

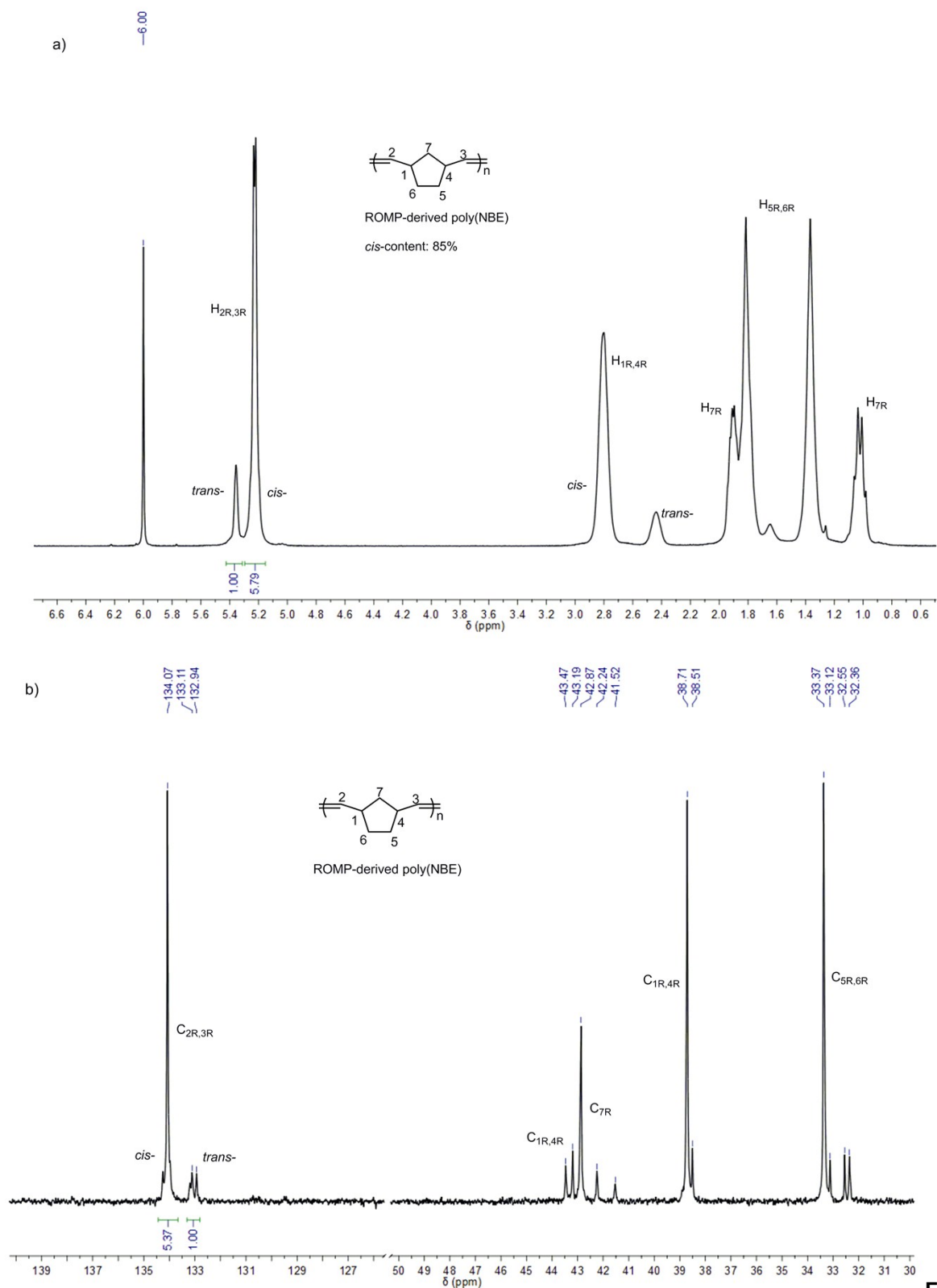
Supporting Information

to

Tandem Vinyl Insertion-/Ring-Opening Metathesis Copolymerization with *ansa*-6-[2-(Dimesitylboryl)-phenyl]pyrid-2-ylamido Zirconium Complexes: Role of Trialkylaluminum and MAO

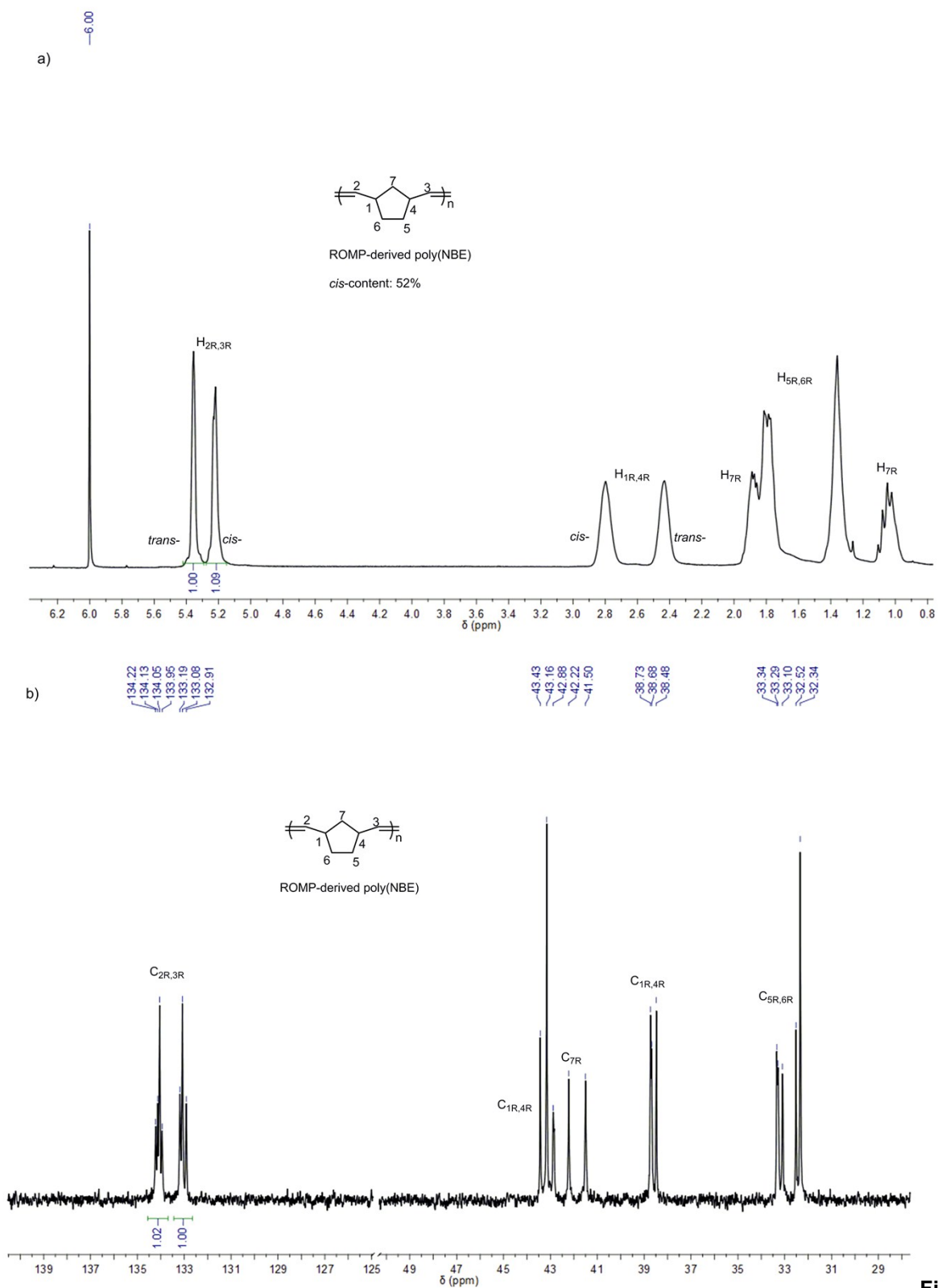
Min Wang,[†] Dongren Wang,[†] Laura Widmann,[†] Wolfgang Frey[‡] and Michael R.
Buchmeiser^{*,†,§}

[†] Lehrstuhl für Makromolekulare Stoffe und Faserchemie, Institut für Polymerchemie,
Universität Stuttgart, Pfaffenwaldring 55, D-70569 Stuttgart, Germany, Fax: +49 (0) -711-
685-64050; e-mail: michael.buchmeiser@ipoc.uni-stuttgart.de; [‡] Institut für Organische
Chemie, Universität Stuttgart, Pfaffenwaldring 55, D-70569 Stuttgart, Germany; [§] Institut für
Textilchemie und Chemiefaser (ITCF) Denkendorf, Körschtalstr. 26, D-73770 Denkendorf,
Germany



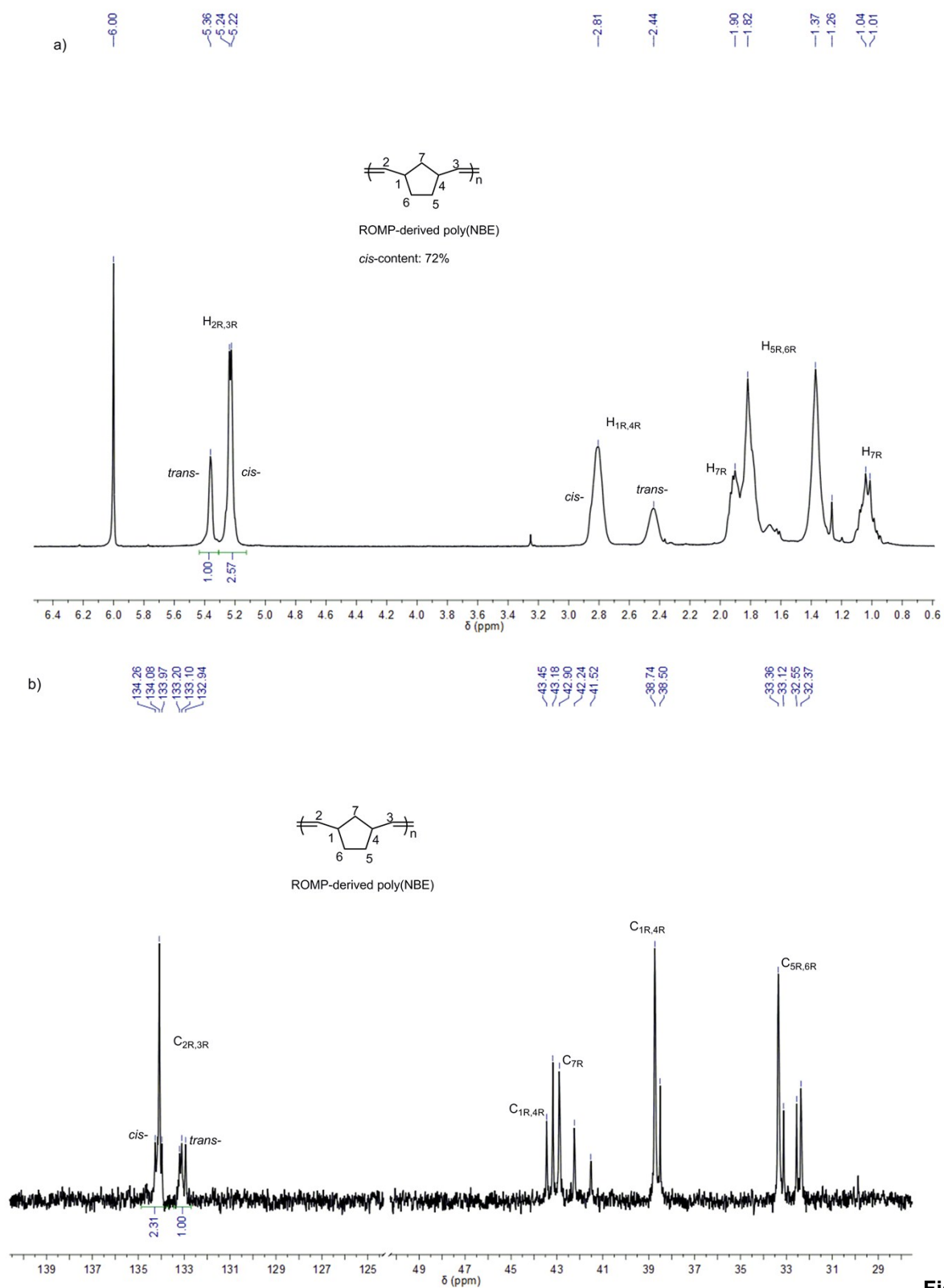
Figu

re S1. a) ^1H NMR and b) ^{13}C NMR spectra of poly(NBE)_{ROMP} produced by $\text{L}'\text{Zr}(\text{CH}_3)_2/[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-$ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 2, entry 1).



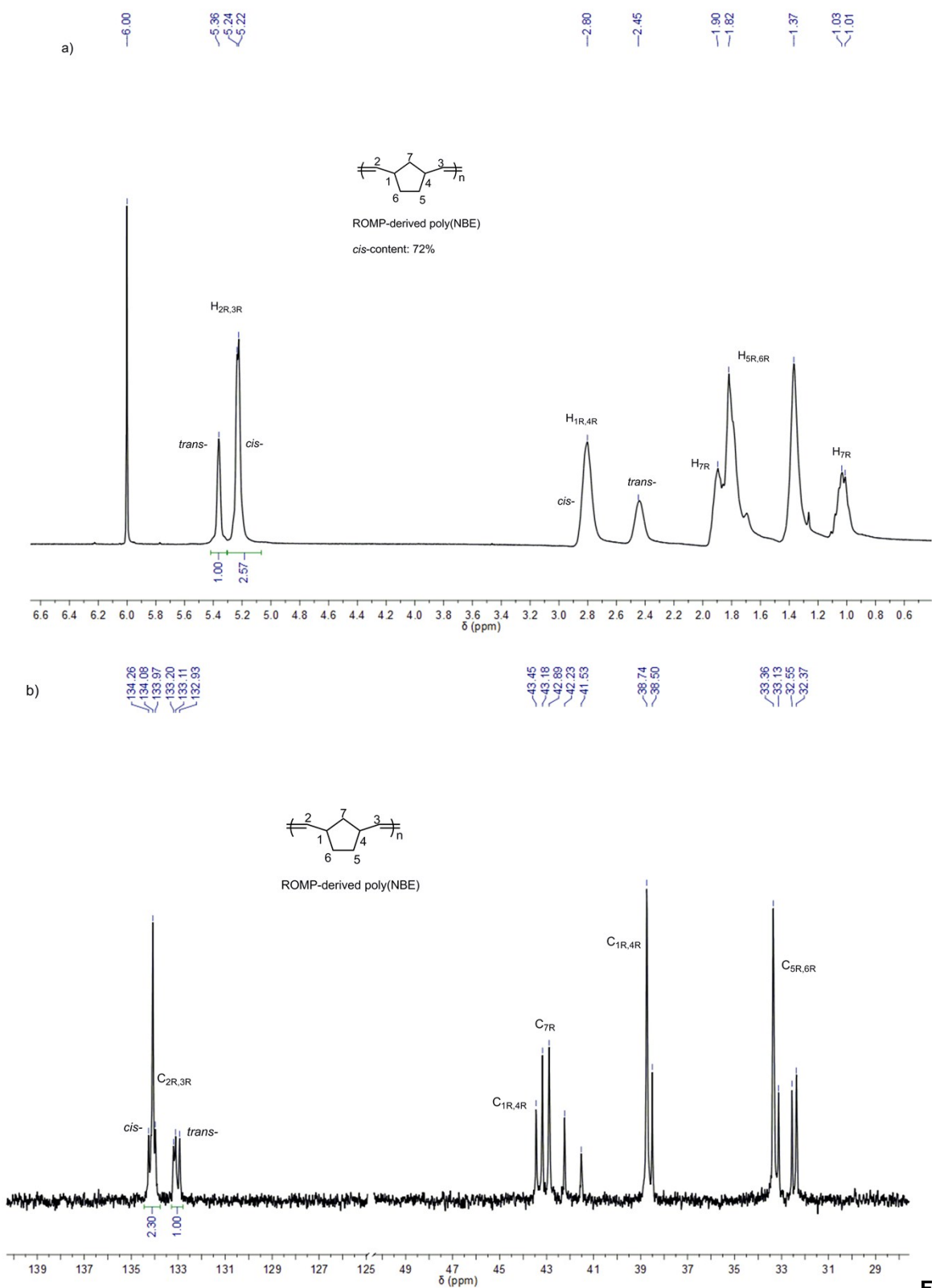
Figu

re S2. a) ^1H NMR and b) ^{13}C NMR spectra of poly(NBE)_{ROMP} produced by $\text{L}'\text{Zr}(\text{CH}_3)_2/[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-$ at 80 °C (1,1,2,2-tetrachloroethane- d_2) (Table 2, entry 3).



