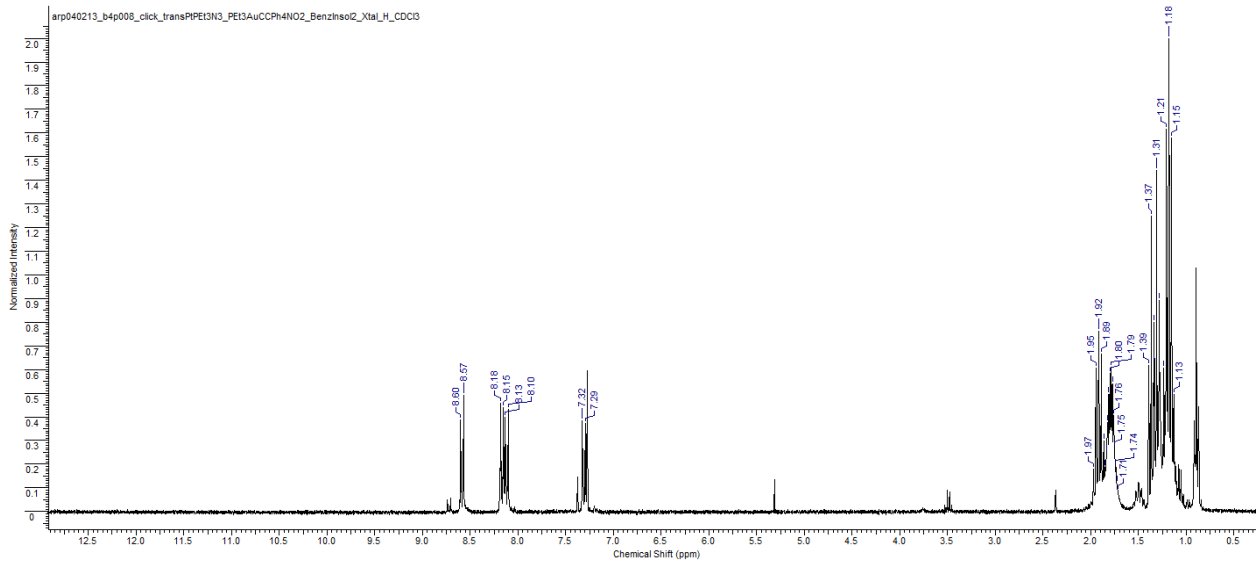


Figure S16. ^{1}H NMR – 300 MHz, $CDCl_3$ (**8**)

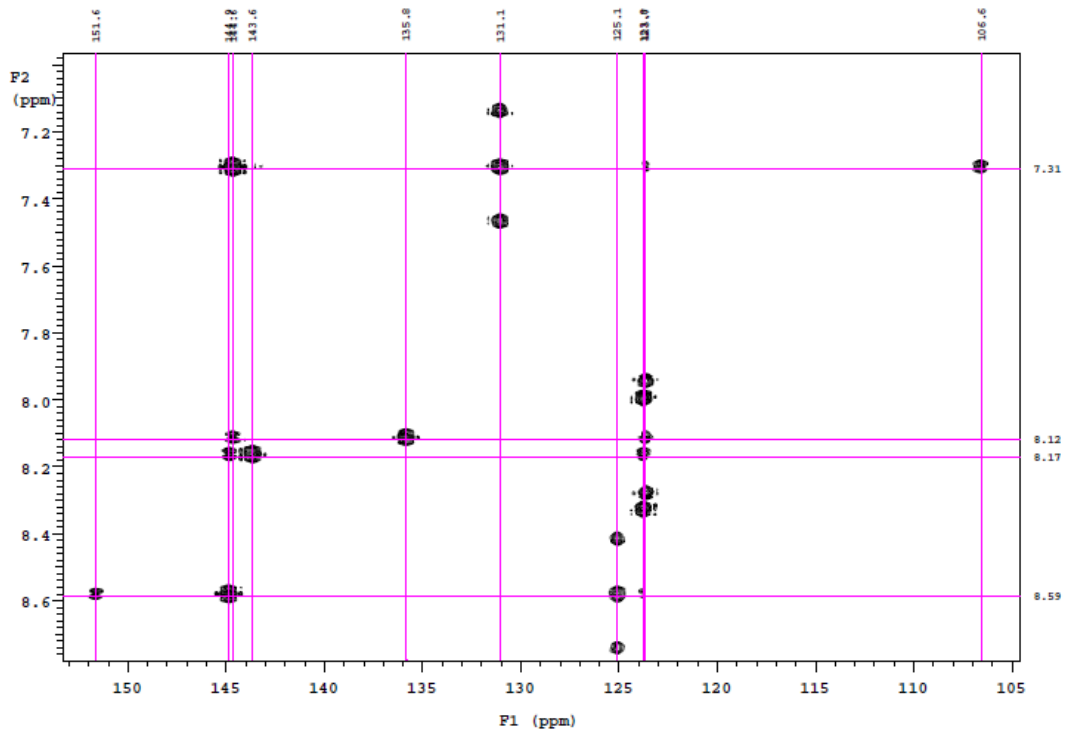


Figure S17. ^{1}H-^{13}C gHMBC (expanded region F1: 153-105 ppm, F2: 8.8-7.0 ppm) spectrum, 500 MHz, $CDCl_3$, (**8**)

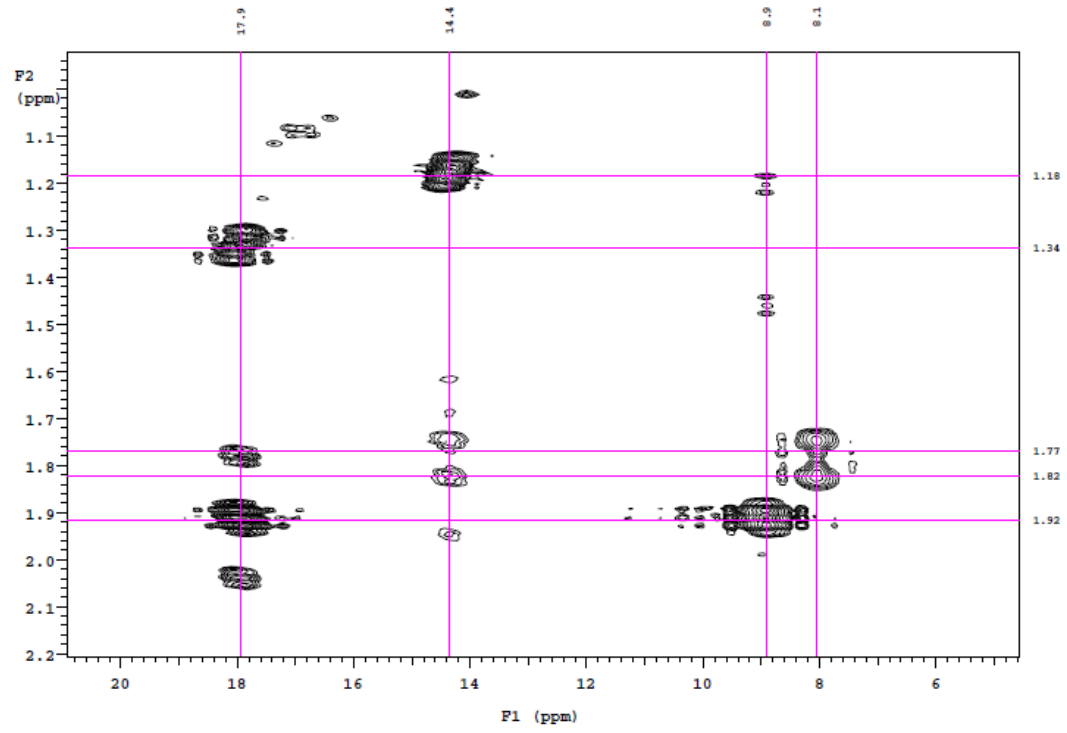
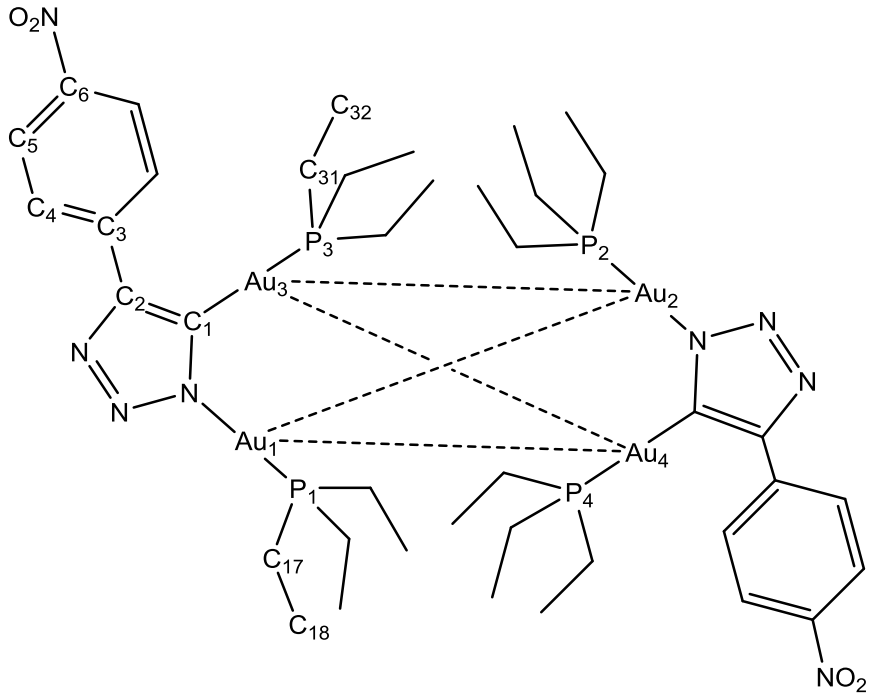


Figure S18. ^{1}H-^{13}C gHMBC (expanded region F1: 21-5 ppm, F2: 2.2-1.0 ppm) spectrum - 500 MHz, $CDCl_3$, (**8**)

Synthesis and characterization of **7**.



To a chloroform solution (2 ml) of $PEt_3Au^{I}C{\equiv}CC_6H_4NO_2$ (**5-Et**) (60 mg, 0.130 mmol) was added $PEt_3Au^{I}N_3$ (**9**) (46.5 mg, 0.130 mmol). This reaction mixture was allowed to stir overnight, yielding a dark gold/orange solution containing **7**, which was isolated by removing the solvent in-vacuo, and washing the residue with pentane. Analytically pure material could be obtained by diffusion of pentane into a CH_2Cl_2 solution of **7**, which yields long, needle-like yellow crystals in 88% yield (93 mg, 0.0568 mmol). NMR ^{1}H (300 MHz, $CDCl_3$): δ 8.70 (d, $^{3}J_{HH}$ = 8.9 Hz, 4H, H5), 8.14 (d, $^{3}J_{HH}$ = 8.7 Hz, 4H, H4), 1.51 (dq, $^{2}J_{PH}$ = 7.6 Hz, $^{3}J_{HH}$ = 7.6 Hz, 12H, H17), 1.47 (dq, $^{2}J_{PH}$ = 7.5 Hz, $^{3}J_{HH}$ = 7.5 Hz, 12H, H31), 1.10 (dt, $^{3}J_{PH}$ = 6.7 Hz, $^{3}J_{HH}$ = 7.7 Hz, 18H, H32), 1.04 (dt, $^{3}J_{PH}$ = 6.7 Hz, $^{3}J_{HH}$ = 7.7 Hz, 18H, H18). ^{13}C NMR Shifts (indirect detection through ^{1}H-^{13}C gHMBC and ^{1}H-^{13}C gHSQC (500 MHz, $CDCl_3$)): δ 151.1 (C2), 145.1 (C6), 143.7 (C3), 126.0 (C4), 123.6 (C5), 17.2 (C31), 16.6 (C17), 8.5 (C32), 8.5 (C18). NMR ^{31}P{^{1}H} (121.4 MHz, $CDCl_3$): δ 31.7 (s, P3/P4), 20.8 (s, P1/P2). Anal. Calcd for $C_{40}H_{68}Au_4N_8O_4P_4$: C, 29.35; H, 4.19; N, 6.85. Found: C, 29.42; H, 4.29; N, 6.98.

Table S5. NMR data for **7**		
Atom	Chemical Shift (ppm)	Splitting
H5	8.70	d, $^{3}J_{HH}$ = 8.7 Hz
H4	8.14	d, $^{3}J_{HH}$ = 8.4 Hz
H17	1.51	dq, $^{2}J_{PH}$ = 7.6 Hz, $^{3}J_{HH}$ = 7.6 Hz
H31	1.47	dq, $^{2}J_{PH}$ = 7.5 Hz, $^{3}J_{HH}$ = 7.5 Hz
H32	1.10	dt, $^{3}J_{PH}$ = 5.4 Hz, $^{3}J_{HH}$ = 7.4 Hz
H18	1.04	dt, $^{3}J_{PH}$ = 6.7 Hz, $^{3}J_{HH}$ = 7.7 Hz
C2	151.1	
C6	145.1	
C3	143.7	
C4	126.0	
C5	123.6	
C31	17.2	
C17	16.6	
C32	8.5	
C18	8.5	
P3, P4	31.7	s
P1, P2	20.8	s

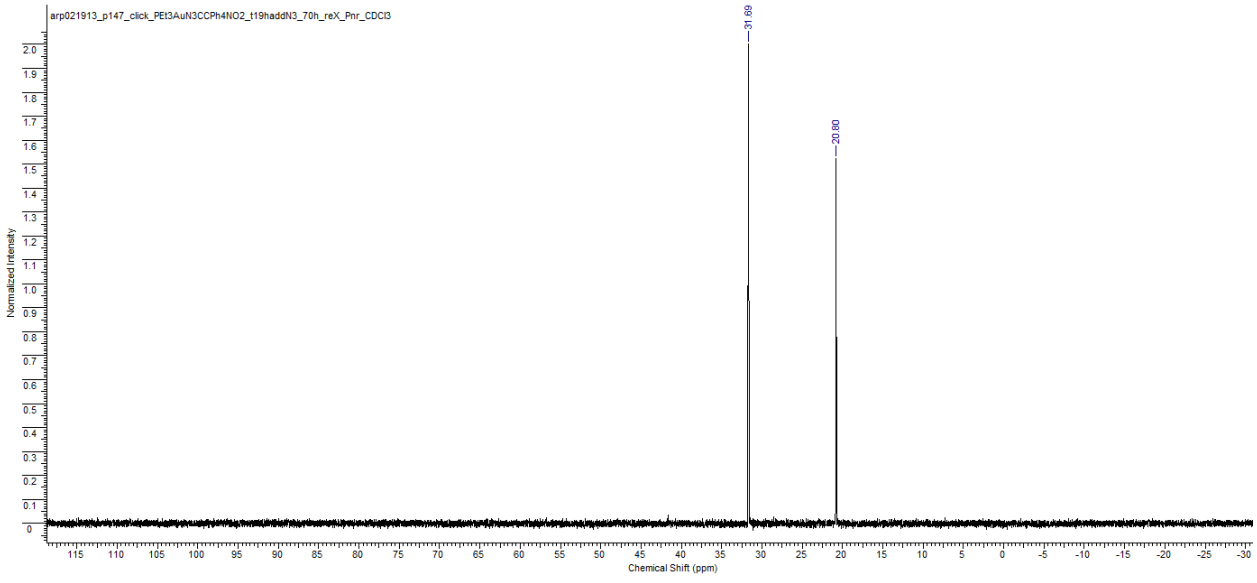


Figure S19. $^{31}P\{H\}$ NMR – 121.4 MHz, $CDCl_3$, (**7**)

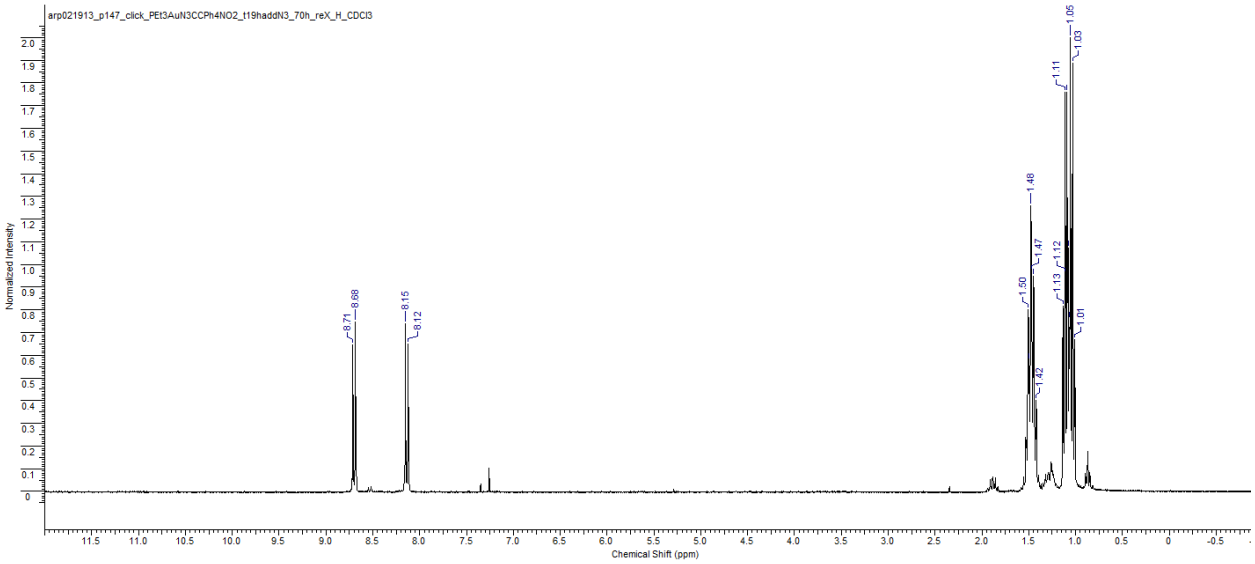


Figure S20. ^{1}H NMR – 300 MHz, $CDCl_3$, (**7**)

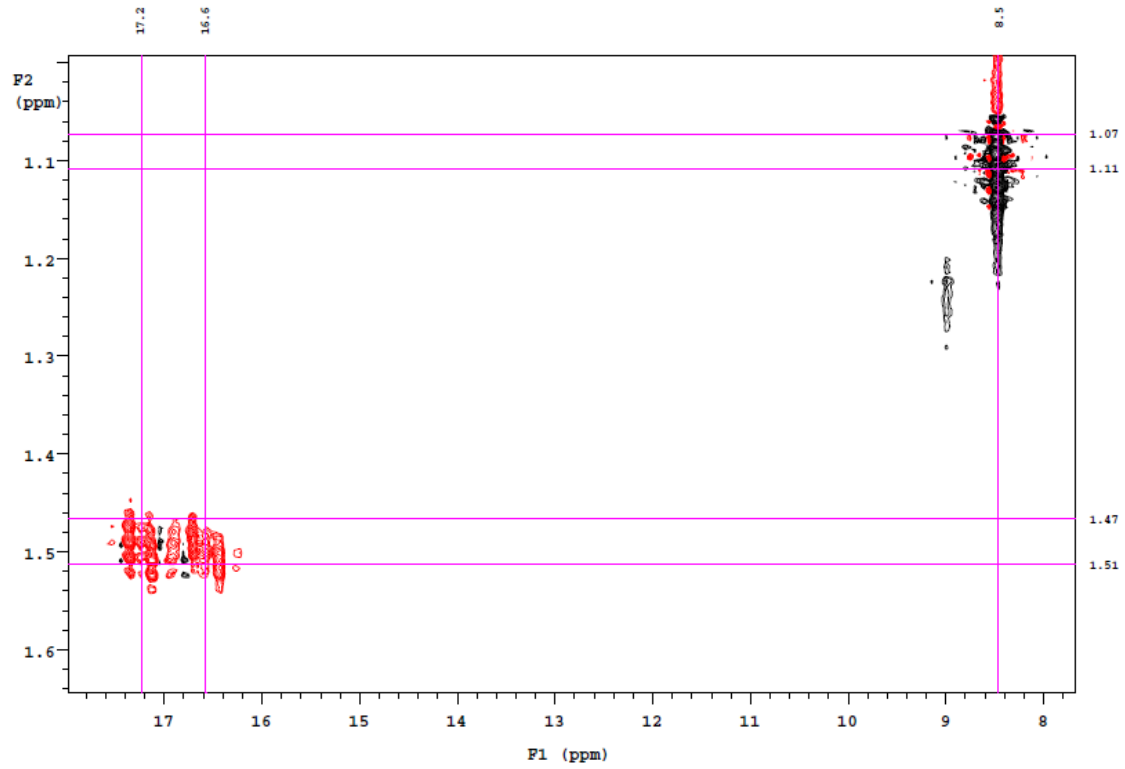


Figure S21. ^{1}H-^{13}C gHSQC spectrum - 500 MHz, $CDCl_3$ (**7**)

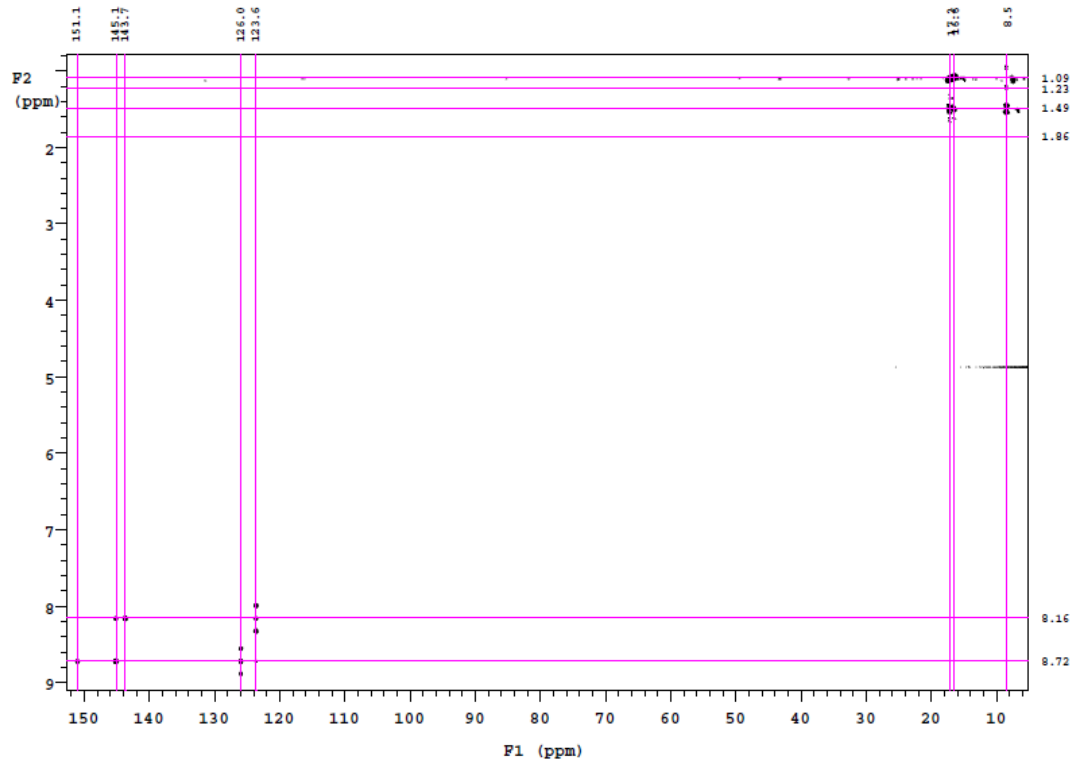


Figure S22. ^{1}H-^{13}C gHMBC spectrum - 500 MHz, $CDCl_3$ (**7**)

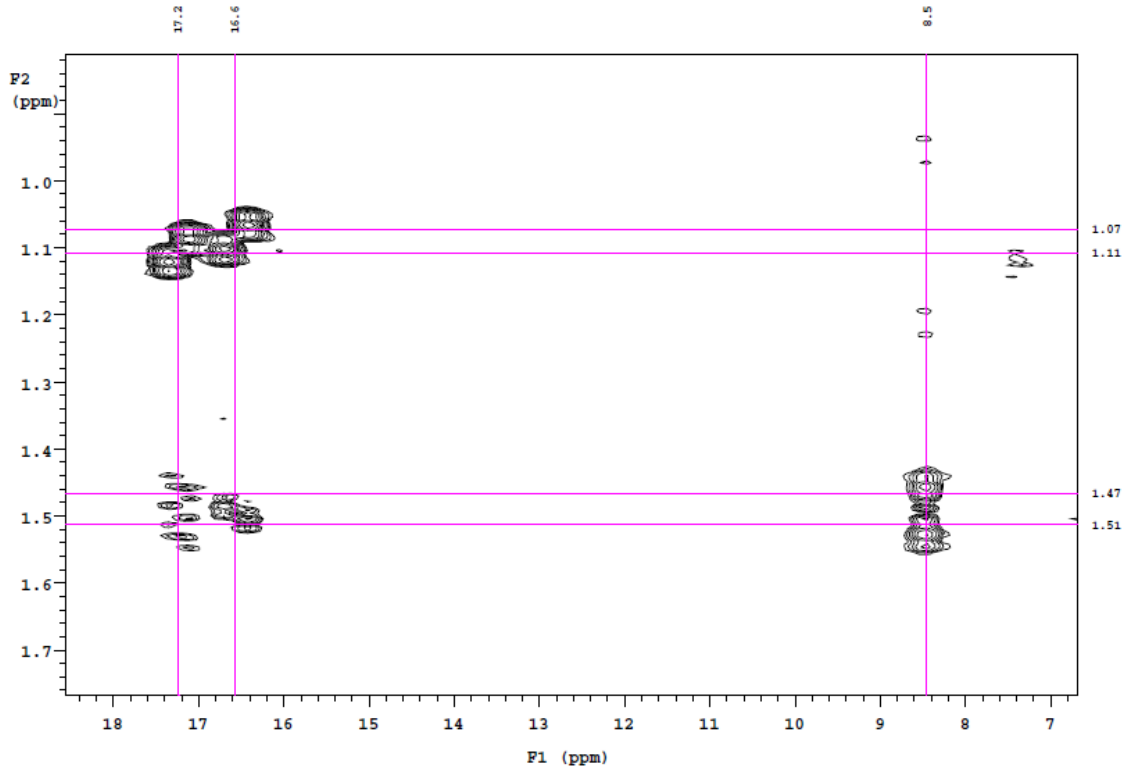
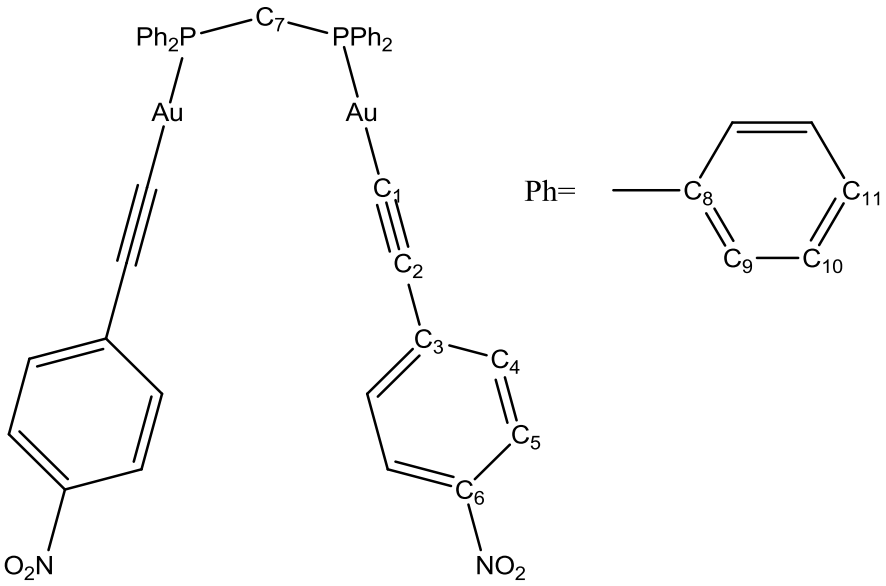


Figure S23. ^{1}H-^{13}C gHMBC spectrum - 500 MHz, $CDCl_3$ (**7**)

Synthesis and characterization of $[Au^{I}(C{\equiv}C\text{-}4\text{-}C_6H_4NO_2)]_2(\mu\text{-dppm})$ (**10**).



In a 100 ml Schlenk flask, 80 mg sodium metal (3.48 mmol) was added to 20 ml of dry methanol under argon. After hydrogen gas evolution ceased, this freshly prepared sodium-methoxide in methanol solution was transferred under argon into another Schlenk flask containing 200 mg $Au_2(\mu\text{-dppm})_2Cl_2$ (0.16 mmol) and 51 mg 2-ethynyl-4-nitrobenzene (0.34 mmol) via a syringe. The pale yellow reaction mixture was allowed to stir under argon overnight. The product was isolated as a pale-yellow powder by filtration (no longer under an inert atmosphere) and was washed with 5 ml of dry methanol and 10 ml of diethyl ether. After removing all volatiles in vacuo, complex **10** is obtained in 92% yield (158 mg). ^{1}H NMR (500 MHz, $CDCl_3$) δ 7.98(d, $^{3}J_{HH}$=8.3 Hz, 4H, H5), 7.64 (dt, $^{3}J_{PH}$=8.2 Hz, $^{3}J_{HH}$=7.1 Hz, 8H, H9), 7.52 (d, $^{3}J_{HH}$=8.3 Hz, 4H, H4), 7.46 (dd, $^{3}J_{HH}$=7.1 Hz, 4H, H11), 7.37 (dd, $^{3}J_{HH}$=7.1 Hz, 8H, H10), 3.62 (dd, $^{3}J_{PH}$=10.3 Hz, 2H, H7). ^{13}C{1H} NMR (126 MHz, $CDCl_3$) δ 145.7 (C6), 141.4 (C1), 133.4 (C9), 132.7 (C4), 132.2 (C3, C11), 129.4 (C10), 129.0 (C8), 123.1 (C5) 103.5 (C2), 29.5 (C7). ^{31}P NMR (121.1 MHz, $CDCl_3$) δ 31.73 (s). Anal. Calcd. For $C_{41}H_{30}Au_2N_2O_4P_2$: C, 46.00; H, 2.82; N, 2.62. Found: C, 46.05; H, 2.69; N, 2.63.

Table S6. NMR data for **10**		
atom	Chemical shift (ppm)	splitting
H5	7.98	d, $^{3}J_{HH}$=8.3 Hz
H9	7.64	dt, $^{3}J_{PH}$=8.2 Hz, $^{3}J_{HH}$=7.1 Hz
H4	7.52	d, $^{3}J_{HH}$=8.3 Hz
H11	7.46	dd, $^{3}J_{HH}$=7.1 Hz
H10	7.37	dd, $^{3}J_{HH}$=7.1 Hz
H7	3.62	dd, $^{3}J_{PH}$=10.3 Hz
C6	145.7	
C1	141.4	
C9	133.4	
C4	132.7	
C3, 11	132.2	
C10	129.4	
C8	129.0	
C5	123.1	
C2	103.5	
C7	29.5	
P	31.73	s

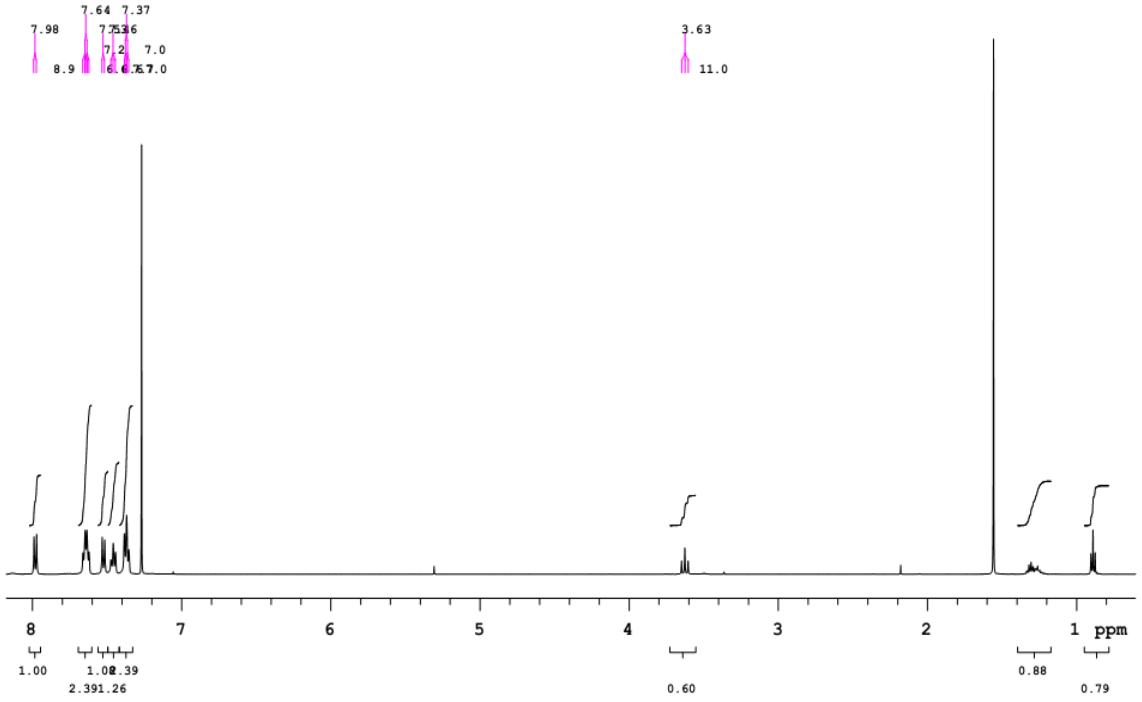


Figure S24. ^{1}H NMR – 500 MHz, $CDCl_3$ (**10**)

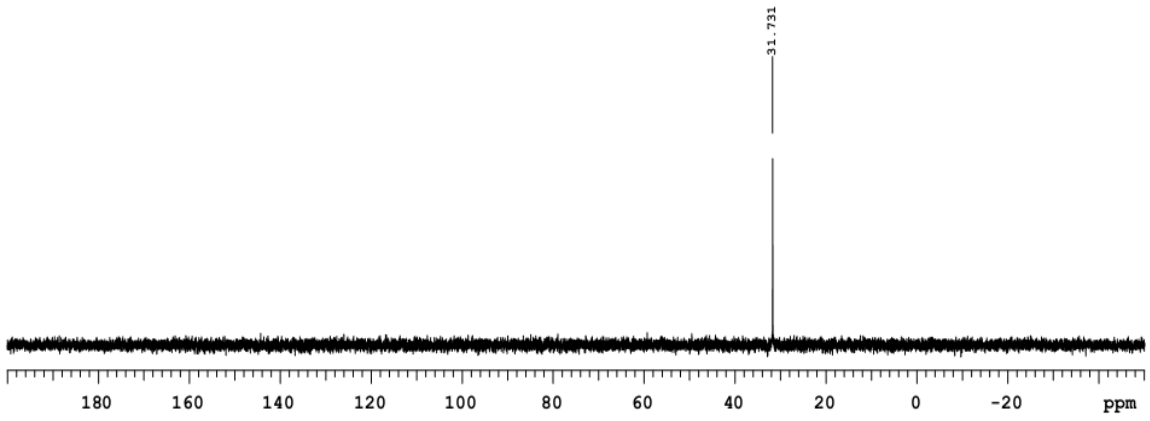


Figure S25. $^{31}P\{H\}$ NMR – 121.4 MHz, $CDCl_3$ (**10**)

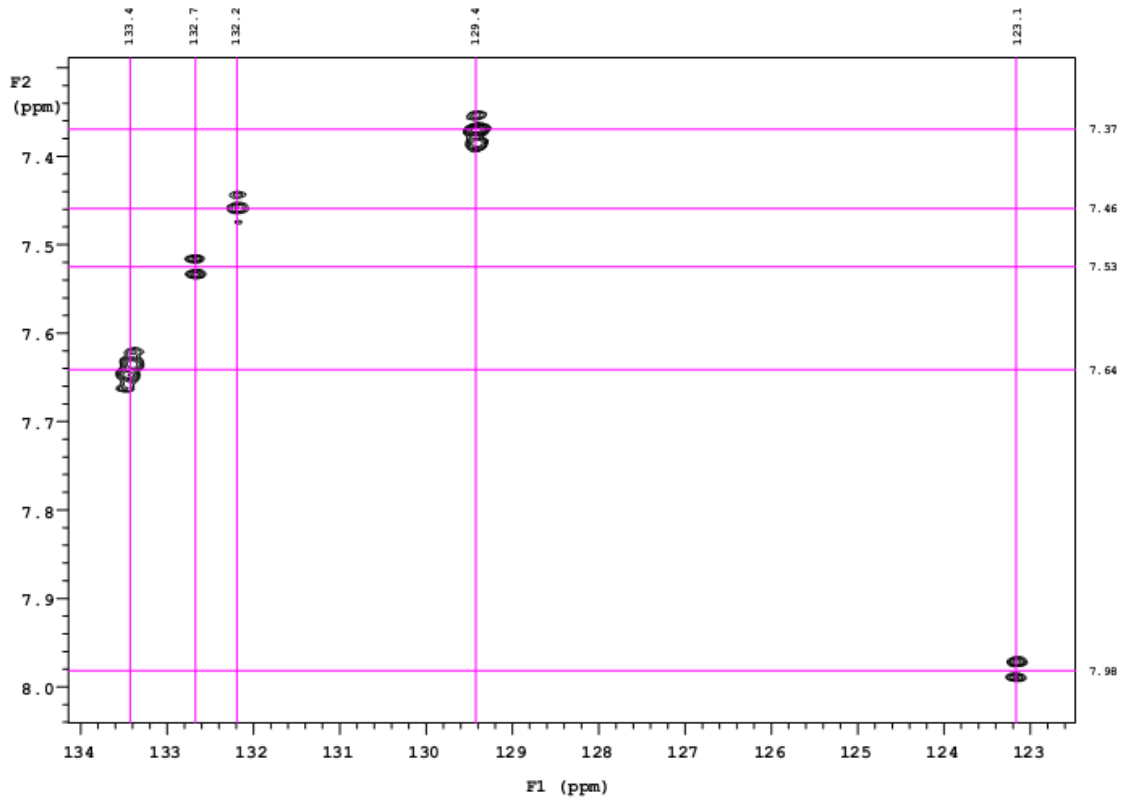


Figure S26. ^{1}H-^{13}C gHSQC spectrum – 500 MHz, $CDCl_3$ (**10**)

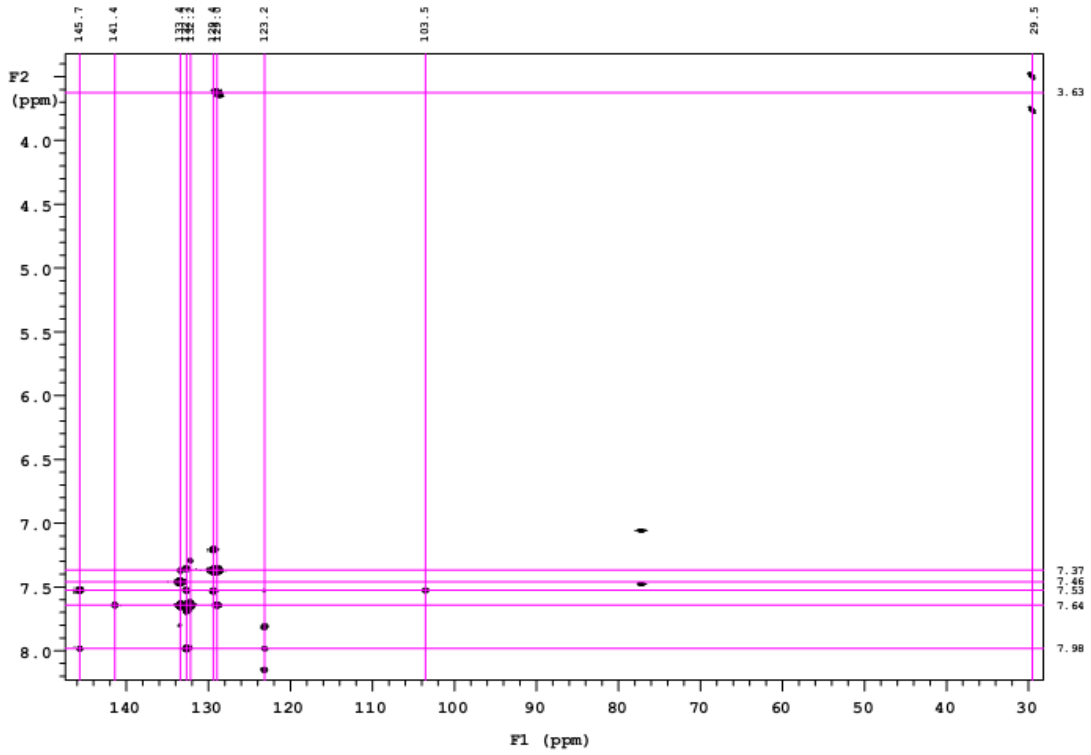


Figure S27. ^{1}H-^{13}C gHMBC spectrum – 500 MHz, $CDCl_3$ (**10**)

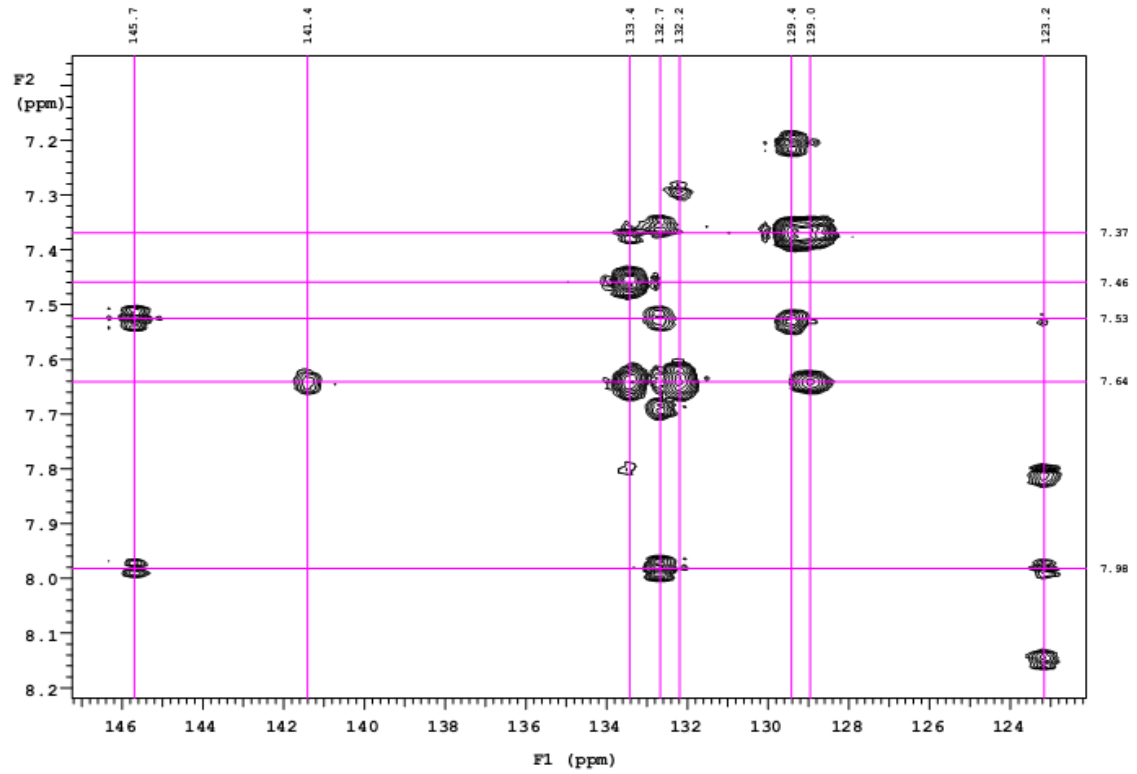
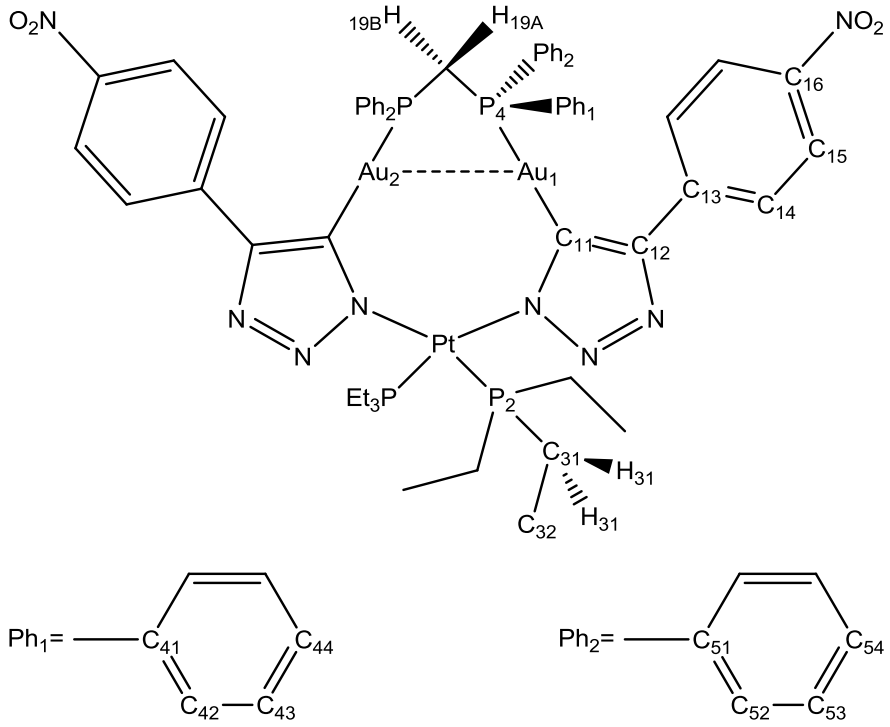


Figure S28. ^{1}H-^{13}C gHMBC (expanded region F1: 147.2-123 ppm) – spectrum 500 MHz, $CDCl_3$ (**10**)

Synthesis and characterization of **11**.



A sealable NMR tube was charged with 20 mg of **4-Et** (0.039 mmol), 45 mg of **10** (0.042 mmol) and 1.5 ml $CDCl_3$. After standing at room temperature for 2 d, yellow crystals deposit along the sides of the NMR tube. The crystals were isolated by decanting the supernatant and were washed with 1 ml of chloroform and 5 ml of diethyl ether. The crystalline material was dried in vacuo to provide **11** in 36% yield (22 mg). ^{1}H NMR (500 MHz, DMSO-*d6*) δ 8.39 (d, $^{3}J_{HH}$ =9 Hz, 4H, H14), 7.95 (d, $^{3}J_{HH}$ =9 Hz, 4H, H15), 7.88 (m, 4H, H42), 7.66(dt, $^{3}J_{PH}$=6.9 Hz, $^{3}J_{HH}$=6.9 Hz, 4H, H52), 7.51(m, 6H, 43-H, H44), 7.37 (dd, $^{3}J_{HH}$=7.5 Hz, 2H, H54), 7.18 (dd, $^{3}J_{HH}$=7.6 Hz, 4H, H53), 5.20 (dt, $^{3}J_{PH}$= $^{3}J_{HH}$=13.4 Hz, 1H, H19B), 3.70 (dt, $^{3}J_{PH}$= 14.5 Hz, $^{3}J_{HH}$=10.9 Hz, 1H, H19A), 1.62 (ddq, $^{2}J_{PH}$=15.3 Hz, $^{3}J_{HH}$=$^{2}J_{HH}$=7.7 Hz, 6H, H31), 1.51 (ddq, $^{2}J_{PH}$=15.4 Hz, $^{3}J_{HH}$=$^{2}J_{HH}$=7.6 Hz, 6H, H31), 0.98 (dt, $^{3}J_{PH}$= 16.3 Hz, $^{3}J_{HH}$=7.5 Hz, 18H, H32). ^{13}C{1H} NMR (126 MHz, DMSO-*d*) δ 170.5 (C11), 149.6 (C12), 144.5 (C16), 144.3 (C13), 134.4 (C52), 132.8 (C42), 132.2 (C54), 131.8 (C44, C41), 130.4 (C51), 129.6 (C43), 129.3 (C53), 125.3 (C14), 124.1 (C15), 23.3 (C19), 14.1 (C31), 8.3(C32). ^{31}P{^{1}H} NMR (121.1 MHz, DMSO-*d6*) δ 36.4 (s, P4), -1.6 (s, P2). Anal. Calcd. For $C_{53}H_{60}Au_2O_4N_8P_4Pt$: C, 40.14; H, 3.87; N, 7.07. Found: C, 40.08; H, 3.74; N, 6.96.

Table S7. NMR data for **11**					
atom	Chemical shift (ppm)	splitting	atom	Chemical shift (ppm)	splitting
H14	8.39	d, $^{3}J_{HH}$ =9 Hz	C12	149.6	
H15	7.95	d, $^{3}J_{HH}$ =9 Hz	C16	144.5	
H42	7.88	M	C13	144.3	
H52	7.66	dt, $^{3}J_{PH}$=6.9 Hz, $^{3}J_{HH}$=6.9 Hz	C52	134.4	
H44, H43	7.51	m	C42	132.8	
H54	7.37	dd, $^{3}J_{HH}$=7.5 Hz	C54	132.2	
H53	7.18	dd, $^{3}J_{HH}$=7.6 Hz	C44, C41	131.8	
H19B	5.20	dt, $^{3}J_{HH}$=13.4 Hz, $^{3}J_{PH}$= 13.4 Hz	C51	130.4	
H19A	3.70	dt, $^{3}J_{PH}$= 14.5 Hz, $^{3}J_{HH}$=10.9 Hz	C43	129.6	
H31	1.62	ddq, $^{2}J_{PH}$=15.3 Hz, $^{3}J_{HH}$=7.7 Hz, $^{2}J_{HH}$=7.6 Hz	C53	129.3	
H31	1.51	ddq, $^{2}J_{PH}$=15.4 Hz, $^{3}J_{HH}$=7.6 Hz, $^{2}J_{HH}$=7.6 Hz	C14	125.3	
H32	0.98	dt, $^{3}J_{PH}$= 14.5 Hz, $^{3}J_{HH}$=10.9 Hz	C15	124.1	
P4	36.4		C19	23.3	
P2	-1.6		C31	14.1	
C11	170.5		C32	8.3	

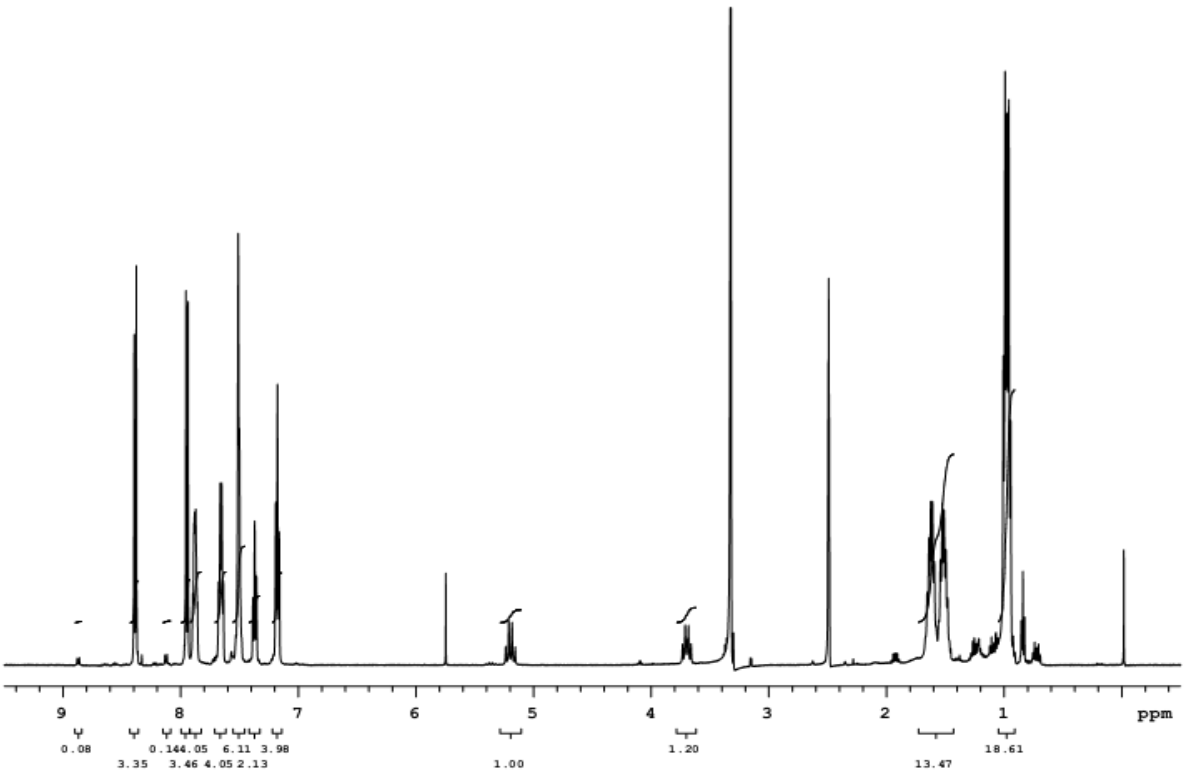


Figure S29. ^{1}H NMR – 500 MHz, DMSO-*d6* (**11**)

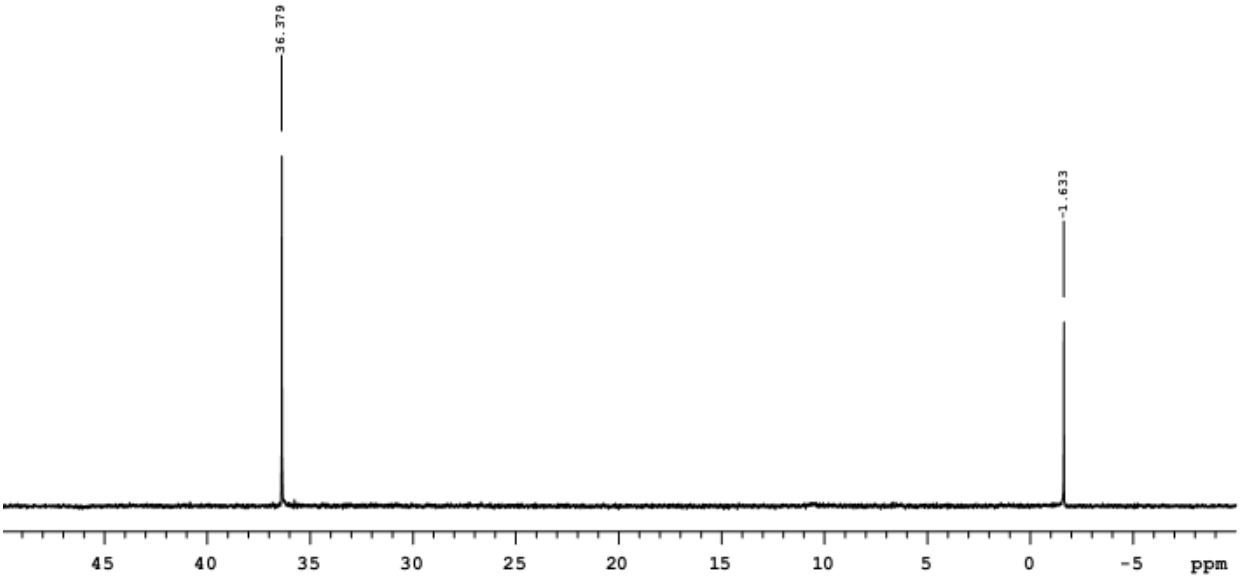


Figure S30. ^{31}P{H} NMR – 121.4 MHz, DMSO-*d6* (**11**)

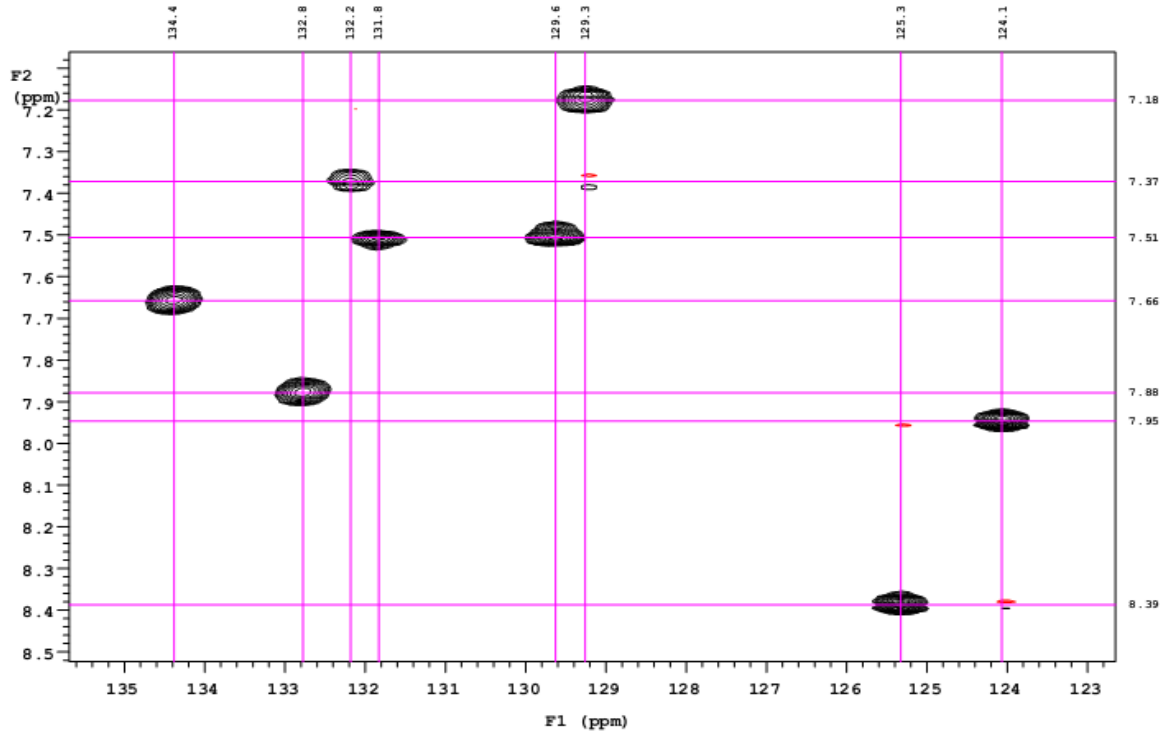


Figure S31. ^{1}H-^{13}C gHSQCAD (expanded region F1: 136.2-122.6 ppm) spectrum – 500 MHz, DMSO-*d6* (**11**)

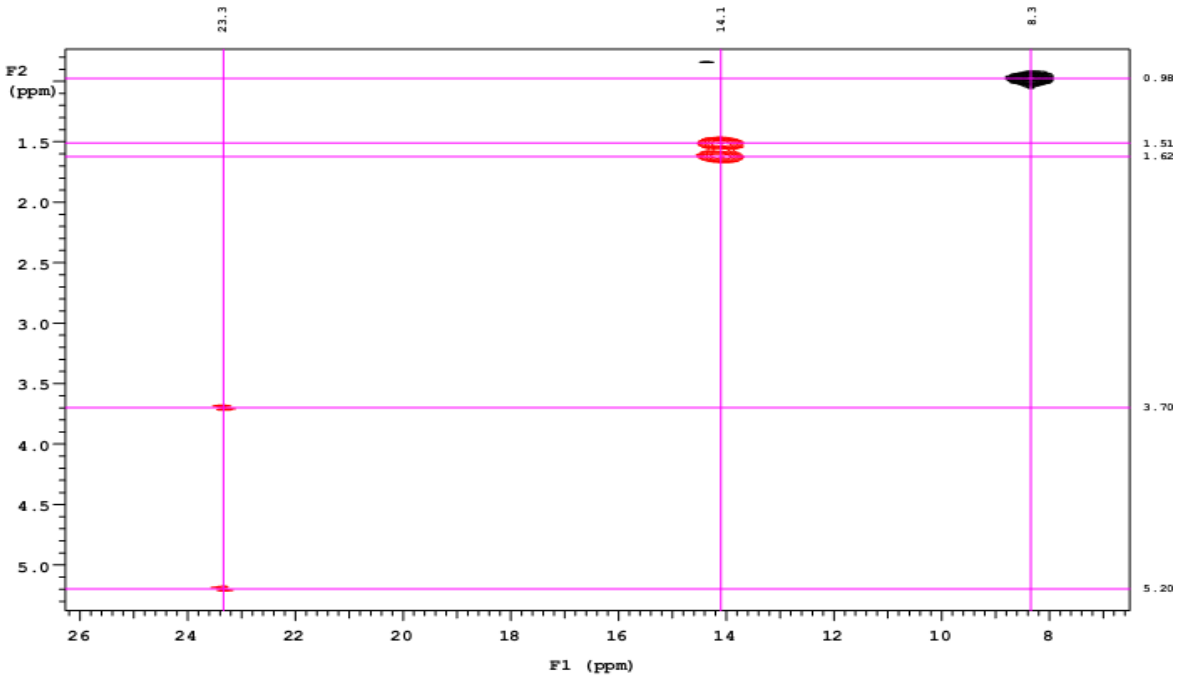


Figure S32. ^{1}H-^{13}C gHSQCAD (expanded region F1: 26.2-6.6 ppm) spectrum – 500 MHz, DMSO-*d6* (**11**)

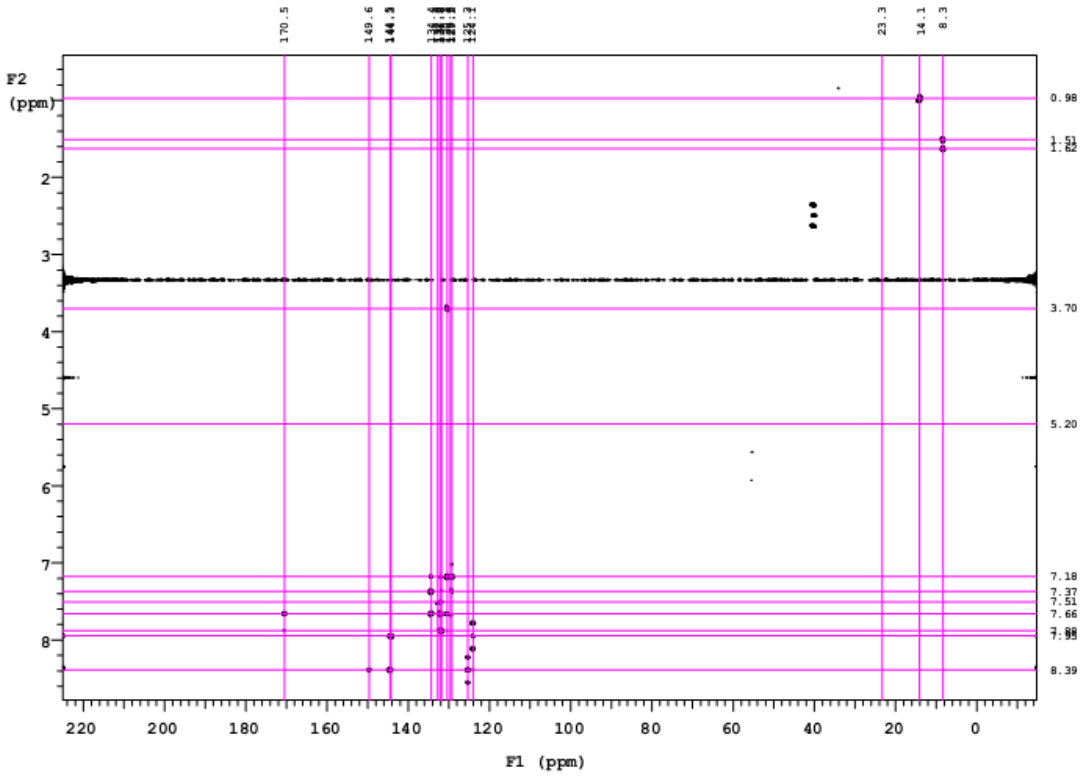


Figure S33. ^{1}H-^{13}C gHMBCAD spectrum – 500 MHz, DMSO-*d6* (**11**)

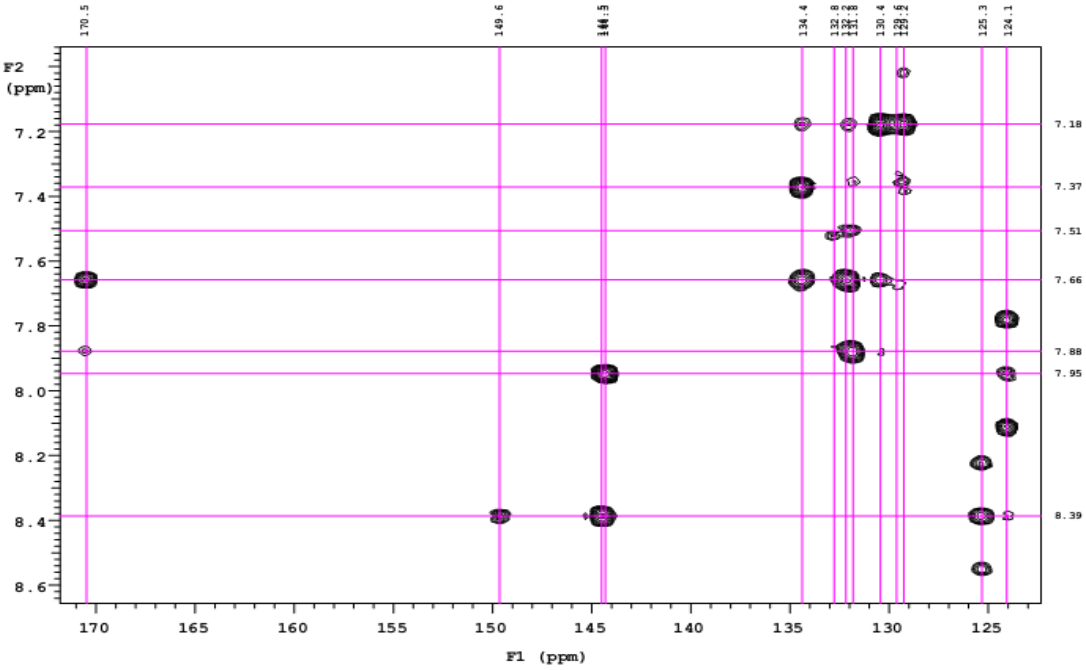


Figure S34. ^{1}H-^{13}C gHMBCAD (expanded region F1: 172-122 ppm) spectrum – 500 MHz, DMSO-*d6* (**11**)

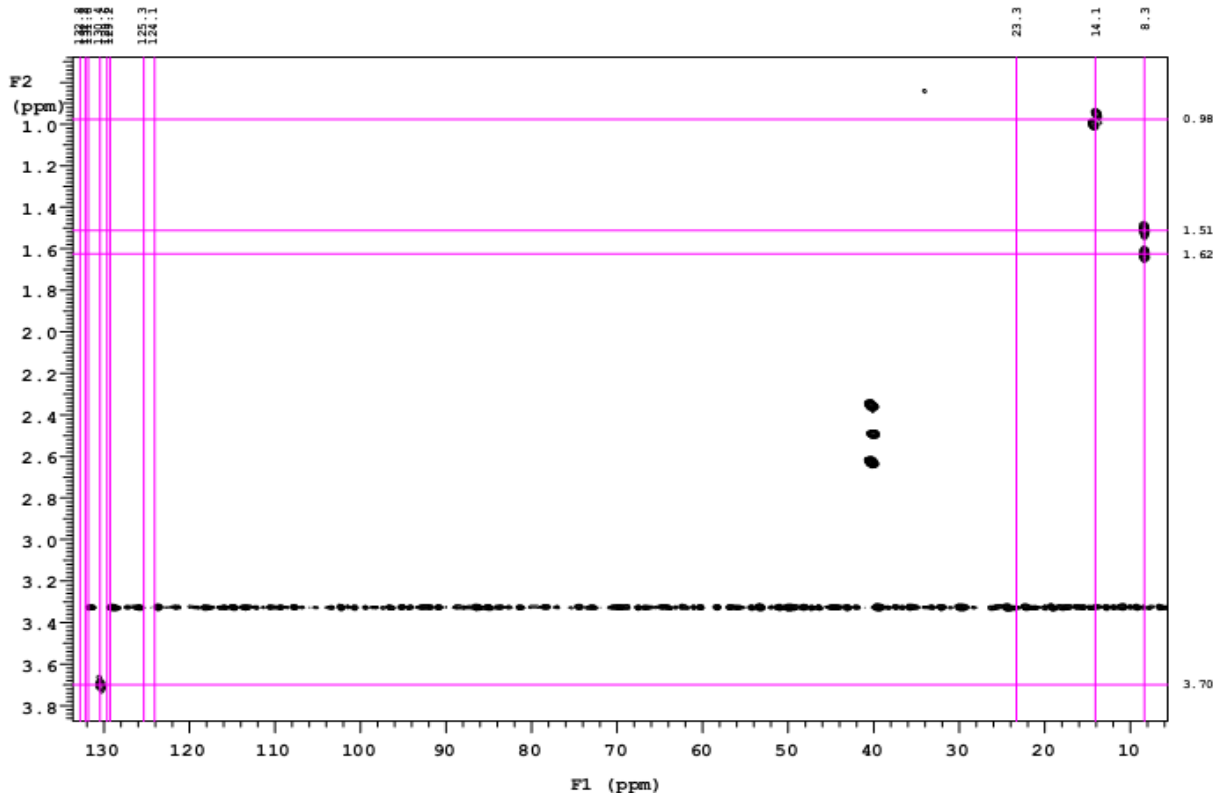


Figure S35. ^{1}H-^{13}C gHMBCAD (expanded region F1: 132-8 ppm) spectrum – 500 MHz, DMSO-*d6* (**11**)

Single crystal X-ray diffraction structure of *cis*-**6-Ph**

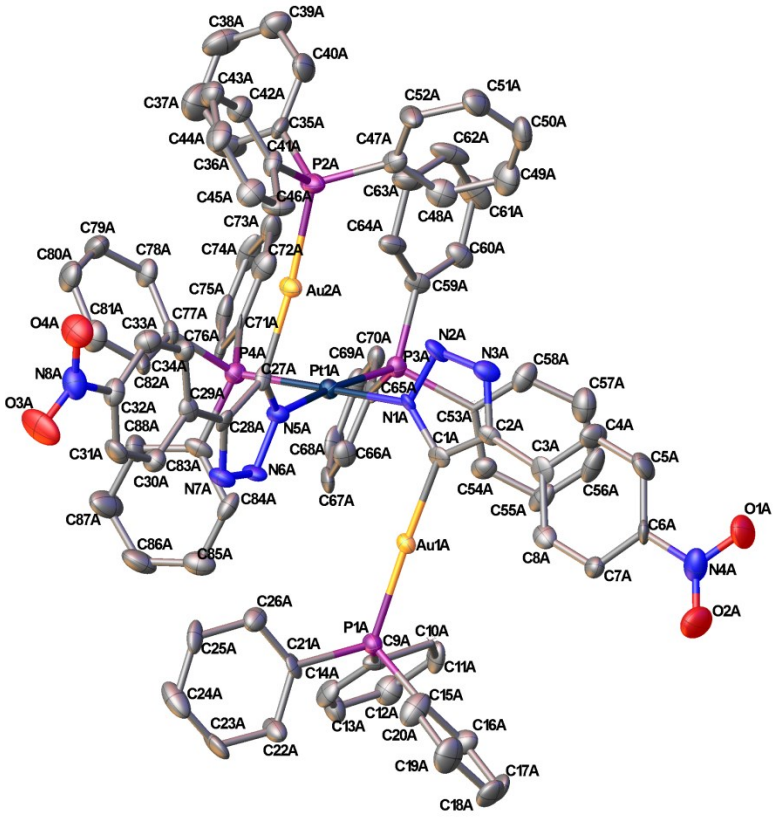


Figure S36. Molecular Structure of *cis*-**6-Ph**.

X-Ray experimental: X-Ray Intensity data were collected at 100 K on a Bruker **DUO** diffractometer using MoKα radiation (λ = 0.71073 Å) and an APEXII CCD area detector.

Raw data frames were read by program SAINT and integrated using 3D profiling algorithms. The resulting data were reduced to produce hkl reflections and their intensities and estimated standard deviations. The data were corrected for Lorentz and polarization effects and numerical absorption corrections were applied based on indexed and measured faces.

The structure was solved and refined in SHELXTL6.1,[8] using full-matrix least-squares refinement. The non-H atoms were refined with anisotropic thermal parameters and all of the H atoms were calculated in idealized positions and refined riding on their parent atoms. The asymmetric unit consists of one Au4 cluster and one diethyl ether solvent molecule disordered over three positions. The solvent molecules were disordered and could not be modeled properly, thus program SQUEEZE, a part of the PLATON package of crystallographic software, was used to calculate the solvent disorder area and remove its contribution to the overall intensity data. All four $P(C_2H_5)_3$ ligands are disordered and each was refined in two parts. Restrictions were applied using SADI to maintain equal P-C and C-C bond lengths in those

ligands as well as using EADP to maintain equivalent displacement parameters among similar atoms. Both nitro groups have their O atoms disordered and each was refined in two parts. It is worth noting here that all possible merohedral twinning possibilities were explored but none gave satisfactory results. In the final cycle of refinement, 9435 reflections (of which 6179 are observed with $I > 2\sigma(I)$) were used to refine 483 parameters and the resulting R_1, wR_2 and S (goodness of fit) were 7.53%, 16.93% and 1.048, respectively. The refinement was carried out by minimizing the wR_2 function using F^2 rather than F values. R_1 is calculated to provide a reference to the conventional R value but its function is not minimized.

Table S8. Crystal data and structure refinement for *cis*-**6-Ph**.

Identification code	apow11	
Empirical formula	$C_{370.75}H_{311.50}Au_8Cl_{9.50}N_{32}O_{16}P_{16}Pt_4$	
Formula weight	8659.41	
Temperature	100(2) K	
Wavelength	0.71073 Å	
Crystal system	Triclinic	
Space group	Pī	
Unit cell dimensions	a = 27.823(3) Å	α= 60.6370(10)°.
	b = 28.101(3) Å	β= 61.9650(10)°.
	c = 28.510(3) Å	γ = 84.409(2)°.
Volume	16889(3) $Å^3$	
Z	2	
Density (calculated)	1.703 Mg/m^3	
Absorption coefficient	5.327 mm^{-1}	
F(000)	8467	
Crystal size	0.08 x 0.06 x 0.02 mm^3	
Theta range for data collection	0.84 to 27.50°.	
Index ranges	-36≤h≤36, -36≤k≤36, -37≤l≤37	
Reflections collected	236008	
Independent reflections	77525 [R(int) = 0.1147]	
Completeness to theta = 27.50°	99.9 %	
Absorption correction	Integration	
Max. and min. transmission	0.8828 and 0.6814	
Refinement method	Full-matrix least-squares on F^2	
Data / restraints / parameters	77525 / 54 / 3958	
Goodness-of-fit on F^2	0.877	
Final R indices [I>2sigma(I)]	R1 = 0.0515, wR2 = 0.0955 [36301]	
R indices (all data)	R1 = 0.1459, wR2 = 0.1142	
Largest diff. peak and hole	3.284 and -2.923 $e.Å^{-3}$	

$R1 = \sum(||F_o| - |F_c||) / \sum|F_o|$

$wR2 = [\sum[w(F_o^2 - F_c^2)^2] / \sum[w(F_o^2)^2]]^{1/2}$

$S = [\sum[w(F_o^2 - F_c^2)^2] / (n-p)]^{1/2}$

$w= 1/[\sigma^2(F_o^2)+(m*p)^2+n*p]$, $p = [\max(F_o^2,0)+ 2* F_c^2]/3$, m & n are constants.

Table S9. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters ($Å^2$x 10^3) for *cis*-**6-Ph**. U(eq) is defined as one third of the trace of the orthogonalized U^{ij} tensor.