Figu

re S3. a) ^1H NMR and b) ^{13}C NMR spectra of poly(NBE)_{ROMP} produced by $\text{L}'\text{Zr}(\text{Bn})_2/[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-$ at 80 °C (1,1,2,2-tetrachloroethane- d_2) (Table 2, entry 6).



Fig

re S4. a) ^1H NMR and b) ^{13}C NMR spectra of poly(NBE)_{ROMP} produced by $\text{L}'\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-$ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 2, entry 7).

$$C_{NBE} (\%) = \frac{1/3(I_{2,3} + I_{1,4} + 2I_7)}{I_{CH_2}} * 100$$

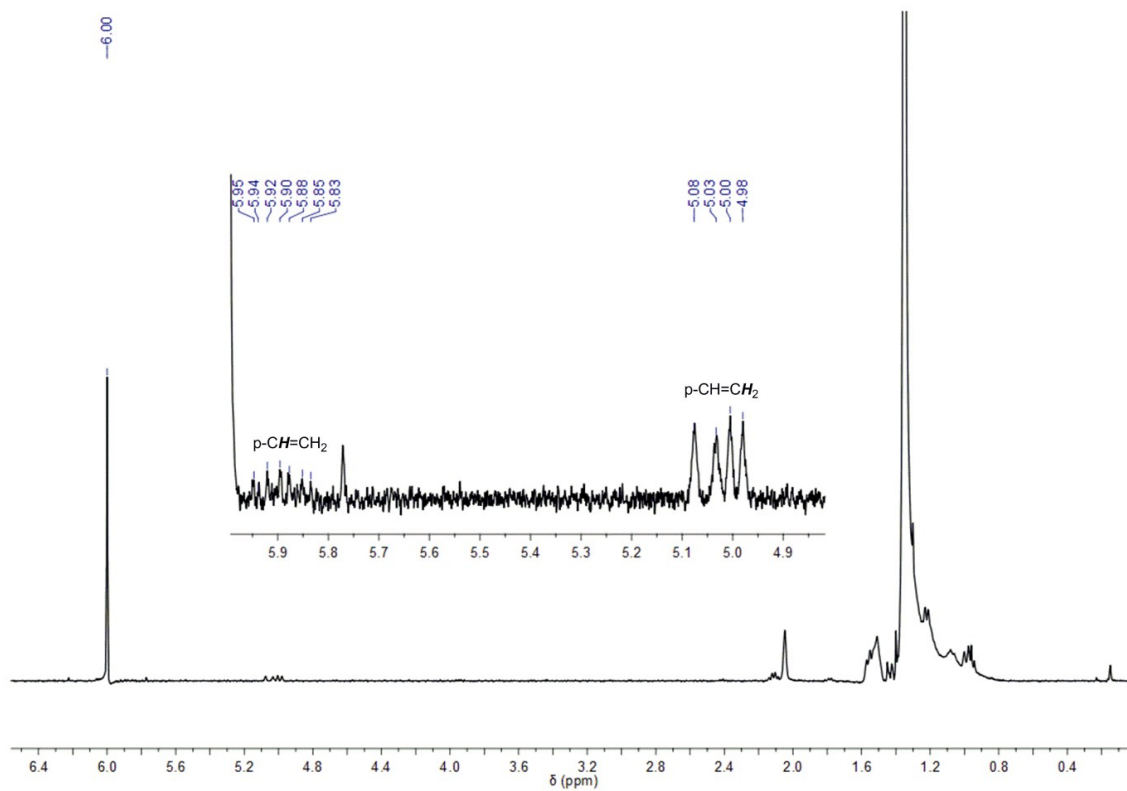


Figure S5. ^1H NMR spectrum of poly(E)-co-poly(NBE)_{VIP} produced by $\text{L}'\text{Zr}(\text{CH}_3)_2/[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-$ / Al^iBu_3 at 80 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 4).

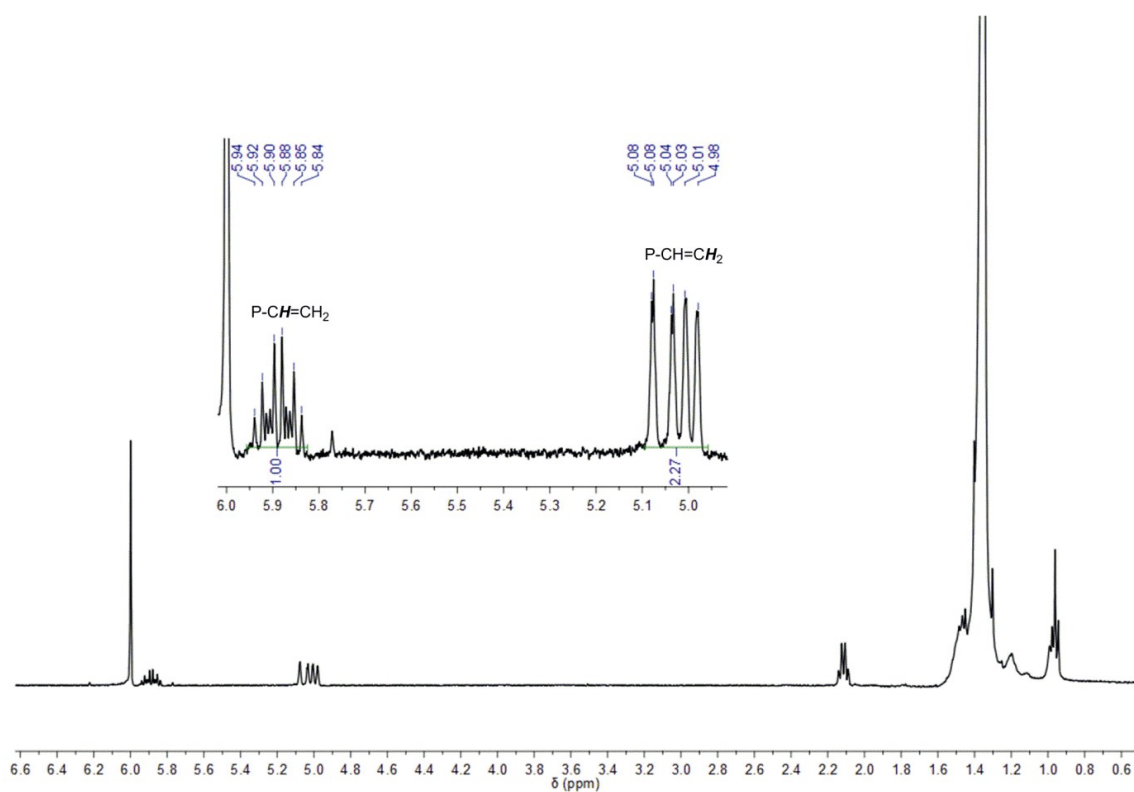


Figure S6. ^1H NMR spectrum of PE produced by $\text{L}'\text{Zr}(\text{CH}_3)_2/[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-/\text{Al}/\text{Bu}_3$ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 1).

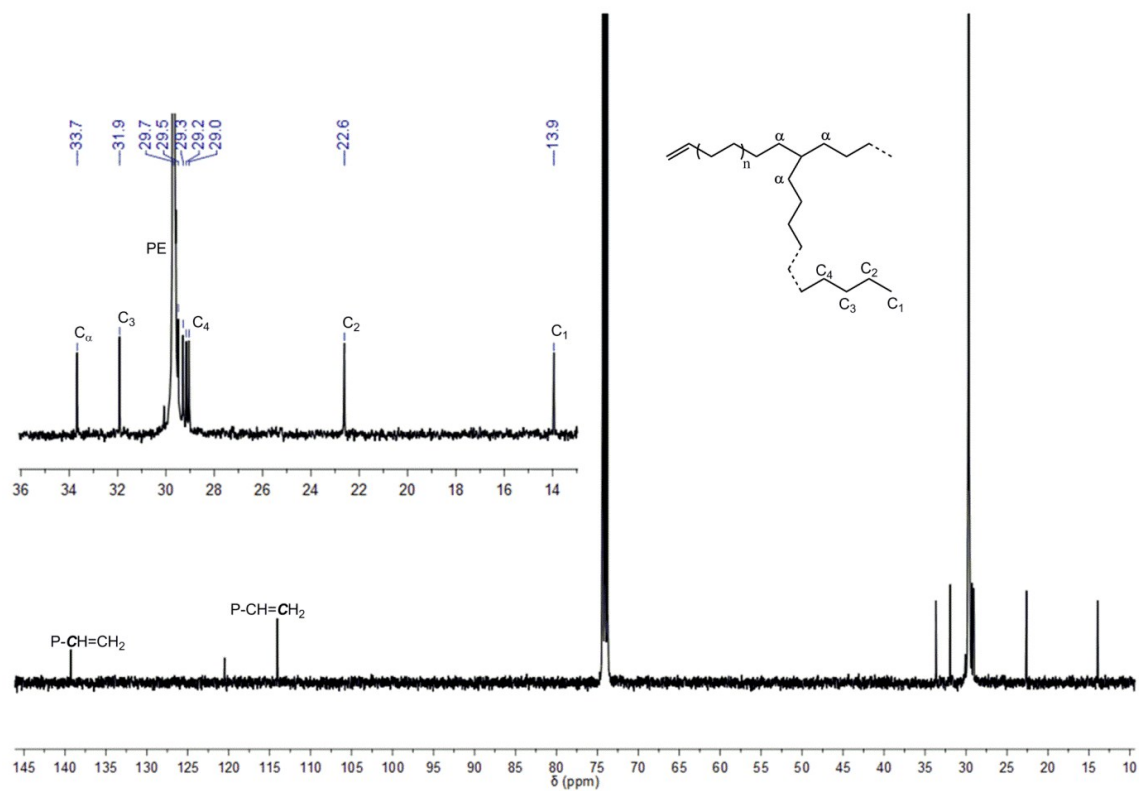


Figure S7. ^{13}C NMR spectrum of PE produced by $\text{L}'\text{Zr}(\text{CH}_3)_2/[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-/\text{Al}/\text{Bu}_3$ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 1).

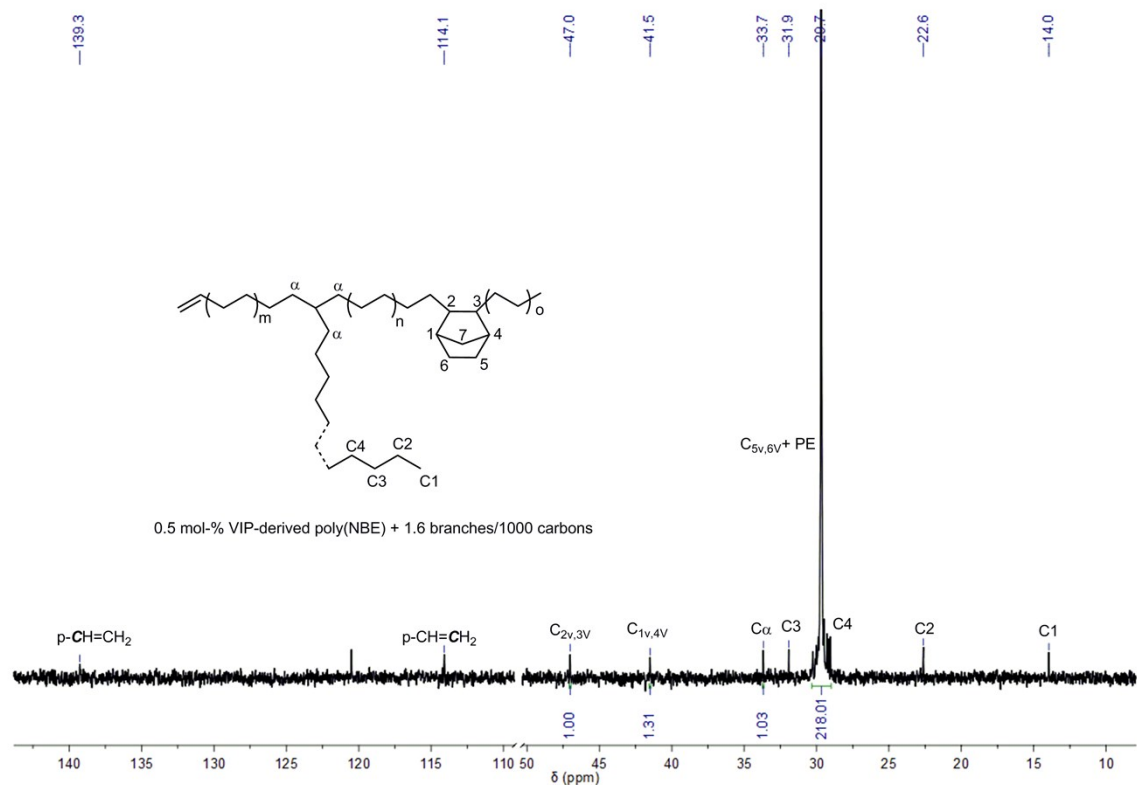


Figure S8. ^{13}C NMR spectrum of poly(E)-co-poly(NBE)_{VIP} produced by $\text{L}^*\text{Zr}(\text{Bn})_2/[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-$ /AlⁱBu₃ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 5).

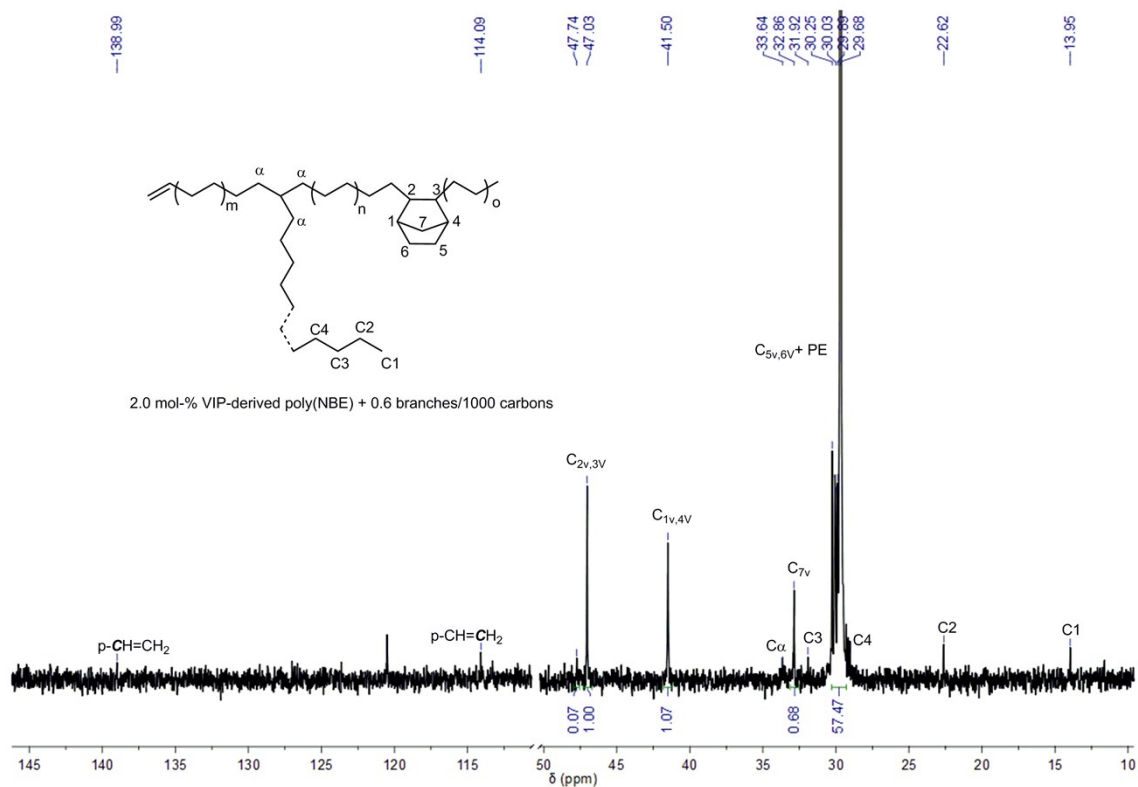


Figure S9. ^{13}C NMR spectrum of poly(E)-co-poly(NBE)_{VIP} produced by $\text{L}^*\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-$ /AlⁱBu₃ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 6).