Atom	X	Y	Z	U(eq)
Pt1A	3341(1)	5616(1)	3799(1)	18(1)
Au1A	4817(1)	6313(1)	2816(1)	19(1)
Au2A	2638(1)	5748(1)	2890(1)	24(1)
P1A	5224(1)	6987(1)	2810(1)	22(1)
P2A	2137(1)	5103(1)	2951(1)	28(1)
P3A	3503(1)	4831(1)	4465(1)	20(1)
P4A	2632(1)	5789(1)	4506(1)	22(1)
O1A	6948(3)	5337(4)	351(4)	56(2)
O2A	7231(3)	6054(4)	311(4)	58(3)
O3A	2366(4)	8859(3)	583(4)	60(3)
O4A	1982(3)	8133(3)	721(3)	46(2)
N1A	3955(3)	5509(3)	3115(3)	14(2)
N2A	3823(3)	5149(3)	2986(3)	26(2)
N3A	4281(3)	5147(3)	2537(3)	26(2)
N4A	6860(4)	5698(4)	518(4)	42(3)
N5A	3293(3)	6332(3)	3100(3)	21(2)
N6A	3534(3)	6817(3)	2936(3)	23(2)
N7A	3434(3)	7212(3)	2508(3)	26(2)
N8A	2265(4)	8355(4)	812(4)	37(2)
C1A	4495(4)	5736(4)	2759(4)	21(2)
C2A	4696(4)	5497(4)	2386(4)	18(2)
C3A	5260(4)	5556(4)	1907(4)	25(2)
C4A	5373(4)	5198(5)	1671(4)	34(3)
C5A	5890(5)	5236(5)	1227(5)	38(3)
C6A	6312(4)	5642(4)	1000(4)	25(2)
C7A	6218(4)	6004(4)	1216(4)	25(2)
C8A	5700(4)	5959(4)	1666(4)	26(3)
C9A	5258(4)	6757(4)	3509(4)	23(2)
C10A	5428(4)	6239(4)	3753(4)	24(2)
C11A	5471(4)	6050(4)	4283(4)	33(3)
C12A	5368(4)	6363(5)	4563(5)	37(3)
C13A	5198(4)	6866(4)	4320(5)	34(3)
C14A	5143(4)	7057(4)	3802(4)	30(3)
C15A	5936(4)	7240(4)	2189(5)	29(3)
C16A	6389(4)	7151(4)	2266(5)	34(3)
C17A	6923(4)	7377(5)	1752(6)	44(3)
C18A	6982(4)	7701(5)	1174(5)	39(3)
C19A	6534(5)	7808(5)	1078(5)	48(3)
C20A	6011(5)	7575(5)	1578(5)	42(3)
C21A	4936(4)	7624(4)	2642(4)	23(2)
C22A	5231(4)	8103(4)	2489(5)	34(3)
C23A	5017(5)	8585(4)	2335(5)	39(3)
C24A	4522(6)	8611(5)	2322(5)	48(3)
C25A	4234(4)	8138(5)	2474(4)	32(3)

C26A	4444(4)	7635(5)	2637(4)	30(3)
C27A	3037(4)	6382(4)	2791(4)	18(2)
C28A	3124(4)	6976(4)	2400(4)	18(2)
C29A	2910(4)	7312(4)	1985(4)	22(2)
C30A	3060(4)	7886(4)	1666(4)	27(2)
C31A	2847(4)	8234(4)	1278(4)	31(3)
C32A	2488(4)	7992(4)	1221(4)	27(3)
C33A	2335(4)	7427(4)	1523(4)	30(3)
C34A	2544(4)	7091(4)	1912(4)	25(2)
C35A	1531(4)	4720(4)	3686(5)	26(2)
C36A	1300(5)	4955(5)	4046(5)	52(4)
C37A	807(6)	4680(7)	4603(6)	73(5)
C38A	553(5)	4183(6)	4803(6)	54(4)
C39A	796(5)	3932(5)	4455(5)	43(3)
C40A	1278(5)	4205(5)	3902(5)	40(3)
C41A	1863(4)	5470(4)	2421(4)	25(2)
C42A	1337(4)	5346(5)	2565(5)	33(3)
C43A	1147(4)	5617(4)	2149(5)	34(3)
C44A	1511(4)	6024(5)	1560(5)	38(3)
C45A	2046(4)	6174(5)	1395(5)	34(3)
C46A	2223(5)	5894(5)	1815(5)	38(3)
C47A	2495(4)	4612(4)	2736(4)	28(3)
C48A	2931(5)	4440(5)	2844(4)	37(3)
C49A	3231(5)	4071(5)	2654(5)	46(3)
C50A	3089(5)	3891(5)	2367(5)	41(3)
C51A	2663(5)	4063(5)	2252(5)	40(3)
C52A	2361(4)	4427(4)	2444(5)	36(3)
C53A	4224(4)	4708(4)	4142(4)	21(2)
C54A	4634(4)	4933(4)	4144(4)	29(3)
C55A	5164(4)	4829(5)	3918(4)	34(3)
C56A	5286(4)	4475(5)	3690(4)	39(3)
C57A	4883(5)	4253(5)	3669(5)	43(3)
C58A	4356(4)	4377(5)	3888(4)	33(3)
C59A	3095(4)	4224(4)	4677(4)	23(2)
C60A	3115(4)	3678(4)	5066(4)	32(3)
C61A	2808(5)	3242(5)	5189(5)	50(4)
C62A	2473(5)	3314(5)	4935(5)	45(3)
C63A	2447(5)	3842(5)	4546(5)	42(3)
C64A	2760(4)	4297(5)	4423(4)	31(3)
C65A	3420(4)	4809(4)	5148(4)	20(2)
C66A	3652(4)	5294(4)	5051(4)	27(3)
C67A	3653(4)	5317(4)	5524(5)	32(3)
C68A	3399(4)	4855(5)	6118(5)	36(3)
C69A	3150(4)	4386(5)	6233(4)	28(3)
C70A	3170(4)	4361(4)	5747(4)	25(2)
C71A	2279(4)	5208(4)	5299(4)	22(2)
C72A	2041(4)	4733(5)	5403(5)	35(3)
C73A	1782(4)	4259(5)	6002(5)	36(3)
C74A	1742(4)	4299(5)	6485(4)	42(3)
C75A	1975(4)	4772(5)	6370(5)	38(3)
C76A	2248(4)	5221(4)	5785(4)	25(2)

C77A	2048(4)	6032(4)	4370(4)	22(2)
C78A	1507(4)	5726(4)	4761(5)	30(3)
C79A	1091(4)	5950(5)	4636(5)	40(3)
C80A	1180(5)	6455(5)	4143(5)	39(3)
C81A	1717(5)	6768(5)	3744(5)	40(3)
C82A	2138(4)	6561(4)	3862(5)	30(3)
C83A	2871(4)	6351(4)	4525(4)	26(2)
C84A	3422(4)	6587(5)	4209(4)	28(3)
C85A	3592(5)	7006(4)	4253(5)	36(3)
C86A	3197(5)	7196(5)	4612(5)	49(3)
C87A	2636(5)	6990(5)	4916(5)	54(4)
C88A	2475(5)	6567(5)	4876(5)	35(3)
Pt1B	9428(1)	6694(1)	1189(1)	19(1)
Au1B	8697(1)	5195(1)	2156(1)	22(1)
Au2B	9319(1)	7508(1)	1949(1)	27(1)
P1B	8038(1)	4826(1)	2101(1)	24(1)
P2B	9985(1)	7988(1)	1884(1)	32(1)
P3B	10195(1)	6471(1)	593(1)	22(1)
P4B	9363(1)	7453(1)	396(1)	23(1)
O1B	8729(5)	2766(4)	4880(5)	116(5)
O2B	9486(5)	2999(4)	4824(5)	112(5)
O3B	6887(4)	8218(4)	4012(4)	67(3)
O4B	6190(7)	7742(7)	4221(8)	53(5)
O4B'	6271(9)	8116(9)	3758(9)	76(6)
N1B	9468(3)	6039(4)	1930(3)	23(2)
N2B	9796(3)	6160(3)	2108(3)	28(2)
N3B	9775(3)	5696(4)	2566(4)	27(2)
N4B	9140(6)	3104(5)	4647(6)	84(4)
N5B	8722(3)	6810(3)	1815(3)	19(2)
N6B	8236(3)	6575(3)	1975(3)	24(2)
N7B	7836(3)	6708(4)	2357(4)	28(2)
N8B	6706(5)	7988(6)	3857(6)	78(4)
C1B	9239(4)	5514(4)	2259(4)	18(2)
C2B	9442(4)	5286(4)	2681(4)	24(2)
C3B	9357(4)	4723(4)	3190(4)	22(2)
C4B	9691(4)	4592(5)	3464(5)	38(3)
C5B	9620(5)	4063(5)	3932(5)	46(3)
C6B	9217(5)	3661(5)	4140(5)	44(3)
C7B	8880(4)	3768(4)	3886(4)	30(3)
C8B	8946(4)	4294(4)	3417(4)	24(2)
C9B	7717(4)	4127(4)	2731(5)	30(3)
C10B	7778(5)	3666(5)	2681(5)	47(3)
C11B	7526(6)	3129(5)	3185(6)	59(4)
C12B	7204(8)	3076(6)	3749(6)	106(7)
C13B	7118(9)	3541(6)	3828(6)	123(8)
C14B	7380(7)	4049(5)	3315(5)	78(5)
C15B	7457(4)	5174(4)	2185(4)	24(2)
C16B	6956(5)	4938(5)	2302(4)	36(3)
C17B	6511(4)	5233(5)	2368(4)	36(3)
C18B	6548(5)	5732(6)	2337(5)	43(3)
C19B	7025(5)	5945(5)	2253(5)	40(3)

C20B	7474(4)	5681(4)	2162(4)	26(3)
C21B	8281(4)	4798(4)	1395(4)	25(2)
C22B	8758(4)	4588(5)	1205(5)	36(3)
C23B	8966(5)	4551(5)	665(5)	43(3)
C24B	8672(5)	4711(5)	349(5)	40(3)
C25B	8200(5)	4926(5)	541(5)	43(3)
C26B	8004(4)	4967(4)	1065(5)	33(3)
C27B	8670(4)	7102(4)	2091(4)	15(2)
C28B	8096(4)	7036(4)	2421(4)	24(2)
C29B	7742(4)	7273(4)	2814(4)	27(3)
C30B	7160(5)	7176(5)	3067(5)	44(3)
C31B	6821(5)	7406(5)	3406(5)	48(3)
C32B	7064(5)	7735(5)	3490(5)	40(3)
C33B	7614(4)	7851(5)	3262(4)	35(3)
C34B	7953(4)	7608(5)	2924(4)	33(3)
C35B	10416(4)	7575(5)	2187(5)	37(3)
C36B	10513(5)	7079(5)	2188(5)	47(3)
C37B	10835(5)	6744(6)	2434(6)	53(4)
C38B	11042(5)	6892(6)	2698(6)	56(4)
C39B	10953(5)	7377(6)	2700(6)	52(4)
C40B	10652(5)	7722(6)	2443(5)	51(3)
C41B	9596(5)	8262(5)	2419(5)	38(3)
C42B	9227(5)	7868(6)	3009(6)	50(3)
C43B	8903(6)	8036(7)	3429(7)	73(5)
C44B	8948(8)	8604(7)	3229(8)	87(6)
C45B	9320(8)	8981(7)	2628(8)	93(6)
C46B	9656(6)	8807(6)	2226(6)	59(4)
C47B	10426(5)	8565(5)	1140(6)	43(3)
C48B	10211(5)	8827(5)	734(5)	55(4)
C49B	10527(6)	9286(6)	150(7)	72(4)
C50B	11038(5)	9505(5)	-15(6)	56(4)
C51B	11242(6)	9273(6)	388(6)	59(4)
C52B	10929(5)	8801(5)	962(6)	48(3)
C53B	10263(4)	5739(4)	951(4)	25(2)
C54B	10052(4)	5342(4)	894(5)	31(3)
C55B	10129(5)	4807(5)	1155(5)	42(3)
C56B	10414(5)	4641(5)	1473(5)	44(3)
C57B	10623(5)	5020(5)	1543(5)	48(3)
C58B	10530(5)	5556(5)	1289(5)	41(3)
C59B	10820(4)	6817(4)	428(4)	27(2)
C60B	11353(5)	6765(5)	73(4)	36(3)
C61B	11813(5)	7050(5)	-37(5)	44(3)
C62B	11752(5)	7347(5)	228(5)	37(3)
C63B	11225(4)	7397(4)	607(5)	36(3)
C64B	10767(4)	7122(4)	712(5)	27(2)
C65B	10235(4)	6588(4)	-116(4)	28(3)
C66B	10698(5)	6838(4)	-695(4)	32(3)
C67B	10688(5)	6878(5)	-1200(5)	47(3)
C68B	10203(6)	6661(5)	-1113(6)	50(4)
C69B	9745(5)	6413(5)	-538(5)	40(3)
C70B	9753(4)	6372(4)	-39(5)	30(3)

C71B	10032(4)	7843(4)	-283(4)	28(3)
C72B	10392(5)	8040(4)	-186(5)	39(3)
C73B	10921(5)	8327(5)	-673(6)	53(4)
C74B	11082(5)	8424(5)	-1244(6)	49(4)
C75B	10728(5)	8209(5)	-1341(5)	52(4)
C76B	10197(5)	7915(5)	-860(5)	42(3)
C77B	9032(4)	8002(4)	537(4)	24(2)
C78B	9311(5)	8530(5)	254(5)	43(3)
C79B	9039(5)	8923(5)	381(6)	57(4)
C80B	8483(5)	8805(5)	780(5)	45(3)
C81B	8191(4)	8286(4)	1059(5)	33(3)
C82B	8463(4)	7893(4)	945(4)	30(3)
C83B	8913(4)	7242(4)	210(4)	24(2)
C84B	8888(4)	7607(5)	-334(4)	33(3)
C85B	8540(5)	7441(5)	-466(5)	40(3)
C86B	8221(4)	6921(6)	-76(5)	41(3)
C87B	8225(4)	6574(5)	475(5)	37(3)
C88B	8572(4)	6735(4)	602(4)	25(2)
Pt1C	11673(1)	9369(1)	-3667(1)	24(1)
Au1C	10177(1)	8620(1)	-2697(1)	32(1)
Au2C	12385(1)	9150(1)	-2708(1)	28(1)
P1C	9828(1)	8004(1)	-2820(1)	39(1)
P2C	12699(1)	9715(1)	-2509(1)	33(1)
P3C	11452(1)	10164(1)	-4248(1)	30(1)
P4C	12457(3)	9352(3)	-4463(3)	21(2)
P4'	12351(3)	9296(3)	-4461(4)	24(2)
O1C	8020(4)	9610(5)	-263(5)	87(4)
O2C	7702(3)	9031(4)	-369(5)	76(3)
O3C	12894(4)	5997(4)	-828(4)	74(3)
O4C	13113(3)	6653(3)	-730(3)	49(2)
N1C	11049(3)	9355(3)	-2905(3)	22(2)
N2C	11165(3)	9657(4)	-2701(4)	32(2)
N3C	10698(4)	9644(4)	-2249(4)	33(2)
N4C	8085(4)	9321(4)	-483(5)	46(3)
N5C	11837(3)	8648(3)	-3095(3)	25(2)
N6C	11648(4)	8180(4)	-3024(4)	35(2)
N7C	11806(4)	7765(3)	-2649(4)	33(2)
N8C	12922(4)	6473(4)	-937(4)	42(3)
C1C	10496(4)	9138(4)	-2568(4)	28(3)
C2C	10281(4)	9339(4)	-2158(4)	24(2)
C3C	9709(4)	9305(5)	-1715(4)	34(3)
C4C	9614(5)	9604(7)	-1415(6)	83(6)
C5C	9075(5)	9611(8)	-1022(7)	94(7)
C6C	8644(4)	9310(5)	-904(4)	35(3)
C7C	8729(4)	9005(5)	-1176(5)	42(3)
C8C	9263(5)	9014(4)	-1586(5)	40(3)
C9C	10217(4)	7443(5)	-2810(5)	33(3)
C10C	10688(5)	7459(5)	-2775(5)	42(3)
C11C	11009(5)	7043(5)	-2777(5)	40(3)
C12C	10836(5)	6606(5)	-2773(5)	38(3)
C13C	10381(6)	6586(6)	-2809(6)	68(5)

C14C	10060(5)	7008(6)	-2826(6)	61(4)
C15C	9115(4)	7649(4)	-2219(5)	30(3)
C16C	9022(5)	7120(5)	-1740(5)	46(3)
C17C	8474(5)	6831(6)	-1281(6)	50(3)
C18C	8053(5)	7095(6)	-1319(5)	50(4)
C19C	8137(6)	7628(7)	-1783(6)	77(5)
C20C	8684(5)	7894(6)	-2241(7)	81(6)
C21C	9774(8)	8382(9)	-3500(8)	46(6)
C22C	9732(9)	8115(7)	-3784(11)	166(17)
C23C	9664(9)	8408(11)	-4301(10)	174(18)
C24C	9637(9)	8970(11)	-4535(8)	88(9)
C25C	9679(11)	9238(7)	-4252(11)	190(20)
C26C	9748(10)	8944(9)	-3735(11)	125(13)
C21E	9869(9)	8282(8)	-3599(7)	29(8)
C22E	10008(8)	8023(6)	-3943(8)	23(6)
C23E	9976(8)	8276(7)	-4484(7)	31(7)
C24E	9806(9)	8787(8)	-4681(7)	38(7)
C25E	9667(10)	9046(7)	-4336(9)	49(9)
C26E	9699(10)	8793(8)	-3795(9)	51(9)
C27C	12078(4)	8561(4)	-2751(4)	23(2)
C28C	12070(4)	7985(4)	-2491(4)	25(2)
C29C	12290(4)	7622(4)	-2089(4)	24(2)
C30C	12573(4)	7783(5)	-1895(5)	37(3)
C31C	12791(4)	7412(5)	-1525(5)	43(3)
C32C	12708(4)	6876(5)	-1338(4)	30(3)
C33C	12411(5)	6676(5)	-1496(5)	50(3)
C34C	12205(5)	7045(5)	-1864(5)	45(3)
C35C	12780(4)	9281(4)	-1826(5)	32(3)
C36C	13108(5)	8903(5)	-1808(5)	41(3)
C37C	13176(5)	8543(5)	-1302(6)	46(3)
C38C	12903(5)	8590(5)	-799(5)	42(3)
C39C	12560(7)	8951(7)	-791(6)	98(6)
C40C	12485(7)	9302(6)	-1305(6)	79(5)
C41C	13379(3)	10112(4)	-3089(3)	41(3)
C42C	13754(5)	10235(5)	-2955(4)	199(15)
C43C	14255(4)	10586(6)	-3430(5)	163(11)
C44C	14381(4)	10813(5)	-4040(4)	119(8)
C45C	14006(4)	10689(4)	-4174(3)	91(6)
C46C	13505(4)	10339(4)	-3699(4)	78(5)
C47C	12244(5)	10163(5)	-2304(5)	39(3)
C48C	12426(6)	10609(5)	-2297(5)	49(3)
C49C	12053(6)	10891(5)	-2054(6)	55(4)
C50C	11501(6)	10734(6)	-1825(7)	66(4)
C51C	11302(6)	10316(6)	-1828(7)	71(4)
C52C	11686(5)	10020(5)	-2062(6)	47(3)
C53C	11825(4)	10751(4)	-4393(5)	35(3)
C54C	12131(5)	10667(5)	-4107(6)	52(4)
C55C	12419(6)	11108(6)	-4178(6)	77(5)
C56C	12391(6)	11650(6)	-4573(6)	72(5)
C57C	12061(6)	11745(5)	-4840(5)	64(4)
C58C	11784(5)	11306(5)	-4761(5)	51(4)

C59C	10731(5)	10268(5)	-3877(5)	52(4)
C60C	10593(5)	10495(6)	-3510(5)	63(4)
C61C	10060(7)	10612(8)	-3263(7)	108(8)
C62C	9671(8)	10490(9)	-3375(7)	119(11)
C63C	9801(6)	10271(7)	-3725(9)	105(8)
C64C	10340(5)	10133(6)	-3998(6)	70(5)
C65C	11536(5)	10240(5)	-4948(5)	40(3)
C66C	11771(5)	10695(5)	-5537(5)	49(4)
C67C	11796(6)	10694(6)	-6023(6)	64(4)
C68C	11581(8)	10227(7)	-5943(7)	96(6)
C69C	11347(8)	9741(7)	-5372(7)	98(6)
C70C	11305(6)	9775(6)	-4862(5)	60(4)
C71C	12980(4)	9094(4)	-4309(4)	30(3)
C72C	13015(5)	8553(5)	-4043(5)	49(4)
C73C	13444(5)	8357(6)	-3911(5)	64(4)
C74C	13848(5)	8723(8)	-4065(5)	77(6)
C75C	13827(6)	9273(7)	-4343(6)	68(5)
C76C	13387(5)	9459(5)	-4451(5)	50(3)
C77C	12172(7)	8722(6)	-4488(8)	25(6)
C78C	11621(6)	8509(7)	-4224(8)	35(7)
C79C	11483(5)	8111(7)	-4317(7)	27(6)
C80C	11898(7)	7926(7)	-4673(8)	39(7)
C81C	12450(6)	8139(8)	-4936(8)	51(9)
C82C	12587(5)	8537(7)	-4844(8)	27(6)
C77'	12306(7)	8879(7)	-4686(8)	34(6)
C78'	11782(6)	8569(7)	-4358(7)	49(8)
C79'	11668(6)	8234(7)	-4538(7)	39(6)
C80'	12078(7)	8210(7)	-5045(8)	55(7)
C81'	12603(6)	8520(8)	-5373(8)	54(8)
C82'	12717(5)	8855(7)	-5193(8)	52(7)
C83C	12796(5)	10034(4)	-5184(4)	23(5)
C84C	12924(5)	10144(4)	-5765(5)	21(4)
C85C	13195(6)	10666(5)	-6277(4)	24(5)
C86C	13339(6)	11078(4)	-6207(5)	46(6)
C87C	13211(6)	10968(4)	-5626(6)	37(6)
C88C	12940(5)	10446(5)	-5114(4)	17(4)
C83'	12654(5)	9875(5)	-5253(4)	24(5)
C84'	12646(5)	9788(4)	-5690(5)	29(5)
C85'	12885(6)	10210(5)	-6303(5)	32(5)
C86'	13132(6)	10719(5)	-6480(4)	31(5)
C87'	13140(6)	10806(4)	-6043(6)	37(6)
C88'	12901(6)	10384(5)	-5430(5)	31(5)
Pt1D	5724(1)	-1770(1)	8699(1)	18(1)
Au1D	5888(1)	-2427(1)	7799(1)	22(1)
Au2D	6240(1)	-243(1)	7883(1)	35(1)
P1D	5232(1)	-2879(1)	7825(1)	21(1)
P2D	6814(2)	161(1)	8006(1)	47(1)
P3D	5859(1)	-2476(1)	9471(1)	20(1)
P4D	4895(1)	-1645(1)	9317(1)	21(1)
O1D	8898(8)	-2965(12)	5852(13)	55(9)
O2D	8327(12)	-2955(10)	5573(10)	39(6)

O1D'	8983(13)	-2687(19)	5550(20)	87(12)
O2D'	8160(14)	-3050(11)	5670(12)	47(8)
O3D	5976(16)	1934(10)	4924(12)	55(11)
O4D	5642(12)	2170(10)	5651(11)	25(7)
O3D'	5632(9)	1908(6)	5057(6)	44(6)
O4D'	5822(9)	2212(7)	5507(9)	40(5)
N1D	6460(3)	-1832(3)	8071(3)	18(2)
N2D	6954(3)	-1617(3)	7941(3)	21(2)
N3D	7345(3)	-1728(3)	7533(3)	24(2)
N4D	8457(5)	-2855(5)	5830(5)	58(3)
N5D	5664(3)	-1126(3)	7956(3)	27(2)
N6D	5454(3)	-1267(4)	7687(4)	31(2)
N7D	5479(3)	-804(4)	7214(4)	30(2)
N8D	5752(4)	1841(4)	5466(4)	40(3)
C1D	6544(4)	-2064(4)	7698(4)	17(2)
C2D	7103(4)	-2001(4)	7390(4)	17(2)
C3D	7446(4)	-2217(4)	6992(4)	28(3)
C4D	7989(5)	-2223(6)	6827(6)	57(4)
C5D	8329(5)	-2417(6)	6439(7)	68(4)
C6D	8101(5)	-2621(5)	6229(5)	41(3)
C7D	7545(5)	-2637(5)	6383(4)	38(3)
C8D	7233(4)	-2433(4)	6766(4)	33(3)
C9D	5566(4)	-3090(4)	7258(4)	28(3)
C10D	5453(4)	-3622(4)	7375(5)	30(3)
C11D	5735(5)	-3750(5)	6912(5)	40(3)
C12D	6116(5)	-3356(5)	6334(5)	38(3)
C13D	6236(5)	-2841(6)	6211(5)	50(4)
C14D	5956(4)	-2696(5)	6659(5)	40(3)
C15D	4739(4)	-2472(4)	7626(4)	26(2)
C16D	4472(4)	-2584(4)	7378(4)	30(3)
C17D	4124(5)	-2264(5)	7203(5)	38(3)
C18D	4038(4)	-1790(4)	7264(5)	36(3)
C19D	4313(4)	-1657(5)	7493(5)	35(3)
C20D	4664(4)	-2002(5)	7673(5)	32(3)
C21D	4828(4)	-3504(4)	8576(4)	22(2)
C22D	4331(4)	-3762(4)	8741(4)	28(3)
C23D	4023(4)	-4221(4)	9328(4)	33(3)
C24D	4233(5)	-4423(5)	9734(5)	42(3)
C25D	4748(5)	-4179(5)	9555(5)	38(3)
C26D	5045(4)	-3708(4)	8969(4)	29(3)
C27D	5829(4)	-592(4)	7672(5)	23(2)
C28D	5689(4)	-379(4)	7199(4)	19(2)
C29D	5735(4)	194(5)	6738(5)	30(3)
C30D	5747(5)	631(5)	6837(5)	38(3)
C31D	5774(5)	1172(4)	6412(5)	39(3)
C32D	5771(4)	1281(4)	5882(4)	28(3)
C33D	5791(5)	858(5)	5757(5)	42(3)
C34D	5775(5)	321(4)	6181(5)	38(3)
C35D	6936(5)	907(4)	7505(4)	26(4)
C36D	6921(5)	1103(4)	6960(5)	34(4)
C37D	7092(5)	1663(5)	6517(4)	53(6)

C38D	7277(5)	2028(4)	6619(5)	44(5)
C39D	7292(5)	1832(4)	7163(6)	50(7)
C40D	7122(5)	1271(5)	7606(4)	24(4)
Cl1E	8445(6)	924(7)	6260(7)	78(5)
Cl2E	9310(8)	1652(9)	5084(8)	122(7)
C27E	8910(30)	1520(20)	5848(15)	130(30)
C35'	7250(10)	890(7)	7333(10)	76(12)
C36'	7688(10)	986(9)	6771(12)	88(13)
C37'	7960(8)	1524(11)	6304(9)	85(13)
C38'	7794(9)	1966(8)	6400(8)	73(11)
C39'	7355(8)	1869(7)	6963(10)	31(7)
C40'	7083(8)	1331(9)	7429(8)	37(8)
C41D	6550(5)	134(4)	8738(5)	35(3)
C42D	6080(5)	351(5)	8949(6)	50(4)
C43D	5890(6)	365(6)	9473(7)	72(5)
C44D	6168(6)	177(6)	9801(6)	65(4)
C45D	6614(5)	-69(7)	9629(6)	70(5)
C46D	6807(5)	-92(5)	9094(5)	48(3)
C47D	7445(5)	-118(5)	7858(5)	50(4)
C48D	7885(7)	69(6)	7866(5)	64(4)
C49D	8349(6)	-157(7)	7766(6)	71(5)
C50D	8410(5)	-578(7)	7622(6)	66(4)
C51D	7975(5)	-777(6)	7615(5)	54(4)
C52D	7503(5)	-543(5)	7736(4)	43(3)
C53D	6447(4)	-2274(4)	9494(4)	21(2)
C54D	6681(4)	-1718(4)	9194(4)	22(2)
C55D	7106(4)	-1579(5)	9246(5)	35(3)
C56D	7299(4)	-1987(5)	9596(4)	31(3)
C57D	7073(4)	-2540(4)	9906(4)	25(2)
C58D	6653(4)	-2675(4)	9851(4)	24(2)
C59D	5299(4)	-2777(4)	10260(4)	21(2)
C60D	5348(4)	-2744(4)	10715(4)	22(2)
C61D	4930(4)	-2992(4)	11304(4)	32(3)
C62D	4432(4)	-3265(4)	11478(4)	29(3)
C63D	4369(4)	-3283(4)	11046(5)	32(3)
C64D	4799(5)	-3056(4)	10452(4)	32(3)
C65D	6055(4)	-3070(4)	9386(4)	22(2)
C66D	6592(4)	-3011(4)	8907(4)	24(2)
C67D	6784(4)	-3450(4)	8814(5)	30(3)
C68D	6465(4)	-3975(5)	9226(5)	36(3)
C69D	5954(4)	-4050(5)	9705(5)	33(3)
C70D	5750(4)	-3605(4)	9789(4)	31(3)
C71D	4675(4)	-994(4)	8922(4)	17(2)
C72D	4731(4)	-534(4)	8961(4)	33(3)
C73D	4555(5)	-63(4)	8653(5)	38(3)
C74D	4343(5)	-32(5)	8289(5)	47(3)
C75D	4286(5)	-496(5)	8250(5)	47(3)
C76D	4446(4)	-975(4)	8576(4)	33(3)
C77D	4898(4)	-1600(4)	9937(4)	21(2)
C78D	5379(4)	-1282(4)	9758(4)	25(2)
C79D	5425(4)	-1220(4)	10180(5)	33(3)

C80D	5020(4)	-1471(4)	10782(5)	32(3)
C81D	4539(4)	-1795(4)	10977(4)	30(3)
C82D	4495(4)	-1859(4)	10539(4)	25(2)
C83D	4329(4)	-2148(4)	9594(4)	20(2)
C84D	3786(4)	-2199(4)	10019(4)	28(3)
C85D	3369(4)	-2574(5)	10184(4)	30(3)
C86D	3483(4)	-2890(5)	9920(5)	37(3)
C87D	4020(5)	-2857(4)	9485(5)	35(3)
C88D	4442(4)	-2492(5)	9327(5)	34(3)
Cl1	10117(1)	5510(2)	3880(1)	60(1)
Cl2	9477(2)	6411(2)	3785(2)	66(1)
C89	9606(5)	5814(5)	3698(6)	67(4)
Cl3	6370(8)	4456(8)	8796(9)	33(3)
Cl4	5527(11)	5139(10)	8837(9)	73(7)
Cl3'	6286(10)	4381(10)	8909(10)	79(7)
Cl4'	5491(7)	5152(7)	8842(5)	23(3)
C90	5832(4)	4664(5)	8616(5)	40(3)
Cl5	15054(3)	10368(3)	-5887(3)	52(2)
Cl6	14584(3)	11354(3)	-5913(3)	57(2)
C91	14545(12)	10769(14)	-6012(15)	47(8)
Cl7	14801(4)	10670(4)	-5811(4)	74(2)
Cl8	13862(3)	11226(3)	-5540(3)	63(2)
C92	14509(15)	11156(15)	-6155(12)	77(13)
Cl9	4329(5)	2845(5)	4776(5)	139(3)
Cl10	4914(5)	2214(5)	4210(5)	139(3)
C93	4442(15)	2175(10)	4922(11)	139(3)
Cl11	6729(4)	8624(4)	1982(4)	30(2)
Cl12	7051(4)	9772(4)	943(4)	30(2)
C94	6870(20)	9049(9)	1222(11)	30(2)
Cl13	10472(8)	1862(9)	5508(9)	117(5)
Cl14	9358(9)	2027(9)	6234(9)	117(5)
C95	10083(12)	2270(20)	5810(30)	117(5)
Cl15	8821(9)	778(9)	8064(9)	129(5)
Cl16	8715(10)	1575(9)	6879(10)	129(5)
C96	8480(20)	1240(30)	7695(15)	129(5)
Cl17	10023(5)	2536(6)	6005(6)	54(3)
Cl18	9185(7)	1661(7)	6922(8)	85(5)
C97	9680(30)	1960(20)	6139(14)	150(40)
C911	11039(4)	3695(4)	2857(3)	69(2)
C912	11341(4)	3760(3)	2209(3)	69(2)
C913	11643(3)	4367(3)	1835(3)	69(2)
C914	11978(4)	4421(3)	1198(3)	69(2)
C915	12274(4)	5028(4)	819(3)	69(2)
C916	12735(6)	5228(7)	830(7)	81(5)
C917	11872(14)	5339(15)	587(15)	96(11)
C921	8620(20)	1320(20)	6155(17)	73(8)
C922	8763(17)	1649(15)	6388(12)	73(8)
C923	8451(13)	1234(12)	7083(13)	73(8)
C924	8610(17)	1563(16)	7309(15)	73(8)
C925	8258(19)	1160(20)	8010(14)	73(8)
C931	5724(8)	8585(9)	3256(7)	69(4)

C932	6216(8)	8428(7)	2830(6)	69(4)
C933	6264(6)	8882(6)	2205(6)	69(4)
C934	6779(8)	8758(8)	1774(7)	69(4)
C935	6826(10)	9201(9)	1149(6)	69(4)
C901	6290(7)	3899(8)	2276(5)	15(2)
C902	6230(5)	3527(6)	2925(5)	15(2)
C903	5606(4)	3281(5)	3283(5)	15(2)
C904	5552(5)	2877(6)	3918(5)	15(2)
C905	4930(5)	2635(7)	4282(5)	15(2)
C941	6242(18)	4022(18)	2157(16)	84(7)
C942	6370(14)	3562(17)	2634(13)	84(7)
C943	5853(13)	3346(18)	3240(13)	84(7)
C944	6157(16)	3187(17)	3579(15)	84(7)
C945	5934(17)	3340(18)	4075(16)	84(7)

Table S10. Bond lengths [Å] for *cis*-**6-Ph**.

Bond	Length	Bond	Length
Pt1A-N1A	2.040(7)	C15A-C16A	1.358(13)
Pt1A-N5A	2.073(7)	C15A-C20A	1.432(14)
Pt1A-P3A	2.278(3)	C16A-C17A	1.407(14)
Pt1A-P4A	2.286(3)	C17A-C18A	1.368(14)
Au1A-C1A	2.036(10)	C18A-C19A	1.374(15)
Au1A-P1A	2.288(3)	C19A-C20A	1.378(14)
Au2A-C27A	2.020(10)	C21A-C26A	1.373(13)
Au2A-P2A	2.283(3)	C21A-C22A	1.406(13)
P1A-C9A	1.817(9)	C22A-C23A	1.373(14)
P1A-C15A	1.819(10)	C23A-C24A	1.390(15)
P1A-C21A	1.821(10)	C24A-C25A	1.385(15)
P2A-C35A	1.794(10)	C25A-C26A	1.417(14)
P2A-C47A	1.804(11)	C27A-C28A	1.446(13)
P2A-C41A	1.827(9)	C28A-C29A	1.450(12)
P3A-C59A	1.812(10)	C29A-C34A	1.385(13)
P3A-C65A	1.820(10)	C29A-C30A	1.394(13)
P3A-C53A	1.853(10)	C30A-C31A	1.406(13)
P4A-C83A	1.806(10)	C31A-C32A	1.369(14)
P4A-C71A	1.829(9)	C32A-C33A	1.374(14)
P4A-C77A	1.836(10)	C33A-C34A	1.388(13)
O1A-N4A	1.278(12)	C35A-C36A	1.365(15)
O2A-N4A	1.208(11)	C35A-C40A	1.374(14)
O3A-N8A	1.228(11)	C36A-C37A	1.400(16)
O4A-N8A	1.235(11)	C37A-C38A	1.343(18)
N1A-C1A	1.345(11)	C38A-C39A	1.377(16)
N1A-N2A	1.363(10)	C39A-C40A	1.379(14)
N2A-N3A	1.316(10)	C41A-C42A	1.351(13)
N3A-C2A	1.352(11)	C41A-C46A	1.412(13)
N4A-C6A	1.450(13)	C42A-C43A	1.375(13)
N5A-C27A	1.324(11)	C43A-C44A	1.378(14)
N5A-N6A	1.335(10)	C44A-C45A	1.374(14)
N6A-N7A	1.315(10)	C45A-C46A	1.360(14)
N7A-C28A	1.356(12)	C47A-C52A	1.363(13)
N8A-C32A	1.476(12)	C47A-C48A	1.373(14)
C1A-C2A	1.399(13)	C48A-C49A	1.422(16)
C2A-C3A	1.473(13)	C49A-C50A	1.352(16)
C3A-C8A	1.401(13)	C50A-C51A	1.359(15)
C3A-C4A	1.402(14)	C51A-C52A	1.415(15)
C4A-C5A	1.368(13)	C53A-C54A	1.360(13)
C5A-C6A	1.385(14)	C53A-C58A	1.367(14)
C6A-C7A	1.376(13)	C54A-C55A	1.373(14)
C7A-C8A	1.372(13)	C55A-C56A	1.376(15)
C9A-C14A	1.381(14)	C56A-C57A	1.374(15)
C9A-C10A	1.417(13)	C57A-C58A	1.383(14)
C10A-C11A	1.398(13)	C59A-C64A	1.375(13)
C11A-C12A	1.383(14)	C59A-C60A	1.398(13)
C12A-C13A	1.385(14)	C60A-C61A	1.364(15)
C13A-C14A	1.381(13)	C61A-C62A	1.374(16)

C62A-C63A	1.371(15)	N1B-C1B	1.315(11)
C63A-C64A	1.417(14)	N1B-N2B	1.364(10)
C65A-C70A	1.391(12)	N2B-N3B	1.298(10)
C65A-C66A	1.410(13)	N3B-C2B	1.358(12)
C66A-C67A	1.383(13)	N4B-C6B	1.464(15)
C67A-C68A	1.396(14)	N5B-N6B	1.333(10)
C68A-C69A	1.364(15)	N5B-C27B	1.347(11)
C69A-C70A	1.396(13)	N6B-N7B	1.322(10)
C71A-C76A	1.364(13)	N7B-C28B	1.352(12)
C71A-C72A	1.382(14)	N8B-C32B	1.485(15)
C72A-C73A	1.418(13)	C1B-C2B	1.412(12)
C73A-C74A	1.388(15)	C2B-C3B	1.470(13)
C74A-C75A	1.354(16)	C3B-C4B	1.395(13)
C75A-C76A	1.374(13)	C3B-C8B	1.411(13)
C77A-C78A	1.409(13)	C4B-C5B	1.376(14)
C77A-C82A	1.410(13)	C5B-C6B	1.360(15)
C78A-C79A	1.375(14)	C6B-C7B	1.365(14)
C79A-C80A	1.354(14)	C7B-C8B	1.375(13)
C80A-C81A	1.407(14)	C9B-C10B	1.357(15)
C81A-C82A	1.367(14)	C9B-C14B	1.385(15)
C83A-C84A	1.383(13)	C10B-C11B	1.402(15)
C83A-C88A	1.418(14)	C11B-C12B	1.358(18)
C84A-C85A	1.392(14)	C12B-C13B	1.41(2)
C85A-C86A	1.379(15)	C13B-C14B	1.366(17)
C86A-C87A	1.392(16)	C15B-C20B	1.397(14)
C87A-C88A	1.385(15)	C15B-C16B	1.421(13)
Pt1B-N1B	2.058(7)	C16B-C17B	1.412(15)
Pt1B-N5B	2.072(7)	C17B-C18B	1.371(16)
Pt1B-P3B	2.283(3)	C18B-C19B	1.377(15)
Pt1B-P4B	2.295(2)	C19B-C20B	1.372(14)
Au1B-C1B	2.027(10)	C21B-C26B	1.369(13)
Au1B-P1B	2.290(3)	C21B-C22B	1.375(14)
Au2B-C27B	1.998(9)	C22B-C23B	1.424(14)
Au2B-P2B	2.283(3)	C23B-C24B	1.382(15)
P1B-C15B	1.786(10)	C24B-C25B	1.370(15)
P1B-C9B	1.805(10)	C25B-C26B	1.389(14)
P1B-C21B	1.840(10)	C27B-C28B	1.393(13)
P2B-C47B	1.788(13)	C28B-C29B	1.496(14)
P2B-C35B	1.802(11)	C29B-C34B	1.377(14)
P2B-C41B	1.877(11)	C29B-C30B	1.418(14)
P3B-C59B	1.816(11)	C30B-C31B	1.371(15)
P3B-C65B	1.830(10)	C31B-C32B	1.364(16)
P3B-C53B	1.833(10)	C32B-C33B	1.350(14)
P4B-C83B	1.811(11)	C33B-C34B	1.397(14)
P4B-C71B	1.829(10)	C35B-C40B	1.389(15)
P4B-C77B	1.837(10)	C35B-C36B	1.391(16)
O1B-N4B	1.236(14)	C36B-C37B	1.401(16)
O2B-N4B	1.235(14)	C37B-C38B	1.354(17)
O3B-N8B	1.192(13)	C38B-C39B	1.361(17)
O4B-N8B	1.307(19)	C39B-C40B	1.380(16)
O4B'-N8B	1.35(2)	C41B-C46B	1.347(16)

C41B-C42B	1.372(16)	Pt1C-P4C	2.312(8)
C42B-C43B	1.390(16)	Au1C-C1C	2.032(11)
C43B-C44B	1.40(2)	Au1C-P1C	2.302(3)
C44B-C45B	1.38(2)	Au2C-C27C	2.015(10)
C45B-C46B	1.369(18)	Au2C-P2C	2.287(3)
C47B-C52B	1.358(15)	P1C-C21C	1.772(16)
C47B-C48B	1.406(15)	P1C-C9C	1.819(12)
C48B-C49B	1.395(17)	P1C-C15C	1.840(11)
C49B-C50B	1.372(17)	P1C-C21E	1.907(13)
C50B-C51B	1.368(17)	P2C-C41C	1.793(7)
C51B-C52B	1.399(16)	P2C-C47C	1.801(12)
C53B-C58B	1.364(14)	P2C-C35C	1.832(11)
C53B-C54B	1.415(14)	P3C-C53C	1.797(11)
C54B-C55B	1.362(14)	P3C-C65C	1.799(11)
C55B-C56B	1.362(15)	P3C-C59C	1.850(11)
C56B-C57B	1.395(16)	P4C-C71C	1.710(13)
C57B-C58B	1.375(15)	P4C-C83C	1.857(11)
C59B-C60B	1.391(14)	P4C-C77C	2.053(14)
C59B-C64B	1.400(13)	P4'-C77'	1.623(14)
C60B-C61B	1.397(15)	P4'-C83'	1.825(12)
C61B-C62B	1.329(15)	P4'-C71C	1.964(13)
C62B-C63B	1.398(14)	O1C-N4C	1.204(12)
C63B-C64B	1.382(13)	O2C-N4C	1.221(11)
C65B-C66B	1.385(13)	O3C-N8C	1.219(12)
C65B-C70B	1.403(14)	O4C-N8C	1.234(11)
C66B-C67B	1.400(14)	N1C-N2C	1.370(11)
C67B-C68B	1.396(16)	N1C-C1C	1.373(12)
C68B-C69B	1.373(15)	N2C-N3C	1.319(11)
C69B-C70B	1.383(13)	N3C-C2C	1.356(12)
C71B-C72B	1.382(15)	N4C-C6C	1.459(13)
C71B-C76B	1.391(14)	N5C-N6C	1.347(11)
C72B-C73B	1.399(14)	N5C-C27C	1.350(12)
C73B-C74B	1.352(16)	N6C-N7C	1.348(11)
C74B-C75B	1.397(18)	N7C-C28C	1.341(12)
C75B-C76B	1.403(15)	N8C-C32C	1.478(13)
C77B-C78B	1.384(14)	C1C-C2C	1.402(14)
C77B-C82B	1.401(13)	C2C-C3C	1.470(14)
C78B-C79B	1.379(16)	C3C-C8C	1.346(14)
C79B-C80B	1.368(15)	C3C-C4C	1.398(16)
C80B-C81B	1.381(15)	C4C-C5C	1.394(16)
C81B-C82B	1.363(14)	C5C-C6C	1.346(15)
C83B-C88B	1.374(13)	C6C-C7C	1.353(15)
C83B-C84B	1.410(13)	C7C-C8C	1.387(14)
C84B-C85B	1.378(15)	C9C-C14C	1.367(16)
C85B-C86B	1.375(15)	C9C-C10C	1.367(14)
C86B-C87B	1.389(14)	C10C-C11C	1.401(16)
C87B-C88B	1.358(14)	C11C-C12C	1.355(15)
Pt1C-N1C	2.029(8)	C12C-C13C	1.327(17)
Pt1C-N5C	2.062(8)	C13C-C14C	1.408(19)
Pt1C-P4'	2.257(8)	C15C-C20C	1.335(15)
Pt1C-P3C	2.274(3)	C15C-C16C	1.375(15)

C16C-C17C	1.420(15)	C61C-C62C	1.37(3)
C17C-C18C	1.343(16)	C62C-C63C	1.31(3)
C18C-C19C	1.372(18)	C63C-C64C	1.45(2)
C19C-C20C	1.406(17)	C65C-C70C	1.375(17)
C21C-C22C	1.3900	C65C-C66C	1.381(14)
C21C-C26C	1.3900	C66C-C67C	1.357(16)
C22C-C23C	1.3900	C67C-C68C	1.37(2)
C23C-C24C	1.3900	C68C-C69C	1.39(2)
C24C-C25C	1.3900	C69C-C70C	1.452(17)
C25C-C26C	1.3900	C71C-C72C	1.342(15)
C21E-C22E	1.3900	C71C-C76C	1.374(15)
C21E-C26E	1.3900	C72C-C73C	1.400(16)
C22E-C23E	1.3900	C73C-C74C	1.353(19)
C23E-C24E	1.3900	C74C-C75C	1.36(2)
C24E-C25E	1.3900	C75C-C76C	1.391(18)
C25E-C26E	1.3900	C77C-C78C	1.3900
C27C-C28C	1.409(13)	C77C-C82C	1.3900
C28C-C29C	1.456(13)	C78C-C79C	1.3900
C29C-C30C	1.361(13)	C79C-C80C	1.3900
C29C-C34C	1.419(14)	C80C-C81C	1.3900
C30C-C31C	1.402(14)	C81C-C82C	1.3900
C31C-C32C	1.333(15)	C77'-C78'	1.3900
C32C-C33C	1.373(15)	C77'-C82'	1.3900
C33C-C34C	1.374(14)	C78'-C79'	1.3900
C35C-C36C	1.328(15)	C79'-C80'	1.3900
C35C-C40C	1.349(15)	C80'-C81'	1.3900
C36C-C37C	1.389(14)	C81'-C82'	1.3900
C37C-C38C	1.340(15)	C83C-C84C	1.3900
C38C-C39C	1.325(18)	C83C-C88C	1.3900
C39C-C40C	1.412(17)	C84C-C85C	1.3900
C41C-C42C	1.3900	C85C-C86C	1.3900
C41C-C46C	1.3900	C86C-C87C	1.3900
C42C-C43C	1.3900	C87C-C88C	1.3900
C43C-C44C	1.3900	C83'-C84'	1.3900
C44C-C45C	1.3900	C83'-C88'	1.3900
C45C-C46C	1.3900	C84'-C85'	1.3900
C47C-C52C	1.376(15)	C85'-C86'	1.3900
C47C-C48C	1.410(15)	C86'-C87'	1.3900
C48C-C49C	1.372(17)	C87'-C88'	1.3900
C49C-C50C	1.373(18)	Pt1D-N1D	2.052(7)
C50C-C51C	1.350(18)	Pt1D-N5D	2.075(7)
C51C-C52C	1.409(17)	Pt1D-P4D	2.276(3)
C53C-C54C	1.366(15)	Pt1D-P3D	2.295(2)
C53C-C58C	1.420(15)	Au1D-C1D	2.009(10)
C54C-C55C	1.420(17)	Au1D-P1D	2.274(3)
C55C-C56C	1.405(18)	Au2D-C27D	2.018(9)
C56C-C57C	1.381(18)	Au2D-P2D	2.287(3)
C57C-C58C	1.384(17)	P1D-C9D	1.802(10)
C59C-C60C	1.370(18)	P1D-C15D	1.816(11)
C59C-C64C	1.419(18)	P1D-C21D	1.835(10)
C60C-C61C	1.399(18)	P2D-C47D	1.798(15)

P2D-C35D	1.816(9)	C24D-C25D	1.394(15)
P2D-C41D	1.821(11)	C25D-C26D	1.404(13)
P2D-C35'	1.947(17)	C27D-C28D	1.410(12)
P3D-C65D	1.800(10)	C28D-C29D	1.465(13)
P3D-C59D	1.816(9)	C29D-C30D	1.393(14)
P3D-C53D	1.823(10)	C29D-C34D	1.396(13)
P4D-C83D	1.810(10)	C30D-C31D	1.384(14)
P4D-C77D	1.837(10)	C31D-C32D	1.392(13)
P4D-C71D	1.843(9)	C32D-C33D	1.387(15)
O1D-N4D	1.26(2)	C33D-C34D	1.383(14)
O2D-N4D	1.10(2)	C35D-C36D	1.3900
O1D'-N4D	1.29(3)	C35D-C40D	1.3900
O2D'-N4D	1.37(3)	C36D-C37D	1.3900
O3D-N8D	1.25(3)	C37D-C38D	1.3900
O4D-N8D	1.23(3)	C38D-C39D	1.3900
O3D'-N8D	1.283(16)	C39D-C40D	1.3900
O4D'-N8D	1.149(18)	Cl1E-C27E	1.72(2)
N1D-N2D	1.362(10)	Cl2E-C27E	1.77(2)
N1D-C1D	1.428(12)	C35'-C36'	1.3900
N2D-N3D	1.315(10)	C35'-C40'	1.3900
N3D-C2D	1.368(11)	C36'-C37'	1.3900
N4D-C6D	1.503(14)	C37'-C38'	1.3900
N5D-C27D	1.307(12)	C38'-C39'	1.3900
N5D-N6D	1.360(11)	C39'-C40'	1.3900
N6D-N7D	1.315(10)	C41D-C42D	1.380(16)
N7D-C28D	1.352(12)	C41D-C46D	1.381(14)
N8D-C32D	1.449(13)	C42D-C43D	1.352(18)
C1D-C2D	1.357(12)	C43D-C44D	1.366(18)
C2D-C3D	1.456(13)	C44D-C45D	1.361(18)
C3D-C4D	1.356(15)	C45D-C46D	1.393(15)
C3D-C8D	1.394(14)	C47D-C52D	1.374(16)
C4D-C5D	1.387(16)	C47D-C48D	1.392(16)
C5D-C6D	1.362(16)	C48D-C49D	1.35(2)
C6D-C7D	1.394(15)	C49D-C50D	1.40(2)
C7D-C8D	1.379(14)	C50D-C51D	1.395(16)
C9D-C14D	1.398(13)	C51D-C52D	1.379(17)
C9D-C10D	1.397(14)	C53D-C58D	1.390(12)
C10D-C11D	1.386(14)	C53D-C54D	1.399(13)
C11D-C12D	1.365(14)	C54D-C55D	1.372(13)
C12D-C13D	1.348(16)	C55D-C56D	1.364(14)
C13D-C14D	1.384(15)	C56D-C57D	1.384(14)
C15D-C20D	1.380(14)	C57D-C58D	1.361(13)
C15D-C16D	1.380(13)	C59D-C64D	1.387(13)
C16D-C17D	1.355(14)	C59D-C60D	1.413(12)
C17D-C18D	1.410(15)	C60D-C61D	1.354(12)
C18D-C19D	1.385(15)	C61D-C62D	1.393(14)
C19D-C20D	1.397(14)	C62D-C63D	1.348(14)
C21D-C26D	1.373(13)	C63D-C64D	1.375(13)
C21D-C22D	1.381(13)	C65D-C70D	1.394(13)
C22D-C23D	1.397(13)	C65D-C66D	1.427(12)
C23D-C24D	1.390(15)	C66D-C67D	1.391(14)

C67D-C68D	1.385(14)	Cl9-C93	1.749(19)
C68D-C69D	1.371(13)	Cl10-C93	1.778(19)
C69D-C70D	1.404(14)	Cl11-C94	1.739(19)
C71D-C72D	1.382(13)	Cl12-C94	1.80(2)
C71D-C76D	1.384(13)	Cl13-C95	1.76(2)
C72D-C73D	1.377(14)	Cl14-C95	1.78(2)
C73D-C74D	1.384(15)	Cl15-C96	1.74(2)
C74D-C75D	1.390(17)	Cl16-C96	1.81(2)
C75D-C76D	1.383(14)	Cl17-C97	1.747(5)
C77D-C82D	1.363(12)	Cl18-C97	1.753(5)
C77D-C78D	1.411(13)	C911-C912	1.5449
C78D-C79D	1.362(13)	C912-C913	1.5517
C79D-C80D	1.366(13)	C913-C914	1.5337
C80D-C81D	1.402(14)	C914-C915	1.5432
C81D-C82D	1.403(13)	C921-C922	1.5433
C83D-C84D	1.386(12)	C922-C923	1.5339
C83D-C88D	1.431(14)	C923-C924	1.5517
C84D-C85D	1.385(14)	C924-C925	1.5445
C85D-C86D	1.354(14)	C931-C932	1.5450
C86D-C87D	1.397(14)	C932-C933	1.5514
C87D-C88D	1.385(14)	C933-C934	1.5335
Cl1-C89	1.745(12)	C934-C935	1.5431
Cl2-C89	1.793(13)	C901-C902	1.5450
Cl3-C90	1.76(2)	C902-C903	1.5513
Cl4-C90	1.73(3)	C903-C904	1.5338
Cl3'-C90	1.75(2)	C904-C905	1.5432
Cl4'-C90	1.80(2)	C941-C942	1.511(19)
Cl5-C91	1.78(3)	C942-C943	1.494(19)
Cl6-C91	1.82(3)	C943-C944	1.458(19)
Cl7-C92	1.65(4)	C944-C945	1.512(19)
Cl8-C92	1.91(3)		

Symmetry transformations used to generate equivalent atoms:

Table S11. Bond Angles [°] for *cis*-**6-Ph**.

Bond	Angle	Bond	Angle
N1A-Pt1A-N5A	86.2(3)	O3A-N8A-O4A	123.4(9)
N1A-Pt1A-P3A	86.3(2)	O3A-N8A-C32A	118.8(10)
N5A-Pt1A-P3A	172.3(2)	O4A-N8A-C32A	117.8(9)
N1A-Pt1A-P4A	175.3(2)	N1A-C1A-C2A	102.7(8)
N5A-Pt1A-P4A	89.3(2)	N1A-C1A-Au1A	121.7(7)
P3A-Pt1A-P4A	98.25(9)	C2A-C1A-Au1A	135.5(7)
C1A-Au1A-P1A	176.0(3)	N3A-C2A-C1A	109.7(8)
C27A-Au2A-P2A	173.6(3)	N3A-C2A-C3A	119.5(9)
C9A-P1A-C15A	105.5(5)	C1A-C2A-C3A	130.7(9)
C9A-P1A-C21A	107.4(5)	C8A-C3A-C4A	117.3(10)
C15A-P1A-C21A	101.8(5)	C8A-C3A-C2A	123.3(10)
C9A-P1A-Au1A	114.3(3)	C4A-C3A-C2A	119.5(9)
C15A-P1A-Au1A	110.6(3)	C5A-C4A-C3A	121.7(10)
C21A-P1A-Au1A	116.1(3)	C4A-C5A-C6A	119.2(10)
C35A-P2A-C47A	107.7(5)	C7A-C6A-C5A	121.1(9)
C35A-P2A-C41A	103.7(5)	C7A-C6A-N4A	118.9(10)
C47A-P2A-C41A	104.6(5)	C5A-C6A-N4A	120.0(10)
C35A-P2A-Au2A	113.7(4)	C8A-C7A-C6A	119.3(10)
C47A-P2A-Au2A	117.9(3)	C7A-C8A-C3A	121.5(10)
C41A-P2A-Au2A	107.9(3)	C14A-C9A-C10A	118.8(9)
C59A-P3A-C65A	110.6(4)	C14A-C9A-P1A	124.4(8)
C59A-P3A-C53A	104.0(5)	C10A-C9A-P1A	116.8(7)
C65A-P3A-C53A	100.3(4)	C11A-C10A-C9A	118.8(9)
C59A-P3A-Pt1A	110.5(3)	C12A-C11A-C10A	121.6(10)
C65A-P3A-Pt1A	116.0(3)	C11A-C12A-C13A	118.7(10)
C53A-P3A-Pt1A	114.4(3)	C14A-C13A-C12A	120.8(10)
C83A-P4A-C71A	107.2(5)	C9A-C14A-C13A	121.3(10)
C83A-P4A-C77A	101.6(5)	C16A-C15A-C20A	118.9(10)
C71A-P4A-C77A	101.8(4)	C16A-C15A-P1A	125.1(9)
C83A-P4A-Pt1A	110.5(4)	C20A-C15A-P1A	116.0(8)
C71A-P4A-Pt1A	116.5(3)	C15A-C16A-C17A	120.3(10)
C77A-P4A-Pt1A	117.6(3)	C18A-C17A-C16A	119.6(10)
C1A-N1A-N2A	112.1(8)	C17A-C18A-C19A	121.9(10)
C1A-N1A-Pt1A	130.1(6)	C18A-C19A-C20A	118.8(11)
N2A-N1A-Pt1A	117.8(6)	C19A-C20A-C15A	120.6(10)
N3A-N2A-N1A	106.8(7)	C26A-C21A-C22A	120.9(10)
N2A-N3A-C2A	108.7(8)	C26A-C21A-P1A	118.9(8)
O2A-N4A-O1A	121.1(10)	C22A-C21A-P1A	120.1(8)
O2A-N4A-C6A	120.8(10)	C23A-C22A-C21A	118.8(10)
O1A-N4A-C6A	117.9(10)	C22A-C23A-C24A	121.8(11)
C27A-N5A-N6A	113.5(8)	C25A-C24A-C23A	119.1(11)
C27A-N5A-Pt1A	128.4(7)	C24A-C25A-C26A	120.2(10)
N6A-N5A-Pt1A	118.1(6)	C21A-C26A-C25A	119.2(10)
N7A-N6A-N5A	107.8(7)	N5A-C27A-C28A	102.2(8)
N6A-N7A-C28A	108.6(8)	N5A-C27A-Au2A	125.6(7)

C28A-C27A-Au2A	132.2(7)	C63A-C62A-C61A	118.9(11)
N7A-C28A-C27A	107.9(8)	C62A-C63A-C64A	119.2(11)
N7A-C28A-C29A	121.3(9)	C59A-C64A-C63A	121.8(11)
C27A-C28A-C29A	130.7(9)	C70A-C65A-C66A	117.0(9)
C34A-C29A-C30A	118.4(9)	C70A-C65A-P3A	126.9(8)
C34A-C29A-C28A	123.2(9)	C66A-C65A-P3A	116.1(7)
C30A-C29A-C28A	118.3(9)	C67A-C66A-C65A	121.7(9)
C29A-C30A-C31A	120.8(9)	C66A-C67A-C68A	119.1(10)
C32A-C31A-C30A	118.2(9)	C69A-C68A-C67A	120.8(10)
C31A-C32A-C33A	122.6(9)	C68A-C69A-C70A	119.6(9)
C31A-C32A-N8A	118.4(10)	C65A-C70A-C69A	121.8(10)
C33A-C32A-N8A	119.0(10)	C76A-C71A-C72A	119.1(9)
C32A-C33A-C34A	118.4(10)	C76A-C71A-P4A	123.2(8)
C29A-C34A-C33A	121.6(10)	C72A-C71A-P4A	117.7(8)
C36A-C35A-C40A	118.1(10)	C71A-C72A-C73A	120.6(10)
C36A-C35A-P2A	118.6(8)	C74A-C73A-C72A	118.1(11)
C40A-C35A-P2A	123.3(8)	C75A-C74A-C73A	119.8(10)
C35A-C36A-C37A	119.6(12)	C74A-C75A-C76A	121.7(11)
C38A-C37A-C36A	121.9(14)	C71A-C76A-C75A	120.5(11)
C37A-C38A-C39A	118.8(12)	C78A-C77A-C82A	117.8(9)
C38A-C39A-C40A	119.5(12)	C78A-C77A-P4A	123.4(7)
C35A-C40A-C39A	122.0(11)	C82A-C77A-P4A	118.8(8)
C42A-C41A-C46A	117.5(9)	C79A-C78A-C77A	119.4(9)
C42A-C41A-P2A	123.8(8)	C80A-C79A-C78A	122.6(11)
C46A-C41A-P2A	118.6(8)	C79A-C80A-C81A	119.2(10)
C41A-C42A-C43A	122.6(10)	C82A-C81A-C80A	119.6(10)
C42A-C43A-C44A	118.5(10)	C81A-C82A-C77A	121.4(10)
C45A-C44A-C43A	121.1(10)	C84A-C83A-C88A	118.1(10)
C46A-C45A-C44A	118.9(10)	C84A-C83A-P4A	123.4(8)
C45A-C46A-C41A	121.4(10)	C88A-C83A-P4A	118.5(8)
C52A-C47A-C48A	119.0(11)	C83A-C84A-C85A	121.7(10)
C52A-C47A-P2A	121.7(8)	C86A-C85A-C84A	118.7(11)
C48A-C47A-P2A	119.2(9)	C85A-C86A-C87A	121.8(11)
C47A-C48A-C49A	119.8(11)	C88A-C87A-C86A	118.7(12)
C50A-C49A-C48A	120.1(11)	C87A-C88A-C83A	120.9(11)
C49A-C50A-C51A	120.6(11)	N5B-Pt1B-P3B	173.5(2)
C50A-C51A-C52A	119.3(11)	N1B-Pt1B-P4B	176.5(2)
C47A-C52A-C51A	121.0(10)	N5B-Pt1B-P4B	89.51(19)
C54A-C53A-C58A	117.9(10)	P3B-Pt1B-P4B	96.91(9)
C54A-C53A-P3A	123.0(8)	C1B-Au1B-P1B	176.1(3)
C58A-C53A-P3A	119.0(8)	C27B-Au2B-P2B	172.9(3)
C53A-C54A-C55A	122.7(11)	C15B-P1B-C9B	101.7(5)
C54A-C55A-C56A	118.9(11)	C15B-P1B-C21B	106.7(4)
C57A-C56A-C55A	119.4(11)	C9B-P1B-C21B	105.7(5)
C56A-C57A-C58A	120.1(12)	C15B-P1B-Au1B	113.3(4)
C53A-C58A-C57A	120.8(11)	C9B-P1B-Au1B	112.7(3)
C64A-C59A-C60A	117.2(10)	C21B-P1B-Au1B	115.6(3)
C64A-C59A-P3A	118.5(8)	C47B-P2B-C35B	108.0(5)
C60A-C59A-P3A	124.2(8)	C47B-P2B-C41B	107.7(6)
C61A-C60A-C59A	120.8(11)	C35B-P2B-C41B	103.4(5)
C60A-C61A-C62A	122.1(11)	C47B-P2B-Au2B	116.2(4)

C35B-P2B-Au2B	115.4(4)	C14B-C9B-P1B	117.9(9)
C41B-P2B-Au2B	105.0(4)	C9B-C10B-C11B	123.4(12)
C59B-P3B-C65B	110.8(5)	C12B-C11B-C10B	117.5(12)
C59B-P3B-C53B	102.6(5)	C11B-C12B-C13B	121.7(13)
C65B-P3B-C53B	101.2(5)	C14B-C13B-C12B	117.4(14)
C59B-P3B-Pt1B	110.8(3)	C13B-C14B-C9B	123.3(14)
C65B-P3B-Pt1B	115.0(3)	C20B-C15B-C16B	117.8(10)
C53B-P3B-Pt1B	115.4(3)	C20B-C15B-P1B	120.6(8)
C83B-P4B-C71B	111.9(5)	C16B-C15B-P1B	121.5(9)
C83B-P4B-C77B	101.0(4)	C17B-C16B-C15B	118.7(11)
C71B-P4B-C77B	101.7(4)	C18B-C17B-C16B	121.5(11)
C83B-P4B-Pt1B	109.6(3)	C17B-C18B-C19B	119.4(11)
C71B-P4B-Pt1B	113.8(3)	C20B-C19B-C18B	120.6(12)
C77B-P4B-Pt1B	118.0(3)	C19B-C20B-C15B	121.9(10)
C1B-N1B-N2B	113.7(8)	C26B-C21B-C22B	119.8(10)
C1B-N1B-Pt1B	130.7(6)	C26B-C21B-P1B	123.0(8)
N2B-N1B-Pt1B	115.6(6)	C22B-C21B-P1B	117.2(7)
N3B-N2B-N1B	106.1(8)	C21B-C22B-C23B	120.1(10)
N2B-N3B-C2B	109.3(8)	C24B-C23B-C22B	119.0(10)
O2B-N4B-O1B	123.5(12)	C25B-C24B-C23B	120.0(10)
O2B-N4B-C6B	118.0(12)	C24B-C25B-C26B	120.6(11)
O1B-N4B-C6B	118.4(12)	C21B-C26B-C25B	120.6(10)
N6B-N5B-C27B	112.5(7)	N5B-C27B-C28B	100.7(8)
N6B-N5B-Pt1B	117.5(6)	N5B-C27B-Au2B	122.7(6)
C27B-N5B-Pt1B	129.9(6)	C28B-C27B-Au2B	136.5(7)
N7B-N6B-N5B	109.1(8)	N7B-C28B-C27B	112.5(9)
N6B-N7B-C28B	105.1(8)	N7B-C28B-C29B	117.3(9)
O3B-N8B-O4B	117.1(13)	C27B-C28B-C29B	130.3(10)
O3B-N8B-O4B'	123.5(15)	C34B-C29B-C30B	117.2(10)
O4B-N8B-O4B'	50.9(10)	C34B-C29B-C28B	123.3(9)
O3B-N8B-C32B	121.4(11)	C30B-C29B-C28B	119.4(10)
O4B-N8B-C32B	114.7(13)	C31B-C30B-C29B	121.5(11)
O4B'-N8B-C32B	109.7(14)	C32B-C31B-C30B	117.5(11)
N1B-C1B-C2B	102.2(8)	C33B-C32B-C31B	124.8(11)
N1B-C1B-Au1B	124.5(7)	C33B-C32B-N8B	116.6(11)
C2B-C1B-Au1B	133.1(7)	C31B-C32B-N8B	118.6(11)
N3B-C2B-C1B	108.7(8)	C32B-C33B-C34B	116.9(11)
N3B-C2B-C3B	118.2(9)	C29B-C34B-C33B	122.1(10)
C1B-C2B-C3B	133.1(9)	C40B-C35B-C36B	117.1(11)
C4B-C3B-C8B	117.2(9)	C40B-C35B-P2B	122.5(10)
C4B-C3B-C2B	120.5(10)	C36B-C35B-P2B	120.4(9)
C8B-C3B-C2B	122.3(9)	C35B-C36B-C37B	121.5(12)
C5B-C4B-C3B	120.6(11)	C38B-C37B-C36B	119.7(13)
C6B-C5B-C4B	120.4(11)	C37B-C38B-C39B	119.7(13)
C5B-C6B-C7B	121.3(10)	C38B-C39B-C40B	121.6(13)
C5B-C6B-N4B	119.6(11)	C39B-C40B-C35B	120.4(13)
C7B-C6B-N4B	119.1(12)	C46B-C41B-C42B	122.9(11)
C6B-C7B-C8B	119.2(11)	C46B-C41B-P2B	122.2(10)
C7B-C8B-C3B	121.3(9)	C42B-C41B-P2B	114.8(9)
C10B-C9B-C14B	116.8(10)	C41B-C42B-C43B	118.8(13)
C10B-C9B-P1B	125.4(9)	C42B-C43B-C44B	118.9(14)

C45B-C44B-C43B	119.6(14)	C82B-C81B-C80B	119.4(11)
C46B-C45B-C44B	120.8(15)	C81B-C82B-C77B	122.2(10)
C41B-C46B-C45B	118.9(14)	C88B-C83B-C84B	118.2(10)
C52B-C47B-C48B	117.5(12)	C88B-C83B-P4B	121.3(7)
C52B-C47B-P2B	124.8(10)	C84B-C83B-P4B	120.5(8)
C48B-C47B-P2B	117.3(9)	C85B-C84B-C83B	119.7(11)
C49B-C48B-C47B	120.5(12)	C86B-C85B-C84B	120.7(11)
C50B-C49B-C48B	119.9(14)	C85B-C86B-C87B	119.4(11)
C50B-C49B-H49B	120.1	C88B-C87B-C86B	119.8(11)
C48B-C49B-H49B	120.1	C87B-C88B-C83B	122.0(10)
C51B-C50B-C49B	120.4(13)	N1C-Pt1C-N5C	88.4(3)
C50B-C51B-C52B	119.1(13)	N1C-Pt1C-P4'	174.5(3)
C47B-C52B-C51B	122.4(12)	N5C-Pt1C-P4'	86.9(3)
C58B-C53B-C54B	117.1(10)	N1C-Pt1C-P3C	88.3(2)
C58B-C53B-P3B	119.6(9)	N5C-Pt1C-P3C	176.6(2)
C54B-C53B-P3B	123.3(8)	P4'-Pt1C-P3C	96.5(2)
C55B-C54B-C53B	120.7(10)	N1C-Pt1C-P4C	171.8(3)
C54B-C55B-C56B	120.8(11)	N5C-Pt1C-P4C	85.7(3)
C55B-C56B-C57B	120.1(11)	P4'-Pt1C-P4C	8.5(3)
C58B-C57B-C56B	118.4(11)	P3C-Pt1C-P4C	97.7(2)
C53B-C58B-C57B	122.9(11)	C1C-Au1C-P1C	177.7(3)
C60B-C59B-C64B	117.0(10)	C27C-Au2C-P2C	171.3(3)
C60B-C59B-P3B	124.5(9)	C21C-P1C-C9C	112.4(8)
C64B-C59B-P3B	118.4(8)	C21C-P1C-C15C	103.2(7)
C59B-C60B-C61B	120.8(11)	C9C-P1C-C15C	104.1(5)
C62B-C61B-C60B	120.8(11)	C21C-P1C-C21E	14.1(10)
C61B-C62B-C63B	120.7(11)	C9C-P1C-C21E	98.3(7)
C64B-C63B-C62B	118.9(10)	C15C-P1C-C21E	107.6(8)
C63B-C64B-C59B	121.6(10)	C21C-P1C-Au1C	108.4(8)
C66B-C65B-C70B	118.9(10)	C9C-P1C-Au1C	113.9(4)
C66B-C65B-P3B	126.1(8)	C15C-P1C-Au1C	114.4(4)
C70B-C65B-P3B	114.9(7)	C21E-P1C-Au1C	116.7(6)
C65B-C66B-C67B	121.0(11)	C41C-P2C-C47C	109.2(5)
C68B-C67B-C66B	119.1(11)	C41C-P2C-C35C	103.1(5)
C69B-C68B-C67B	120.0(11)	C47C-P2C-C35C	103.1(5)
C68B-C69B-C70B	121.1(11)	C41C-P2C-Au2C	114.8(3)
C69B-C70B-C65B	120.0(10)	C47C-P2C-Au2C	116.6(4)
C72B-C71B-C76B	120.4(10)	C35C-P2C-Au2C	108.5(4)
C72B-C71B-P4B	115.7(8)	C53C-P3C-C65C	111.7(5)
C76B-C71B-P4B	123.8(9)	C53C-P3C-C59C	100.9(6)
C71B-C72B-C73B	120.0(11)	C65C-P3C-C59C	102.6(6)
C74B-C73B-C72B	120.7(12)	C53C-P3C-Pt1C	109.7(4)
C73B-C74B-C75B	119.6(12)	C65C-P3C-Pt1C	114.7(4)
C74B-C75B-C76B	120.8(12)	C59C-P3C-Pt1C	116.2(4)
C71B-C76B-C75B	118.4(12)	C71C-P4C-C83C	104.3(7)
C78B-C77B-C82B	117.0(10)	C71C-P4C-C77C	100.9(7)
C78B-C77B-P4B	123.7(8)	C83C-P4C-C77C	119.0(7)
C82B-C77B-P4B	119.3(8)	C71C-P4C-Pt1C	116.2(5)
C79B-C78B-C77B	120.9(11)	C83C-P4C-Pt1C	115.3(5)
C80B-C79B-C78B	120.7(12)	C77C-P4C-Pt1C	100.8(6)
C79B-C80B-C81B	119.8(12)	C77'-P4'-C83'	90.3(8)

C77'-P4'-C71C	101.7(8)	C18C-C19C-C20C	118.1(13)
C83'-P4'-C71C	104.8(6)	C15C-C20C-C19C	121.7(12)
C77'-P4'-Pt1C	126.4(8)	C22C-C21C-P1C	120.3(15)
C83'-P4'-Pt1C	121.8(6)	C26C-C21C-P1C	119.6(15)
C71C-P4'-Pt1C	108.5(4)	C22E-C21E-P1C	128.3(10)
N2C-N1C-C1C	110.2(8)	C26E-C21E-P1C	111.6(10)
N2C-N1C-Pt1C	117.2(6)	C23E-C22E-C21E	120.0
C1C-N1C-Pt1C	132.2(7)	C22E-C23E-C24E	120.0
N3C-N2C-N1C	107.9(8)	C25E-C24E-C23E	120.0
N2C-N3C-C2C	108.9(9)	C26E-C25E-C24E	120.0
O1C-N4C-O2C	122.9(11)	C25E-C26E-C21E	120.0
O1C-N4C-C6C	119.4(10)	N5C-C27C-C28C	100.9(9)
O2C-N4C-C6C	117.7(10)	N5C-C27C-Au2C	125.9(7)
N6C-N5C-C27C	114.0(8)	C28C-C27C-Au2C	133.1(7)
N6C-N5C-Pt1C	115.4(6)	N7C-C28C-C27C	111.2(8)
C27C-N5C-Pt1C	130.5(7)	N7C-C28C-C29C	119.0(9)
N5C-N6C-N7C	105.9(8)	C27C-C28C-C29C	129.8(9)
C28C-N7C-N6C	107.8(8)	C30C-C29C-C34C	115.1(9)
O3C-N8C-O4C	125.0(10)	C30C-C29C-C28C	126.1(10)
O3C-N8C-C32C	119.0(10)	C34C-C29C-C28C	118.8(9)
O4C-N8C-C32C	116.0(10)	C29C-C30C-C31C	123.0(11)
N1C-C1C-C2C	103.6(9)	C32C-C31C-C30C	119.2(11)
N1C-C1C-Au1C	121.5(8)	C31C-C32C-C33C	121.6(10)
C2C-C1C-Au1C	134.8(8)	C31C-C32C-N8C	120.5(10)
N3C-C2C-C1C	109.4(9)	C33C-C32C-N8C	117.9(11)
N3C-C2C-C3C	119.3(10)	C32C-C33C-C34C	118.6(11)
C1C-C2C-C3C	131.1(10)	C33C-C34C-C29C	122.4(10)
C8C-C3C-C4C	117.2(11)	C36C-C35C-C40C	116.5(11)
C8C-C3C-C2C	124.5(11)	C36C-C35C-P2C	121.3(9)
C4C-C3C-C2C	118.2(10)	C40C-C35C-P2C	122.0(9)
C5C-C4C-C3C	120.1(12)	C35C-C36C-C37C	125.0(11)
C6C-C5C-C4C	120.4(12)	C38C-C37C-C36C	117.7(12)
C5C-C6C-C7C	120.2(11)	C39C-C38C-C37C	119.3(12)
C5C-C6C-N4C	119.0(11)	C38C-C39C-C40C	122.1(13)
C7C-C6C-N4C	120.8(10)	C35C-C40C-C39C	119.3(13)
C6C-C7C-C8C	119.5(11)	C42C-C41C-C46C	120.0
C3C-C8C-C7C	122.5(11)	C42C-C41C-P2C	123.1(5)
C14C-C9C-C10C	118.8(12)	C46C-C41C-P2C	116.7(5)
C14C-C9C-P1C	123.8(10)	C43C-C42C-C41C	120.0
C10C-C9C-P1C	117.4(9)	C42C-C43C-C44C	120.0
C9C-C10C-C11C	119.9(11)	C45C-C44C-C43C	120.0
C12C-C11C-C10C	120.2(12)	C44C-C45C-C46C	120.0
C13C-C12C-C11C	120.4(13)	C45C-C46C-C41C	120.0
C12C-C13C-C14C	120.3(13)	C52C-C47C-C48C	118.2(12)
C9C-C14C-C13C	120.2(12)	C52C-C47C-P2C	118.9(9)
C20C-C15C-C16C	119.2(11)	C48C-C47C-P2C	122.3(10)
C20C-C15C-P1C	121.1(9)	C49C-C48C-C47C	120.6(13)
C16C-C15C-P1C	119.6(8)	C48C-C49C-C50C	118.7(13)
C15C-C16C-C17C	120.6(11)	C51C-C50C-C49C	123.6(14)
C18C-C17C-C16C	118.1(12)	C50C-C51C-C52C	117.3(14)
C17C-C18C-C19C	122.2(12)	C47C-C52C-C51C	121.6(12)

C54C-C53C-C58C	118.0(11)	C84C-C83C-C88C	120.0
C54C-C53C-P3C	119.4(8)	C84C-C83C-P4C	125.1(7)
C58C-C53C-P3C	122.5(10)	C88C-C83C-P4C	114.9(7)
C53C-C54C-C55C	122.9(11)	C85C-C84C-C83C	120.0
C56C-C55C-C54C	117.1(13)	C86C-C85C-C84C	120.0
C57C-C56C-C55C	120.9(13)	C85C-C86C-C87C	120.0
C56C-C57C-C58C	120.3(13)	C86C-C87C-C88C	120.0
C57C-C58C-C53C	120.6(13)	C87C-C88C-C83C	120.0
C60C-C59C-C64C	121.4(12)	C84'-C83'-C88'	120.0
C60C-C59C-P3C	119.0(11)	C84'-C83'-P4'	117.7(8)
C64C-C59C-P3C	119.5(11)	C88'-C83'-P4'	122.2(8)
C59C-C60C-C61C	119.5(16)	C85'-C84'-C83'	120.0
C62C-C61C-C60C	121(2)	C86'-C85'-C84'	120.0
C63C-C62C-C61C	120.2(19)	C85'-C86'-C87'	120.0
C62C-C63C-C64C	123.3(19)	C88'-C87'-C86'	120.0
C59C-C64C-C63C	115.0(16)	C87'-C88'-C83'	120.0
C70C-C65C-C66C	116.7(12)	N1D-Pt1D-N5D	87.4(3)
C70C-C65C-P3C	113.3(8)	N1D-Pt1D-P4D	174.5(2)
C66C-C65C-P3C	129.9(11)	N5D-Pt1D-P4D	87.2(2)
C67C-C66C-C65C	123.4(14)	N1D-Pt1D-P3D	88.5(2)
C66C-C67C-C68C	120.0(13)	N5D-Pt1D-P3D	175.7(2)
C67C-C68C-C69C	121.2(14)	P4D-Pt1D-P3D	96.97(9)
C68C-C69C-C70C	116.3(15)	C1D-Au1D-P1D	172.1(3)
C65C-C70C-C69C	122.0(12)	C27D-Au2D-P2D	172.0(3)
C72C-C71C-C76C	117.3(11)	C9D-P1D-C15D	104.2(5)
C72C-C71C-P4C	124.4(9)	C9D-P1D-C21D	107.6(5)
C76C-C71C-P4C	118.2(9)	C15D-P1D-C21D	106.8(4)
C72C-C71C-P4'	117.2(9)	C9D-P1D-Au1D	108.8(3)
C76C-C71C-P4'	125.4(9)	C15D-P1D-Au1D	116.0(4)
P4C-C71C-P4'	7.3(4)	C21D-P1D-Au1D	112.8(3)
C71C-C72C-C73C	122.7(13)	C47D-P2D-C35D	112.4(5)
C74C-C73C-C72C	119.3(14)	C47D-P2D-C41D	107.6(5)
C73C-C74C-C75C	119.2(14)	C35D-P2D-C41D	98.9(5)
C74C-C75C-C76C	120.6(14)	C47D-P2D-C35'	88.7(8)
C71C-C76C-C75C	120.8(13)	C35D-P2D-C35'	23.8(8)
C78C-C77C-C82C	120.0	C41D-P2D-C35'	109.5(8)
C78C-C77C-P4C	125.9(9)	C47D-P2D-Au2D	110.5(4)
C82C-C77C-P4C	113.9(9)	C35D-P2D-Au2D	108.7(4)
C79C-C78C-C77C	120.0	C41D-P2D-Au2D	118.2(4)
C78C-C79C-C80C	120.0	C35'-P2D-Au2D	117.9(7)
C81C-C80C-C79C	120.0	C65D-P3D-C59D	103.4(4)
C80C-C81C-C82C	120.0	C65D-P3D-C53D	100.4(4)
C81C-C82C-C77C	120.0	C59D-P3D-C53D	104.4(4)
C78'-C77'-C82'	120.0	C65D-P3D-Pt1D	115.4(3)
C78'-C77'-P4'	113.6(10)	C59D-P3D-Pt1D	118.7(3)
C82'-C77'-P4'	126.0(10)	C53D-P3D-Pt1D	112.4(3)
C79'-C78'-C77'	120.0	C83D-P4D-C77D	113.1(4)
C78'-C79'-C80'	120.0	C83D-P4D-C71D	100.5(4)
C81'-C80'-C79'	120.0	C77D-P4D-C71D	103.1(4)
C82'-C81'-C80'	120.0	C83D-P4D-Pt1D	112.0(3)
C81'-C82'-C77'	120.0	C77D-P4D-Pt1D	112.7(3)

C71D-P4D-Pt1D	114.5(3)	C12D-C11D-C10D	120.8(11)
N2D-N1D-C1D	110.4(7)	C13D-C12D-C11D	120.1(11)
N2D-N1D-Pt1D	121.5(6)	C12D-C13D-C14D	120.6(11)
C1D-N1D-Pt1D	128.0(6)	C13D-C14D-C9D	120.7(11)
N3D-N2D-N1D	107.3(7)	C20D-C15D-C16D	118.2(10)
N2D-N3D-C2D	108.8(8)	C20D-C15D-P1D	118.6(8)
O2D-N4D-O1D	123.1(18)	C16D-C15D-P1D	123.0(9)
O2D-N4D-O1D'	113.1(19)	C17D-C16D-C15D	122.9(11)
O1D-N4D-O1D'	35.2(13)	C16D-C17D-C18D	118.9(11)
O2D-N4D-O2D'	16.4(17)	C19D-C18D-C17D	119.6(10)
O1D-N4D-O2D'	131.9(17)	C18D-C19D-C20D	119.5(10)
O1D'-N4D-O2D'	129.0(19)	C15D-C20D-C19D	120.9(10)
O2D-N4D-C6D	123.1(17)	C26D-C21D-C22D	121.2(9)
O1D-N4D-C6D	113.6(13)	C26D-C21D-P1D	116.7(8)
O1D'-N4D-C6D	115.5(15)	C22D-C21D-P1D	122.0(8)
O2D'-N4D-C6D	111.3(14)	C21D-C22D-C23D	120.3(10)
C27D-N5D-N6D	113.0(8)	C24D-C23D-C22D	118.9(11)
C27D-N5D-Pt1D	129.9(7)	C23D-C24D-C25D	120.6(10)
N6D-N5D-Pt1D	116.9(6)	C24D-C25D-C26D	119.7(10)
N7D-N6D-N5D	106.9(8)	C21D-C26D-C25D	119.2(10)
N6D-N7D-C28D	107.8(8)	N5D-C27D-C28D	102.7(8)
O4D'-N8D-O4D	21.6(14)	N5D-C27D-Au2D	123.8(7)
O4D'-N8D-O3D	114.6(16)	C28D-C27D-Au2D	133.3(8)
O4D-N8D-O3D	129.2(18)	N7D-C28D-C27D	109.4(8)
O4D'-N8D-O3D'	120.3(13)	N7D-C28D-C29D	120.1(8)
O4D-N8D-O3D'	119.3(14)	C27D-C28D-C29D	130.4(9)
O3D-N8D-O3D'	38.7(12)	C30D-C29D-C34D	117.8(10)
O4D'-N8D-C32D	122.3(12)	C30D-C29D-C28D	121.3(9)
O4D-N8D-C32D	117.6(13)	C34D-C29D-C28D	120.8(10)
O3D-N8D-C32D	111.0(14)	C31D-C30D-C29D	121.7(10)
O3D'-N8D-C32D	117.3(10)	C30D-C31D-C32D	119.2(10)
C2D-C1D-N1D	101.8(8)	C33D-C32D-C31D	120.1(10)
C2D-C1D-Au1D	138.3(7)	C33D-C32D-N8D	121.2(9)
N1D-C1D-Au1D	119.6(6)	C31D-C32D-N8D	118.7(10)
C1D-C2D-N3D	111.6(8)	C34D-C33D-C32D	119.7(9)
C1D-C2D-C3D	128.6(9)	C33D-C34D-C29D	121.2(10)
N3D-C2D-C3D	119.6(9)	C36D-C35D-C40D	120.0
C4D-C3D-C8D	116.9(10)	C36D-C35D-P2D	117.5(6)
C4D-C3D-C2D	121.2(10)	C40D-C35D-P2D	121.8(6)
C8D-C3D-C2D	121.9(9)	C35D-C36D-C37D	120.0
C3D-C4D-C5D	122.6(12)	C36D-C37D-C38D	120.0
C6D-C5D-C4D	118.2(12)	C39D-C38D-C37D	120.0
C5D-C6D-C7D	122.8(11)	C38D-C39D-C40D	120.0
C5D-C6D-N4D	119.1(11)	C39D-C40D-C35D	120.0
C7D-C6D-N4D	118.1(11)	Cl1E-C27E-Cl2E	106.9(16)
C8D-C7D-C6D	115.9(11)	C36'-C35'-C40'	120.0
C7D-C8D-C3D	123.7(10)	C36'-C35'-P2D	123.8(13)
C14D-C9D-C10D	117.5(10)	C40'-C35'-P2D	116.1(13)
C14D-C9D-P1D	118.5(9)	C35'-C36'-C37'	120.0
C10D-C9D-P1D	124.0(8)	C38'-C37'-C36'	120.0
C11D-C10D-C9D	120.1(10)	C37'-C38'-C39'	120.0