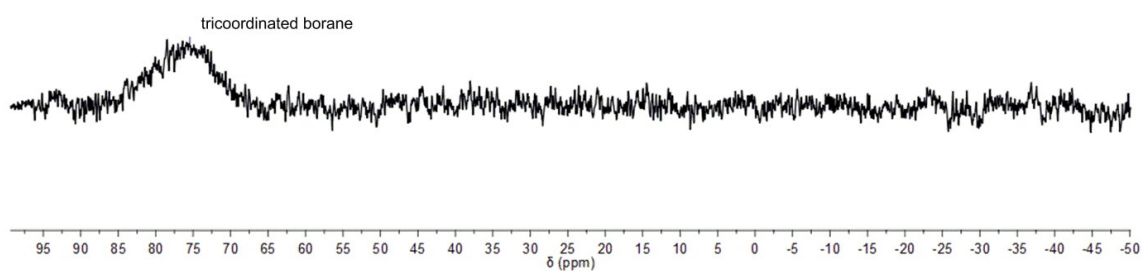
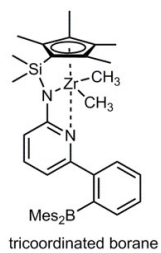


Figure S10. ^{11}B NMR spectrum of $\text{L}'\text{Zr}(\text{CH}_3)_2$ in toluene- d_8 at 298.3 K.

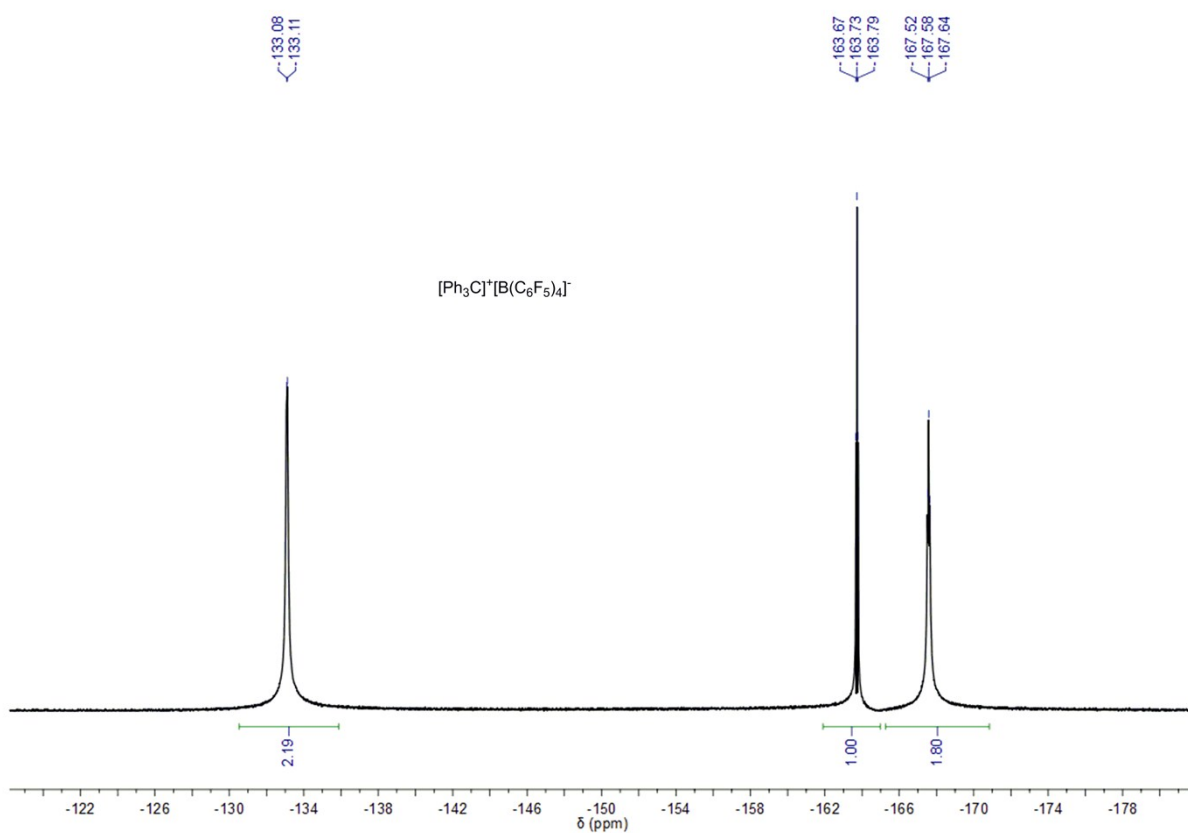


Figure S11. ^{19}F NMR spectrum of $[\text{Ph}_3\text{C}]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-$ in CD_2Cl_2 .

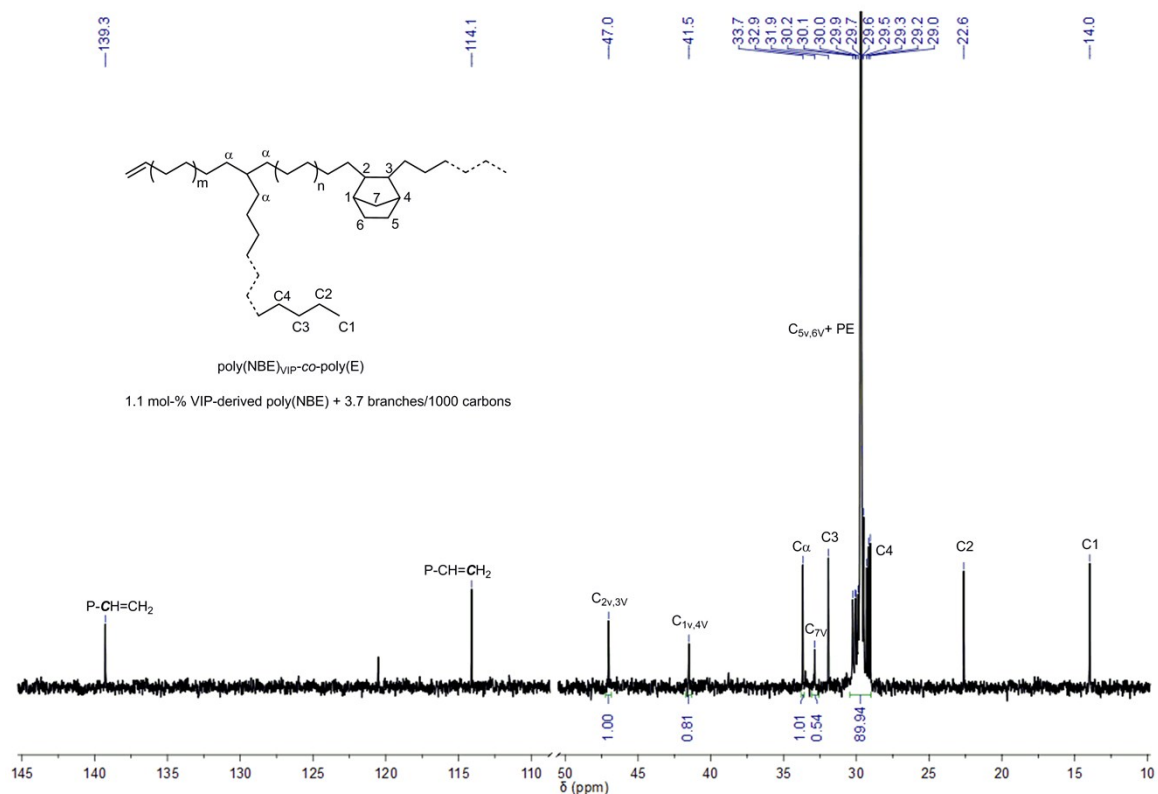


Figure S12. ^{13}C NMR spectrum of poly(E)-co-poly(NBE)_{VIP} produced by $\text{L}'\text{Zr}(\text{CH}_3)_2/\text{MAO}$ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 7).

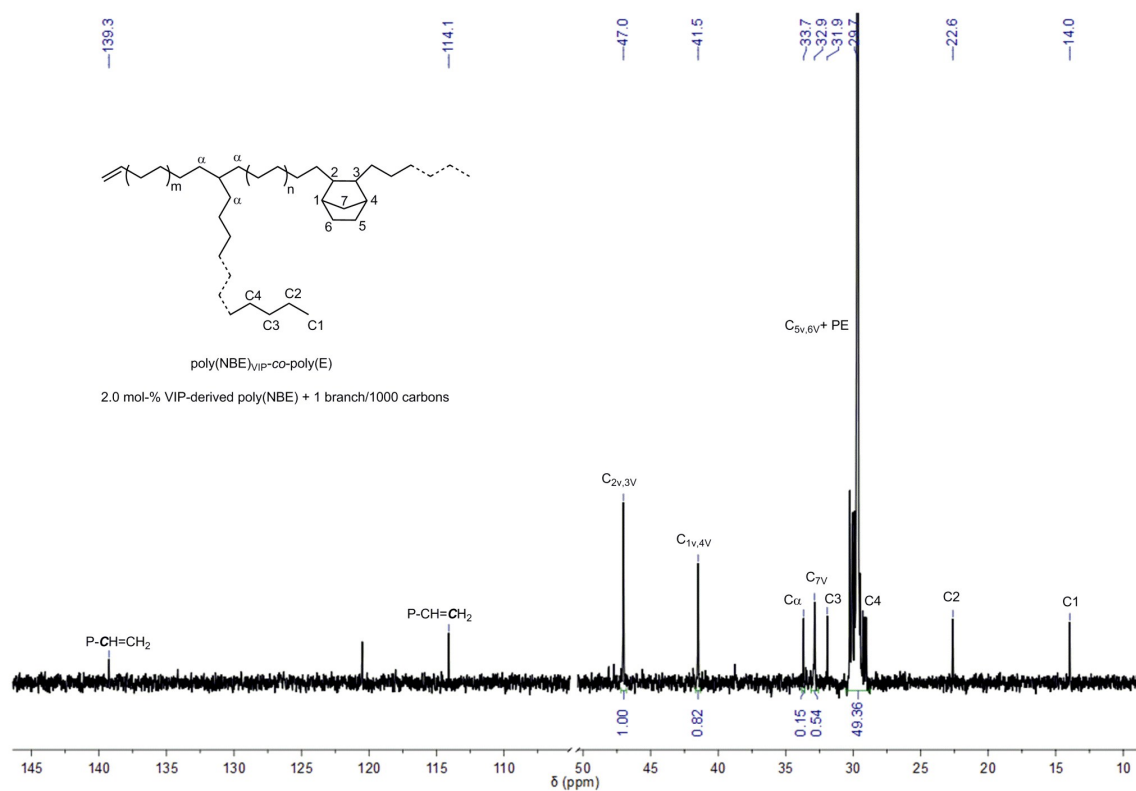


Figure S13. ^{13}C NMR spectrum of poly(E)-co-poly(NBE)_{VIP} produced by $\text{L}'\text{Zr}(\text{Bn})_2/\text{MAO}$ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 8).

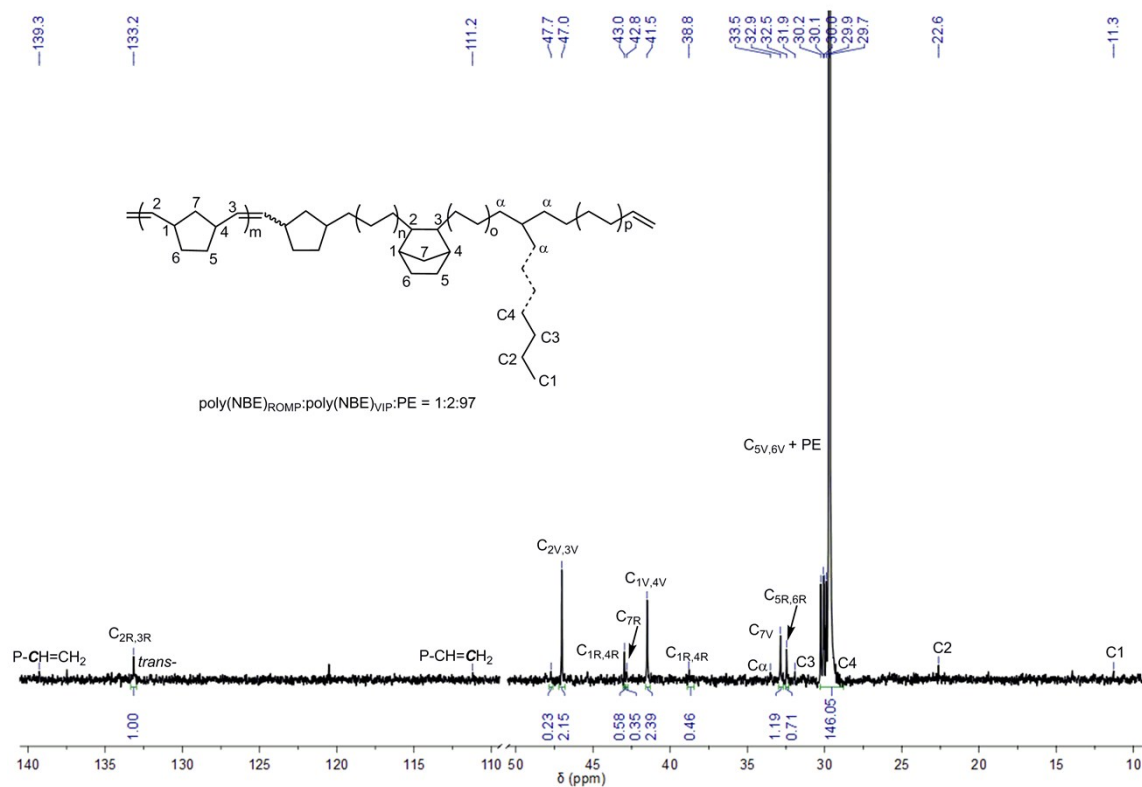


Figure S14. ^{13}C NMR spectrum of poly(NBE)_{ROMP}-co-poly(NBE)_{VIP}-co-PE produced by $\text{L}^*\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/\text{MAO}$ at 30 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 9).