C40'-C39'-C38'	120.0	C73D-C74D-C75D	119.1(11)
C39'-C40'-C35'	120.0	C76D-C75D-C74D	119.1(11)
C42D-C41D-C46D	117.9(11)	C71D-C76D-C75D	121.2(11)
C42D-C41D-P2D	119.8(9)	C82D-C77D-C78D	119.1(9)
C46D-C41D-P2D	122.2(9)	C82D-C77D-P4D	126.0(8)
C43D-C42D-C41D	121.2(11)	C78D-C77D-P4D	114.9(7)
C42D-C43D-C44D	120.7(13)	C79D-C78D-C77D	119.9(9)
C45D-C44D-C43D	119.8(13)	C78D-C79D-C80D	121.3(11)
C44D-C45D-C46D	119.5(13)	C79D-C80D-C81D	120.3(10)
C41D-C46D-C45D	120.5(12)	C80D-C81D-C82D	118.1(9)
C52D-C47D-C48D	117.2(14)	C77D-C82D-C81D	121.3(10)
C52D-C47D-P2D	119.4(10)	C84D-C83D-C88D	117.8(9)
C48D-C47D-P2D	123.4(11)	C84D-C83D-P4D	124.3(8)
C49D-C48D-C47D	122.1(15)	C88D-C83D-P4D	117.8(7)
C48D-C49D-C50D	120.1(14)	C85D-C84D-C83D	121.0(10)
C51D-C50D-C49D	119.0(14)	C86D-C85D-C84D	120.3(9)
C52D-C51D-C50D	118.7(13)	C85D-C86D-C87D	121.6(10)
C47D-C52D-C51D	122.9(12)	C88D-C87D-C86D	118.5(10)
C58D-C53D-C54D	117.8(9)	C87D-C88D-C83D	120.7(9)
C58D-C53D-P3D	120.0(7)	Cl1-C89-Cl2	111.5(7)
C54D-C53D-P3D	122.1(7)	Cl4-C90-Cl3'	109.8(13)
C55D-C54D-C53D	120.6(9)	Cl4-C90-Cl3	110.8(12)
C56D-C55D-C54D	119.7(10)	Cl3'-C90-Cl3	8.9(13)
C55D-C56D-C57D	121.4(10)	Cl4-C90-Cl4'	2.5(13)
C58D-C57D-C56D	118.7(9)	Cl3'-C90-Cl4'	112.1(12)
C57D-C58D-C53D	121.9(10)	Cl3-C90-Cl4'	113.2(10)
C64D-C59D-C60D	116.2(8)	Cl5-C91-Cl6	108.7(14)
C64D-C59D-P3D	121.9(8)	Cl9-C93-Cl10	108.4(14)
C60D-C59D-P3D	122.0(7)	Cl11-C94-Cl12	112.6(14)
C61D-C60D-C59D	120.3(10)	Cl13-C95-Cl14	113.1(19)
C60D-C61D-C62D	121.8(10)	Cl15-C96-Cl16	125(2)
C63D-C62D-C61D	118.7(9)	Cl17-C97-Cl18	102.1(11)
C62D-C63D-C64D	120.2(10)	C911-C912-C913	98.4
C63D-C64D-C59D	122.6(10)	C914-C913-C912	98.8
C70D-C65D-C66D	115.9(10)	C913-C914-C915	99.4
C70D-C65D-P3D	125.5(8)	C923-C922-C921	99.4
C66D-C65D-P3D	118.3(7)	C922-C923-C924	98.8
C67D-C66D-C65D	122.3(9)	C925-C924-C923	98.4
C68D-C67D-C66D	119.6(9)	C931-C932-C933	98.4
C69D-C68D-C67D	119.5(10)	C934-C933-C932	98.8
C68D-C69D-C70D	121.2(10)	C933-C934-C935	99.4
C65D-C70D-C69D	121.3(10)	C901-C902-C903	98.4
C72D-C71D-C76D	119.8(9)	C904-C903-C902	98.8
C72D-C71D-P4D	122.4(7)	C903-C904-C905	99.4
C76D-C71D-P4D	117.8(8)	C943-C942-C941	107(2)
C73D-C72D-C71D	118.9(10)	C944-C943-C942	93(2)
C72D-C73D-C74D	121.8(11)	C943-C944-C945	114(3)

Symmetry transformations used to generate equivalent atoms:

Table 12. Anisotropic displacement parameters ($Å^2 x\ 10^3$) for *cis*-**6-Ph**. The anisotropic displacement factor exponent takes the form: $-2\pi^2[\ h^2\ a^{*2}U^{11} + ...\ + 2\ h\ k\ a^*\ b^*\ U^{12}\ ]$

	U^{11}	U^{22}	U^{33}	U^{23}	U^{13}	U^{12}
Pt1A	20(1)	17(1)	16(1)	-7(1)	-9(1)	3(1)
Au1A	23(1)	17(1)	21(1)	-10(1)	-12(1)	5(1)
Au2A	27(1)	19(1)	29(1)	-11(1)	-18(1)	5(1)
P1A	23(2)	20(2)	28(1)	-13(1)	-14(1)	6(1)
P2A	29(2)	22(2)	38(2)	-13(1)	-22(1)	4(1)
P3A	22(2)	18(2)	18(1)	-7(1)	-9(1)	4(1)
P4A	22(2)	22(2)	20(1)	-10(1)	-9(1)	3(1)
O1A	43(5)	57(6)	68(6)	-49(5)	-8(5)	13(5)
O2A	32(5)	70(7)	58(6)	-41(5)	-2(5)	1(5)
O3A	105(8)	24(5)	72(6)	-14(5)	-70(6)	20(5)
O4A	59(6)	42(5)	48(5)	-19(4)	-38(5)	16(4)
N1A	21(5)	7(4)	16(4)	-6(3)	-10(4)	5(3)
N2A	38(6)	16(5)	25(5)	-13(4)	-13(4)	2(4)
N3A	34(5)	23(5)	19(4)	-10(4)	-11(4)	-2(4)
N4A	38(7)	33(7)	36(6)	-12(5)	-12(5)	14(5)
N5A	23(5)	17(5)	23(4)	-8(4)	-13(4)	1(4)
N6A	29(5)	17(5)	30(5)	-11(4)	-20(4)	1(4)
N7A	36(5)	15(5)	29(5)	-8(4)	-20(4)	0(4)
N8A	47(7)	39(7)	36(5)	-22(5)	-25(5)	19(5)
C1A	30(6)	8(5)	24(5)	-1(4)	-19(5)	5(5)
C2A	28(6)	11(5)	12(5)	-2(4)	-11(4)	0(4)
C3A	37(7)	14(6)	18(5)	0(4)	-19(5)	9(5)
C4A	25(6)	40(7)	25(6)	-19(5)	-1(5)	-3(5)
C5A	42(8)	31(7)	45(7)	-29(6)	-13(6)	9(6)
C6A	18(6)	20(6)	33(6)	-17(5)	-8(5)	12(5)
C7A	20(6)	22(6)	31(6)	-13(5)	-13(5)	6(5)
C8A	34(7)	27(6)	32(6)	-16(5)	-26(5)	11(5)
C9A	19(6)	28(6)	20(5)	-14(5)	-6(4)	-5(5)
C10A	36(6)	0(5)	25(5)	-1(4)	-11(5)	-6(4)
C11A	31(7)	27(7)	31(6)	-9(5)	-15(5)	18(5)
C12A	37(7)	40(8)	31(6)	-14(6)	-20(6)	9(6)
C13A	46(7)	29(7)	41(6)	-23(6)	-27(6)	18(6)
C14A	23(6)	30(7)	30(6)	-6(5)	-18(5)	11(5)
C15A	14(6)	34(7)	50(7)	-33(6)	-11(5)	7(5)
C16A	32(7)	32(7)	34(6)	-9(5)	-22(6)	4(5)
C17A	22(7)	39(8)	72(9)	-27(7)	-27(7)	17(6)
C18A	18(6)	44(8)	30(6)	-13(6)	0(5)	-2(5)
C19A	37(8)	61(9)	30(6)	-24(6)	-5(6)	10(7)
C20A	33(7)	67(9)	32(6)	-27(6)	-18(6)	14(6)
C21A	31(6)	21(6)	23(5)	-19(5)	-10(5)	11(5)
C22A	41(7)	28(7)	56(7)	-26(6)	-37(6)	15(6)
C23A	61(8)	15(6)	59(8)	-22(6)	-40(7)	14(6)
C24A	87(11)	38(8)	64(8)	-37(7)	-60(8)	33(7)
C25A	36(7)	52(8)	37(6)	-38(6)	-24(6)	30(6)
C26A	27(6)	41(7)	35(6)	-27(6)	-16(5)	8(5)

C27A	21(5)	29(6)	14(5)	-16(4)	-12(4)	13(5)
C28A	9(5)	23(6)	13(5)	-8(4)	-1(4)	4(4)
C29A	25(6)	22(6)	13(5)	-10(4)	-5(4)	5(5)
C30A	26(6)	28(6)	32(6)	-15(5)	-18(5)	7(5)
C31A	39(7)	14(6)	32(6)	-9(5)	-14(5)	3(5)
C32A	29(6)	33(7)	23(5)	-15(5)	-16(5)	13(5)
C33A	29(6)	32(7)	27(6)	-12(5)	-13(5)	1(5)
C34A	23(6)	20(6)	28(5)	-9(5)	-13(5)	5(5)
C35A	13(5)	33(7)	35(6)	-23(5)	-8(5)	8(5)
C36A	44(8)	44(8)	42(7)	-21(6)	0(6)	-19(7)
C37A	49(10)	88(13)	67(10)	-49(9)	-8(8)	7(9)
C38A	33(8)	69(10)	44(8)	-24(8)	-8(6)	-11(7)
C39A	33(7)	41(8)	37(7)	-11(6)	-11(6)	-2(6)
C40A	35(7)	40(8)	44(7)	-31(6)	-7(6)	9(6)
C41A	24(6)	33(7)	28(5)	-20(5)	-17(5)	14(5)
C42A	31(7)	34(7)	33(6)	-16(5)	-16(5)	7(5)
C43A	28(6)	31(7)	39(6)	-15(6)	-17(6)	8(5)
C44A	34(7)	54(8)	47(7)	-32(7)	-30(6)	20(6)
C45A	37(7)	42(7)	26(6)	-17(5)	-19(5)	7(6)
C46A	37(7)	38(7)	40(7)	-18(6)	-20(6)	-6(6)
C47A	26(6)	22(6)	29(6)	-5(5)	-17(5)	3(5)
C48A	47(8)	35(7)	25(6)	-10(5)	-19(6)	2(6)
C49A	48(8)	41(8)	48(7)	-18(6)	-30(7)	20(7)
C50A	41(8)	29(7)	39(7)	-16(6)	-14(6)	18(6)
C51A	43(8)	40(8)	39(7)	-28(6)	-13(6)	4(6)
C52A	35(7)	35(7)	64(8)	-34(6)	-35(6)	14(6)
C53A	37(6)	13(5)	2(4)	2(4)	-9(4)	6(5)
C54A	27(6)	21(6)	28(6)	-5(5)	-13(5)	0(5)
C55A	20(6)	32(7)	29(6)	-2(5)	-12(5)	5(5)
C56A	22(6)	45(8)	23(6)	-8(6)	-3(5)	13(6)
C57A	44(8)	43(8)	39(7)	-21(6)	-20(6)	20(6)
C58A	24(6)	44(8)	22(5)	-14(5)	-9(5)	9(6)
C59A	26(6)	18(6)	11(5)	-1(4)	-5(4)	-4(5)
C60A	41(7)	26(7)	25(6)	-14(5)	-11(5)	1(6)
C61A	76(10)	18(7)	29(6)	0(5)	-18(7)	1(7)
C62A	58(9)	30(7)	25(6)	-9(5)	-4(6)	-23(6)
C63A	38(7)	37(8)	43(7)	-18(6)	-13(6)	-8(6)
C64A	28(6)	31(7)	29(6)	-19(5)	-3(5)	-7(5)
C65A	20(5)	13(5)	27(5)	-7(4)	-16(5)	11(4)
C66A	28(6)	28(6)	16(5)	-9(5)	-5(5)	4(5)
C67A	28(6)	25(6)	52(7)	-27(6)	-21(6)	18(5)
C68A	35(7)	56(9)	25(6)	-30(6)	-13(5)	25(6)
C69A	24(6)	30(7)	17(5)	-8(5)	-6(5)	11(5)
C70A	20(6)	20(6)	27(5)	-11(5)	-8(5)	8(5)
C71A	14(5)	19(6)	22(5)	-11(4)	-3(4)	14(4)
C72A	30(7)	34(7)	29(6)	-8(5)	-16(5)	10(6)
C73A	26(6)	28(7)	29(6)	-9(5)	-2(5)	8(5)
C74A	24(7)	40(8)	11(5)	9(5)	1(5)	12(6)
C75A	28(7)	46(8)	28(6)	-17(6)	-9(5)	24(6)
C76A	14(5)	29(6)	26(5)	-15(5)	-7(4)	14(5)
C77A	25(6)	20(6)	25(5)	-14(5)	-13(5)	12(5)

C78A	29(6)	30(7)	31(6)	-13(5)	-19(5)	14(5)
C79A	22(6)	30(7)	56(7)	-18(6)	-15(6)	4(5)
C80A	31(7)	35(7)	43(7)	-15(6)	-20(6)	16(6)
C81A	43(8)	36(7)	37(6)	-13(6)	-24(6)	14(6)
C82A	24(6)	30(7)	54(7)	-33(6)	-21(6)	15(5)
C83A	40(7)	13(5)	21(5)	-3(4)	-16(5)	-3(5)
C84A	17(6)	45(7)	24(5)	-19(5)	-11(5)	12(5)
C85A	45(8)	31(7)	32(6)	-11(5)	-23(6)	-2(6)
C86A	60(9)	33(8)	54(8)	-26(7)	-21(7)	-6(7)
C87A	52(9)	56(9)	56(8)	-43(7)	-9(7)	-5(7)
C88A	30(7)	36(7)	39(6)	-28(6)	-8(5)	9(6)
Pt1B	20(1)	18(1)	18(1)	-8(1)	-9(1)	5(1)
Au1B	24(1)	23(1)	24(1)	-13(1)	-14(1)	7(1)
Au2B	24(1)	31(1)	30(1)	-19(1)	-12(1)	7(1)
P1B	24(2)	22(2)	33(2)	-15(1)	-18(1)	8(1)
P2B	26(2)	37(2)	40(2)	-27(2)	-15(1)	13(1)
P3B	22(2)	21(2)	22(1)	-11(1)	-11(1)	8(1)
P4B	26(2)	21(2)	19(1)	-9(1)	-10(1)	8(1)
O1B	148(12)	43(7)	129(10)	26(7)	-111(9)	-28(7)
O2B	147(11)	43(7)	132(10)	18(6)	-119(9)	-10(7)
O3B	49(6)	67(7)	88(7)	-64(6)	-7(5)	5(5)
N1B	13(4)	39(6)	7(4)	-3(4)	-3(3)	-12(4)
N2B	30(5)	23(5)	24(4)	-7(4)	-14(4)	4(4)
N3B	21(5)	32(6)	28(5)	-13(4)	-14(4)	0(4)
N4B	108(12)	45(9)	90(9)	5(7)	-79(9)	-5(8)
N5B	16(4)	13(4)	13(4)	1(3)	-6(3)	9(4)
N6B	21(5)	27(5)	22(4)	-11(4)	-11(4)	5(4)
N7B	29(5)	32(6)	30(5)	-21(4)	-13(4)	7(4)
N8B	35(8)	108(12)	123(11)	-94(10)	-29(8)	34(8)
C1B	16(5)	7(5)	25(5)	-9(4)	-6(4)	12(4)
C2B	18(6)	29(6)	19(5)	-10(5)	-6(4)	0(5)
C3B	15(5)	27(6)	20(5)	-11(5)	-7(4)	10(5)
C4B	34(7)	36(7)	38(6)	-12(6)	-21(6)	4(6)
C5B	52(8)	45(8)	43(7)	-11(6)	-36(7)	8(7)
C6B	55(8)	21(7)	36(6)	3(5)	-26(6)	5(6)
C7B	34(7)	31(7)	22(5)	-13(5)	-12(5)	12(5)
C8B	21(6)	30(6)	21(5)	-12(5)	-11(5)	7(5)
C9B	42(7)	21(6)	31(6)	-13(5)	-18(6)	-1(5)
C10B	53(8)	30(8)	46(7)	-18(6)	-18(7)	8(6)
C11B	79(11)	17(7)	69(9)	-22(7)	-28(8)	12(7)
C12B	178(19)	27(9)	42(9)	6(7)	-27(11)	19(11)
C13B	200(20)	38(10)	36(8)	4(8)	-15(11)	8(12)
C14B	143(15)	24(8)	40(8)	-9(6)	-36(9)	31(9)
C15B	31(6)	19(6)	14(5)	2(4)	-14(5)	5(5)
C16B	43(7)	27(7)	30(6)	-2(5)	-23(6)	-7(6)
C17B	25(7)	44(8)	27(6)	-8(6)	-14(5)	3(6)
C18B	48(8)	69(10)	26(6)	-32(7)	-22(6)	28(7)
C19B	52(8)	51(8)	38(7)	-29(6)	-34(6)	24(7)
C20B	42(7)	22(6)	16(5)	-3(4)	-21(5)	1(5)
C21B	26(6)	29(6)	22(5)	-12(5)	-15(5)	3(5)
C22B	22(6)	47(8)	31(6)	-20(6)	-5(5)	2(6)

C23B	36(7)	49(8)	45(7)	-29(6)	-18(6)	21(6)
C24B	51(8)	39(8)	41(7)	-30(6)	-21(6)	13(6)
C25B	54(8)	54(9)	47(7)	-34(7)	-35(7)	22(7)
C26B	34(7)	32(7)	44(7)	-24(6)	-23(6)	12(5)
C27B	18(5)	13(5)	3(4)	-2(4)	1(4)	4(4)
C28B	35(7)	19(6)	15(5)	-4(4)	-14(5)	4(5)
C29B	27(6)	30(7)	17(5)	-7(5)	-10(5)	3(5)
C30B	32(7)	63(9)	53(7)	-40(7)	-21(6)	12(7)
C31B	27(7)	72(10)	61(8)	-52(8)	-15(6)	19(7)
C32B	33(7)	38(8)	43(7)	-28(6)	-8(6)	13(6)
C33B	30(7)	35(7)	29(6)	-17(5)	-6(5)	5(6)
C34B	26(6)	45(8)	23(6)	-25(5)	-1(5)	9(6)
C35B	34(7)	39(8)	51(7)	-30(6)	-25(6)	18(6)
C36B	40(8)	52(9)	49(7)	-29(7)	-14(6)	-6(7)
C37B	50(9)	51(9)	60(8)	-32(7)	-30(7)	34(7)
C38B	39(8)	64(11)	65(9)	-32(8)	-29(7)	23(7)
C39B	38(8)	62(10)	61(8)	-31(8)	-27(7)	6(7)
C40B	47(8)	54(9)	66(9)	-35(7)	-35(7)	12(7)
C41B	36(7)	50(8)	53(8)	-41(7)	-26(6)	20(6)
C42B	61(9)	53(9)	56(8)	-45(8)	-25(8)	16(7)
C43B	59(10)	76(12)	68(10)	-44(9)	-10(8)	7(9)
C44B	132(16)	78(13)	87(12)	-68(11)	-58(12)	62(12)
C45B	162(18)	60(11)	93(13)	-58(11)	-74(13)	64(12)
C46B	88(11)	58(10)	48(8)	-40(8)	-35(8)	33(9)
C47B	29(7)	55(9)	65(8)	-40(7)	-26(7)	8(6)
C48B	51(9)	55(9)	45(7)	-13(7)	-25(7)	0(7)
C49B	69(11)	67(11)	80(11)	-30(9)	-41(9)	-4(9)
C50B	51(9)	37(8)	70(9)	-26(7)	-23(8)	7(7)
C51B	46(9)	58(10)	67(9)	-31(8)	-24(8)	15(8)
C52B	36(8)	55(9)	56(8)	-34(7)	-21(7)	22(7)
C53B	15(5)	23(6)	19(5)	-7(5)	-2(4)	4(5)
C54B	27(6)	26(7)	42(6)	-16(5)	-21(5)	7(5)
C55B	41(8)	31(7)	62(8)	-29(6)	-24(7)	9(6)
C56B	52(8)	18(7)	48(7)	-11(6)	-22(7)	14(6)
C57B	65(9)	42(8)	49(7)	-19(6)	-44(7)	26(7)
C58B	49(8)	31(7)	51(7)	-21(6)	-32(7)	18(6)
C59B	31(6)	29(6)	20(5)	-12(5)	-14(5)	14(5)
C60B	45(8)	41(7)	24(6)	-22(5)	-13(6)	12(6)
C61B	21(6)	70(10)	35(7)	-26(7)	-9(5)	3(6)
C62B	38(7)	38(7)	42(7)	-24(6)	-20(6)	5(6)
C63B	36(7)	34(7)	50(7)	-27(6)	-25(6)	15(6)
C64B	21(6)	28(6)	37(6)	-18(5)	-16(5)	9(5)
C65B	33(7)	25(6)	26(6)	-16(5)	-15(5)	15(5)
C66B	51(8)	20(6)	20(5)	-6(5)	-21(5)	12(5)
C67B	58(9)	37(8)	32(6)	-16(6)	-16(6)	25(7)
C68B	68(10)	56(9)	43(8)	-33(7)	-36(8)	37(8)
C69B	51(8)	59(9)	49(7)	-42(7)	-40(7)	33(7)
C70B	25(6)	33(7)	42(6)	-26(6)	-19(5)	18(5)
C71B	30(6)	16(6)	12(5)	-2(4)	1(5)	11(5)
C72B	36(7)	24(7)	37(6)	-4(5)	-16(6)	1(6)
C73B	26(7)	44(8)	50(8)	-15(7)	2(6)	-11(6)

C74B	33(8)	28(7)	41(8)	-1(6)	-4(6)	8(6)
C75B	49(9)	36(8)	29(7)	-7(6)	-4(6)	32(7)
C76B	37(7)	37(7)	29(6)	-6(5)	-15(6)	24(6)
C77B	24(6)	21(6)	15(5)	-7(4)	-5(4)	8(5)
C78B	28(7)	22(7)	53(7)	-15(6)	-6(6)	6(6)
C79B	41(8)	40(9)	75(9)	-35(8)	-10(7)	3(7)
C80B	57(9)	36(8)	50(7)	-23(6)	-32(7)	22(7)
C81B	29(7)	26(7)	32(6)	-15(5)	-7(5)	12(6)
C82B	32(7)	27(7)	29(6)	-12(5)	-17(5)	6(5)
C83B	18(6)	29(6)	26(5)	-19(5)	-8(5)	22(5)
C84B	36(7)	41(7)	26(6)	-21(5)	-16(5)	21(6)
C85B	40(8)	59(9)	43(7)	-37(7)	-29(6)	39(7)
C86B	30(7)	72(10)	42(7)	-39(7)	-23(6)	17(7)
C87B	36(7)	34(7)	42(7)	-22(6)	-21(6)	21(6)
C88B	28(6)	32(7)	28(6)	-22(5)	-19(5)	20(5)
Pt1C	27(1)	16(1)	20(1)	-5(1)	-10(1)	4(1)
Au1C	28(1)	23(1)	41(1)	-12(1)	-19(1)	4(1)
Au2C	32(1)	22(1)	25(1)	-11(1)	-11(1)	-2(1)
P1C	42(2)	30(2)	45(2)	-12(2)	-28(2)	-2(2)
P2C	43(2)	24(2)	32(2)	-11(1)	-20(2)	0(1)
P3C	29(2)	22(2)	22(1)	-4(1)	-8(1)	8(1)
O1C	45(6)	127(10)	99(8)	-93(8)	-2(6)	-7(6)
O2C	28(5)	87(8)	130(9)	-87(7)	-15(6)	9(5)
O3C	121(9)	34(6)	113(8)	-33(6)	-98(7)	36(6)
O4C	63(6)	56(6)	53(5)	-32(5)	-43(5)	26(5)
N1C	20(5)	11(5)	26(4)	-3(4)	-12(4)	6(4)
N2C	23(5)	27(6)	29(5)	-5(4)	-10(4)	-2(4)
N3C	34(6)	33(6)	27(5)	-14(4)	-10(5)	-2(5)
N4C	34(6)	44(7)	60(7)	-33(6)	-16(6)	3(5)
N5C	20(5)	23(5)	25(4)	-12(4)	-6(4)	8(4)
N6C	55(6)	21(5)	37(5)	-11(4)	-32(5)	7(5)
N7C	54(6)	19(5)	45(5)	-15(4)	-41(5)	14(5)
N8C	49(7)	45(7)	41(6)	-21(5)	-32(5)	16(6)
C1C	34(7)	22(6)	21(5)	-1(5)	-20(5)	11(5)
C2C	19(6)	21(6)	22(5)	-3(5)	-10(5)	1(5)
C3C	33(7)	32(7)	21(5)	-1(5)	-14(5)	-1(6)
C4C	28(8)	161(17)	85(11)	-106(12)	5(7)	-8(9)
C5C	33(8)	186(19)	99(12)	-126(13)	7(8)	-22(10)
C6C	22(6)	60(9)	20(5)	-24(6)	-3(5)	0(6)
C7C	19(6)	34(8)	68(8)	-31(7)	-14(6)	11(6)
C8C	32(7)	17(6)	73(8)	-27(6)	-24(7)	7(5)
C9C	29(7)	39(7)	30(6)	-18(5)	-12(5)	2(6)
C10C	57(9)	33(7)	52(7)	-23(6)	-37(7)	12(7)
C11C	55(8)	38(8)	30(6)	-13(6)	-26(6)	5(7)
C12C	39(8)	30(7)	32(6)	-18(5)	-4(6)	3(6)
C13C	49(9)	82(12)	87(11)	-79(10)	-5(8)	11(9)
C14C	34(8)	97(12)	71(9)	-61(9)	-17(7)	-6(8)
C15C	31(6)	27(7)	45(7)	-20(6)	-25(6)	5(5)
C16C	26(7)	53(9)	59(8)	-33(7)	-17(6)	18(6)
C17C	54(9)	55(9)	47(8)	-36(7)	-19(7)	13(8)
C18C	32(8)	66(10)	39(7)	-18(7)	-14(6)	-13(7)

C19C	36(9)	117(15)	62(9)	-27(10)	-34(8)	21(9)
C20C	43(9)	62(11)	89(11)	15(8)	-52(9)	-5(8)
C27C	29(6)	12(5)	17(5)	2(4)	-13(5)	7(5)
C28C	27(6)	24(6)	27(5)	-12(5)	-19(5)	9(5)
C29C	35(6)	21(6)	23(5)	-12(5)	-19(5)	7(5)
C30C	51(8)	22(6)	39(6)	-8(5)	-31(6)	9(6)
C31C	36(7)	33(8)	50(7)	-5(6)	-28(6)	-7(6)
C32C	22(6)	45(8)	22(5)	-18(5)	-11(5)	16(5)
C33C	83(10)	35(8)	65(8)	-31(7)	-56(8)	25(7)
C34C	74(9)	41(8)	55(8)	-29(6)	-51(7)	17(7)
C35C	34(7)	24(6)	42(7)	-14(5)	-24(6)	7(5)
C36C	36(7)	62(9)	51(7)	-39(7)	-31(6)	19(7)
C37C	50(8)	46(8)	61(8)	-28(7)	-42(7)	18(7)
C38C	46(8)	32(7)	34(7)	-8(6)	-21(6)	14(6)
C39C	138(16)	112(15)	46(9)	-45(10)	-49(10)	64(13)
C40C	131(14)	70(11)	42(8)	-38(8)	-47(9)	75(10)
C41C	39(7)	52(8)	33(6)	-23(6)	-15(6)	-7(6)
C42C	121(17)	210(20)	95(13)	92(14)	-80(14)	-121(17)
C43C	79(15)	190(30)	108(16)	10(16)	-45(13)	-52(15)
C44C	88(14)	125(17)	52(10)	6(10)	-7(10)	-70(12)
C45C	105(14)	103(14)	42(9)	-18(9)	-35(10)	-5(12)
C46C	42(9)	91(13)	31(7)	8(7)	-4(7)	-17(8)
C47C	65(9)	26(7)	30(6)	-10(5)	-31(6)	4(6)
C48C	67(9)	38(8)	47(7)	-18(6)	-34(7)	1(7)
C49C	88(12)	30(8)	69(9)	-29(7)	-53(9)	27(8)
C50C	74(11)	69(11)	96(11)	-59(10)	-62(10)	52(9)
C51C	73(11)	68(11)	121(13)	-68(11)	-66(11)	34(9)
C52C	51(9)	36(8)	81(9)	-36(7)	-47(8)	16(7)
C53C	34(7)	10(6)	33(6)	-1(5)	-6(5)	2(5)
C54C	56(9)	18(7)	75(9)	-9(6)	-43(8)	5(6)
C55C	103(13)	39(9)	76(10)	0(8)	-62(10)	-12(9)
C56C	93(12)	36(9)	64(9)	-13(8)	-28(9)	-21(8)
C57C	116(13)	18(7)	40(7)	-2(6)	-34(9)	-9(8)
C58C	54(9)	36(8)	35(7)	-7(6)	-13(6)	2(7)
C59C	26(7)	54(9)	35(7)	-7(6)	-5(6)	21(6)
C60C	55(9)	78(11)	25(6)	-23(7)	-6(6)	34(8)
C61C	74(13)	117(16)	53(10)	-13(10)	-15(10)	74(12)
C62C	62(13)	140(20)	31(9)	5(10)	4(9)	58(13)
C63C	23(9)	90(15)	97(14)	21(11)	-26(10)	4(9)
C64C	44(9)	48(10)	68(9)	7(7)	-30(8)	4(7)
C65C	43(8)	36(8)	26(6)	-14(6)	-11(6)	19(6)
C66C	39(8)	56(9)	30(6)	-18(6)	-9(6)	24(7)
C67C	96(12)	53(10)	31(7)	-16(7)	-31(8)	26(9)
C68C	180(20)	83(14)	65(11)	-46(10)	-87(13)	64(14)
C69C	190(20)	62(12)	74(11)	-32(9)	-89(13)	26(12)
C70C	101(12)	50(9)	31(7)	-12(7)	-45(8)	29(9)
C71C	35(7)	17(6)	30(6)	-9(5)	-13(5)	2(5)
C72C	48(8)	47(9)	48(7)	-10(6)	-36(7)	16(7)
C73C	34(8)	64(10)	44(8)	4(7)	-14(7)	-3(7)
C74C	29(8)	151(18)	22(7)	-23(9)	-12(6)	1(10)
C75C	46(10)	94(14)	59(9)	-36(10)	-20(8)	-10(9)

C76C	43(8)	39(8)	53(8)	-23(7)	-10(7)	-8(7)
Pt1D	20(1)	15(1)	16(1)	-5(1)	-9(1)	3(1)
Au1D	24(1)	21(1)	20(1)	-11(1)	-10(1)	3(1)
Au2D	64(1)	19(1)	38(1)	-13(1)	-38(1)	10(1)
P1D	22(2)	21(2)	20(1)	-13(1)	-8(1)	7(1)
P2D	84(3)	21(2)	41(2)	-4(1)	-43(2)	-6(2)
P3D	21(1)	16(1)	17(1)	-5(1)	-8(1)	3(1)
P4D	24(2)	19(2)	18(1)	-8(1)	-11(1)	6(1)
N1D	10(4)	10(4)	13(4)	7(3)	-4(3)	-2(3)
N2D	21(5)	23(5)	14(4)	-5(4)	-9(4)	1(4)
N3D	29(5)	19(5)	21(4)	-10(4)	-10(4)	5(4)
N4D	61(9)	60(8)	75(8)	-49(7)	-35(8)	27(7)
N5D	34(5)	19(5)	24(4)	-2(4)	-18(4)	0(4)
N6D	40(6)	27(5)	27(5)	-11(4)	-21(4)	10(4)
N7D	33(5)	26(5)	31(5)	-6(4)	-25(4)	8(4)
N8D	66(7)	26(6)	29(5)	-9(5)	-29(6)	8(5)
C1D	15(5)	7(5)	18(5)	-5(4)	-2(4)	11(4)
C2D	25(6)	13(5)	11(4)	-5(4)	-8(4)	2(4)
C3D	23(6)	24(6)	29(6)	-13(5)	-9(5)	9(5)
C4D	50(9)	86(11)	83(10)	-69(9)	-43(8)	32(8)
C5D	46(9)	110(13)	99(11)	-89(11)	-41(9)	49(9)
C6D	52(8)	43(8)	38(7)	-33(6)	-18(6)	26(7)
C7D	42(8)	33(7)	27(6)	-15(5)	-8(6)	2(6)
C8D	26(6)	44(7)	25(6)	-23(5)	-3(5)	9(5)
C9D	33(6)	28(7)	30(6)	-15(5)	-18(5)	5(5)
C10D	37(7)	28(7)	29(6)	-15(5)	-20(5)	14(5)
C11D	68(9)	38(7)	29(6)	-23(6)	-31(6)	23(7)
C12D	40(7)	52(8)	37(7)	-34(6)	-18(6)	13(6)
C13D	34(7)	73(10)	36(7)	-32(7)	-2(6)	-12(7)
C14D	30(7)	52(8)	28(6)	-25(6)	0(5)	-13(6)
C15D	29(6)	34(7)	21(5)	-16(5)	-13(5)	3(5)
C16D	37(7)	28(7)	26(6)	-15(5)	-14(5)	2(5)
C17D	53(8)	35(7)	40(7)	-18(6)	-33(6)	11(6)
C18D	33(7)	23(7)	37(6)	-8(5)	-15(6)	6(5)
C19D	41(7)	30(7)	41(6)	-23(6)	-22(6)	20(6)
C20D	30(6)	37(7)	45(7)	-26(6)	-26(6)	16(6)
C21D	20(6)	14(5)	28(5)	-17(5)	-3(5)	8(4)
C22D	27(6)	29(6)	27(6)	-14(5)	-12(5)	8(5)
C23D	33(7)	21(6)	30(6)	-12(5)	-6(5)	4(5)
C24D	55(9)	31(7)	36(7)	-27(6)	-12(6)	14(6)
C25D	42(8)	38(7)	25(6)	-12(5)	-15(6)	0(6)
C26D	37(7)	25(6)	25(5)	-12(5)	-16(5)	4(5)
C27D	23(6)	18(6)	47(6)	-23(5)	-24(5)	11(5)
C28D	30(6)	13(5)	11(4)	-1(4)	-14(4)	5(5)
C29D	27(6)	45(8)	39(6)	-26(6)	-29(5)	21(5)
C30D	65(8)	32(7)	32(6)	-20(6)	-34(6)	23(6)
C31D	73(9)	17(6)	47(7)	-17(5)	-45(7)	19(6)
C32D	28(6)	24(6)	27(6)	-6(5)	-18(5)	2(5)
C33D	64(9)	43(8)	19(5)	-11(5)	-26(6)	4(7)
C34D	67(9)	16(6)	41(6)	-11(5)	-38(6)	9(6)
C41D	56(8)	20(6)	37(6)	-14(5)	-27(6)	2(6)

C42D	24(7)	41(8)	50(8)	4(6)	-20(6)	-1(6)
C43D	47(9)	58(10)	58(9)	-11(8)	-11(8)	29(8)
C44D	60(10)	63(10)	54(9)	-39(8)	-6(8)	15(8)
C45D	54(9)	126(15)	66(9)	-74(10)	-32(8)	34(10)
C46D	60(9)	70(10)	56(8)	-52(7)	-42(7)	41(7)
C47D	65(9)	39(8)	26(6)	-15(6)	-2(6)	-35(7)
C48D	77(11)	63(10)	36(7)	-11(7)	-22(8)	-33(9)
C49D	55(10)	104(15)	40(8)	-35(9)	-8(8)	-24(10)
C50D	32(8)	102(13)	58(9)	-50(9)	-6(7)	-4(8)
C51D	43(8)	79(11)	27(6)	-30(7)	4(6)	-31(8)
C52D	39(8)	53(9)	18(6)	-12(6)	-4(6)	-10(7)
C53D	26(6)	18(6)	19(5)	-6(4)	-14(5)	4(5)
C54D	29(6)	23(6)	13(5)	-8(4)	-10(5)	5(5)
C55D	36(7)	34(7)	32(6)	-19(5)	-11(6)	0(6)
C56D	25(6)	50(8)	21(5)	-19(5)	-12(5)	9(6)
C57D	22(6)	31(7)	32(6)	-19(5)	-18(5)	16(5)
C58D	19(6)	25(6)	20(5)	-12(5)	-4(4)	9(5)
C59D	23(6)	14(5)	14(5)	-1(4)	-10(4)	8(4)
C60D	18(6)	21(6)	27(5)	-12(5)	-12(5)	10(4)
C61D	37(7)	28(7)	16(5)	-5(5)	-12(5)	17(6)
C62D	34(7)	14(6)	15(5)	1(4)	-4(5)	8(5)
C63D	22(6)	9(6)	42(7)	-2(5)	-11(5)	8(5)
C64D	49(8)	13(6)	27(6)	-4(5)	-20(6)	9(5)
C65D	24(6)	19(6)	20(5)	-4(4)	-13(5)	-3(5)
C66D	16(5)	32(7)	10(5)	-3(4)	-3(4)	-3(5)
C67D	29(6)	30(7)	35(6)	-25(5)	-13(5)	22(5)
C68D	30(7)	29(7)	53(7)	-29(6)	-17(6)	14(6)
C69D	31(7)	23(6)	37(6)	-16(5)	-10(5)	7(5)
C70D	25(6)	33(7)	27(6)	-15(5)	-6(5)	1(5)
C71D	16(5)	16(5)	15(5)	-12(4)	-1(4)	12(4)
C72D	49(7)	28(7)	27(6)	-12(5)	-26(6)	17(6)
C73D	60(8)	20(6)	35(6)	-16(5)	-23(6)	15(6)
C74D	41(8)	42(8)	34(7)	-8(6)	-16(6)	24(6)
C75D	43(8)	32(8)	43(7)	2(6)	-27(6)	3(6)
C76D	30(6)	29(7)	34(6)	-7(5)	-20(5)	2(5)
C77D	26(6)	12(5)	28(5)	-9(4)	-18(5)	7(5)
C78D	32(6)	13(6)	23(5)	-6(4)	-13(5)	12(5)
C79D	36(7)	27(7)	39(7)	-17(5)	-21(6)	9(5)
C80D	41(7)	28(7)	29(6)	-13(5)	-19(6)	6(6)
C81D	41(7)	30(7)	21(5)	-12(5)	-19(5)	13(6)
C82D	27(6)	20(6)	28(6)	-10(5)	-16(5)	8(5)
C83D	17(5)	21(6)	13(5)	-1(4)	-9(4)	7(4)
C84D	24(6)	40(7)	21(5)	-18(5)	-9(5)	8(5)
C85D	17(6)	46(7)	30(6)	-23(6)	-8(5)	10(5)
C86D	21(6)	59(9)	37(6)	-30(6)	-12(5)	-2(6)
C87D	42(7)	29(7)	47(7)	-28(6)	-23(6)	14(6)
C88D	20(6)	41(7)	29(6)	-20(6)	-2(5)	6(5)
Cl1	50(2)	69(3)	48(2)	-29(2)	-14(2)	14(2)
Cl2	79(3)	67(3)	65(2)	-39(2)	-40(2)	27(2)
C89	59(10)	62(10)	84(10)	-28(8)	-47(9)	12(8)
Cl3	31(6)	44(6)	30(4)	-17(4)	-20(4)	4(5)

Cl4	73(14)	54(14)	76(11)	-25(10)	-35(10)	21(10)
Cl3'	64(11)	131(19)	85(13)	-91(13)	-37(10)	59(11)
Cl4'	33(7)	21(8)	9(5)	-4(5)	-10(5)	6(5)
Cl5	50(5)	42(4)	83(5)	-30(4)	-48(4)	13(4)
Cl6	54(4)	45(4)	57(4)	-27(4)	-14(4)	0(3)
C91	44(17)	70(20)	70(20)	-60(20)	-49(17)	29(18)
Cl7	67(6)	74(7)	56(5)	-15(5)	-29(5)	-3(5)
Cl8	68(5)	59(5)	50(4)	-27(4)	-19(4)	-3(4)
C92	110(30)	70(30)	21(15)	-22(18)	-6(17)	-30(20)

Single crystal X-ray diffraction structure of *cis*-**6-Et**

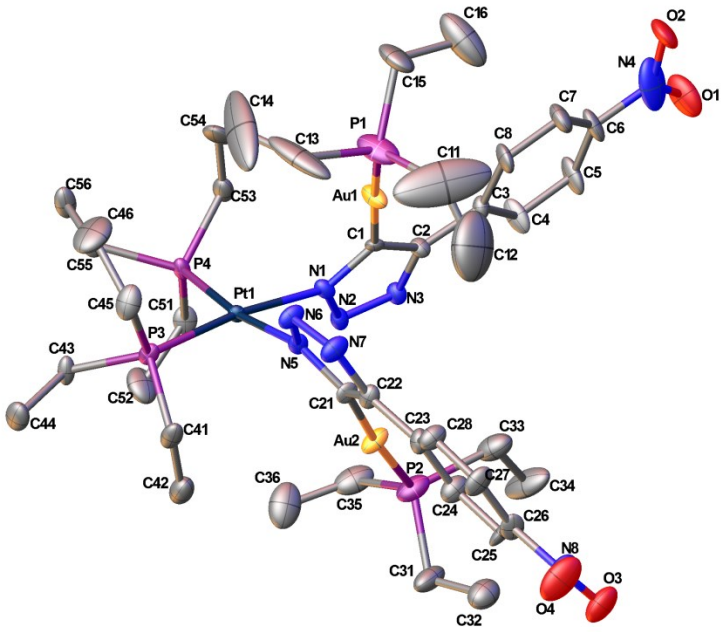


Figure S37. Molecular Structure of *cis*-**6-Et**.

X-Ray experimental: X-Ray Intensity data were collected at 100 K on a Bruker **DUO** diffractometer using MoKα radiation (λ = 0.71073 Å) and an APEXII CCD area detector.

Raw data frames were read by program SAINT and integrated using 3D profiling algorithms. The resulting data were reduced to produce hkl reflections and their intensities and estimated standard deviations. The data were corrected for Lorentz and polarization effects and numerical absorption corrections were applied based on indexed and measured faces.

The structure was solved and refined in SHELXTL6.1[8], using full-matrix least-squares refinement. The non-H atoms were refined with anisotropic thermal parameters and all of the H atoms were calculated in idealized positions and refined riding on their parent atoms. The asymmetric unit consists of two platinum complexes and five benzene solvent molecules. The benzene molecules were disordered and could not be modeled properly, thus program SQUEEZE[9], a part of the PLATON[10] package of crystallographic software, was used to calculate the solvent disorder area and remove its contribution to the overall intensity data. The C42, C34 and C36 units were disordered and refined in two parts with their site occupation factors fixed (after refinements) at a ratio of 60/40. The N8' nitro group did not refine properly thus it was constrained to maintain a geometry similar to the N4' nitro group. In the final cycle of refinement, 136267 reflections (of which 19923 are observed with $I > 2\sigma(I)$) were used to refine 1048 parameters and the resulting R_1, wR_2 and S (goodness of fit) were 6.27%, 16.55% and 1.066, respectively. The refinement was carried out by minimizing the wR_2 function using F^2 rather than F values. R_1 is calculated to provide a reference to the conventional R value but its function is not minimized. The highest residual peaks are high although they do lie close to the gold centers. Models of the structure were refined with and without absorption corrections and the peaks persisted.

Table S13. Crystal data and structure refinement for *cis*-**6-Et**.

Identification code	tre05	
Empirical formula	$C_{55}H_{83}Au_2N_8O_4P_4Pt$	
Formula weight	1633.20	
Temperature	100(2) K	
Wavelength	0.71073 Å	
Crystal system	Triclinic	
Space group	Pī	
Unit cell dimensions	a = 14.963(2) Å	α= 70.137(3)°.
	b = 19.646(3) Å	β= 86.619(3)°.
	c = 23.512(3) Å	γ = 76.690(3)°.
Volume	6324.7(15) $Å^3$	
Z	4	
Density (calculated)	1.715 Mg/m^3	
Absorption coefficient	6.983 mm^{-1}	
F(000)	3188	
Crystal size	0.17 x 0.13 x 0.03 mm^3	
Theta range for data collection	1.13 to 27.50°.	
Index ranges	-19≤h≤19, -25≤k≤25, -30≤l≤30	
Reflections collected	136267	
Independent reflections	29055 [R(int) = 0.0678]	
Completeness to theta = 27.50°	100.0 %	
Absorption correction	Integration	
Max. and min. transmission	0.8023 and 0.3920	
Refinement method	Full-matrix least-squares on F^2	
Data / restraints / parameters	29055 / 3 / 1048	
Goodness-of-fit on F^2	1.066	
Final R indices [I>2sigma(I)]	R1 = 0.0627, wR2 = 0.1655 [19923]	
R indices (all data)	R1 = 0.0882, wR2 = 0.1737	
Largest diff. peak and hole	12.846 and -6.455 $e.Å^{-3}$	

$R1 = \sum(||F_o| - |F_c||) / \sum|F_o|$

$wR2 = [\sum[w(F_o^2 - F_c^2)^2] / \sum[w(F_o^2)^2]]^{1/2}$

$S = [\sum[w(F_o^2 - F_c^2)^2] / (n-p)]^{1/2}$

$w= 1/[\sigma^2(F_o^2)+(m*p)^2+n*p]$, $p = [\max(F_o^2,0)+ 2* F_c^2]/3$, m & n are constants.

Table S14. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters ($Å^2$x 10^3) for *cis*-**6-Et**. U(eq) is defined as one third of the trace of the orthogonalized U^{ij} tensor.

Atom	X	Y	Z	U(eq)
Pt1	1205(1)	8605(1)	-1181(1)	11(1)
Au1	-371(1)	7299(1)	-787(1)	24(1)
Au2	2552(1)	7235(1)	149(1)	23(1)
P1	-623(2)	6663(2)	-1391(2)	46(1)
P2	2758(2)	7462(2)	1010(1)	32(1)
P3	2113(2)	8842(1)	-2005(1)	16(1)
P4	418(2)	9766(1)	-1240(1)	15(1)
O1	-3157(7)	6599(5)	2385(4)	53(3)
O2	-3605(6)	6296(5)	1651(4)	42(2)
O3	5067(6)	3376(4)	981(4)	43(2)
O4	5153(7)	3122(5)	155(4)	61(3)
N1	540(5)	8257(4)	-375(3)	15(2)
N2	683(5)	8479(4)	101(3)	17(2)
N3	170(5)	8195(4)	547(3)	17(2)
N4	-3067(10)	6556(5)	1880(6)	64(4)
N5	1747(5)	7501(4)	-1055(3)	16(2)
N6	1632(6)	7192(4)	-1479(4)	20(2)
N7	2112(6)	6488(4)	-1296(4)	25(2)
N8	4850(7)	3524(5)	458(5)	37(2)
C1	-66(6)	7808(5)	-219(4)	14(2)
C2	-304(6)	7781(5)	370(4)	16(2)
C3	-989(7)	7437(5)	761(4)	16(2)
C4	-1149(8)	7514(6)	1323(5)	30(3)
C5	-1833(8)	7232(6)	1693(5)	33(3)
C6	-2367(8)	6856(6)	1492(5)	29(3)
C7	-2185(8)	6745(6)	953(5)	33(3)
C8	-1506(8)	7027(6)	582(4)	26(2)
C11	-120(18)	5684(15)	-1126(14)	180(17)
C12	614(19)	5346(10)	-721(10)	119(9)
C13	-198(12)	6993(13)	-2153(8)	99(8)
C14	-570(20)	7804(14)	-2438(7)	162(15)
C15	-1831(9)	6690(8)	-1494(6)	47(3)
C16	-2317(12)	6393(10)	-908(8)	83(6)
C21	2284(6)	6997(5)	-585(4)	15(2)
C22	2524(7)	6348(5)	-746(4)	19(2)
C23	3115(7)	5622(5)	-438(4)	20(2)
C24	3536(8)	5478(6)	114(5)	28(2)
C25	4114(7)	4794(5)	412(4)	24(2)
C26	4254(7)	4257(5)	136(5)	23(2)
C27	3862(8)	4381(5)	-405(5)	28(2)
C28	3282(7)	5054(5)	-691(5)	25(2)
C31	3928(8)	7080(6)	1307(6)	39(3)
C32	4195(9)	6247(6)	1479(5)	40(3)
C33	1971(9)	7051(7)	1621(5)	41(3)

C34	2166(10)	7097(9)	2231(5)	63(5)
C35	2520(9)	8448(7)	916(6)	43(3)
C36	3041(12)	8859(7)	409(6)	55(4)
C41	3244(7)	8251(6)	-1806(5)	27(2)
C42	3739(8)	8421(6)	-1332(5)	35(3)
C43	2347(7)	9769(5)	-2352(4)	21(2)
C44	3175(7)	9806(6)	-2782(5)	31(3)
C45	1741(8)	8624(6)	-2637(5)	32(3)
C46	885(10)	9178(8)	-2980(6)	56(4)
C51	808(7)	10137(5)	-720(4)	23(2)
C52	1752(9)	10346(7)	-877(6)	43(3)
C53	-769(7)	9738(5)	-1031(5)	26(2)
C54	-1278(7)	9530(7)	-1470(6)	38(3)
C55	297(7)	10524(5)	-1955(4)	21(2)
C56	-395(7)	11228(5)	-1975(5)	29(2)
Pt1'	6047(1)	3578(1)	3850(1)	15(1)
Au1'	4262(1)	2531(1)	4179(1)	34(1)
Au2'	7519(1)	2142(1)	5092(1)	31(1)
P1'	3902(3)	2037(2)	3497(1)	40(1)
P2'	8111(3)	2326(2)	5865(2)	54(1)
P3'	5399(2)	4761(1)	3814(1)	15(1)
P4'	6888(2)	3774(1)	2995(1)	23(1)
O1'	1033(13)	1627(12)	6703(5)	172(10)
N4'	1618(16)	1858(11)	6921(7)	135(9)
O2'	1686(8)	1744(6)	7454(5)	67(3)
O3'	8919(9)	-2183(6)	5261(7)	116(4)
N8'	9161(12)	-1642(9)	5381(9)	116(4)
O4'	9769(10)	-1712(7)	5743(7)	116(4)
N1'	5411(6)	3260(4)	4666(3)	20(2)
N2'	5640(6)	3419(4)	5152(3)	18(2)
N3'	5083(6)	3179(4)	5594(3)	20(2)
N5'	6477(6)	2459(4)	3960(3)	24(2)
N6'	6232(8)	2174(4)	3558(4)	36(3)
N7'	6585(8)	1454(5)	3737(4)	44(3)
C1'	4685(7)	2915(5)	4799(4)	22(2)
C2'	4472(8)	2879(5)	5395(5)	27(2)
C3'	3751(8)	2600(6)	5782(5)	30(3)
C4'	3045(14)	2421(12)	5570(6)	103(8)
C5'	2379(17)	2131(14)	5956(7)	145(12)
C6'	2380(11)	2091(8)	6529(6)	59(4)
C7'	3049(9)	2300(7)	6740(5)	41(3)
C8'	3725(9)	2558(7)	6367(5)	37(3)
C11'	4178(11)	2533(7)	2704(5)	48(4)
C12'	4117(11)	2123(8)	2257(6)	63(4)
C13'	2670(10)	1980(7)	3495(6)	49(3)
C14'	2005(11)	2766(9)	3354(8)	74(5)
C15'	4544(10)	1092(6)	3647(5)	42(3)
C16'	4602(12)	625(7)	4310(6)	61(4)
C21'	7033(8)	1931(5)	4379(4)	27(2)
C22'	7135(9)	1296(5)	4244(5)	37(3)
C23'	7659(11)	557(6)	4528(6)	48(4)

C24'	7338(11)	-64(7)	4451(6)	59(4)
C25'	7829(13)	-793(7)	4743(7)	74(5)
C26'	8665(14)	-879(8)	5104(8)	81(6)
C27'	8918(12)	-315(8)	5192(8)	81(6)
C28'	8394(10)	413(7)	4884(8)	68(5)
C32'	9714(13)	1198(11)	5993(9)	103(7)
C34'	8181(16)	3772(9)	5282(10)	120(9)
C36'	6816(10)	2030(8)	6708(7)	58(4)
C31'	8915(14)	1442(11)	6357(9)	39(5)
C33'	8887(16)	3000(12)	5570(10)	52(6)
C35'	7361(16)	2656(13)	6289(10)	51(6)
C32A	9220(30)	2060(20)	6084(19)	67(11)
C34A	7600(30)	3287(18)	5971(16)	51(9)
C36A	7780(20)	1729(17)	6664(14)	43(8)
C41'	4199(7)	4837(5)	4061(4)	26(2)
C42'	3578(9)	4692(7)	3633(6)	49(4)
C43'	5920(7)	5086(5)	4323(4)	21(2)
C44'	6864(9)	5261(7)	4119(6)	45(3)
C45'	5303(6)	5512(5)	3094(4)	16(2)
C46'	4692(7)	6253(5)	3095(4)	21(2)
C51'	7206(7)	4660(5)	2638(5)	26(2)
C52'	8035(8)	4652(6)	2222(5)	32(3)
C53'	7963(10)	3100(6)	3130(6)	55(4)
C54'	8568(11)	3178(10)	3585(7)	76(5)
C55'	6330(10)	3633(6)	2383(5)	44(3)
C56'	5388(11)	4128(7)	2168(5)	52(4)

Table S15. Bond lengths [Å] for *cis*-**6-Et**.

Bond	Length	Bond	Length
Pt1-N5	2.057(7)	C23-C28	1.402(13)
Pt1-N1	2.064(7)	C24-C25	1.394(13)
Pt1-P4	2.274(2)	C25-C26	1.389(13)
Pt1-P3	2.278(2)	C26-C27	1.354(14)
Au1-C1	2.044(9)	C27-C28	1.375(13)
Au1-P1	2.284(3)	C31-C32	1.508(15)
Au2-C21	2.017(9)	C33-C34	1.517(16)
Au2-P2	2.267(3)	C35-C36	1.486(19)
P1-C11	1.80(2)	C41-C42	1.538(16)
P1-C13	1.817(17)	C43-C44	1.552(13)
P1-C15	1.823(12)	C45-C46	1.536(17)
P2-C31	1.817(12)	C51-C52	1.550(15)
P2-C35	1.825(12)	C53-C54	1.527(16)
P2-C33	1.884(13)	C55-C56	1.514(12)
P3-C41	1.804(10)	Pt1'-N1'	2.054(7)
P3-C45	1.828(11)	Pt1'-N5'	2.073(8)
P3-C43	1.833(9)	Pt1'-P4'	2.274(2)
P4-C51	1.805(10)	Pt1'-P3'	2.277(2)
P4-C55	1.813(10)	Au1'-C1'	2.043(9)
P4-C53	1.823(10)	Au1'-P1'	2.280(3)
O1-N4	1.215(14)	Au2'-C21'	2.067(11)
O2-N4	1.277(16)	Au2'-P2'	2.237(4)
O3-N8	1.211(12)	P1'-C15'	1.808(12)
O4-N8	1.231(12)	P1'-C11'	1.859(11)
N1-C1	1.356(11)	P1'-C13'	1.873(14)
N1-N2	1.376(10)	P2'-C35'	1.63(2)
N2-N3	1.306(10)	P2'-C32A	1.68(4)
N3-C2	1.368(11)	P2'-C33'	1.89(2)
N4-C6	1.443(15)	P2'-C31'	1.91(2)
N5-C21	1.359(11)	P2'-C36A	1.95(3)
N5-N6	1.369(10)	P2'-C34A	1.96(3)
N6-N7	1.338(10)	P3'-C45'	1.816(9)
N7-C22	1.379(12)	P3'-C43'	1.819(9)
N8-C26	1.479(12)	P3'-C41'	1.843(11)
C1-C2	1.395(12)	P4'-C53'	1.800(12)
C2-C3	1.462(12)	P4'-C51'	1.818(10)
C3-C4	1.381(12)	P4'-C55'	1.833(13)
C3-C8	1.407(13)	O1'-N4'	1.277(17)
C4-C5	1.393(14)	N4'-O2'	1.200(15)
C5-C6	1.400(15)	N4'-C6'	1.479(19)
C6-C7	1.360(15)	O3'-N8'	1.318(18)
C7-C8	1.388(13)	N8'-O4'	1.234(17)
C11-C12	1.38(3)	N8'-C26'	1.450(19)
C13-C14	1.49(3)	N1'-N2'	1.364(11)
C15-C16	1.516(18)	N1'-C1'	1.376(12)
C21-C22	1.414(12)	N2'-N3'	1.32(1)
C22-C23	1.461(13)	N3'-C2'	1.374(12)
C23-C24	1.388(14)	N5'-C21'	1.320(13)

N5'-N6'	1.355(12)	C23'-C24'	1.476(19)
N6'-N7'	1.316(12)	C24'-C25'	1.403(18)
N7'-C22'	1.394(16)	C25'-C26'	1.50(3)
C1'-C2'	1.399(13)	C26'-C27'	1.33(3)
C2'-C3'	1.453(14)	C27'-C28'	1.426(19)
C3'-C8'	1.350(14)	C32'-C31'	1.51(3)
C3'-C4'	1.356(17)	C32'-C32A	1.76(4)
C4'-C5'	1.395(19)	C34'-C33'	1.59(3)
C5'-C6'	1.324(19)	C34'-C34A	1.85(4)
C6'-C7'	1.342(17)	C36'-C36A	1.43(3)
C7'-C8'	1.370(16)	C36'-C35'	1.64(3)
C11'-C12'	1.545(17)	C41'-C42'	1.545(16)
C13'-C14'	1.57(2)	C43'-C44'	1.542(16)
C15'-C16'	1.514(16)	C45'-C46'	1.531(12)
C21'-C22'	1.360(14)	C51'-C52'	1.534(13)
C22'-C23'	1.432(15)	C53'-C54'	1.51(2)
C23'-C28'	1.34(2)	C55'-C56'	1.519(19)

Symmetry transformations used to generate equivalent atoms:

Table S16. Bond Angles [°] for *cis*-**6-Et**.

Bond	Angle	Bond	Angle
N5-Pt1-N1	87.1(3)	N1-C1-C2	104.0(7)
N5-Pt1-P4	171.3(2)	N1-C1-Au1	121.4(6)
N1-Pt1-P4	85.3(2)	C2-C1-Au1	134.5(7)
N5-Pt1-P3	85.9(2)	N3-C2-C1	109.2(8)
N1-Pt1-P3	171.4(2)	N3-C2-C3	120.7(8)
P4-Pt1-P3	102.05(8)	C1-C2-C3	129.9(8)
C1-Au1-P1	175.9(3)	C4-C3-C8	118.0(9)
C21-Au2-P2	175.4(3)	C4-C3-C2	120.1(8)
C11-P1-C13	104.3(13)	C8-C3-C2	121.9(8)
C11-P1-C15	102.6(10)	C3-C4-C5	121.6(10)
C13-P1-C15	104.9(7)	C4-C5-C6	119.3(9)
C11-P1-Au1	115.6(7)	C7-C6-C5	119.6(9)
C13-P1-Au1	114.0(5)	C7-C6-N4	121.3(10)
C15-P1-Au1	114.1(4)	C5-C6-N4	119(1)
C31-P2-C35	105.9(5)	C6-C7-C8	121.3(10)
C31-P2-C33	107.5(6)	C7-C8-C3	120.1(9)
C35-P2-C33	105.7(6)	C12-C11-P1	124.7(16)
C31-P2-Au2	112.2(4)	C14-C13-P1	110.5(13)
C35-P2-Au2	113.7(4)	C16-C15-P1	114.0(11)
C33-P2-Au2	111.4(4)	N5-C21-C22	104.1(8)
C41-P3-C45	104.1(5)	N5-C21-Au2	122.3(6)
C41-P3-C43	103.0(5)	C22-C21-Au2	133.5(7)
C45-P3-C43	104.5(5)	N7-C22-C21	109.0(8)
C41-P3-Pt1	109.3(3)	N7-C22-C23	120.2(8)
C45-P3-Pt1	114.5(4)	C21-C22-C23	130.8(9)
C43-P3-Pt1	119.8(3)	C24-C23-C28	118.0(9)
C51-P4-C55	103.7(4)	C24-C23-C22	120.6(9)
C51-P4-C53	104.0(5)	C28-C23-C22	121.4(9)
C55-P4-C53	102.9(5)	C23-C24-C25	121.7(9)
C51-P4-Pt1	115.1(3)	C26-C25-C24	117.4(9)
C55-P4-Pt1	120.5(3)	C27-C26-C25	122.5(9)
C53-P4-Pt1	108.9(3)	C27-C26-N8	120.0(9)
C1-N1-N2	110.1(7)	C25-C26-N8	117.5(9)
C1-N1-Pt1	129.1(6)	C26-C27-C28	119.6(9)
N2-N1-Pt1	120.8(5)	C27-C28-C23	120.8(10)
N3-N2-N1	108.3(7)	C32-C31-P2	112.5(8)
N2-N3-C2	108.3(7)	C34-C33-P2	113.6(10)
O1-N4-O2	123.2(12)	C36-C35-P2	111.7(9)
O1-N4-C6	120.1(13)	C42-C41-P3	112.6(7)
O2-N4-C6	116.6(11)	C44-C43-P3	114.8(7)
C21-N5-N6	110.9(7)	C46-C45-P3	113.9(8)
C21-N5-Pt1	127.3(6)	C52-C51-P4	113.8(7)
N6-N5-Pt1	121.7(6)	C54-C53-P4	112.9(7)
N7-N6-N5	108.3(7)	C56-C55-P4	116.0(7)
N6-N7-C22	107.7(7)	N1'-Pt1'-N5'	87.1(3)
O3-N8-O4	123.8(10)	N1'-Pt1'-P4'	172.1(2)
O3-N8-C26	119.3(9)	N5'-Pt1'-P4'	85.8(2)
O4-N8-C26	116.7(9)	N1'-Pt1'-P3'	85.5(2)

N5'-Pt1'-P3'	171.7(2)	C1'-N1'-Pt1'	127.4(6)
P4'-Pt1'-P3'	101.74(8)	N3'-N2'-N1'	107.7(7)
C1'-Au1'-P1'	175.4(3)	N2'-N3'-C2'	109.4(8)
C21'-Au2'-P2'	177.0(3)	C21'-N5'-N6'	109.5(8)
C15'-P1'-C11'	104.3(6)	C21'-N5'-Pt1'	128.9(7)
C15'-P1'-C13'	104.5(6)	N6'-N5'-Pt1'	121.6(6)
C11'-P1'-C13'	106.9(6)	N7'-N6'-N5'	109.2(9)
C15'-P1'-Au1'	111.7(4)	N6'-N7'-C22'	106.2(9)
C11'-P1'-Au1'	113.8(4)	N1'-C1'-C2'	104.3(8)
C13'-P1'-Au1'	114.6(4)	N1'-C1'-Au1'	119.1(6)
C35'-P2'-C32A	118.7(16)	C2'-C1'-Au1'	136.4(7)
C35'-P2'-C33'	106.9(11)	N3'-C2'-C1'	108.2(8)
C32A-P2'-C33'	60.4(15)	N3'-C2'-C3'	121.1(9)
C35'-P2'-C31'	109.5(11)	C1'-C2'-C3'	130.7(9)
C32A-P2'-C31'	43.1(15)	C8'-C3'-C4'	117.0(11)
C33'-P2'-C31'	103.5(10)	C8'-C3'-C2'	120.4(10)
C35'-P2'-C36A	56.2(12)	C4'-C3'-C2'	122.5(10)
C32A-P2'-C36A	90.2(17)	C3'-C4'-C5'	121.2(13)
C33'-P2'-C36A	135.4(12)	C6'-C5'-C4'	119.9(15)
C31'-P2'-C36A	57.3(11)	C5'-C6'-C7'	119.4(13)
C35'-P2'-C34A	42.3(12)	C5'-C6'-N4'	119.8(14)
C32A-P2'-C34A	108.2(17)	C7'-C6'-N4'	120.7(13)
C33'-P2'-C34A	67.2(13)	C6'-C7'-C8'	120.8(11)
C31'-P2'-C34A	132.3(12)	C3'-C8'-C7'	121.3(11)
C36A-P2'-C34A	95.4(14)	C12'-C11'-P1'	114.4(9)
C35'-P2'-Au2'	115.1(9)	C14'-C13'-P1'	111.5(9)
C32A-P2'-Au2'	125.7(14)	C16'-C15'-P1'	113.6(10)
C33'-P2'-Au2'	109.8(7)	N5'-C21'-C22'	106.9(10)
C31'-P2'-Au2'	111.3(7)	N5'-C21'-Au2'	120.9(7)
C36A-P2'-Au2'	114.6(10)	C22'-C21'-Au2'	132.1(9)
C34A-P2'-Au2'	115.9(11)	C21'-C22'-N7'	108.1(10)
C45'-P3'-C43'	104.2(4)	C21'-C22'-C23'	132.2(13)
C45'-P3'-C41'	102.8(4)	N7'-C22'-C23'	119.7(11)
C43'-P3'-C41'	103.0(5)	C28'-C23'-C22'	122.0(13)
C45'-P3'-Pt1'	119.3(3)	C28'-C23'-C24'	119.6(12)
C43'-P3'-Pt1'	115.0(3)	C22'-C23'-C24'	118.3(14)
C41'-P3'-Pt1'	110.6(3)	C25'-C24'-C23'	118.8(15)
C53'-P4'-C51'	104.4(6)	C24'-C25'-C26'	116.5(15)
C53'-P4'-C55'	104.3(7)	C27'-C26'-N8'	122.0(19)
C51'-P4'-C55'	104.0(5)	C27'-C26'-C25'	123.8(14)
C53'-P4'-Pt1'	110.2(4)	N8'-C26'-C25'	114.2(17)
C51'-P4'-Pt1'	120.3(3)	C26'-C27'-C28'	117.1(19)
C55'-P4'-Pt1'	112.2(4)	C23'-C28'-C27'	124.1(16)
O2'-N4'-O1'	122.2(14)	C31'-C32'-C32A	47.5(15)
O2'-N4'-C6'	118.4(17)	C33'-C34'-C34A	76.0(15)
O1'-N4'-C6'	117.3(14)	C36A-C36'-C35'	67.3(16)
O4'-N8'-O3'	126.3(15)	C32'-C31'-P2'	110.4(14)
O4'-N8'-C26'	113.3(17)	C34'-C33'-P2'	102.9(15)
O3'-N8'-C26'	120.3(17)	P2'-C35'-C36'	111.6(14)
N2'-N1'-C1'	110.4(7)	P2'-C32A-C32'	110(2)
N2'-N1'-Pt1'	122.1(6)	C34'-C34A-P2'	91.2(16)

C36'-C36A-P2'	104.8(19)	C52'-C51'-P4'	115.8(7)
C42'-C41'-P3'	112.6(8)	C54'-C53'-P4'	112.2(10)
C44'-C43'-P3'	113.7(7)	C56'-C55'-P4'	116.8(8)
C46'-C45'-P3'	114.9(6)		

Table 17. Anisotropic displacement parameters ($Å^2 x\ 10^3$) for *cis*-**6-Et**. The anisotropic displacement factor exponent takes the form: $-2\pi^2[\ h^2\ a^{*2}U^{11} + ...\ + 2\ h\ k\ a^*\ b^*\ U^{12}\ ]$

	U^{11}	U^{22}	U^{33}	U^{23}	U^{13}	U^{12}
Pt1	11(1)	11(1)	12(1)	-7(1)	3(1)	-1(1)
Au1	24(1)	39(1)	18(1)	-18(1)	8(1)	-18(1)
Au2	32(1)	19(1)	17(1)	-11(1)	-8(1)	5(1)
P1	41(2)	84(3)	44(2)	-51(2)	12(2)	-32(2)
P2	37(2)	33(2)	27(2)	-18(1)	-13(1)	4(1)
P3	17(1)	18(1)	13(1)	-8(1)	3(1)	3(1)
P4	15(1)	12(1)	17(1)	-6(1)	8(1)	-2(1)
O1	61(7)	65(6)	51(6)	-35(5)	37(5)	-33(5)
O2	36(5)	50(5)	45(5)	-8(4)	9(4)	-33(4)
O3	56(6)	27(4)	34(5)	-8(4)	-11(4)	12(4)
O4	83(8)	37(5)	52(6)	-23(4)	-15(5)	23(5)
N1	13(4)	15(4)	20(4)	-10(3)	5(3)	-3(3)
N2	19(4)	13(4)	18(4)	-5(3)	4(3)	-4(3)
N3	18(4)	16(4)	17(4)	-8(3)	5(3)	-4(3)
N4	93(11)	17(5)	72(9)	-12(5)	42(8)	-8(6)
N5	14(4)	13(4)	18(4)	-7(3)	4(3)	2(3)
N6	25(5)	15(4)	20(4)	-11(3)	-4(4)	6(3)
N7	31(5)	18(4)	25(5)	-12(4)	-6(4)	5(4)
N8	51(7)	19(4)	37(6)	-11(4)	-1(5)	8(4)
C1	8(4)	16(4)	17(5)	-4(4)	-2(4)	-1(3)
C2	17(5)	18(4)	16(5)	-9(4)	2(4)	-7(4)
C3	22(5)	14(4)	13(4)	-5(4)	4(4)	-6(4)
C4	44(7)	38(6)	24(6)	-26(5)	23(5)	-25(5)
C5	53(8)	38(6)	24(6)	-19(5)	26(5)	-31(6)
C6	36(6)	26(5)	33(6)	-14(5)	22(5)	-22(5)
C7	36(7)	43(7)	27(6)	-8(5)	9(5)	-28(6)
C8	35(6)	31(5)	17(5)	-6(4)	13(4)	-21(5)
C11	140(20)	170(30)	290(40)	-210(30)	-110(30)	70(20)
C12	200(30)	51(11)	106(17)	-28(11)	22(18)	-36(15)
C13	73(12)	220(20)	95(14)	-124(16)	55(11)	-108(15)
C14	330(40)	200(30)	22(9)	-20(12)	9(14)	-210(30)
C15	38(8)	75(9)	47(8)	-28(7)	9(6)	-40(7)
C16	98(14)	100(13)	99(14)	-73(11)	63(11)	-69(12)
C21	18(5)	9(4)	18(5)	-8(3)	0(4)	4(3)
C22	21(5)	18(4)	16(5)	-7(4)	5(4)	1(4)
C23	27(6)	17(4)	16(5)	-4(4)	4(4)	-5(4)
C24	35(6)	23(5)	28(6)	-12(4)	-5(5)	0(5)
C25	30(6)	21(5)	12(5)	-4(4)	-7(4)	13(4)
C26	21(5)	14(4)	28(6)	-9(4)	7(4)	6(4)
C27	36(7)	19(5)	25(6)	-10(4)	-3(5)	9(4)
C28	30(6)	19(5)	25(6)	-11(4)	-6(5)	2(4)
C31	42(7)	25(6)	46(7)	-6(5)	-24(6)	-3(5)
C32	46(8)	36(6)	40(7)	-14(5)	-10(6)	-8(6)
C33	34(7)	55(8)	30(7)	-17(6)	-7(5)	6(6)

C34	43(9)	112(13)	22(7)	-26(8)	-7(6)	12(8)
C35	46(8)	44(7)	45(8)	-28(6)	-17(6)	4(6)
C36	96(13)	36(7)	41(8)	-20(6)	1(8)	-19(8)
C41	20(6)	26(5)	22(5)	-1(4)	6(4)	7(4)
C42	27(6)	36(6)	28(6)	0(5)	3(5)	1(5)
C43	29(6)	12(4)	18(5)	-4(4)	11(4)	-1(4)
C44	26(6)	33(6)	26(6)	-5(5)	13(5)	-1(5)
C45	51(8)	26(5)	20(5)	-13(4)	7(5)	-2(5)
C46	78(11)	58(9)	39(8)	-19(7)	-28(8)	-13(8)
C51	30(6)	17(4)	23(5)	-13(4)	8(4)	0(4)
C52	61(9)	45(7)	41(7)	-20(6)	5(6)	-35(7)
C53	18(5)	23(5)	29(6)	-2(4)	8(4)	-1(4)
C54	10(5)	42(7)	56(8)	-8(6)	4(5)	-5(5)
C55	21(5)	14(4)	27(5)	-10(4)	8(4)	0(4)
C56	29(6)	16(5)	35(6)	-6(4)	15(5)	0(4)
Pt1'	23(1)	12(1)	10(1)	-5(1)	4(1)	-1(1)
Au1'	60(1)	38(1)	17(1)	-14(1)	10(1)	-32(1)
Au2'	31(1)	28(1)	27(1)	-6(1)	-6(1)	3(1)
P1'	66(2)	46(2)	25(2)	-20(1)	7(2)	-34(2)
P2'	65(3)	43(2)	56(2)	-15(2)	-31(2)	-7(2)
P3'	17(1)	15(1)	12(1)	-6(1)	2(1)	0(1)
P4'	34(2)	15(1)	14(1)	-4(1)	11(1)	2(1)
O1'	217(19)	310(20)	52(8)	-16(11)	5(10)	-238(19)
N4'	230(30)	158(18)	56(11)	-34(11)	72(14)	-147(18)
O2'	81(8)	80(7)	59(7)	-27(6)	34(6)	-59(6)
O3'	103(8)	52(5)	150(9)	-9(6)	-14(6)	33(5)
N8'	103(8)	52(5)	150(9)	-9(6)	-14(6)	33(5)
O4'	103(8)	52(5)	150(9)	-9(6)	-14(6)	33(5)
N1'	34(5)	12(4)	10(4)	-5(3)	6(3)	2(3)
N2'	26(5)	17(4)	14(4)	-7(3)	9(3)	-8(3)
N3'	31(5)	16(4)	12(4)	-8(3)	10(3)	-3(3)
N5'	45(6)	15(4)	14(4)	-5(3)	10(4)	-9(4)
N6'	73(8)	15(4)	20(5)	-12(4)	14(5)	-5(4)
N7'	91(9)	18(4)	21(5)	-7(4)	12(5)	-9(5)
C1'	34(6)	24(5)	14(5)	-9(4)	5(4)	-14(5)
C2'	42(7)	23(5)	25(5)	-10(4)	10(5)	-23(5)
C3'	46(7)	31(6)	21(5)	-8(4)	8(5)	-26(5)
C4'	140(17)	200(20)	21(7)	-38(10)	29(9)	-147(17)
C5'	230(30)	250(30)	50(10)	-84(14)	92(14)	-230(30)
C6'	79(11)	79(10)	38(8)	-16(7)	29(7)	-69(9)
C7'	53(8)	48(7)	32(7)	-23(6)	12(6)	-20(6)
C8'	46(8)	53(7)	30(6)	-27(6)	17(6)	-26(6)
C11'	96(12)	52(8)	12(5)	-14(5)	1(6)	-41(8)
C12'	75(12)	69(10)	38(8)	-13(7)	-8(8)	-5(9)
C13'	63(10)	54(8)	47(8)	-26(7)	-2(7)	-32(7)
C14'	50(10)	94(13)	78(12)	-35(10)	-2(9)	-8(9)
C15'	64(9)	31(6)	38(7)	-14(5)	-8(6)	-21(6)
C16'	97(13)	45(8)	41(8)	-9(6)	-3(8)	-22(8)
C21'	36(6)	22(5)	18(5)	-5(4)	11(5)	-3(5)
C22'	68(9)	13(5)	23(6)	-5(4)	18(6)	-1(5)
C23'	71(10)	19(5)	33(7)	-1(5)	12(7)	13(6)

C24'	84(12)	36(7)	54(9)	-19(6)	-17(8)	3(7)
C25'	105(15)	27(7)	73(11)	-12(7)	15(11)	5(8)
C26'	98(15)	36(8)	69(11)	-5(8)	9(10)	44(9)
C27'	62(11)	38(8)	105(14)	12(9)	25(10)	1(8)
C28'	39(9)	25(6)	114(14)	-5(8)	28(9)	8(6)
C32'	80(15)	91(14)	117(17)	-37(13)	-21(13)	29(12)
C34'	160(20)	36(9)	150(20)	3(11)	-53(17)	-33(12)
C36'	59(10)	48(8)	70(10)	-19(7)	8(8)	-20(7)
C41'	34(6)	17(5)	20(5)	-1(4)	9(5)	-4(4)
C42'	32(7)	41(7)	60(9)	7(6)	-18(6)	-13(6)
C43'	26(6)	22(5)	21(5)	-15(4)	3(4)	-5(4)
C44'	56(9)	42(7)	48(8)	-13(6)	-20(7)	-26(6)
C45'	13(5)	17(4)	18(5)	-7(4)	2(4)	2(4)
C46'	21(5)	20(5)	19(5)	-6(4)	-2(4)	0(4)
C51'	25(6)	16(5)	31(6)	-6(4)	12(5)	-3(4)
C52'	31(6)	29(6)	31(6)	-5(5)	13(5)	-5(5)
C53'	66(10)	28(6)	41(8)	0(5)	39(7)	22(6)
C54'	54(10)	93(13)	43(9)	16(8)	1(8)	-1(9)
C55'	85(11)	26(6)	24(6)	-12(5)	23(7)	-19(6)
C56'	95(12)	43(7)	27(7)	-18(6)	-14(7)	-18(8)

Single crystal X-ray diffraction structure of **7**

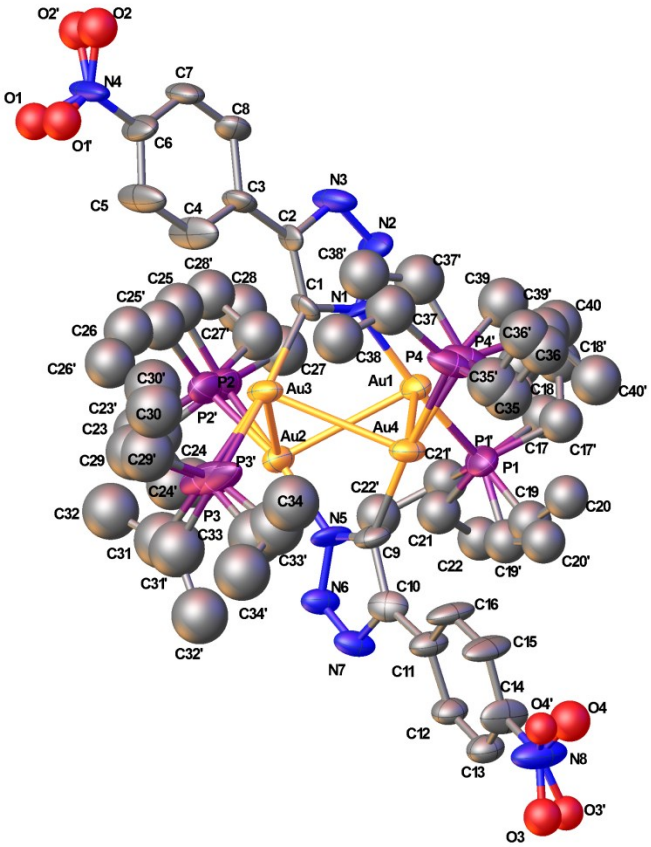


Figure S38. Molecular Structure of **7**.

X-Ray experimental: X-Ray Intensity data were collected at 100 K on a Bruker **DUO** diffractometer using MoKα radiation (λ = 0.71073 Å) and an APEXII CCD area detector.

Raw data frames were read by program SAINT and integrated using 3D profiling algorithms. The resulting data were reduced to produce hkl reflections and their intensities and estimated standard deviations. The data were corrected for Lorentz and polarization effects and numerical absorption corrections were applied based on indexed and measured faces.

The structure was solved and refined in SHELXTL6.1[8], using full-matrix least-squares refinement. The non-H atoms were refined with anisotropic thermal parameters and all of the H atoms were calculated in idealized positions and refined riding on their parent atoms. The asymmetric unit consists of one Au_4 cluster and one diethyl ether solvent molecule disordered over three positions. The solvent molecules were disordered and could not be modeled properly, thus program SQUEEZE[9], a part of the PLATON[10] package of crystallographic software, was used to calculate the solvent disorder area and remove its contribution to the overall intensity data. All four triethylphosphine ligands are wholly disordered and each was refined in two parts. Restrictions were applied using SADI to maintain equal P-C and C-C bonds in those ligands as well as using EADP to maintain equivalent displacement parameters among similar atoms. Both nitro groups have their oxygen atoms disordered and each was refined in two

parts. It is worth noting here that all possible merohedral twinning possibilities were explored but none fit. In the final cycle of refinement, 9435 reflections (of which 6179 are observed with $I > 2\sigma(I)$) were used to refine 483 parameters and the resulting R_1, wR_2 and S (goodness of fit) were 7.53%, 16.93% and 1.048, respectively. The refinement was carried out by minimizing the wR_2 function using F^2 rather than F values. R_1 is calculated to provide a reference to the conventional R value but its function is not minimized.