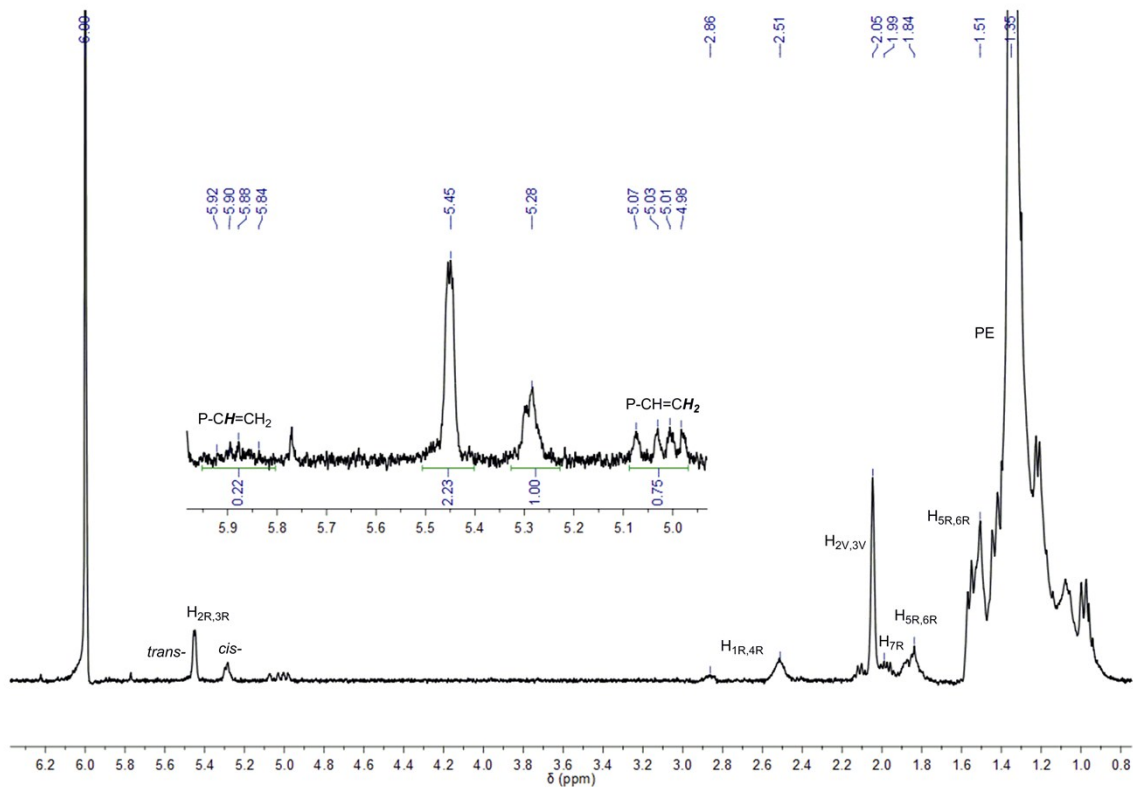


Figure S15. ^1H NMR spectrum of poly(NBE)_{ROMP}-co-poly(NBE)_{VIP}-co-PE produced by $\text{L}^*\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/\text{MAO}$ at 30 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 9).

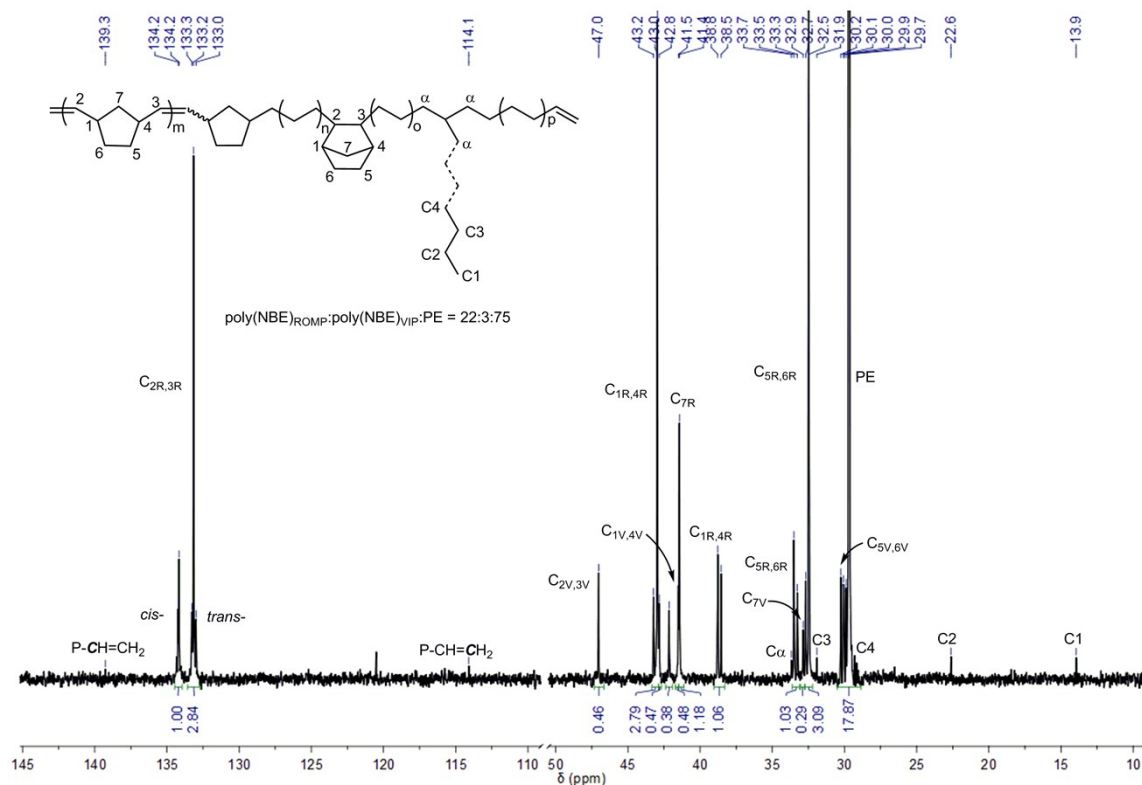


Figure S16. ^{13}C NMR spectrum of poly(NBE)_{ROMP}-co-poly(NBE)_{VIP}-co-PE produced by $\text{L}^*\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/\text{MAO}$ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 10).

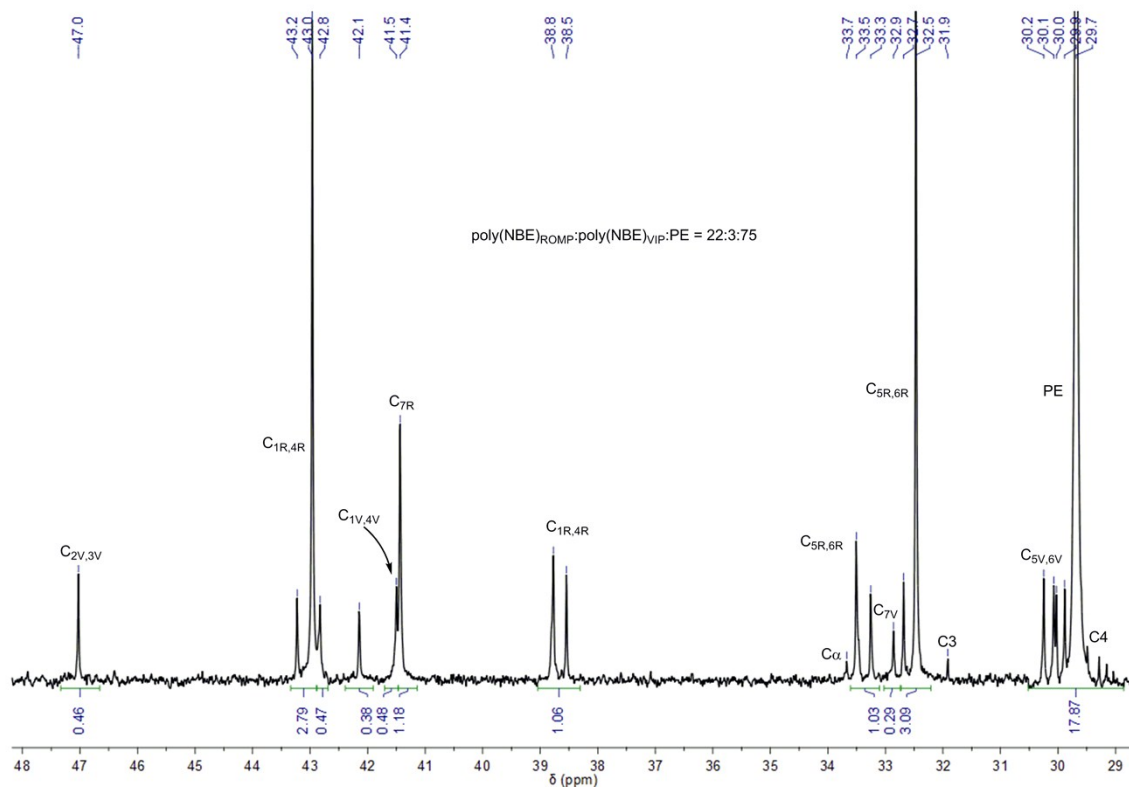


Figure S17. ^{13}C NMR spectrum of poly(NBE)_{ROMP}-co-poly(NBE)_{VIP}-co-PE produced by $\text{L}^*\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/\text{MAO}$ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (29-48 ppm, Table 3, entry 10).

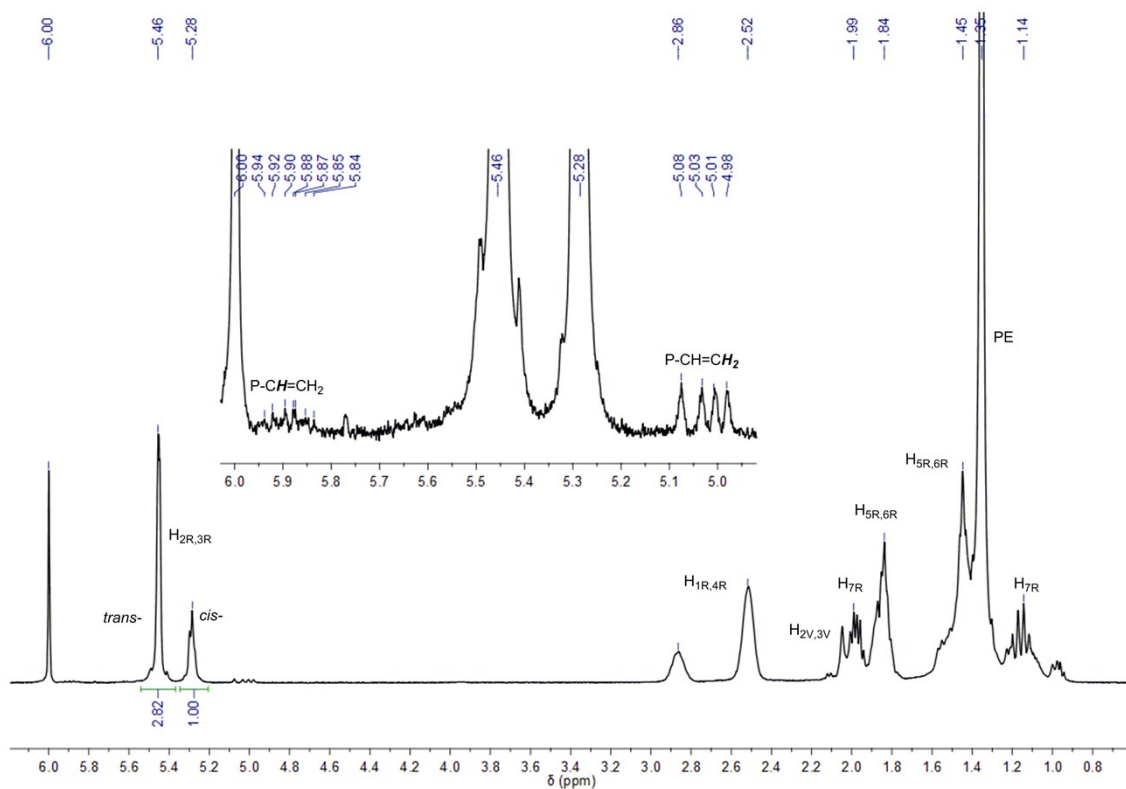
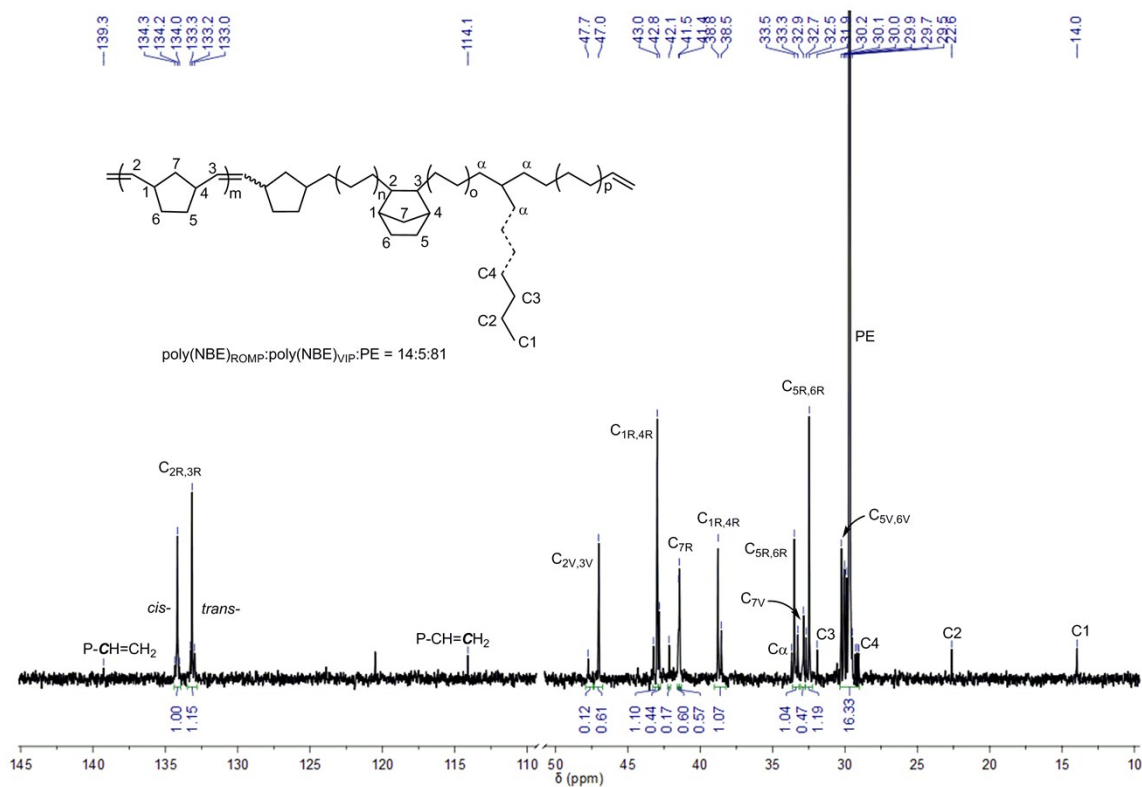


Figure S18. ^1H NMR spectrum of poly(NBE)_{ROMP}-co-poly(NBE)_{VIP}-co-PE produced by produced by $\text{L}^*\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/\text{MAO}$ at 50 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 10).



Figure

re S19. ^{13}C NMR spectrum of poly(NBE)_{ROMP}-co-poly(NBE)_{VIP}-co-PE produced by $\text{L}^*\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/\text{MAO}$ at 80 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 11).