Table S18. Crystal data and structure refinement for **7**.

Identification code	apow9	
Empirical formula	$C_{44}H_{78}Au_4N_8O_5P_4$	
Formula weight	1710.89	
Temperature	100(2) K	
Wavelength	0.71073 Å	
Crystal system	Rhombohedral	
Space group	R-3	
Unit cell dimensions	a = 46.159(2) Å	α= 90°.
	b = 46.159(2) Å	β= 90°.
	c = 13.0682(6) Å	γ= 120°.
Volume	24113.7(18) $Å^3$	
Z	18	
Density (calculated)	2.121 Mg/m^3	
Absorption coefficient	11.086 mm^{-1}	
F(000)	14652	
Crystal size	0.15 x 0.08 x 0.04 mm^3	
Theta range for data collection	1.53 to 25.00°.	
Index ranges	-51≤h≤51, -50≤k≤54, -15≤l≤15	
Reflections collected	78284	
Independent reflections	9435 [R(int) = 0.1022]	
Completeness to theta = 25.00°	100.0 %	
Absorption correction	Integration	
Max. and min. transmission	0.6976 and 0.2818	
Refinement method	Full-matrix least-squares on F^2	
Data / restraints / parameters	9435 / 255 / 483	
Goodness-of-fit on F^2	1.048	
Final R indices [I>2sigma(I)]	R1 = 0.0753, wR2 = 0.1693 [6179]	
R indices (all data)	R1 = 0.1169, wR2 = 0.1832	
Largest diff. peak and hole	2.746 and -1.392 $e.Å^{-3}$	

$R1 = \sum(||F_O| - |F_C||) / \sum|F_O|$

$wR2 = [\sum[w(F_O^2 - F_C^2)^2] / \sum[w(F_O^2)^2]]^{1/2}$

$S = [\sum[w(F_O^2 - F_C^2)^2] / (n-p)]^{1/2}$

$w= 1/[\sigma^2(F_O^2)+(m*p)^2+n*p]$, $p = [\max(F_O^2,0)+ 2* F_C^2]/3$, m & n are constants.

Table S19. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters ($Å^2$x 10^3) for **7**. U(eq) is defined as one third of the trace of the orthogonalized U^{ij} tensor.

Atom	X	Y	Z	U(eq)
Au1	8858(1)	-1710(1)	2938(1)	44(1)
Au2	8431(1)	-1444(1)	2055(1)	44(1)
Au3	7883(1)	-2088(1)	3080(1)	48(1)
Au4	8277(1)	-2358(1)	2017(1)	44(1)
O1	6771(8)	-2325(11)	7410(20)	56(13)
O2	6998(9)	-2441(13)	8720(30)	66(13)
O1'	6726(7)	-2535(10)	7380(20)	62(11)
O2'	7059(8)	-2256(10)	8700(20)	60(10)
O3	8021(13)	-3245(8)	-3610(20)	59(11)
O4	7943(15)	-3541(8)	-2220(20)	68(12)
O3'	8151(17)	-3215(10)	-3580(30)	49(14)
O4'	7796(15)	-3561(9)	-2290(20)	42(15)
N1	8545(4)	-1818(4)	4182(9)	50(4)
N2	8697(4)	-1760(5)	5096(11)	61(5)
N3	8463(4)	-1847(5)	5823(11)	68(6)
N4	7014(6)	-2347(8)	7786(12)	105(10)
N5	8397(4)	-1740(4)	838(9)	46(4)
N6	8431(4)	-1606(4)	-114(10)	46(4)
N7	8381(4)	-1836(4)	-783(10)	48(4)
N8	8014(7)	-3265(5)	-2671(13)	92(8)
C1	8209(4)	-1948(5)	4275(12)	37(4)
C2	8157(4)	-1965(5)	5331(12)	39(5)
C3	7863(5)	-2067(5)	5945(12)	48(5)
C4	7552(5)	-2183(8)	5533(16)	87(9)
C5	7264(5)	-2272(8)	6119(15)	92(10)
C6	7308(6)	-2242(8)	7167(14)	77(8)
C7	7610(5)	-2133(6)	7620(13)	60(6)
C8	7887(5)	-2036(5)	7036(13)	51(5)
C9	8325(5)	-2060(5)	780(12)	46(5)
C10	8299(5)	-2144(5)	-274(13)	46(5)
C11	8245(5)	-2418(5)	-888(12)	47(5)
C12	8340(5)	-2382(5)	-1912(13)	47(5)
C13	8252(5)	-2673(5)	-2517(14)	50(5)
C14	8111(6)	-2969(5)	-2062(15)	63(7)
C15	8022(7)	-3017(5)	-1027(13)	68(7)
C16	8097(6)	-2740(5)	-464(13)	60(6)
P1	9254(5)	-1546(4)	1741(13)	55(2)
P2	8538(4)	-1043(6)	3243(16)	60(5)
P3	7477(4)	-2218(4)	1873(12)	122(5)
P4	8197(4)	-2742(6)	3253(13)	63(4)
P1'	9268(7)	-1530(6)	1761(19)	55(2)
P2'	8418(7)	-1093(9)	3210(30)	60(5)
P3'	7474(6)	-2283(6)	1854(18)	122(5)

P4'	8296(7)	-2704(9)	3300(20)	63(4)
C17	9642(8)	-1433(7)	2330(30)	79(4)
C18	9761(9)	-1171(9)	3130(30)	79(4)
C19	9213(9)	-1835(6)	780(20)	79(4)
C20	9110(11)	-2178(7)	1110(30)	79(4)
C21	9333(7)	-1183(6)	1050(30)	79(4)
C22	9668(9)	-979(8)	600(30)	79(4)
C17'	9607(12)	-1567(11)	2240(30)	79(4)
C18'	9788(13)	-1359(15)	3130(40)	79(4)
C19'	9194(13)	-1715(9)	530(20)	79(4)
C20'	9072(16)	-2077(9)	480(40)	79(4)
C21'	9445(10)	-1097(7)	1510(40)	79(4)
C22'	9223(13)	-985(11)	1080(50)	79(4)
C23	8482(8)	-718(11)	2580(30)	103(6)
C24	8760(12)	-538(13)	1820(40)	103(6)
C25	8285(7)	-1146(11)	4440(20)	103(6)
C26	7921(7)	-1312(13)	4160(30)	103(6)
C27	8984(6)	-831(8)	3660(30)	103(6)
C28	9053(9)	-540(10)	4340(40)	103(6)
C23'	8385(12)	-738(14)	2670(50)	103(6)
C24'	8635(18)	-581(19)	1820(60)	103(6)
C25'	8085(10)	-1284(16)	4210(40)	103(6)
C26'	7750(9)	-1404(19)	3710(50)	103(6)
C27'	8823(9)	-901(13)	3920(40)	103(6)
C28'	8849(15)	-624(16)	4590(50)	103(6)
C29	7046(6)	-2372(9)	2370(30)	130(7)
C30	6916(10)	-2666(13)	2970(40)	130(7)
C31	7538(9)	-1870(8)	1010(20)	130(7)
C32	7538(15)	-1599(10)	1510(30)	130(7)
C33	7412(10)	-2551(7)	940(20)	130(7)
C34	7332(15)	-2862(9)	1390(40)	130(7)
C29'	7039(6)	-2446(16)	2320(40)	130(7)
C30'	6973(12)	-2600(20)	3300(50)	130(7)
C31'	7514(13)	-1974(11)	870(30)	130(7)
C32'	7510(20)	-2078(18)	-160(30)	130(7)
C33'	7433(13)	-2637(11)	1060(40)	130(7)
C34'	7143(17)	-2790(17)	440(50)	130(7)
C35	8121(9)	-3134(9)	2710(30)	103(6)
C36	8088(15)	-3400(9)	3340(40)	103(6)
C37	7853(6)	-2863(11)	4130(20)	103(6)
C38	7525(7)	-2967(13)	3780(30)	103(6)
C39	8554(7)	-2619(11)	4080(20)	103(6)
C40	8879(7)	-2501(13)	3680(30)	103(6)
C35'	8057(13)	-3138(12)	2920(40)	103(6)
C36'	8010(20)	-3400(10)	3590(60)	103(6)
C37'	8127(9)	-2697(16)	4540(30)	103(6)
C38'	7780(12)	-2827(19)	4690(40)	103(6)
C39'	8705(9)	-2645(17)	3590(30)	103(6)
C40'	8920(12)	-2640(20)	2810(40)	103(6)

Table S20. Bond lengths [Å] for **7**.

Bond	Length	Bond	Length
Au1-N1	2.062(12)	C12-C13	1.43(3)
Au1-P1	2.233(19)	C13-C14	1.32(3)
Au1-P1'	2.25(3)	C14-C15	1.40(3)
Au1-Au2	3.0245(11)	C15-C16	1.36(3)
Au1-Au4	3.0923(11)	P1-C19	1.772(17)
Au2-N5	2.052(13)	P1-C21	1.772(17)
Au2-P2'	2.24(3)	P1-C17	1.773(17)
Au2-P2	2.27(2)	P2-C23	1.86(2)
Au2-Au3	3.0842(11)	P2-C27	1.86(2)
Au3-C1	2.039(15)	P2-C25	1.86(2)
Au3-P3	2.286(7)	P3-C29	1.86(2)
Au3-P3'	2.287(8)	P3-C33	1.86(2)
Au3-Au4	3.0099(11)	P3-C31	1.86(2)
Au4-C9	2.061(18)	P4-C35	1.81(2)
Au4-P4	2.29(2)	P4-C37	1.81(2)
Au4-P4'	2.35(3)	P4-C39	1.81(2)
O1-N4	1.27(4)	P1'-C19'	1.772(17)
O2-N4	1.28(4)	P1'-C21'	1.772(17)
O1'-N4	1.28(4)	P1'-C17'	1.773(17)
O2'-N4	1.25(3)	P2'-C23'	1.86(2)
O3-N8	1.22(3)	P2'-C27'	1.86(2)
O4-N8	1.29(4)	P2'-C25'	1.86(2)
O3'-N8	1.31(5)	P3'-C29'	1.86(2)
O4'-N8	1.33(4)	P3'-C33'	1.86(2)
N1-N2	1.34(2)	P3'-C31'	1.86(2)
N1-C1	1.36(2)	P4'-C35'	1.81(2)
N2-N3	1.34(2)	P4'-C39'	1.81(2)
N3-C2	1.39(2)	P4'-C37'	1.81(2)
N4-C6	1.44(3)	C17-C18	1.47(2)
N5-C9	1.34(2)	C19-C20	1.47(2)
N5-N6	1.363(19)	C21-C22	1.47(2)
N6-N7	1.31(2)	C17'-C18'	1.47(3)
N7-C10	1.44(2)	C19'-C20'	1.47(2)
N8-C14	1.45(3)	C21'-C22'	1.47(3)
C1-C2	1.40(2)	C23-C24	1.50(3)
C2-C3	1.44(2)	C25-C26	1.50(3)
C3-C4	1.37(3)	C27-C28	1.50(3)
C3-C8	1.43(2)	C23'-C24'	1.50(3)
C4-C5	1.40(3)	C25'-C26'	1.50(3)
C4-H4A	0.9500	C27'-C28'	1.50(3)
C5-C6	1.38(3)	C29-C30	1.42(3)
C6-C7	1.36(3)	C31-C32	1.42(3)
C7-C8	1.36(3)	C33-C34	1.42(3)
C9-C10	1.42(2)	C29'-C30'	1.42(3)
C10-C11	1.41(3)	C31'-C32'	1.42(3)
C11-C12	1.39(2)	C33'-C34'	1.42(3)
C11-C16	1.40(3)	C35-C36	1.42(2)

C37-C38	1.42(2)	C37'-C38'	1.42(2)
C39-C40	1.42(2)	C39'-C40'	1.42(2)
C35'-C36'	1.42(2)		

Table S21. Bond Angles [°] for **7**.

Bond	Angle	Bond	Angle
N1-Au1-P1	171.9(6)	O2'-N4-O2	34.6(18)
N1-Au1-P1'	170.2(7)	O1-N4-O2	119(3)
P1-Au1-P1'	1.8(10)	O1'-N4-O2	107(3)
N1-Au1-Au2	83.1(5)	O2'-N4-C6	117(2)
P1-Au1-Au2	100.7(5)	O1-N4-C6	119(2)
P1'-Au1-Au2	100.8(7)	O1'-N4-C6	119(2)
N1-Au1-Au4	84.8(4)	O2-N4-C6	122(2)
P1-Au1-Au4	102.9(4)	C9-N5-N6	110.9(13)
P1'-Au1-Au4	104.7(6)	C9-N5-Au2	132.1(11)
Au2-Au1-Au4	79.51(3)	N6-N5-Au2	116.8(11)
N5-Au2-P2'	170.2(10)	N7-N6-N5	107.9(14)
N5-Au2-P2	170.1(7)	N6-N7-C10	110.4(14)
P2'-Au2-P2	12.3(11)	O3-N8-O4	121(3)
N5-Au2-Au1	82.7(4)	O3-N8-O3'	25(2)
P2'-Au2-Au1	107.1(9)	O4-N8-O3'	117(3)
P2-Au2-Au1	98.6(5)	O3-N8-O4'	116(3)
N5-Au2-Au3	86.7(4)	O4-N8-O4'	28.4(18)
P2'-Au2-Au3	95.6(8)	O3'-N8-O4'	125(3)
P2-Au2-Au3	103.2(5)	O3-N8-C14	120(2)
Au1-Au2-Au3	80.22(3)	O4-N8-C14	119(2)
C1-Au3-P3	172.1(7)	O3'-N8-C14	116(3)
C1-Au3-P3'	174.0(9)	O4'-N8-C14	119(2)
P3-Au3-P3'	7.4(10)	N1-C1-C2	103.8(13)
C1-Au3-Au4	88.8(5)	N1-C1-Au3	124.8(12)
P3-Au3-Au4	99.1(5)	C2-C1-Au3	131.3(12)
P3'-Au3-Au4	93.6(7)	N3-C2-C1	108.8(14)
C1-Au3-Au2	84.7(5)	N3-C2-C3	118.6(14)
P3-Au3-Au2	97.1(5)	C1-C2-C3	132.6(14)
P3'-Au3-Au2	101.1(7)	C4-C3-C8	116.4(18)
Au4-Au3-Au2	79.87(3)	C4-C3-C2	122.9(16)
C9-Au4-P4	173.0(7)	C8-C3-C2	120.6(16)
C9-Au4-P4'	170.4(9)	C3-C4-C5	123.6(19)
P4-Au4-P4'	9.8(10)	C6-C5-C4	116.2(19)
C9-Au4-Au3	88.4(5)	C7-C6-C5	122.7(18)
P4-Au4-Au3	95.7(5)	C7-C6-N4	120.1(17)
P4'-Au4-Au3	100.8(8)	C5-C6-N4	117.1(19)
C9-Au4-Au1	84.7(6)	C6-C7-C8	120.0(16)
P4-Au4-Au1	101.5(5)	C7-C8-C3	120.9(18)
P4'-Au4-Au1	94.0(8)	N5-C9-C10	107.2(15)
Au3-Au4-Au1	80.31(3)	N5-C9-Au4	125.0(12)
N2-N1-C1	112.0(12)	C10-C9-Au4	127.7(15)
N2-N1-Au1	114.9(11)	C11-C10-C9	138.6(18)
C1-N1-Au1	133.1(11)	C11-C10-N7	117.6(15)
N3-N2-N1	108.0(14)	C9-C10-N7	103.5(16)
N2-N3-C2	107.3(13)	C12-C11-C16	117.6(17)
O2'-N4-O1	110(3)	C12-C11-C10	122.5(17)
O2'-N4-O1'	124(2)	C16-C11-C10	119.9(15)
O1-N4-O1'	40.6(16)	C11-C12-C13	119.7(18)

C14-C13-C12	118.8(17)	C23'-P2'-Au2	115(2)
C13-C14-C15	123.5(18)	C27'-P2'-Au2	107(2)
C13-C14-N8	119.2(18)	C25'-P2'-Au2	116(2)
C15-C14-N8	117.1(18)	C29'-P3'-C33'	102.2(8)
C16-C15-C14	117.2(18)	C29'-P3'-C31'	102.2(8)
C15-C16-C11	122.8(16)	C33'-P3'-C31'	102.2(8)
C19-P1-C21	104.2(6)	C29'-P3'-Au3	116.0(7)
C19-P1-C17	104.2(7)	C33'-P3'-Au3	116.0(7)
C21-P1-C17	104.1(6)	C31'-P3'-Au3	116.0(7)
C19-P1-Au1	118.7(12)	C35'-P4'-C39'	103.8(8)
C21-P1-Au1	115.0(14)	C35'-P4'-C37'	103.8(8)
C17-P1-Au1	109.2(14)	C39'-P4'-C37'	103.8(8)
C23-P2-C27	106.0(7)	C35'-P4'-Au4	110(2)
C23-P2-C25	105.9(7)	C39'-P4'-Au4	116(2)
C27-P2-C25	105.9(7)	C37'-P4'-Au4	118(2)
C23-P2-Au2	106.0(18)	C18-C17-P1	117.2(15)
C27-P2-Au2	111.3(13)	C20-C19-P1	117.4(15)
C25-P2-Au2	120.7(15)	C22-C21-P1	117.4(15)
C29-P3-C33	102.2(8)	C18'-C17'-P1'	117.3(15)
C29-P3-C31	102.2(8)	C20'-C19'-P1'	117.3(15)
C33-P3-C31	102.2(8)	C22'-C21'-P1'	117.4(15)
C29-P3-Au3	116.0(7)	C24-C23-P2	109.1(16)
C33-P3-Au3	116.1(7)	C26-C25-P2	109.1(16)
C31-P3-Au3	116.0(7)	C28-C27-P2	109.2(16)
C35-P4-C37	103.8(7)	C24'-C23'-P2'	109.2(16)
C35-P4-C39	103.8(7)	C26'-C25'-P2'	109.0(16)
C37-P4-C39	103.7(7)	C28'-C27'-P2'	109.1(16)
C35-P4-Au4	112.1(15)	C30-C29-P3	114.7(15)
C37-P4-Au4	117.6(15)	C32-C31-P3	114.7(16)
C39-P4-Au4	114.3(15)	C34-C33-P3	114.7(15)
C19'-P1'-C21'	104.1(7)	C30'-C29'-P3'	114.8(15)
C19'-P1'-C17'	104.1(7)	C32'-C31'-P3'	114.7(16)
C21'-P1'-C17'	104.1(7)	C34'-C33'-P3'	114.7(16)
C19'-P1'-Au1	121.2(18)	C36-C35-P4	121.6(14)
C21'-P1'-Au1	111.8(18)	C38-C37-P4	121.6(14)
C17'-P1'-Au1	110.0(18)	C40-C39-P4	121.5(14)
C23'-P2'-C27'	106.0(7)	C36'-C35'-P4'	121.5(14)
C23'-P2'-C25'	105.9(7)	C38'-C37'-P4'	121.6(14)
C27'-P2'-C25'	105.9(7)	C40'-C39'-P4'	121.6(14)

Symmetry transformations used to generate equivalent atoms:

Table 22. Anisotropic displacement parameters ($Å^2 x\ 10^3$) for **7**. The anisotropic displacement factor exponent takes the form: $-2\pi^2[\ h^2\ a^{*2}U^{11} + ...\ + 2\ h\ k\ a^*\ b^*\ U^{12}\ ]$

	U^{11}	U^{22}	U^{33}	U^{23}	U^{13}	U^{12}
Au1	42(1)	66(1)	29(1)	5(1)	6(1)	31(1)
Au2	66(1)	51(1)	29(1)	-1(1)	2(1)	39(1)
Au3	46(1)	77(1)	22(1)	-3(1)	-2(1)	31(1)
Au4	62(1)	49(1)	24(1)	3(1)	-1(1)	29(1)
N1	38(10)	96(13)	11(6)	-6(7)	9(6)	30(9)
N2	45(10)	119(16)	30(8)	9(9)	12(7)	49(11)
N3	49(11)	122(17)	25(8)	7(9)	-6(7)	37(12)
N4	87(16)	250(30)	21(8)	21(13)	5(9)	120(20)
N5	77(12)	41(10)	16(6)	-10(6)	-3(7)	28(9)
N6	69(12)	39(9)	28(7)	-2(7)	-5(7)	26(9)
N7	72(12)	39(10)	30(8)	4(7)	-9(7)	25(9)
N8	170(20)	80(16)	34(9)	7(10)	9(12)	72(17)
C1	23(10)	55(12)	34(9)	6(8)	-11(7)	20(9)
C2	17(9)	77(14)	31(8)	5(8)	-2(7)	28(10)
C3	42(12)	81(15)	24(8)	-3(9)	-14(8)	33(11)
C4	21(11)	170(30)	45(12)	6(14)	-2(9)	27(15)
C5	32(13)	200(30)	36(11)	12(15)	-4(9)	49(17)
C6	58(15)	170(30)	28(10)	12(13)	14(10)	74(17)
C7	57(14)	109(19)	20(8)	13(10)	1(9)	46(14)
C8	55(13)	73(15)	29(9)	-13(9)	-17(9)	35(12)
C9	54(13)	59(14)	22(8)	4(8)	10(8)	26(11)
C10	33(11)	42(12)	41(10)	7(9)	3(8)	2(9)
C11	66(14)	45(12)	26(8)	4(8)	7(9)	25(11)
C12	60(13)	51(13)	30(9)	9(8)	8(8)	29(11)
C13	64(14)	52(13)	34(9)	5(9)	7(9)	29(12)
C14	110(20)	22(11)	49(11)	-6(9)	-1(12)	30(12)
C15	130(20)	51(14)	26(9)	18(9)	23(11)	52(15)
C16	97(18)	53(14)	20(8)	4(9)	13(10)	30(13)
P1	48(4)	89(5)	36(3)	9(3)	10(2)	42(4)
P2	92(14)	66(8)	42(3)	-6(4)	-2(8)	54(10)
P3	59(5)	263(14)	45(4)	-51(6)	-19(3)	83(7)
P4	85(11)	57(6)	39(3)	5(3)	-22(6)	30(8)
P1'	48(4)	89(5)	36(3)	9(3)	10(2)	42(4)
P2'	92(14)	66(8)	42(3)	-6(4)	-2(8)	54(10)
P3'	59(5)	263(14)	45(4)	-51(6)	-19(3)	83(7)
P4'	85(11)	57(6)	39(3)	5(3)	-22(6)	30(8)

X-Ray crystallographic information for *cis*-**11**.

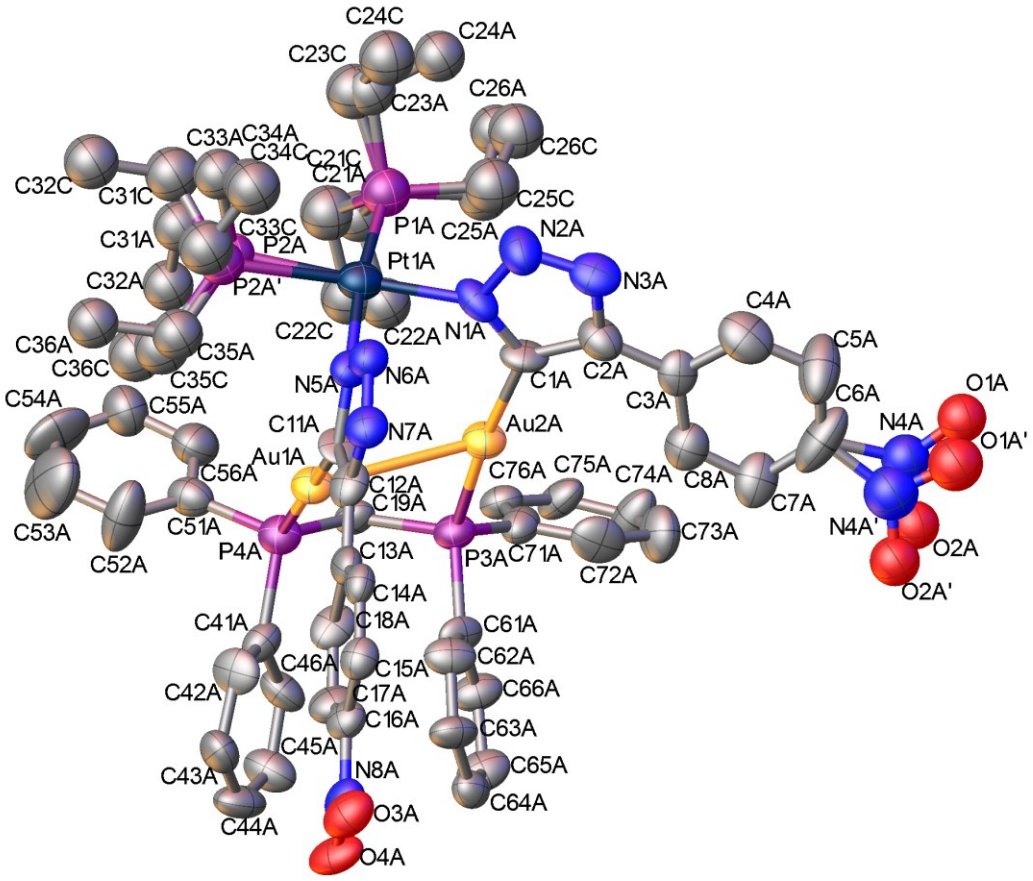


Figure S39. Molecular structure of **11**

X-Ray experimental: X-Ray Intensity data were collected at 100 K on a Bruker **DUO** diffractometer using MoKα radiation (λ = 0.71073 Å) and an APEXII CCD area detector.

Raw data frames were read by program SAINT and integrated using 3D profiling algorithms. The resulting data were reduced to produce hkl reflections and their intensities and estimated standard deviations. The data were corrected for Lorentz and polarization effects and numerical absorption corrections were applied based on indexed and measured faces.

The structure was solved and refined in SHELXTL6.1[8], using full-matrix least-squares refinement. The non-H atoms were refined with anisotropic thermal parameters and all of the H atoms were calculated in idealized positions and refined riding on their parent atoms. In complex A, The N4A nitro groups are disordered and were refined in two parts. Both P1A and P2A are disordered and were refined in two parts with their respective ethyl groups. In molecule B, only the N1B nitro groups are disordered. Partially disordered chloroform molecules as well as disordered pentane molecules are also present in the structure. In all, the asymmetric unit consists of two $PtAu_2$ complexes, and three and a third chloroform molecules disordered over seven general and two symmetry positions. Attempts to remove the solvent area contributions to the overall intensity of the data failed because of the disordered partial

solvent molecule's proximity to the complexes, thus good void calculations were not possible. In the final cycle of refinement, 23814 reflections (of which 13830 are observed with $I > 2\sigma$ (I)) were used to refine 1328 parameters and the resulting R_1, wR_2 and S (goodness of fit) were 6.89%, 18.71% and 1.365, respectively. The refinement was carried out by minimizing the wR_2 function using F^2 rather than F values. R_1 is calculated to provide a reference to the conventional R value but its function is not minimized.

Table S23. Crystal data and structure refinement for **11**.

Identification code	xy04	
Empirical formula	$C_{111.33}H_{114.80}Au_4Cl_{0.56}N_{16}O_8P_8Pt_2$	
Formula weight	3250.49	
Temperature	100(2) K	
Wavelength	0.71073 Å	
Crystal system	Rhombohedral	
Space group	R-3	
Unit cell dimensions	a = 42.079(3) Å	α= 90°.
	b = 42.079(3) Å	β= 90°.
	c = 39.683(3) Å	γ = 120°.
Volume	60851(8) $Å^3$	
Z	18	
Density (calculated)	1.597 Mg/m^3	
Absorption coefficient	6.543 mm^{-1}	
F(000)	28084	
Crystal size	0.14 x 0.13 x 0.09 mm^3	
Theta range for data collection	1.52 to 25.00°.	
Index ranges	$-49\leq h\leq 24$, $0\leq k\leq 50$, $0\leq l\leq 47$	
Reflections collected	23814	
Independent reflections	23814 [R(int) = 0.0000]	
Completeness to theta = 25.00°	100.0 %	
Absorption correction	Semi-empirical from equivalents	
Max. and min. transmission	0.5844 and 0.4589	
Refinement method	Full-matrix least-squares on F^2	
Data / restraints / parameters	23814 / 108 / 1328	
Goodness-of-fit on F^2	1.365	
Final R indices [I>2sigma(I)]	R1 = 0.0689, wR2 = 0.1871 [13830]	
R indices (all data)	R1 = 0.1422, wR2 = 0.2306	
Largest diff. peak and hole	3.934 and -1.762 e.$Å^{-3}$	

$R1 = \sum(||F_O| - |F_C||) / \sum|F_O|$

$wR2 = [\sum[w(F_O^2 - F_C^2)^2] / \sum[w(F_O^2)^2]]^{1/2}$

$S = [\sum[w(F_O^2 - F_C^2)^2] / (n-p)]^{1/2}$

$w= 1/[\sigma^2(F_O^2)+(m*p)^2+n*p]$, $p = [\max(F_O^2,0)+ 2* F_C^2]/3$, m & n are constants.

Table S24. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters ($Å^2$x 10^3) for **11**. U(eq) is defined as one third of the trace of the orthogonalized U^{ij} tensor.

	x	y	z	U(eq)
Pt1A	9722(1)	1304(1)	3026(1)	56(1)
Au1A	8784(1)	1098(1)	2862(1)	46(1)
Au2A	9348(1)	1951(1)	2845(1)	50(1)
P3A	8842(1)	1962(1)	3039(1)	45(1)
P4A	8407(1)	1168(1)	3239(1)	49(1)
O1A	10709(9)	3878(7)	1871(7)	73(8)
O2A	10147(11)	3708(9)	1879(7)	73(8)
N4A	10397(8)	3651(6)	1942(9)	73(8)
O1A'	10520(17)	3829(11)	1788(12)	93(13)
O2A'	9969(13)	3585(13)	1803(10)	77(15)
N4A'	10237(13)	3560(13)	1873(13)	93(13)
O3A	7938(4)	438(4)	939(4)	70(4)
O4A	7649(4)	592(4)	1291(3)	67(4)
N1A	9955(4)	1776(4)	2757(4)	52(4)
N2A	10296(5)	1895(5)	2619(4)	66(5)
N3A	10396(4)	2203(5)	2448(4)	60(4)
N5A	9432(4)	1072(4)	2595(3)	46(4)
N6A	9584(4)	1011(4)	2322(4)	47(4)
N7A	9351(4)	904(4)	2066(4)	53(4)
N8A	7915(5)	562(4)	1213(4)	57(4)
C1A	9836(5)	2016(5)	2683(4)	50(5)
C2A	10120(5)	2294(5)	2490(5)	58(5)
C3A	10177(5)	2634(5)	2340(4)	49(5)
C4A	10511(6)	2885(7)	2195(5)	78(7)
C5A	10570(8)	3209(7)	2052(7)	97(9)
C6A	10269(9)	3268(6)	2059(5)	94(9)
C7A	9925(7)	3023(6)	2182(5)	66(6)
C8A	9885(6)	2720(6)	2324(5)	62(5)
C11A	9095(4)	1013(4)	2513(4)	40(4)
C12A	9043(5)	908(5)	2167(5)	51(5)
C13A	8751(5)	813(4)	1928(5)	48(5)
C14A	8780(5)	716(4)	1605(4)	41(4)
C15A	8520(5)	635(5)	1373(5)	48(5)
C16A	8204(5)	653(5)	1462(5)	47(4)
C17A	8162(6)	748(5)	1781(5)	58(5)
C18A	8435(5)	829(5)	2016(5)	53(5)
C19A	8600(5)	1630(4)	3396(4)	44(4)
P1A	10042(2)	1632(2)	3482(2)	75(2)
C21A	9792(13)	1695(18)	3826(7)	81(12)
C22A	9507(14)	1818(18)	3699(15)	81(12)
C23A	10414(12)	1550(20)	3607(15)	81(12)
C24A	10767(9)	1760(20)	3367(14)	81(12)
C25A	10242(16)	2128(5)	3459(12)	81(12)
C26A	10462(17)	2335(9)	3794(14)	81(12)
C21C	9737(9)	1542(14)	3840(6)	95(8)

C22C	9438(9)	1665(14)	3774(11)	95(8)
C23C	10359(12)	1503(17)	3663(8)	95(8)
C24C	10642(10)	1502(16)	3392(10)	95(8)
C25C	10326(11)	2112(5)	3362(8)	95(8)
C26C	10531(11)	2376(6)	3677(11)	95(8)
P2A	9505(2)	771(3)	3277(2)	53(3)
C31A	9393(8)	712(10)	3722(5)	80(5)
C32A	9087(8)	757(10)	3835(7)	80(5)
C33A	9830(8)	611(10)	3220(7)	80(5)
C34A	9938(10)	583(12)	2878(8)	80(5)
C35A	9091(7)	419(6)	3075(7)	80(5)
C36A	8925(8)	46(6)	3207(8)	80(5)
P2A'	9466(5)	659(5)	3178(5)	62(5)
C31C	9647(16)	550(11)	3547(12)	93(10)
C32C	9508(18)	164(13)	3625(13)	93(10)
C33C	9574(13)	403(14)	2876(14)	93(10)
C34C	9957(15)	550(20)	2779(18)	93(10)
C35C	8969(6)	417(17)	3206(12)	93(10)
C36C	8804(10)	457(18)	3515(14)	93(10)
C41A	7954(5)	1037(5)	3048(4)	48(4)
C42A	7841(5)	786(5)	2797(5)	57(5)
C43A	7498(5)	669(5)	2650(5)	62(5)
C44A	7303(5)	853(6)	2737(5)	67(6)
C45A	7441(5)	1122(6)	2977(5)	65(6)
C46A	7771(5)	1220(5)	3129(5)	57(5)
C51A	8281(5)	892(6)	3624(5)	57(5)
C52A	8065(8)	539(7)	3592(6)	101(9)
C53A	7979(10)	310(8)	3885(10)	146(14)
C54A	8124(9)	465(10)	4181(6)	101(10)
C55A	8364(7)	821(7)	4210(7)	82(7)
C56A	8443(6)	1041(6)	3912(6)	71(6)
C61A	8497(5)	1882(5)	2719(4)	45(4)
C62A	8453(5)	1685(5)	2434(4)	54(5)
C63A	8192(5)	1624(6)	2202(4)	56(5)
C64A	7975(5)	1773(5)	2243(4)	46(4)
C65A	8012(6)	1978(6)	2520(5)	63(6)
C66A	8272(5)	2030(6)	2767(5)	56(5)
C71A	8967(5)	2396(5)	3216(5)	52(5)
C72A	9125(6)	2689(6)	2999(4)	65(6)
C73A	9253(6)	3064(6)	3106(6)	77(7)
C74A	9186(7)	3099(6)	3444(5)	74(7)
C75A	9053(6)	2832(5)	3659(5)	59(5)
C76A	8938(5)	2469(5)	3554(4)	46(4)
Pt1B	7945(1)	1718(1)	4529(1)	44(1)
Au1B	7798(1)	2508(1)	4406(1)	36(1)
Au2B	8625(1)	2746(1)	4616(1)	39(1)
P1B	7329(1)	1360(1)	4475(1)	46(1)
P2B	7989(1)	1542(1)	5058(1)	57(1)
P3B	7728(1)	2862(1)	4805(1)	35(1)
P4B	8549(1)	3232(1)	4740(1)	36(1)
O1B	7953(7)	3450(8)	2592(7)	38(8)

O2B	7610(8)	3467(7)	2974(8)	38(8)
N4B	7804(9)	3348(9)	2867(7)	38(8)
O1B'	7999(7)	3323(9)	2495(6)	70(7)
O2B'	7718(9)	3472(7)	2887(8)	70(7)
N4B'	7868(10)	3310(9)	2774(6)	70(7)
O3B	10783(4)	3518(5)	4156(5)	108(6)
O4B	10644(4)	3848(5)	4453(5)	97(6)
N1B	7958(3)	1963(3)	4072(3)	36(3)
N2B	8057(4)	1868(4)	3783(4)	55(4)
N3B	8062(4)	2083(4)	3556(4)	58(4)
N5B	8503(4)	1994(4)	4493(4)	50(4)
N6B	8670(4)	1795(4)	4402(4)	56(4)
N7B	9013(4)	2023(4)	4362(4)	55(4)
N8B	10552(5)	3559(6)	4311(6)	80(6)
C1B	7894(4)	2238(4)	4034(4)	32(4)
C2B	7965(4)	2317(4)	3693(5)	43(4)
C3B	7934(4)	2587(5)	3478(4)	46(4)
C4B	8156(5)	2730(5)	3187(5)	56(5)
C5B	8112(5)	2967(5)	2967(5)	54(5)
C6B	7867(5)	3079(5)	3060(4)	54(5)
C7B	7652(5)	2953(4)	3336(4)	44(4)
C8B	7692(4)	2704(4)	3556(4)	40(4)
C11B	8751(5)	2351(5)	4511(4)	47(5)
C12B	9097(5)	2375(5)	4429(4)	46(4)
C13B	9463(5)	2677(5)	4403(5)	55(5)
C14B	9734(6)	2645(6)	4217(6)	78(7)
C15B	10084(7)	2939(9)	4204(7)	97(9)
C16B	10181(6)	3268(7)	4346(5)	69(6)
C17B	9929(6)	3319(6)	4517(6)	75(7)
C18B	9573(5)	3031(5)	4530(5)	61(6)
C19B	8166(4)	3147(4)	5025(4)	40(4)
C21B	7217(5)	917(5)	4320(5)	60(5)
C22B	7465(6)	910(5)	4047(6)	78(7)
C23B	7035(5)	1239(5)	4843(4)	54(5)
C24B	6975(6)	1551(6)	4967(5)	67(6)
C25B	7100(4)	1521(4)	4214(4)	45(4)
C26B	7135(6)	1481(6)	3820(5)	77(7)
C31B	7803(6)	1714(5)	5369(5)	73(6)
C32B	7949(6)	2121(5)	5334(6)	74(6)
C33B	7770(6)	1051(6)	5139(5)	63(6)
C34B	7927(8)	867(7)	4961(6)	96(8)
C35B	8462(5)	1732(6)	5189(5)	71(6)
C36B	8512(7)	1659(9)	5557(7)	137(14)
C41B	7596(5)	3178(5)	4632(4)	46(2)
C42B	7589(5)	3440(5)	4838(4)	46(2)
C43B	7491(5)	3681(5)	4702(4)	46(2)
C44B	7386(5)	3657(5)	4373(4)	46(2)
C45B	7374(5)	3383(5)	4174(4)	46(2)
C46B	7473(5)	3151(5)	4298(4)	46(2)
C51B	7384(4)	2631(4)	5136(4)	36(4)
C52B	7035(4)	2385(4)	5034(5)	46(4)

C53B	6764(5)	2203(5)	5263(5)	52(5)
C54B	6842(5)	2261(5)	5601(6)	64(6)
C55B	7185(5)	2502(5)	5716(5)	59(5)
C56B	7464(5)	2692(5)	5475(4)	51(5)
C61B	8957(4)	3599(4)	4937(4)	34(4)
C62B	8957(4)	3816(5)	5188(4)	44(4)
C63B	9264(4)	4101(5)	5304(4)	47(4)
C64B	9603(4)	4194(5)	5174(4)	45(4)
C65B	9614(4)	3986(5)	4918(5)	51(5)
C66B	9292(4)	3697(5)	4791(4)	45(4)
C71B	8491(5)	3458(5)	4367(5)	53(5)
C72B	8444(4)	3755(4)	4409(5)	45(4)
C73B	8409(4)	3936(4)	4126(4)	45(4)
C74B	8436(5)	3813(5)	3809(5)	55(5)
C75B	8499(5)	3521(5)	3777(5)	59(6)
C76B	8519(5)	3343(5)	4045(5)	50(5)
C91	6667	3333	5281(12)	79(12)
Cl1	6232(10)	3176(12)	5393(11)	213(17)
Cl1'	6221(4)	3210(3)	5420(4)	46(3)
Cl31	11089(6)	2795(6)	2905(5)	71(6)
Cl32	10000	0	5000	150(20)
C95	6667	3333	3333	71(15)
Cl11	6257(3)	3293(3)	3425(2)	25(2)
C92	2931(9)	-1625(9)	3711(9)	282(14)
Cl2	3296(10)	-1401(14)	4004(11)	282(14)
Cl3	2501(10)	-1865(12)	3920(12)	282(14)
Cl4	2934(11)	-1311(12)	3411(9)	282(14)
C92'	3020(2)	-1396(2)	3922(2)	93(2)
Cl2'	3438(2)	-1369(3)	4015(3)	93(2)
Cl3'	2648(2)	-1828(2)	3893(3)	93(2)
Cl4'	3055(3)	-1094(2)	3593(3)	93(2)
C93	10225(2)	3323(2)	3088(2)	96(2)
Cl5	10077(3)	2873(2)	3238(3)	96(2)
Cl6	10217(3)	3609(3)	3414(3)	96(2)
Cl7	10667(3)	3518(3)	2901(3)	96(2)
C93'	10423(5)	3350(5)	3269(4)	107(5)
Cl5'	10019(6)	2958(7)	3418(7)	107(5)
Cl6'	10718(6)	3223(7)	3064(7)	107(5)
Cl7'	10314(7)	3621(6)	3001(7)	107(5)
C94	10359(4)	-1644(5)	5050(4)	127(5)
Cl8	10011(6)	-2036(6)	5261(7)	127(5)
Cl9	10651(6)	-1301(5)	5341(5)	127(5)
Cl10	10614(6)	-1765(6)	4774(4)	127(5)
C94"	10508(6)	-1825(5)	5236(4)	81(5)
Cl8"	9992(6)	-2004(8)	5318(8)	81(5)
Cl9"	10730(6)	-1359(6)	5289(6)	81(5)
Cl0"	10524(6)	-1973(6)	4824(5)	81(5)
C97	11812(7)	3213(8)	3447(6)	120(8)
Cl13	11542(10)	3428(9)	3489(8)	120(8)
Cl14	11560(10)	2744(8)	3565(9)	120(8)
Cl15	11989(10)	3265(10)	3031(8)	120(8)

C96	10527(6)	-1653(6)	3975(6)	109(6)
Cl16	10953(9)	-1455(9)	3758(8)	109(6)
Cl17	10522(9)	-1921(8)	4322(8)	109(6)
Cl18	10423(9)	-1311(9)	4105(8)	109(6)
C98	10819(8)	-969(7)	4199(6)	126(8)
Cl21	11152(8)	-806(10)	4526(9)	126(8)
Cl22	10749(10)	-1392(10)	4033(9)	126(8)
Cl23	10400(9)	-1008(11)	4338(10)	126(8)
C201	9360(30)	-270(30)	4100(20)	110(20)
C202	9290(20)	-590(20)	4330(20)	110(20)
C203	8914(18)	-679(19)	4476(18)	110(20)
C204	8840(20)	-1010(20)	4690(20)	110(20)
C205	8460(20)	-1100(30)	4840(20)	110(20)
C301	9790(20)	-1730(20)	4860(20)	84(15)
C302	9522(18)	-1602(15)	4750(20)	84(15)
C303	9796(15)	-1183(15)	4735(16)	84(15)
C304	9537(18)	-1057(18)	4600(20)	84(15)
C305	9800(20)	-639(17)	4590(20)	84(15)

Table S25. Bond lenght [Å] for **11**.