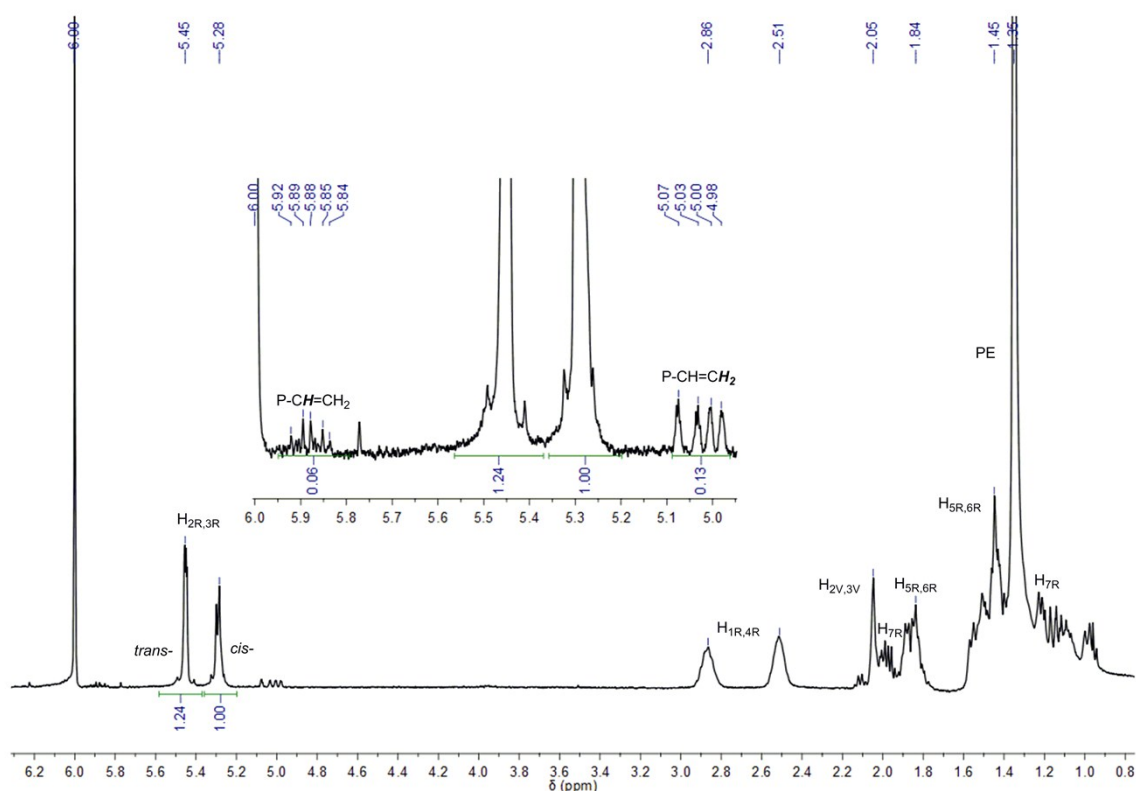


Figure S20.

re S20. ^1H NMR spectrum of poly(NBE)_{ROMP}-co-poly(NBE)_{VIP}-co-PE produced by produced by $\text{L}^*\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/\text{MAO}$ at 80 °C (1,1,2,2-tetrachloroethane- d_2) (Table 3, entry 11).

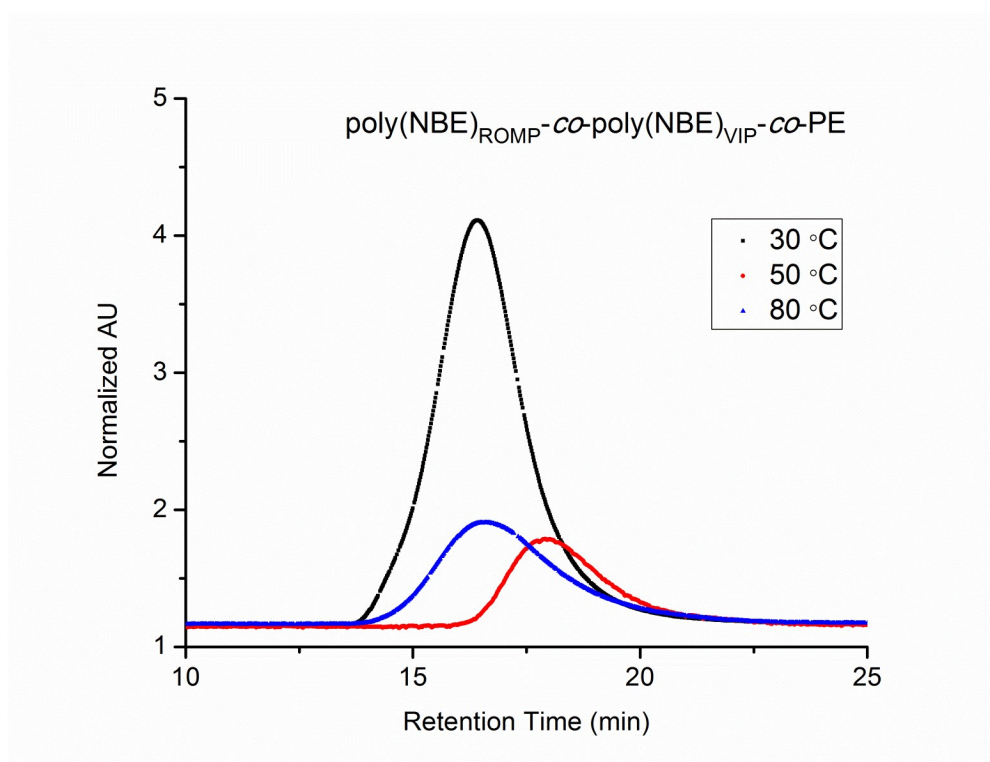
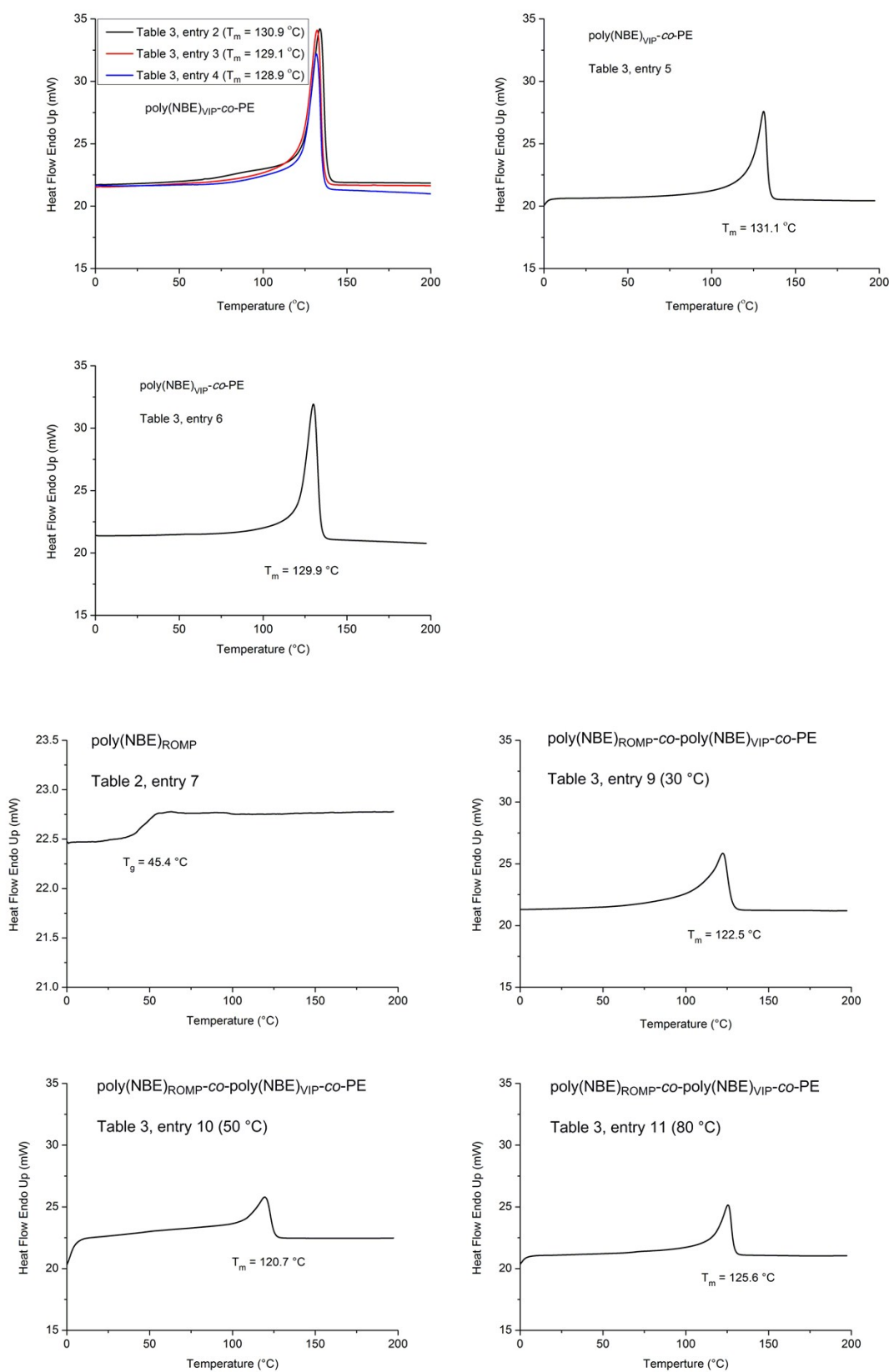


Figure S21. HT-GPC traces of poly(NBE)_{ROMP}-co-poly(NBE)_{VIP}-co-PE produced by $\text{L}^*\text{Zr}(\text{CH}_2\text{SiMe}_3)_2/\text{MAO}$ at 30, 50 and 80 °C (Table 3, entries 9-11).



Figur

e S22. DSC curves for poly(NBE)_{ROMP}, poly(NBE)_{VIP}-co-PE and poly(NBE)_{ROMP}-co-poly(NBE)_{VIP}-co-PE.

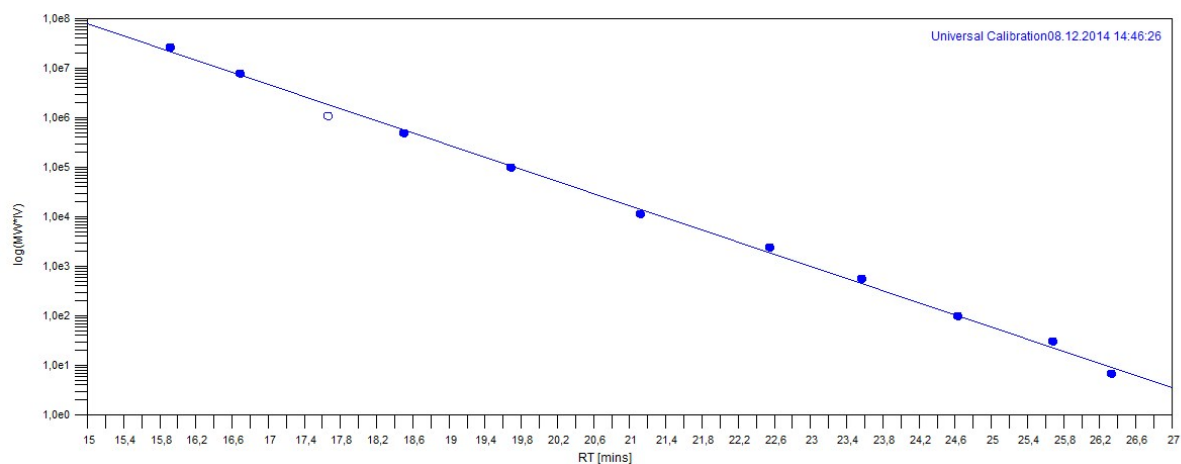


Figure S23. HT-GPC calibration curve with poly(styrene) standards ($162\text{--}6,035,000\text{ g mol}^{-1}$).

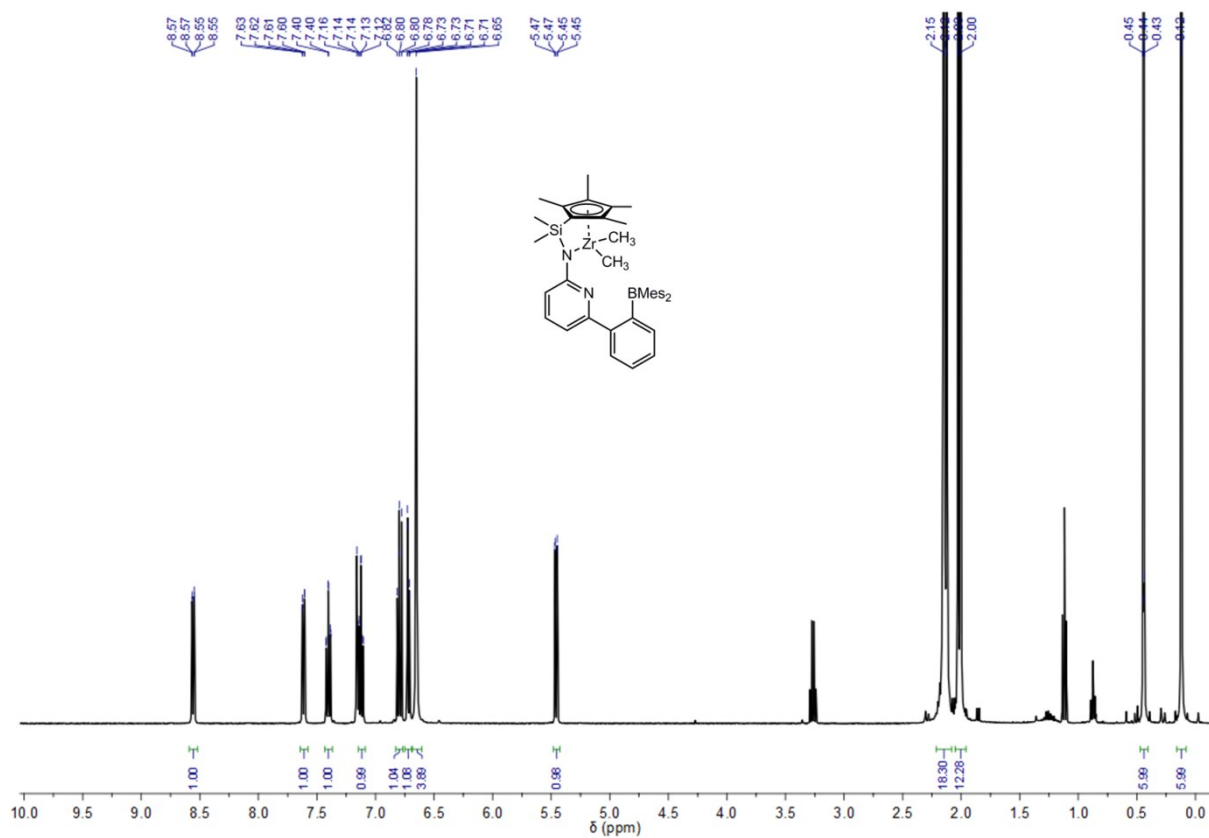


Figure S24. ^1H NMR spectrum of $\text{L}'\text{Zr}(\text{CH}_3)_2$ in C_6D_6 .

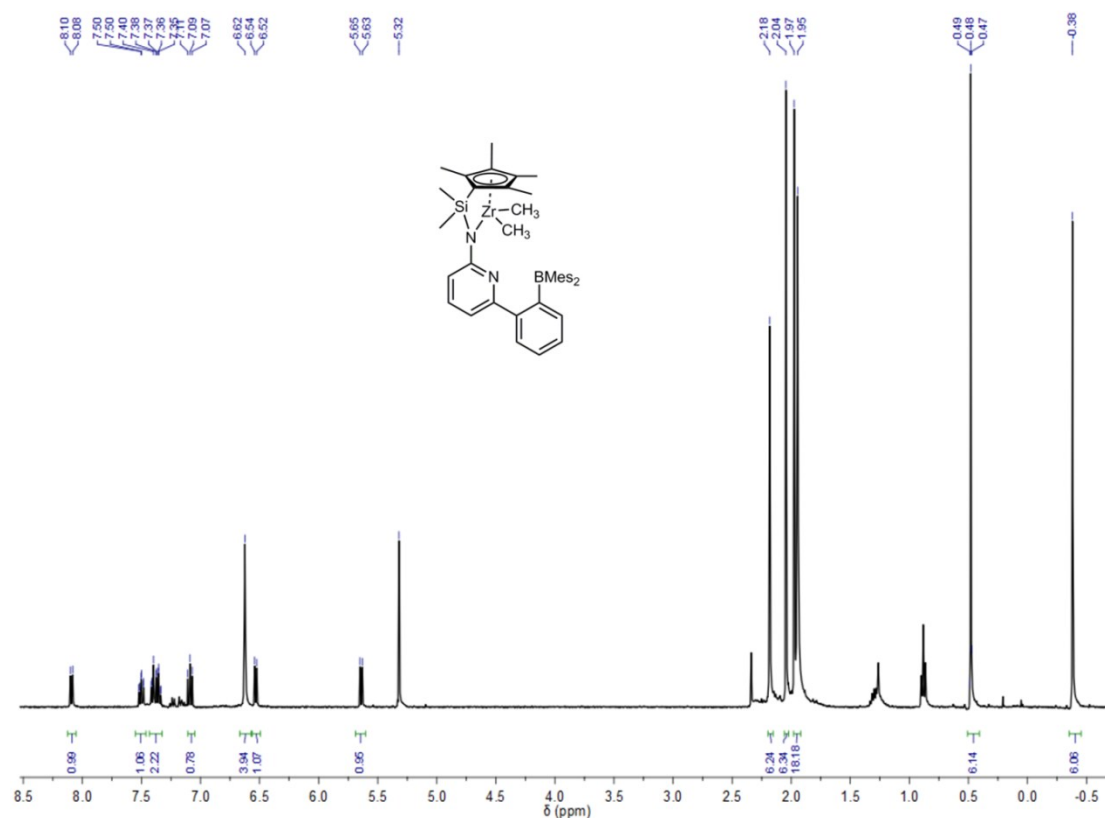


Figure S25. 1H NMR spectrum of $L'Zr(CH_3)_2$ in CD_2Cl_2 .

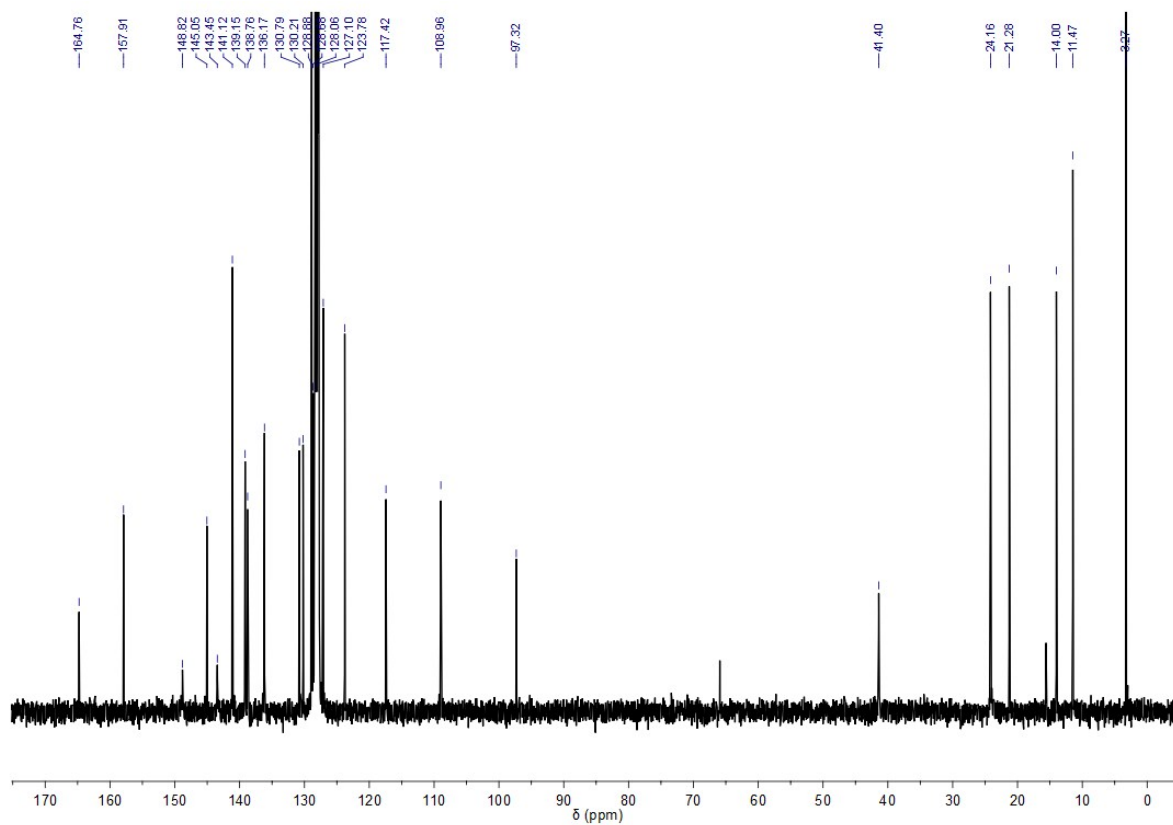


Figure S26. ^{13}C NMR spectrum of $L'Zr(CH_3)_2$ in C_6D_6 .

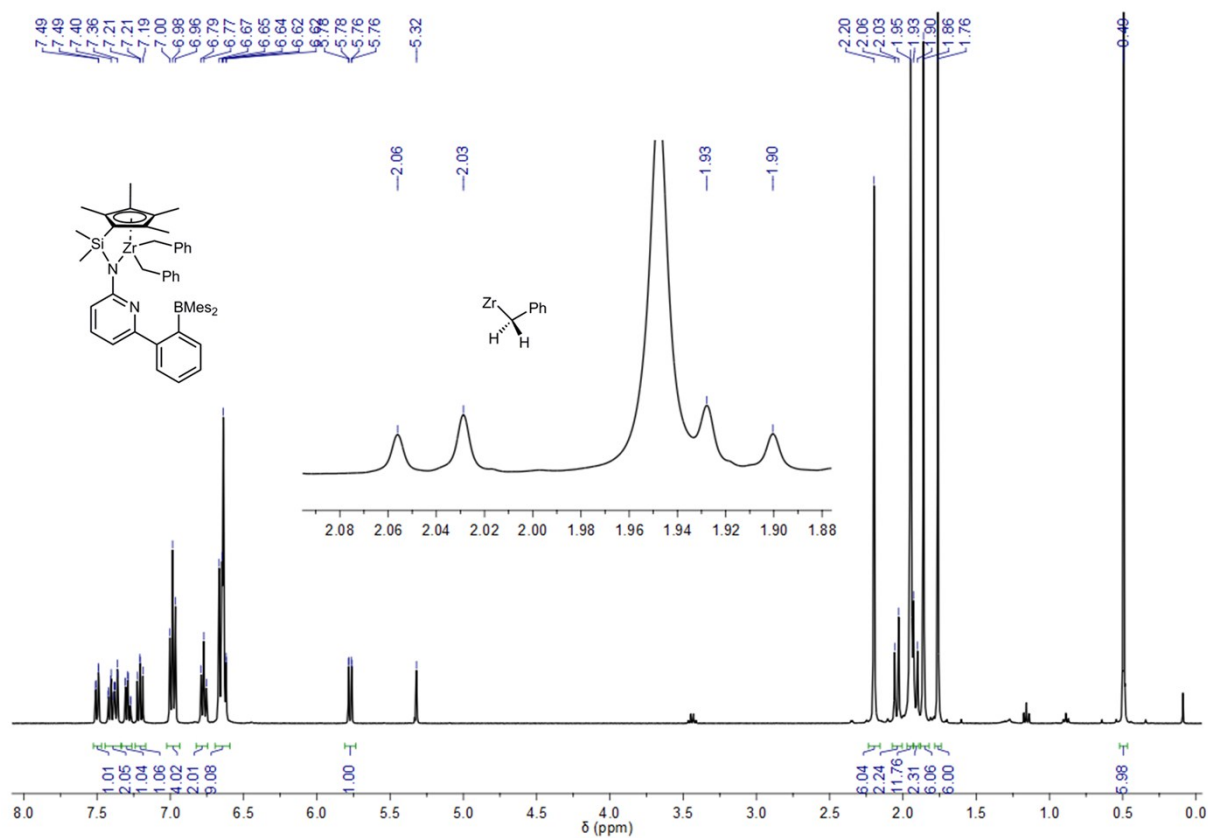


Figure S27. ^1H NMR spectrum of $\text{L}'\text{Zr}(\text{Bn})_2$ in CD_2Cl_2 .

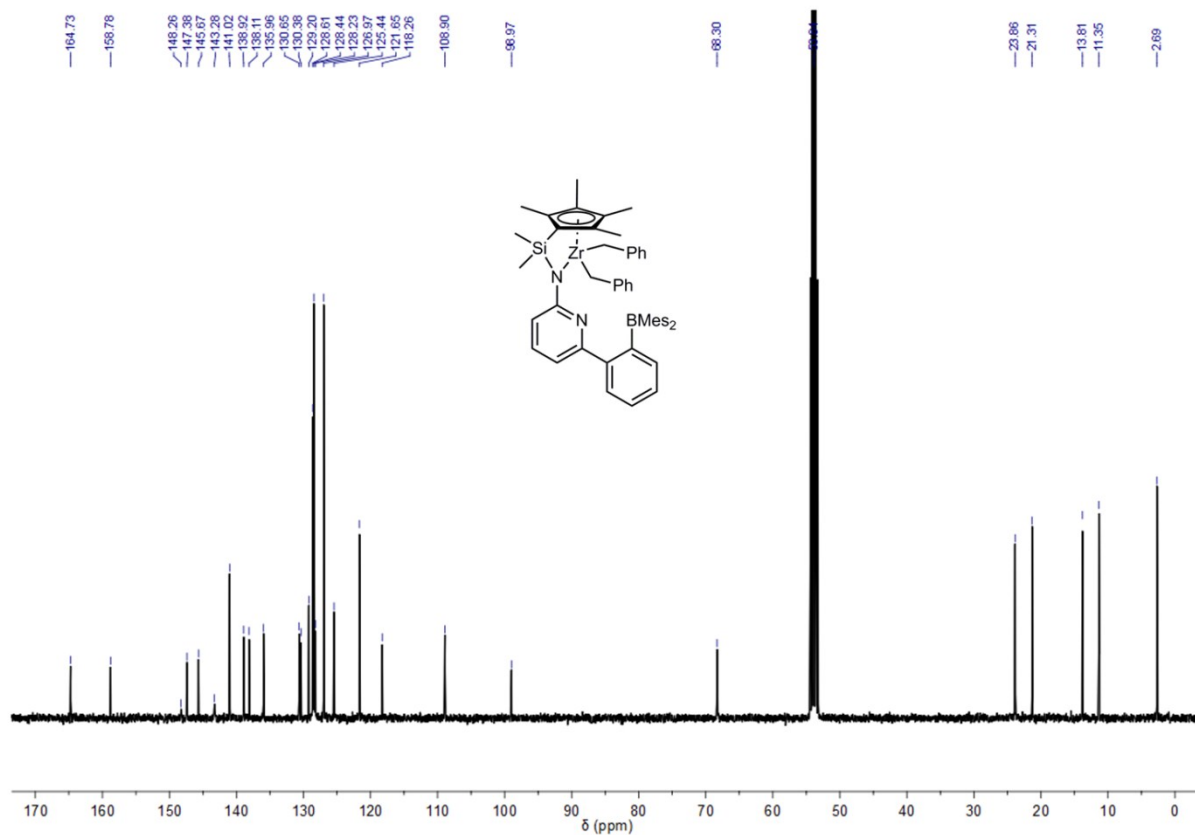
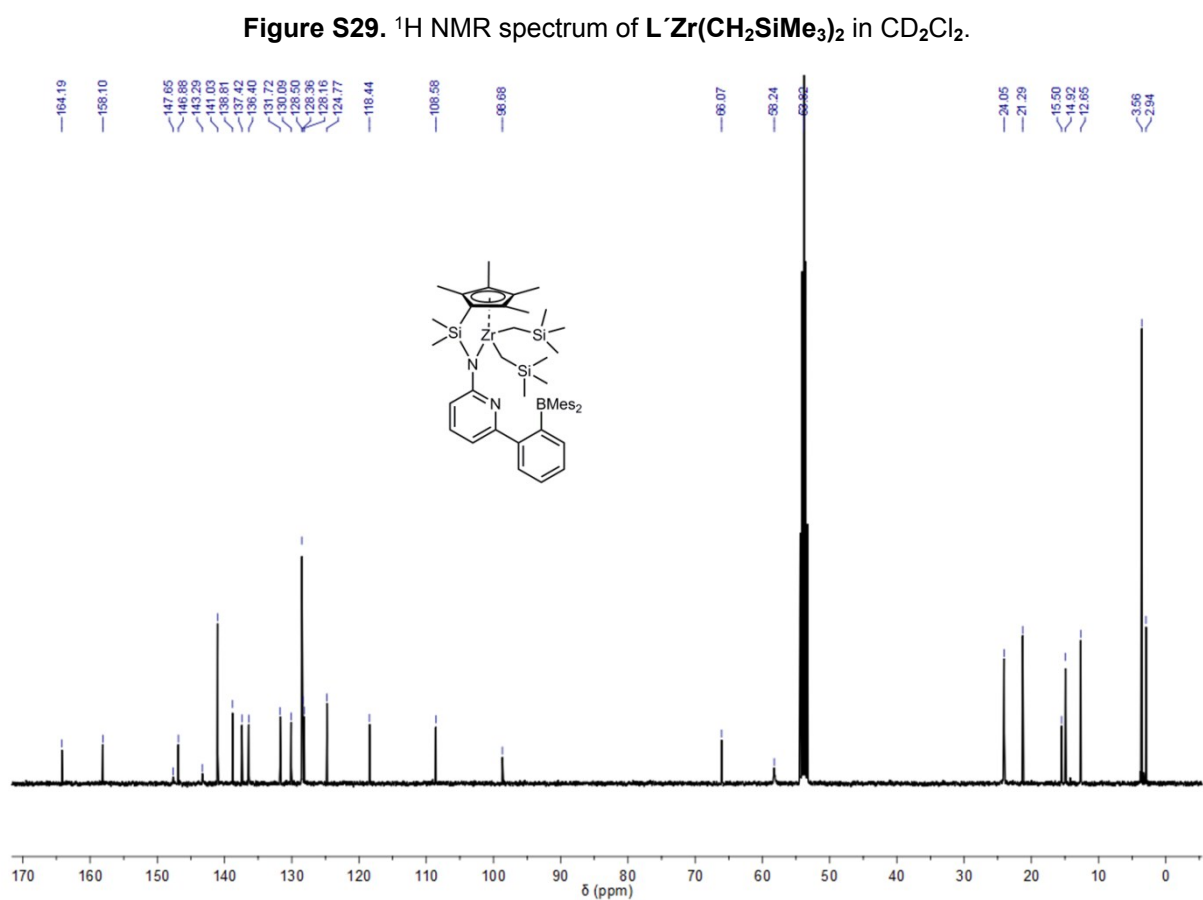
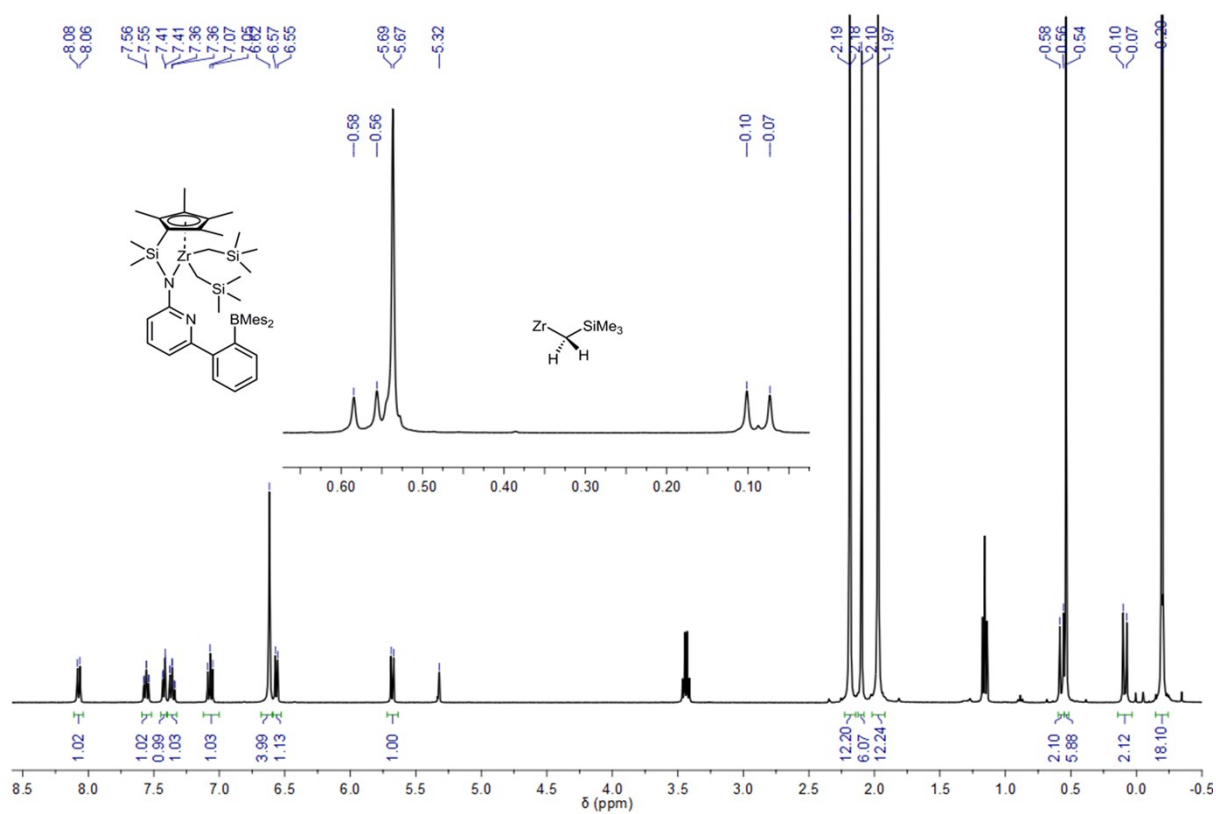


Figure S28. ^{13}C NMR spectrum of $\text{L}'\text{Zr}(\text{Bn})_2$ in CD_2Cl_2 .