Bond	Length	Bond	Length
Pt1A-N1A	2.025(15)	C17A-C18A	1.38(3)
Pt1A-N5A	2.042(14)	P1A-C25C	1.821(15)
Pt1A-P2A	2.190(9)	P1A-C25A	1.821(15)
Pt1A-P1A	2.265(6)	P1A-C23A	1.822(15)
Pt1A-P2A'	2.440(18)	P1A-C21A	1.822(15)
Au1A-C11A	2.055(14)	P1A-C23C	1.822(15)
Au1A-P4A	2.303(5)	P1A-C21C	1.823(15)
Au1A-Au2A	3.1631(11)	C21A-C22A	1.61(2)
Au2A-C1A	2.036(16)	C23A-C24A	1.61(2)
Au2A-P3A	2.283(5)	C25A-C26A	1.61(2)
P3A-C71A	1.78(2)	C21C-C22C	1.61(2)
P3A-C61A	1.829(17)	C23C-C24C	1.61(2)
P3A-C19A	1.890(17)	C25C-C26C	1.61(2)
P4A-C19A	1.804(16)	P2A-C35A	1.815(17)
P4A-C51A	1.83(2)	P2A-C33A	1.815(17)
P4A-C41A	1.858(19)	P2A-C31A	1.816(17)
O1A-N4A	1.211(16)	C31A-C32A	1.46(2)
O2A-N4A	1.212(16)	C33A-C34A	1.46(2)
N4A-C6A	1.494(19)	C35A-C36A	1.46(2)
O1A'-N4A'	1.212(16)	P2A'-C35C	1.815(17)
O2A'-N4A'	1.213(16)	P2A'-C33C	1.815(17)
N4A'-C6A	1.495(19)	P2A'-C31C	1.815(17)
O3A-N8A	1.233(18)	C31C-C32C	1.46(2)
O4A-N8A	1.228(19)	C33C-C34C	1.46(2)
N1A-C1A	1.36(2)	C35C-C36C	1.46(2)
N1A-N2A	1.38(2)	C41A-C42A	1.35(2)
N2A-N3A	1.33(2)	C41A-C46A	1.37(2)
N3A-C2A	1.40(2)	C42A-C43A	1.40(3)
N5A-N6A	1.348(18)	C43A-C44A	1.42(3)
N5A-C11A	1.35(2)	C44A-C45A	1.36(3)
N6A-N7A	1.323(19)	C45A-C46A	1.37(3)
N7A-C12A	1.37(2)	C51A-C52A	1.30(3)
N8A-C16A	1.46(2)	C51A-C56A	1.32(3)
C1A-C2A	1.41(3)	C52A-C53A	1.44(4)
C2A-C3A	1.45(3)	C53A-C54A	1.33(4)
C3A-C4A	1.39(3)	C54A-C55A	1.33(4)
C3A-C8A	1.44(3)	C55A-C56A	1.43(3)
C4A-C5A	1.38(3)	C61A-C62A	1.36(2)
C5A-C6A	1.41(4)	C61A-C66A	1.38(2)
C6A-C7A	1.38(3)	C62A-C63A	1.35(2)
C7A-C8A	1.33(3)	C63A-C64A	1.35(2)
C11A-C12A	1.42(2)	C64A-C65A	1.36(2)
C12A-C13A	1.44(3)	C65A-C66A	1.40(3)
C13A-C14A	1.37(2)	C71A-C72A	1.37(3)
C13A-C18A	1.41(2)	C71A-C76A	1.39(2)
C14A-C15A	1.34(2)	C72A-C73A	1.46(3)
C15A-C16A	1.42(2)	C73A-C74A	1.39(3)
C16A-C17A	1.36(2)	C74A-C75A	1.29(3)

C75A-C76A	1.42(2)	C14B-C15B	1.37(3)
Pt1B-N5B	2.037(13)	C15B-C16B	1.35(3)
Pt1B-N1B	2.073(13)	C16B-C17B	1.36(3)
Pt1B-P2B	2.264(5)	C17B-C18B	1.38(3)
Pt1B-P1B	2.266(5)	C21B-C22B	1.51(3)
Au1B-C1B	2.022(15)	C23B-C24B	1.54(3)
Au1B-P3B	2.291(4)	C25B-C26B	1.58(3)
Au1B-Au2B	3.2124(9)	C31B-C32B	1.51(3)
Au2B-C11B	2.026(16)	C33B-C34B	1.43(3)
Au2B-P4B	2.279(4)	C35B-C36B	1.53(3)
P1B-C25B	1.765(16)	C41B-C42B	1.38(2)
P1B-C21B	1.789(19)	C41B-C46B	1.41(2)
P1B-C23B	1.816(18)	C42B-C43B	1.38(2)
P2B-C31B	1.79(2)	C43B-C44B	1.37(2)
P2B-C35B	1.81(2)	C44B-C45B	1.38(2)
P2B-C33B	1.82(2)	C45B-C46B	1.34(2)
P3B-C41B	1.814(17)	C51B-C52B	1.37(2)
P3B-C51B	1.833(15)	C51B-C56B	1.38(2)
P3B-C19B	1.840(15)	C52B-C53B	1.36(2)
P4B-C61B	1.815(16)	C53B-C54B	1.37(3)
P4B-C71B	1.841(16)	C54B-C55B	1.36(3)
P4B-C19B	1.850(16)	C55B-C56B	1.41(2)
O1B-N4B	1.226(13)	C61B-C62B	1.35(2)
O2B-N4B	1.225(13)	C61B-C66B	1.38(2)
N4B-C6B	1.495(19)	C62B-C63B	1.33(2)
O1B'-N4B'	1.224(13)	C64B-C65B	1.36(2)
O2B'-N4B'	1.224(13)	C65B-C66B	1.38(2)
N4B'-C6B	1.494(19)	C71B-C72B	1.37(2)
O3B-N8B	1.23(2)	C71B-C76B	1.39(3)
O4B-N8B	1.22(2)	C72B-C73B	1.41(2)
N1B-C1B	1.322(18)	C73B-C74B	1.38(2)
N1B-N2B	1.349(18)	C74B-C75B	1.38(3)
N2B-N3B	1.27(2)	C75B-C76B	1.33(2)
N3B-C2B	1.35(2)	C91-Cl1#1	1.66(4)
N5B-C11B	1.33(2)	C91-Cl1	1.66(4)
N5B-N6B	1.382(19)	C91-Cl1#2	1.66(4)
N6B-N7B	1.28(2)	C91-Cl1'#2	1.77(2)
N7B-C12B	1.37(2)	C91-Cl1'	1.77(2)
N8B-C16B	1.43(3)	C91-Cl1'#1	1.77(2)
C1B-C2B	1.39(2)	C92'-Cl2'	1.7468
C2B-C3B	1.48(2)	C92'-Cl4'	1.7727
C3B-C8B	1.37(2)	C93-Cl6	1.7756
C3B-C4B	1.42(2)	C93-Cl7	1.7767
C4B-C5B	1.40(3)	C93-Cl5	1.7768
C5B-C6B	1.38(3)	C93'-Cl5'	1.7758
C6B-C7B	1.35(2)	C93'-Cl7'	1.7761
C7B-C8B	1.44(2)	C93'-Cl6'	1.7767
C11B-C12B	1.45(2)	C94-Cl9	1.7760
C12B-C13B	1.43(2)	C94-Cl10	1.7761
C13B-C18B	1.41(3)	C94-Cl8	1.7765
C13B-C14B	1.42(3)	C94"-Cl9"	1.7110

C94"-Cl0"	1.7643	C95-Cl11#1	1.687(10)
C94"-Cl8"	1.9367	Cl11-Cl11#5	1.802(12)
C95-Cl11#2	1.687(10)	Cl11-Cl11#4	1.802(12)
C95-Cl11#3	1.687(10)	C92-Cl3	1.7757
C95-Cl11#4	1.687(10)	C92-Cl2	1.7757
C95-Cl11	1.687(10)	C92-Cl4	1.7765
C95-Cl11#5	1.687(10)	C92'-Cl3'	1.7084
C94"-Cl0"	1.7643	C98-Cl21	1.7765
C94"-Cl8"	1.9367	C98-Cl23	1.7769
C97-Cl14	1.7759	C201-C202	1.5449
C97-Cl15	1.7761	C202-C203	1.5516
C97-Cl13	1.7762	C204-C205	1.5431
C96-Cl17	1.7756	C301-C302	1.5453
C96-Cl18	1.7759	C302-C303	1.5516
C96-Cl16	1.7771	C303-C304	1.5335
C98-Cl22	1.7761	C304-C305	1.5430

Symmetry transformations used to generate equivalent atoms:
#1 -y+1,x-y,z #2 -x+y+1,-x+1,z #3 -x+4/3,-y+2/3,-z+2/3
#4 x-y+1/3,x-1/3,-z+2/3 #5 y+1/3,-x+y+2/3,-z+2/3

Table S26. Bond angle [°] for **11**.

Bond	Angle	Bond	Angle
N1A-Pt1A-N5A	84.7(6)	N1A-C1A-Au2A	123.5(14)
N1A-Pt1A-P2A	173.1(5)	C2A-C1A-Au2A	131.6(14)
N5A-Pt1A-P2A	92.7(5)	N3A-C2A-C1A	108.2(17)
N1A-Pt1A-P1A	88.5(4)	N3A-C2A-C3A	118.0(17)
N5A-Pt1A-P1A	172.1(4)	C1A-C2A-C3A	133.8(17)
P2A-Pt1A-P1A	94.4(3)	C4A-C3A-C8A	116.9(19)
N1A-Pt1A-P2A'	161.5(6)	C4A-C3A-C2A	121.5(19)
N5A-Pt1A-P2A'	81.4(6)	C8A-C3A-C2A	121.5(17)
P2A-Pt1A-P2A'	12.7(4)	C5A-C4A-C3A	122(2)
P1A-Pt1A-P2A'	106.1(5)	C4A-C5A-C6A	116(2)
C11A-Au1A-P4A	176.8(5)	C7A-C6A-C5A	125(2)
C11A-Au1A-Au2A	90.1(5)	C7A-C6A-N4A	127(2)
P4A-Au1A-Au2A	92.47(13)	C5A-C6A-N4A	108(3)
C1A-Au2A-P3A	172.4(6)	C7A-C6A-N4A'	107(3)
C1A-Au2A-Au1A	107.0(5)	C5A-C6A-N4A'	126(3)
P3A-Au2A-Au1A	80.63(12)	N4A-C6A-N4A'	25(2)
C71A-P3A-C61A	105.1(8)	C8A-C7A-C6A	117(2)
C71A-P3A-C19A	103.7(8)	C7A-C8A-C3A	123(2)
C61A-P3A-C19A	107.5(8)	N5A-C11A-C12A	105.8(13)
C71A-P3A-Au2A	110.8(6)	N5A-C11A-Au1A	120.3(12)
C61A-P3A-Au2A	115.2(5)	C12A-C11A-Au1A	133.8(12)
C19A-P3A-Au2A	113.6(6)	N7A-C12A-C11A	106.9(16)
C19A-P4A-C51A	103.1(8)	N7A-C12A-C13A	118.9(16)
C19A-P4A-C41A	107.7(8)	C11A-C12A-C13A	134.2(16)
C51A-P4A-C41A	103.0(8)	C14A-C13A-C18A	118.4(17)
C19A-P4A-Au1A	113.2(6)	C14A-C13A-C12A	120.5(17)
C51A-P4A-Au1A	117.5(6)	C18A-C13A-C12A	121.0(17)
C41A-P4A-Au1A	111.5(6)	C15A-C14A-C13A	122.5(17)
O1A-N4A-O2A	120(3)	C14A-C15A-C16A	119.0(17)
O1A-N4A-C6A	126(3)	C17A-C16A-C15A	120.7(17)
O2A-N4A-C6A	113(2)	C17A-C16A-N8A	119.4(17)
O1A'-N4A'-O2A'	112(4)	C15A-C16A-N8A	119.9(16)
O1A'-N4A'-C6A	117(3)	C16A-C17A-C18A	119.1(17)
O2A'-N4A'-C6A	131(4)	C17A-C18A-C13A	120.4(17)
C1A-N1A-N2A	110.3(15)	P4A-C19A-P3A	108.8(8)
C1A-N1A-Pt1A	131.5(12)	C25C-P1A-C25A	17(2)
N2A-N1A-Pt1A	118.2(12)	C25C-P1A-C23A	97(3)
N3A-N2A-N1A	108.8(15)	C25A-P1A-C23A	106(3)
N2A-N3A-C2A	107.6(16)	C25C-P1A-C21A	98(3)
N6A-N5A-C11A	108.9(14)	C25A-P1A-C21A	81(3)
N6A-N5A-Pt1A	122.6(11)	C23A-P1A-C21A	115(2)
C11A-N5A-Pt1A	127.7(11)	C25C-P1A-C23C	105(2)
N7A-N6A-N5A	110.1(13)	C25A-P1A-C23C	112(3)
N6A-N7A-C12A	108.3(15)	C23A-P1A-C23C	10.0(19)
O4A-N8A-O3A	122.4(17)	C21A-P1A-C23C	107.9(18)
O4A-N8A-C16A	119.1(16)	C25C-P1A-C21C	116(2)
O3A-N8A-C16A	118.4(17)	C25A-P1A-C21C	99(3)
N1A-C1A-C2A	105.0(15)	C23A-P1A-C21C	109.1(19)

C21A-P1A-C21C	18(2)	C63A-C62A-C61A	122.3(17)
C23C-P1A-C21C	99.9(15)	C62A-C63A-C64A	119.9(18)
C25C-P1A-Pt1A	109.2(10)	C63A-C64A-C65A	120.3(17)
C25A-P1A-Pt1A	116.9(13)	C64A-C65A-C66A	119.7(17)
C23A-P1A-Pt1A	114(3)	C61A-C66A-C65A	119.6(17)
C21A-P1A-Pt1A	118.5(16)	C72A-C71A-C76A	117.7(18)
C23C-P1A-Pt1A	115.8(19)	C72A-C71A-P3A	115.9(15)
C21C-P1A-Pt1A	110.7(14)	C76A-C71A-P3A	126.3(14)
C22A-C21A-P1A	112.9(12)	C71A-C72A-C73A	122.7(18)
C24A-C23A-P1A	112.9(12)	C74A-C73A-C72A	114.3(19)
C26A-C25A-P1A	113.0(12)	C75A-C74A-C73A	124(2)
C22C-C21C-P1A	112.9(12)	C74A-C75A-C76A	120.8(19)
C24C-C23C-P1A	112.9(12)	C71A-C76A-C75A	119.8(17)
C26C-C25C-P1A	113.1(12)	N5B-Pt1B-N1B	85.4(5)
C35A-P2A-C33A	103.6(17)	N5B-Pt1B-P2B	89.6(4)
C35A-P2A-C31A	103.9(16)	N1B-Pt1B-P2B	171.0(4)
C33A-P2A-C31A	105.1(14)	N5B-Pt1B-P1B	168.9(5)
C35A-P2A-Pt1A	112.0(9)	N1B-Pt1B-P1B	89.1(4)
C33A-P2A-Pt1A	108.5(12)	P2B-Pt1B-P1B	97.11(18)
C31A-P2A-Pt1A	122.0(12)	C1B-Au1B-P3B	174.8(4)
C32A-C31A-P2A	117.8(14)	C1B-Au1B-Au2B	82.8(4)
C34A-C33A-P2A	118.0(14)	P3B-Au1B-Au2B	95.14(10)
C36A-C35A-P2A	117.9(14)	C11B-Au2B-P4B	173.9(5)
C35C-P2A'-C33C	106(2)	C11B-Au2B-Au1B	112.2(5)
C35C-P2A'-C31C	109(3)	P4B-Au2B-Au1B	73.69(11)
C33C-P2A'-C31C	97(3)	C25B-P1B-C21B	106.6(9)
C35C-P2A'-Pt1A	113(3)	C25B-P1B-C23B	98.9(8)
C33C-P2A'-Pt1A	113(2)	C21B-P1B-C23B	101.4(9)
C31C-P2A'-Pt1A	118.3(16)	C25B-P1B-Pt1B	117.6(6)
C32C-C31C-P2A'	117.9(14)	C21B-P1B-Pt1B	110.1(7)
C34C-C33C-P2A'	117.9(14)	C23B-P1B-Pt1B	120.2(6)
C36C-C35C-P2A'	117.9(14)	C31B-P2B-C35B	103.4(10)
C42A-C41A-C46A	122.0(18)	C31B-P2B-C33B	105.1(10)
C42A-C41A-P4A	116.3(14)	C35B-P2B-C33B	105.7(10)
C46A-C41A-P4A	121.2(14)	C31B-P2B-Pt1B	112.5(7)
C41A-C42A-C43A	119.0(18)	C35B-P2B-Pt1B	111.9(7)
C42A-C43A-C44A	118.5(18)	C33B-P2B-Pt1B	117.1(6)
C45A-C44A-C43A	120.1(18)	C41B-P3B-C51B	102.1(7)
C44A-C45A-C46A	120.0(19)	C41B-P3B-C19B	106.0(8)
C41A-C46A-C45A	119.7(18)	C51B-P3B-C19B	105.9(7)
C52A-C51A-C56A	122(2)	C41B-P3B-Au1B	113.7(6)
C52A-C51A-P4A	117.2(17)	C51B-P3B-Au1B	118.4(5)
C56A-C51A-P4A	120.5(17)	C19B-P3B-Au1B	109.8(6)
C51A-C52A-C53A	119(2)	C61B-P4B-C71B	102.7(8)
C54A-C53A-C52A	119(3)	C61B-P4B-C19B	105.3(7)
C55A-C54A-C53A	122(3)	C71B-P4B-C19B	105.4(8)
C54A-C55A-C56A	117(2)	C61B-P4B-Au2B	111.0(5)
C51A-C56A-C55A	121(2)	C71B-P4B-Au2B	113.8(7)
C62A-C61A-C66A	118.2(16)	C19B-P4B-Au2B	117.2(6)
C62A-C61A-P3A	122.9(13)	O2B-N4B-O1B	120(2)
C66A-C61A-P3A	119.0(13)	O2B-N4B-C6B	123(2)

O1B-N4B-C6B	117.7(19)	C17B-C18B-C13B	124(2)
O1B'-N4B'-O2B'	131(2)	P3B-C19B-P4B	109.2(8)
O1B'-N4B'-C6B	125(2)	C22B-C21B-P1B	116.3(14)
O2B'-N4B'-C6B	104(2)	C24B-C23B-P1B	113.4(13)
C1B-N1B-N2B	113.1(13)	C26B-C25B-P1B	116.2(14)
C1B-N1B-Pt1B	124.6(10)	C32B-C31B-P2B	112.3(16)
N2B-N1B-Pt1B	122.1(10)	C34B-C33B-P2B	114.7(16)
N3B-N2B-N1B	106.8(14)	C36B-C35B-P2B	114.6(16)
N2B-N3B-C2B	109.2(16)	C42B-C41B-C46B	118.0(16)
C11B-N5B-N6B	110.3(14)	C42B-C41B-P3B	119.8(13)
C11B-N5B-Pt1B	131.8(12)	C46B-C41B-P3B	122.0(13)
N6B-N5B-Pt1B	117.6(11)	C43B-C42B-C41B	119.1(16)
N7B-N6B-N5B	107.6(14)	C44B-C43B-C42B	121.7(17)
N6B-N7B-C12B	111.8(15)	C43B-C44B-C45B	118.9(17)
O4B-N8B-O3B	119.3(19)	C46B-C45B-C44B	120.7(17)
O4B-N8B-C16B	119(2)	C45B-C46B-C41B	121.4(16)
O3B-N8B-C16B	122(2)	C52B-C51B-C56B	120.1(15)
N1B-C1B-C2B	101.8(13)	C52B-C51B-P3B	116.9(13)
N1B-C1B-Au1B	126.4(11)	C56B-C51B-P3B	123.0(13)
C2B-C1B-Au1B	131.1(11)	C53B-C52B-C51B	120.6(17)
N3B-C2B-C1B	109.1(15)	C52B-C53B-C54B	119.7(18)
N3B-C2B-C3B	120.1(16)	C55B-C54B-C53B	121.9(18)
C1B-C2B-C3B	130.7(14)	C54B-C55B-C56B	117.8(19)
C8B-C3B-C4B	118.9(17)	C51B-C56B-C55B	119.8(17)
C8B-C3B-C2B	121.0(16)	C62B-C61B-C66B	116.9(15)
C4B-C3B-C2B	120.1(16)	C62B-C61B-P4B	124.9(12)
C5B-C4B-C3B	120.9(18)	C66B-C61B-P4B	117.5(12)
C6B-C5B-C4B	117.6(17)	C63B-C62B-C61B	122.4(16)
C7B-C6B-C5B	123.4(16)	C62B-C63B-C64B	121.9(17)
C7B-C6B-N4B'	131(2)	C65B-C64B-C63B	117.5(16)
C5B-C6B-N4B'	105.1(19)	C64B-C65B-C66B	120.3(16)
C7B-C6B-N4B	112.0(19)	C61B-C66B-C65B	120.8(16)
C5B-C6B-N4B	124.6(18)	C72B-C71B-C76B	120.4(16)
N4B'-C6B-N4B	20.4(12)	C72B-C71B-P4B	119.3(16)
C6B-C7B-C8B	118.6(17)	C76B-C71B-P4B	120.1(14)
C3B-C8B-C7B	120.4(16)	C71B-C72B-C73B	119.9(18)
N5B-C11B-C12B	105.2(14)	C74B-C73B-C72B	118.2(17)
N5B-C11B-Au2B	123.8(13)	C73B-C74B-C75B	120.1(16)
C12B-C11B-Au2B	131.0(13)	C76B-C75B-C74B	121.5(19)
N7B-C12B-C13B	122.0(16)	C75B-C76B-C71B	119.8(18)
N7B-C12B-C11B	105.1(15)	Cl1#1-C91-Cl1	113.2(19)
C13B-C12B-C11B	132.9(16)	Cl1#1-C91-Cl1#2	113.2(19)
C18B-C13B-C14B	115.3(18)	Cl1-C91-Cl1#2	113.2(19)
C18B-C13B-C12B	123.5(18)	Cl1#1-C91-Cl1'#2	107(2)
C14B-C13B-C12B	121.0(18)	Cl1-C91-Cl1'#2	117(2)
C15B-C14B-C13B	119(2)	Cl1#2-C91-Cl1'#2	5.9(18)
C16B-C15B-C14B	123(2)	Cl1#1-C91-Cl1'	117(2)
C15B-C16B-C17B	120(2)	Cl1-C91-Cl1'	5.9(18)
C15B-C16B-N8B	118(2)	Cl1#2-C91-Cl1'	107(2)
C17B-C16B-N8B	121(2)	Cl1'#2-C91-Cl1'	110.8(14)
C16B-C17B-C18B	118(2)	Cl1#1-C91-Cl1'#1	5.9(18)

Cl1-C91-Cl1'#1	107(2)	Cl11-C95-Cl11#5	64.5(2)
Cl1#2-C91-Cl1'#1	117(2)	Cl11#2-C95-Cl11#1	115.5(2)
Cl1'#2-C91-Cl1'#1	110.7(14)	Cl11#3-C95-Cl11#1	64.5(2)
Cl1'-C91-Cl1'#1	110.7(14)	Cl11#4-C95-Cl11#1	64.5(2)
Cl11#2-C95-Cl11#3	64.5(2)	Cl11-C95-Cl11#1	115.5(2)
Cl11#2-C95-Cl11#4	179.993(4)	Cl11#5-C95-Cl11#1	179.995(2)
Cl11#3-C95-Cl11#4	115.5(2)	C95-Cl11-Cl11#5	57.74(11)
Cl11#2-C95-Cl11	115.5(2)	C95-Cl11-Cl11#4	57.74(11)
Cl11#3-C95-Cl11	179.999(1)	Cl11#5-Cl11-Cl11#4	104.7(7)
Cl11#4-C95-Cl11	64.5(2)	Cl3-C92-Cl2	111.2
Cl11#2-C95-Cl11#5	64.5(2)	Cl3-C92-Cl4	111.2
Cl11#3-C95-Cl11#5	115.5(2)	Cl2-C92-Cl4	111.2
Cl11#4-C95-Cl11#5	115.5(2)	Cl3'-C92'-Cl2'	116.1
Cl3'-C92'-Cl4'	114.7	Cl14-C97-Cl13	111.2
Cl2'-C92'-Cl4'	112.8	Cl15-C97-Cl13	111.2
Cl6-C93-Cl7	111.2	Cl17-C96-Cl18	111.2
Cl6-C93-Cl5	111.2	Cl17-C96-Cl16	111.2
Cl7-C93-Cl5	111.2	Cl18-C96-Cl16	111.2
Cl5'-C93'-Cl7'	111.2	Cl22-C98-Cl21	111.2
Cl5'-C93'-Cl6'	111.2	Cl22-C98-Cl23	111.2
Cl7'-C93'-Cl6'	111.2	Cl21-C98-Cl23	111.2
Cl9-C94-Cl10	111.2	C201-C202-C203	98.4
Cl9-C94-Cl8	111.2	C204-C203-C202	98.8
Cl10-C94-Cl8	111.2	C203-C204-C205	99.4
Cl9"-C94"-Cl0"	115.0	C301-C302-C303	98.4
Cl9"-C94"-Cl8"	106.8	C304-C303-C302	98.8
Cl0"-C94"-Cl8"	104.6	C303-C304-C305	99.4
Cl14-C97-Cl15	111.2		

Symmetry transformations used to generate equivalent atoms:
#1 -y+1,x-y,z #2 -x+y+1,-x+1,z #3 -x+4/3,-y+2/3,-z+2/3
#4 x-y+1/3,x-1/3,-z+2/3 #5 y+1/3,-x+y+2/3,-z+2/3

Table S27. Anisotropic displacement parameters ($Å^2 x\ 10^3$) for **11**.
The anisotropic displacement factor exponent takes the form: $-2\pi^2[\ h^2\ a^{*2}U^{11} + ...\ + 2\ h\ k\ a^*\ b^*\ U^{12}\ ]$

	U^{11}	U^{22}	U^{33}	U^{23}	U^{13}	U^{12}
Pt1A	48(1)	67(1)	60(1)	-1(1)	2(1)	34(1)
Au1A	47(1)	52(1)	51(1)	-6(1)	3(1)	33(1)
Au2A	46(1)	59(1)	53(1)	-3(1)	3(1)	33(1)
P3A	47(3)	50(3)	46(3)	-6(2)	-4(2)	32(2)
P4A	52(3)	52(3)	51(3)	-8(2)	1(2)	33(3)
O3A	97(11)	68(10)	67(9)	-7(8)	-9(8)	57(9)
O4A	88(11)	69(9)	77(9)	-19(7)	-25(8)	63(9)
N1A	34(8)	44(9)	71(10)	-17(8)	9(7)	16(7)
N2A	58(11)	54(11)	89(13)	2(9)	16(9)	30(9)
N3A	56(10)	73(12)	66(11)	-18(9)	6(8)	43(10)
N5A	42(9)	56(10)	49(9)	8(7)	10(7)	30(8)
N6A	48(9)	48(9)	52(9)	1(7)	4(8)	29(8)
N7A	56(10)	53(10)	61(10)	-4(8)	6(8)	36(9)
N8A	74(12)	44(10)	59(11)	-2(8)	1(9)	35(9)
C1A	36(10)	71(13)	58(11)	-9(10)	2(9)	38(10)
C2A	47(12)	54(13)	74(14)	-9(10)	6(10)	26(10)
C3A	64(13)	48(11)	34(9)	-5(8)	6(9)	27(10)
C4A	70(16)	90(18)	77(15)	-15(13)	13(12)	42(14)
C5A	120(20)	66(16)	120(20)	31(15)	61(18)	58(17)
C6A	180(30)	85(19)	58(14)	8(13)	5(16)	100(20)
C7A	91(17)	64(14)	52(12)	3(11)	22(12)	45(14)
C8A	75(15)	57(13)	55(12)	-7(10)	0(10)	34(12)
C11A	29(9)	48(10)	60(11)	0(8)	18(8)	31(8)
C12A	67(13)	46(11)	58(12)	3(9)	14(10)	41(10)
C13A	46(11)	32(10)	66(13)	9(9)	2(9)	19(9)
C14A	47(11)	32(9)	46(10)	8(8)	12(9)	23(8)
C15A	58(12)	45(11)	50(11)	1(9)	8(9)	32(10)
C16A	57(12)	43(11)	54(11)	-3(9)	-3(9)	33(10)
C17A	60(13)	70(14)	65(13)	0(11)	-2(10)	47(12)
C18A	70(13)	65(13)	49(11)	1(9)	17(10)	54(12)
C19A	53(11)	46(11)	38(9)	-7(8)	-12(8)	29(9)
C41A	59(12)	55(12)	43(10)	9(9)	7(9)	38(10)
C42A	70(14)	39(11)	72(13)	-29(10)	-8(11)	34(10)
C43A	49(12)	45(12)	75(14)	1(10)	-8(10)	11(10)
C44A	41(12)	101(18)	62(13)	7(12)	-4(10)	37(12)
C45A	51(13)	66(14)	81(15)	-26(12)	-7(11)	31(11)
C46A	35(11)	57(12)	66(13)	-10(10)	2(9)	14(10)
C51A	50(12)	54(13)	69(14)	-14(10)	-9(10)	27(11)
C52A	170(30)	61(17)	57(14)	10(12)	2(16)	52(18)
C53A	190(40)	61(19)	180(40)	-10(20)	-40(30)	60(20)
C54A	150(30)	150(30)	38(13)	13(16)	-9(15)	100(30)
C55A	74(17)	63(16)	95(19)	4(14)	-3(14)	25(14)
C56A	55(13)	77(16)	77(16)	8(13)	0(12)	30(12)
C61A	47(11)	75(13)	23(8)	9(8)	10(7)	37(10)
C62A	51(12)	81(14)	45(11)	-13(10)	1(9)	45(11)

C63A	49(12)	81(15)	45(11)	0(10)	-8(9)	38(11)
C64A	42(11)	50(11)	42(10)	4(8)	4(8)	20(9)
C65A	77(15)	83(15)	58(13)	-8(11)	2(11)	62(13)
C66A	65(13)	79(14)	49(11)	-8(10)	-3(10)	54(12)
C71A	46(11)	58(12)	61(12)	14(10)	10(9)	34(10)
C72A	73(14)	93(17)	27(10)	-16(10)	-2(9)	40(13)
C73A	93(18)	43(13)	91(18)	-1(11)	8(14)	31(12)
C74A	130(20)	56(14)	49(13)	-7(11)	-16(13)	57(14)
C75A	86(15)	54(13)	55(12)	-7(10)	-20(11)	48(12)
C76A	52(11)	53(12)	43(10)	-7(8)	-10(8)	34(10)
Pt1B	40(1)	37(1)	57(1)	-1(1)	-3(1)	21(1)
Au1B	32(1)	31(1)	43(1)	-2(1)	-2(1)	16(1)
Au2B	34(1)	36(1)	47(1)	-2(1)	-3(1)	18(1)
P1B	41(3)	37(3)	57(3)	6(2)	-5(2)	18(2)
P2B	52(3)	52(3)	65(3)	4(3)	-7(3)	24(3)
P3B	29(2)	32(2)	42(2)	-3(2)	-4(2)	14(2)
P4B	31(2)	35(2)	42(2)	0(2)	-1(2)	16(2)
O3B	44(10)	105(14)	155(17)	12(12)	6(11)	24(10)
O4B	52(10)	82(12)	122(14)	8(11)	-35(9)	7(9)
N1B	32(7)	29(7)	46(8)	-5(6)	2(6)	14(6)
N2B	61(11)	38(9)	73(11)	-2(8)	4(8)	30(8)
N3B	54(10)	49(10)	74(11)	9(9)	20(8)	28(9)
N5B	24(8)	45(9)	79(11)	-3(8)	-13(7)	17(7)
N6B	49(10)	42(9)	78(11)	8(8)	8(8)	23(9)
N7B	54(11)	62(11)	54(9)	-10(8)	-19(8)	33(9)
N8B	26(10)	74(14)	116(17)	3(12)	-23(11)	7(10)
C1B	22(8)	32(9)	43(10)	0(7)	-3(7)	13(7)
C2B	33(9)	29(9)	68(12)	-14(8)	10(8)	16(8)
C3B	33(10)	48(11)	44(10)	-17(8)	-12(8)	10(9)
C4B	42(11)	46(11)	64(13)	-8(10)	14(9)	11(9)
C5B	51(12)	34(10)	50(11)	4(9)	-2(9)	2(9)
C6B	52(12)	41(11)	47(11)	-1(9)	-18(10)	7(10)
C7B	43(10)	37(10)	49(11)	-1(8)	-14(9)	18(9)
C8B	39(10)	39(10)	38(9)	-11(8)	-5(7)	18(8)
C11B	47(11)	38(10)	60(11)	-22(9)	-25(9)	24(9)
C12B	47(11)	30(10)	62(12)	-8(8)	-4(9)	20(9)
C13B	30(10)	62(13)	73(13)	4(10)	-6(9)	22(10)
C14B	43(13)	68(15)	120(20)	-20(13)	8(12)	23(12)
C15B	63(17)	140(30)	100(20)	20(19)	23(14)	59(19)
C16B	65(16)	80(17)	60(14)	1(12)	-5(11)	36(14)
C17B	57(14)	55(14)	99(17)	7(12)	-27(13)	17(12)
C18B	60(13)	60(13)	82(14)	-27(11)	-55(11)	44(11)
C19B	24(8)	32(9)	50(10)	-2(8)	-4(7)	3(7)
C21B	54(12)	48(12)	68(13)	-4(10)	-9(10)	18(10)
C22B	89(17)	40(12)	103(18)	-6(12)	-14(14)	30(12)
C23B	47(11)	66(13)	47(11)	11(9)	-4(9)	27(10)
C24B	57(13)	74(15)	61(13)	1(11)	20(10)	26(12)
C25B	33(9)	24(9)	56(11)	-1(8)	-20(8)	-3(7)
C26B	69(15)	58(14)	87(17)	20(12)	-6(12)	18(12)
C31B	86(16)	55(13)	83(15)	-1(11)	-23(12)	40(13)
C32B	78(16)	58(14)	86(16)	8(12)	3(12)	34(13)

C33B	78(15)	81(15)	42(11)	17(10)	0(10)	49(13)
C34B	120(20)	82(18)	97(19)	4(15)	-24(16)	61(18)
C35B	60(14)	84(16)	62(13)	8(11)	-9(11)	31(12)
C36B	67(18)	180(30)	110(20)	60(20)	-27(16)	15(19)
C41B	45(4)	46(4)	47(4)	-2(3)	-2(3)	24(4)
C42B	45(4)	46(4)	47(4)	-2(3)	-2(3)	24(4)
C43B	45(4)	46(4)	47(4)	-2(3)	-2(3)	24(4)
C44B	45(4)	46(4)	47(4)	-2(3)	-2(3)	24(4)
C45B	45(4)	46(4)	47(4)	-2(3)	-2(3)	24(4)
C46B	45(4)	46(4)	47(4)	-2(3)	-2(3)	24(4)
C51B	45(10)	34(9)	35(9)	5(7)	9(8)	23(8)
C52B	29(10)	35(10)	75(13)	-3(9)	-5(9)	16(8)
C53B	46(12)	46(11)	56(12)	-5(9)	-6(10)	16(9)
C54B	45(12)	49(12)	86(16)	17(11)	16(11)	15(10)
C55B	55(13)	56(13)	56(12)	5(10)	10(10)	21(11)
C56B	35(10)	60(12)	40(10)	2(9)	13(8)	10(9)
C61B	23(8)	37(9)	48(10)	6(8)	2(7)	18(7)
C62B	26(9)	75(13)	27(9)	-6(9)	-11(7)	23(9)
C63B	36(10)	59(12)	47(10)	6(9)	-2(8)	26(10)
C64B	29(9)	58(12)	56(11)	-14(9)	-13(8)	27(9)
C65B	23(9)	45(11)	76(13)	4(10)	7(9)	9(8)
C66B	33(10)	62(12)	35(9)	-13(8)	-5(7)	21(9)
C71B	41(11)	39(10)	82(14)	25(10)	-14(10)	22(9)
C72B	42(10)	29(9)	66(12)	8(8)	-1(9)	20(8)
C73B	36(10)	27(9)	62(12)	11(8)	-13(8)	7(8)
C74B	59(13)	31(10)	62(13)	9(9)	-22(10)	12(9)
C75B	53(12)	49(12)	43(11)	3(9)	-9(9)	1(10)
C76B	42(11)	42(11)	57(12)	-4(9)	-12(9)	15(9)
C91	41(13)	41(13)	160(40)	0	0	20(6)
Cl1	110(20)	260(40)	240(40)	-50(30)	30(20)	70(20)
Cl1'	29(7)	31(5)	84(9)	1(5)	-3(6)	18(5)

References

(1) Ramos-Lima, Francisco J.; Quiroga, Adoración G.; Pérez, José M.; Font-Bardía, M.; Solans, X.; Navarro-Ranninger, C. *European Journal of Inorganic Chemistry* **2003**, *2003*, 1591-1598.
(2) Erbe, J.; Beck, W. *Chemische Berichte* **1983**, *116*, 3867-3876.
(3) Mezailles, N.; Ricard, L.; Gagosz, F. *Organic Letters* **2005**, *7*, 4133-4136.
(4) Whittall, I. R.; Humphrey, M. G.; Houbrechts, S.; Persoons, A.; Hockless, D. C. R. *Organometallics* **1996**, *15*, 5738-5745.
(5) Belluco, U.; Cattalini, L.; Turco, A. *Journal of the American Chemical Society* **1964**, *86*, 3257-3261.
(6) Koster, S. D. Ph.D. Dissertation, Ruhr-University Bochum, 2011.
(7) Schmidbaur, H.; Wohlleben, A.; Schubert, U.; Frank, A.; Huttner, G. *Chemische Berichte* **1977**, *110*, 2751-2757.
(8) SHELXTL6; Bruker-AXS: Madison Wisconsin, 2008.
(9) van der Sluis, P.; Spek, A. L. *Acta Crystallographica Section A* **1990**, *46*, 194-201.
(10) Spek, A. *Acta Crystallographica Section D* **2009**, *65*, 148-155.