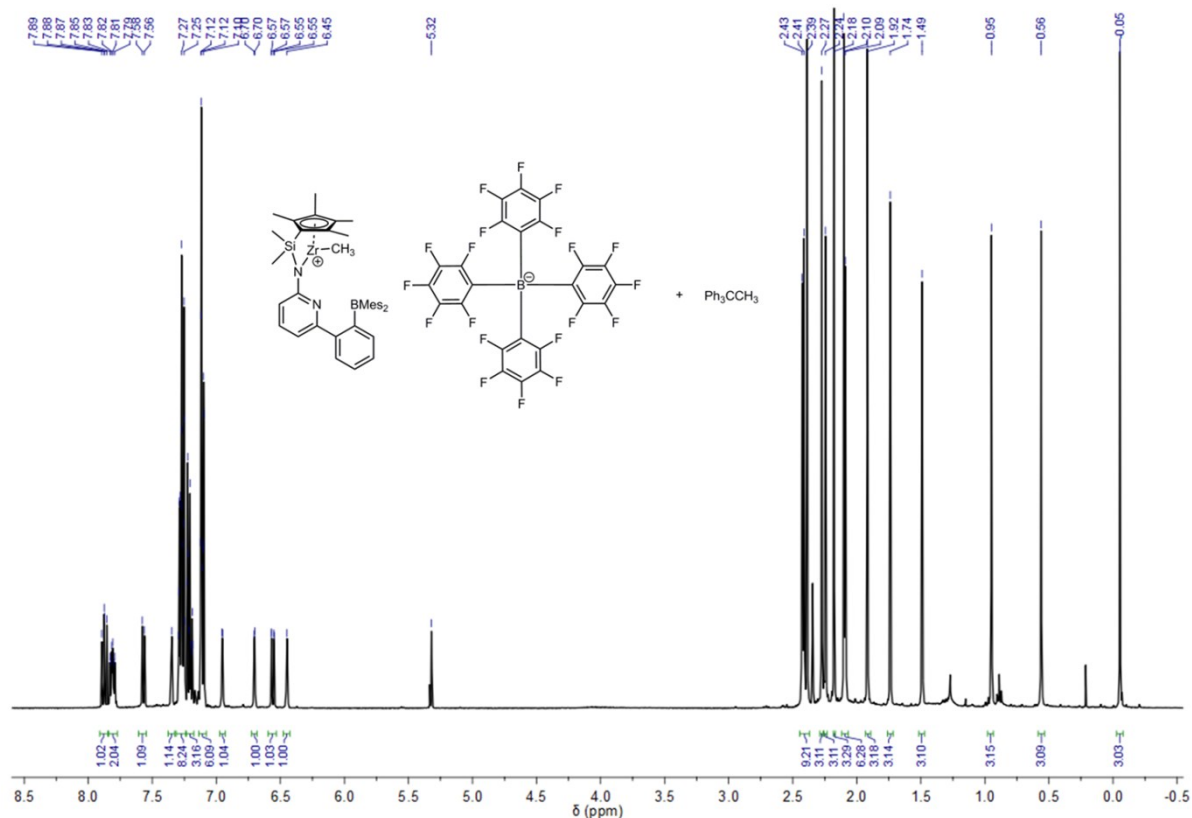


Figure S31. ¹H NMR spectrum of the formation of $[L'Zr(CH_3)]^+[B(C_6F_5)_4]^-$ *in situ* in CD_2Cl_2 .

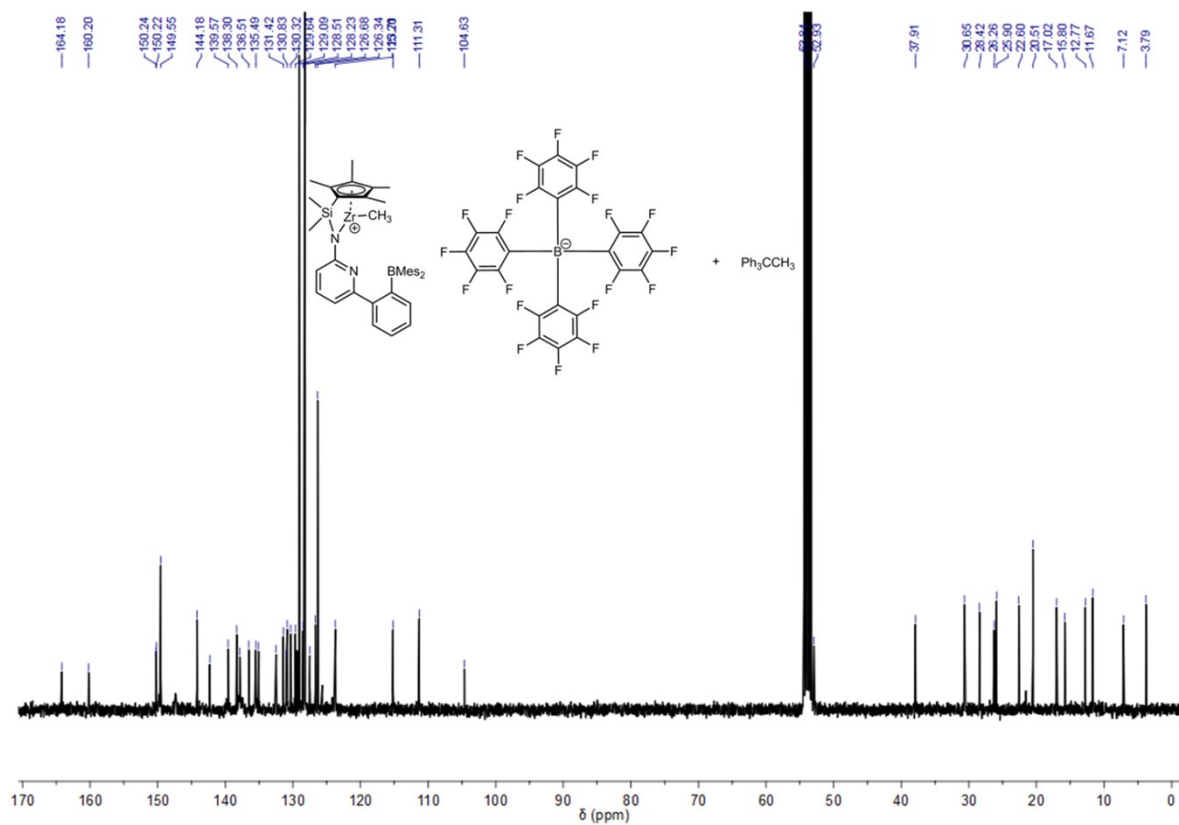


Figure S32. ¹³C NMR spectrum of the formation of $[L'Zr(CH_3)]^+[B(C_6F_5)_4]^-$ *in situ* in CD_2Cl_2 .

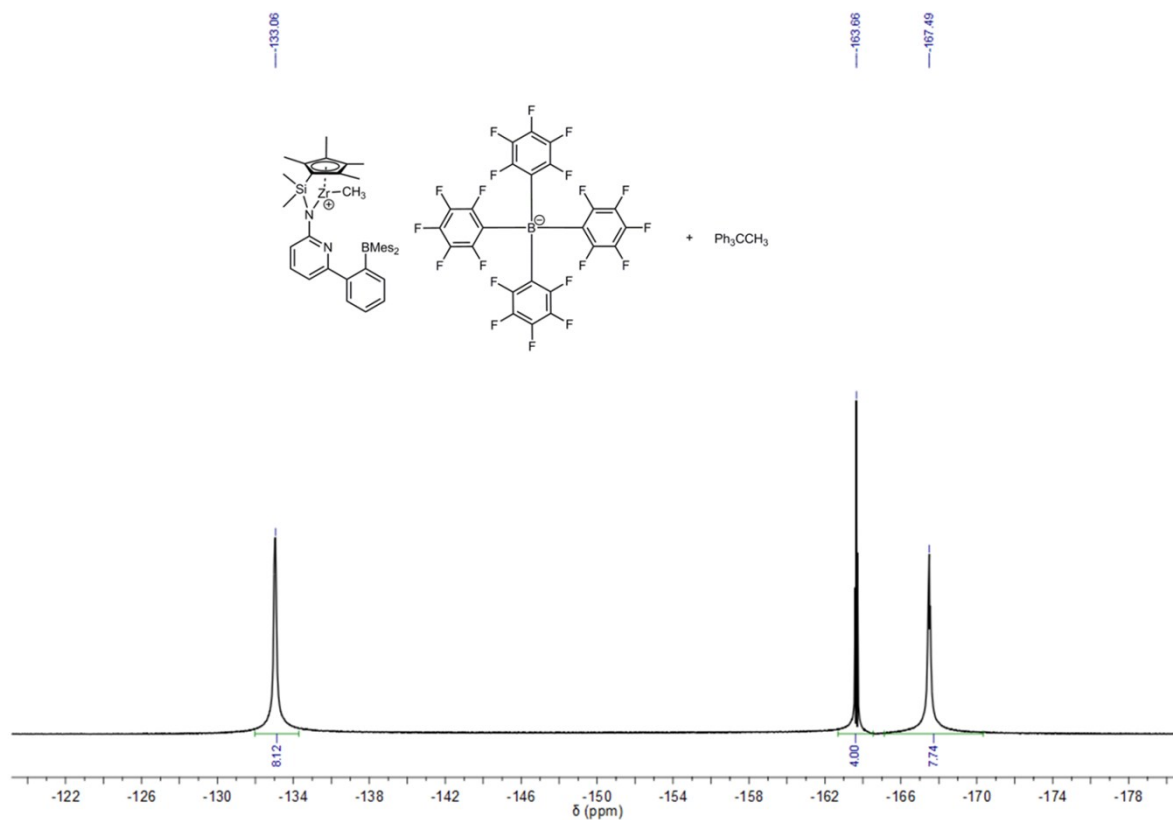


Figure S33. ^{19}F NMR spectrum of the formation of $[L'Zr(CH_3)]^+[B(C_6F_5)_4]^-$ *in situ* in CD_2Cl_2 .

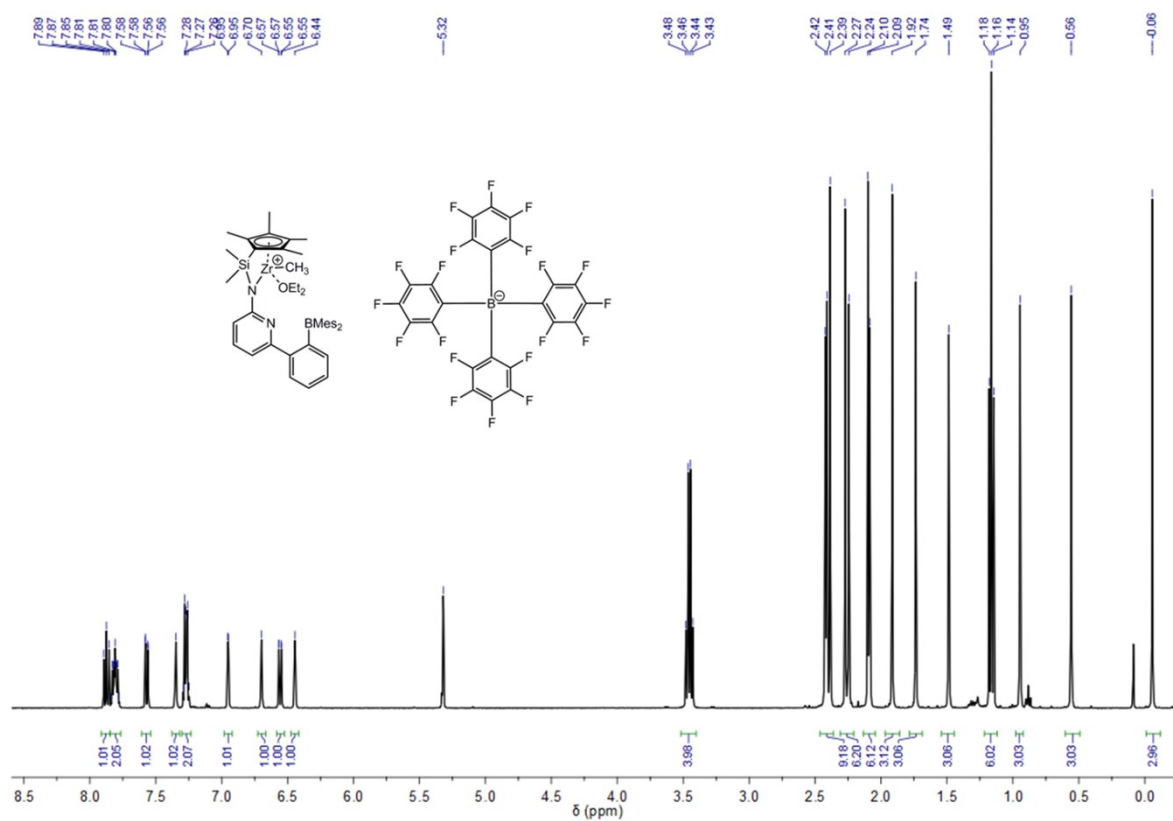


Figure S34. 1H NMR spectrum of $[L'Zr(CH_3)Et_2O]^+[B(C_6F_5)_4]^-$ in CD_2Cl_2 .

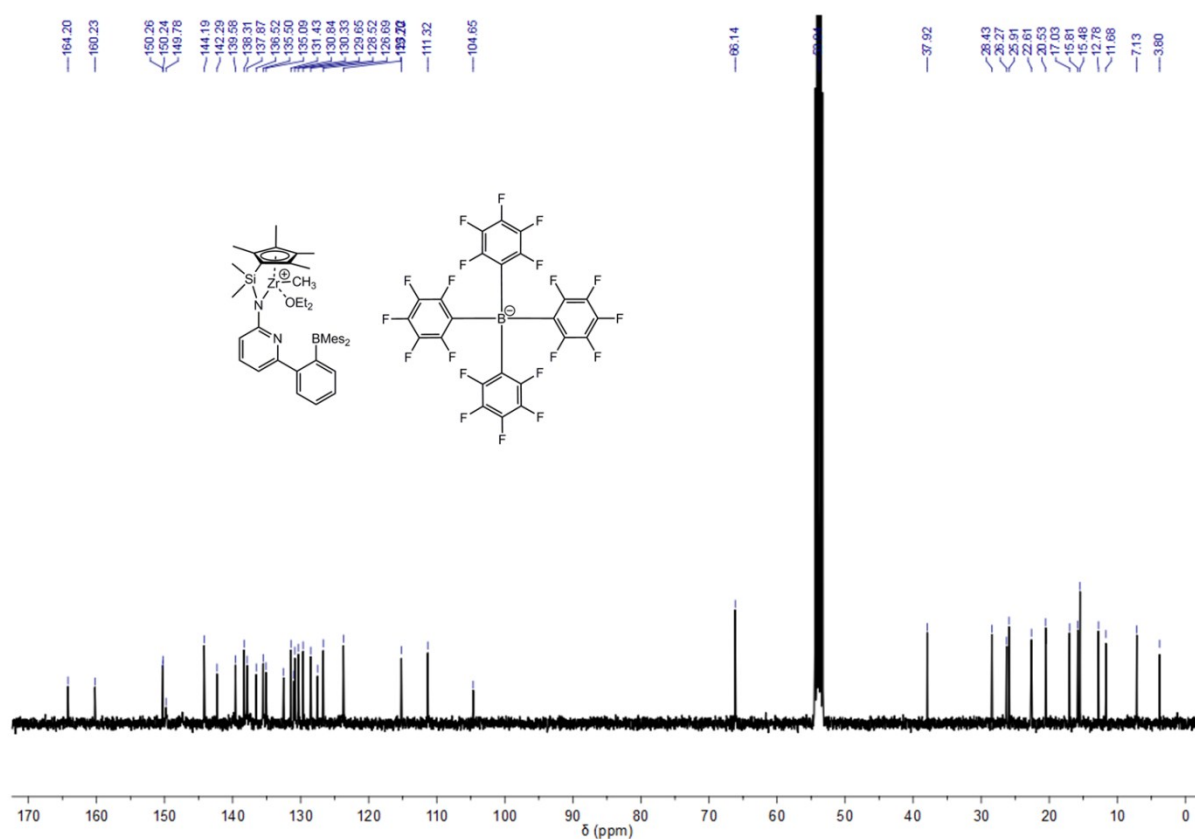


Figure S35. ¹³C NMR spectrum of [L'Zr(CH₃)Et₂O]⁺[B(C₆F₅)₄]⁻ in CD₂Cl₂.

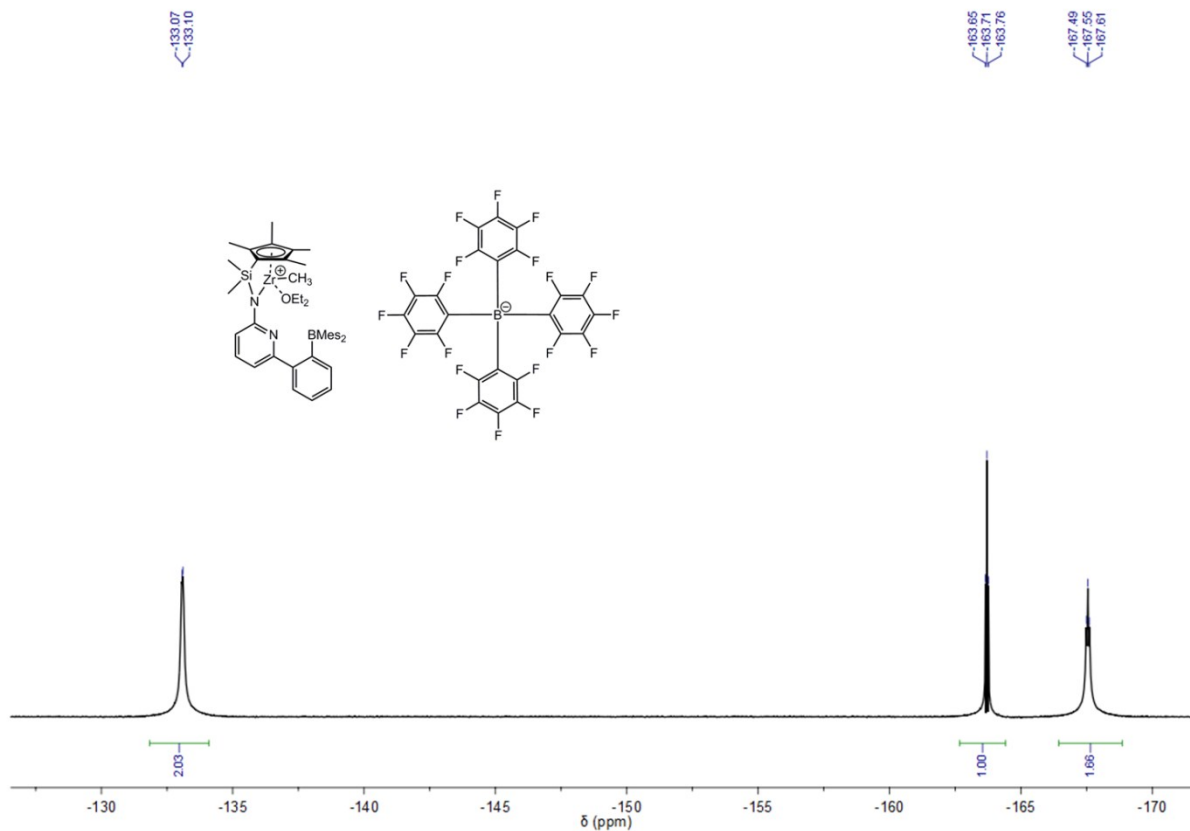


Figure S36. ¹⁹F NMR spectrum of [L'Zr(CH₃)Et₂O]⁺[B(C₆F₅)₄]⁻ in CD₂Cl₂.

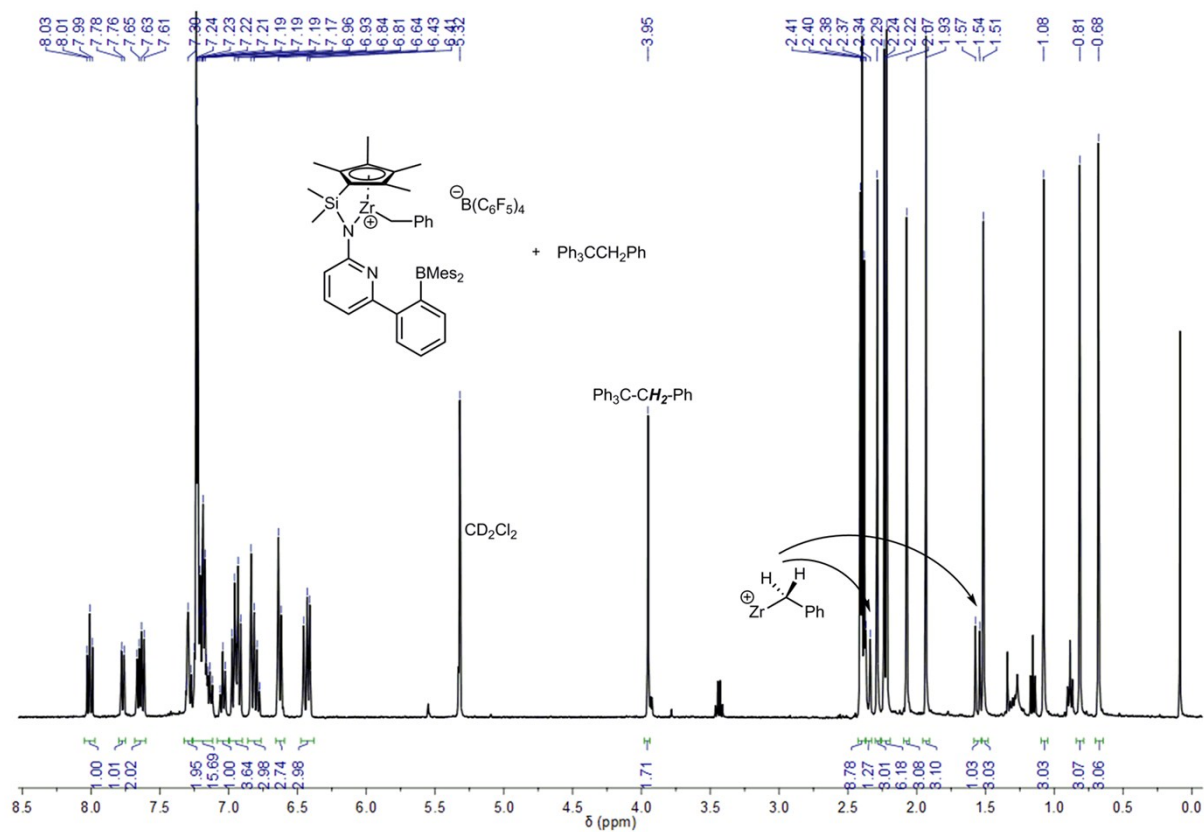


Figure S37. 1H NMR spectrum of the *in situ* formation of $[L'Zr(Bn)]^+[B(C_6F_5)_4]^-$ in CD_2Cl_2 .

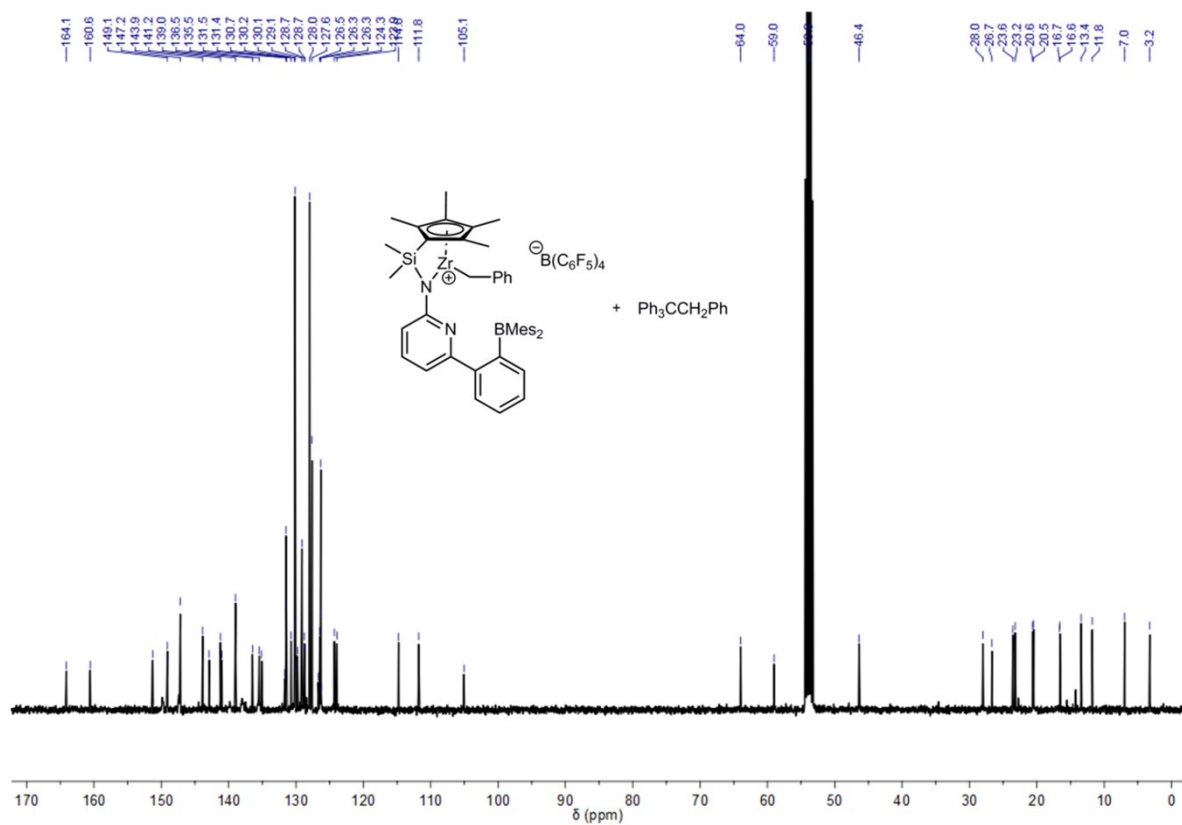


Figure S38. ^{13}C NMR spectrum of the *in situ* formation of $[L'Zr(Bn)]^+[B(C_6F_5)_4]^-$ in CD_2Cl_2 .

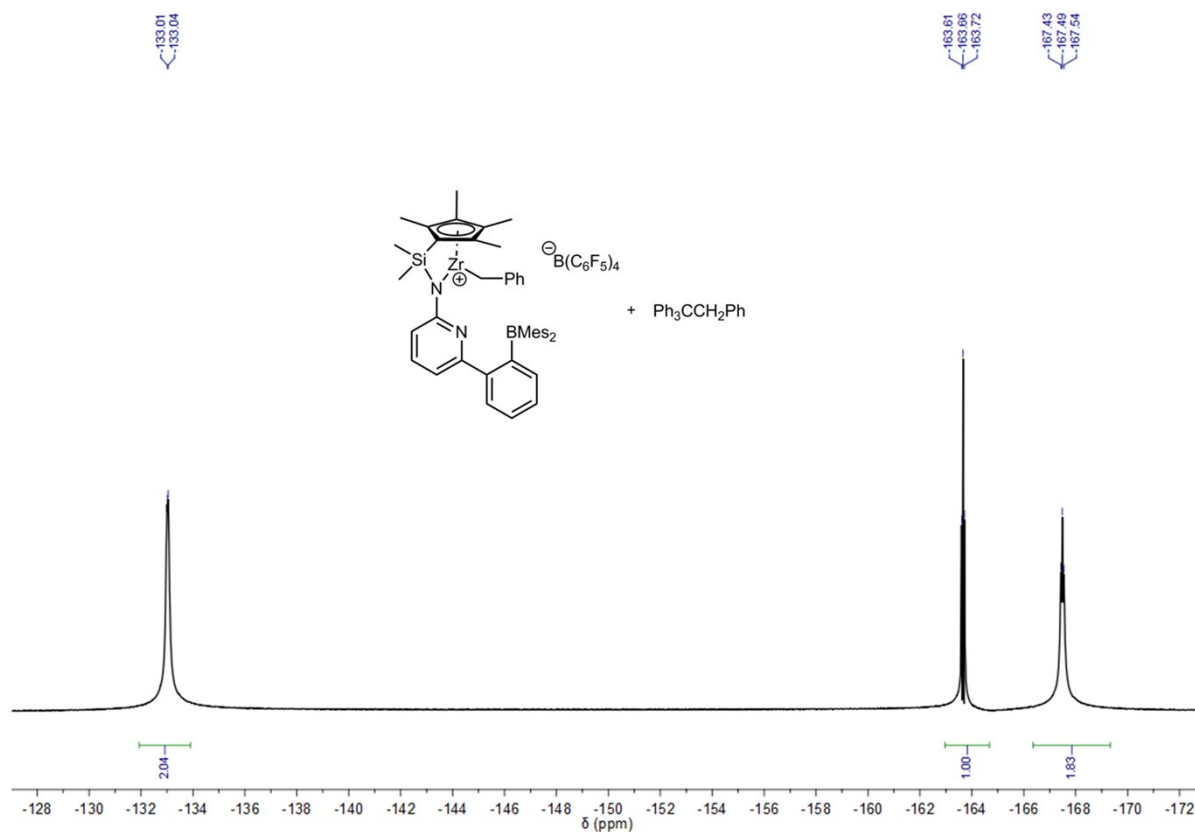
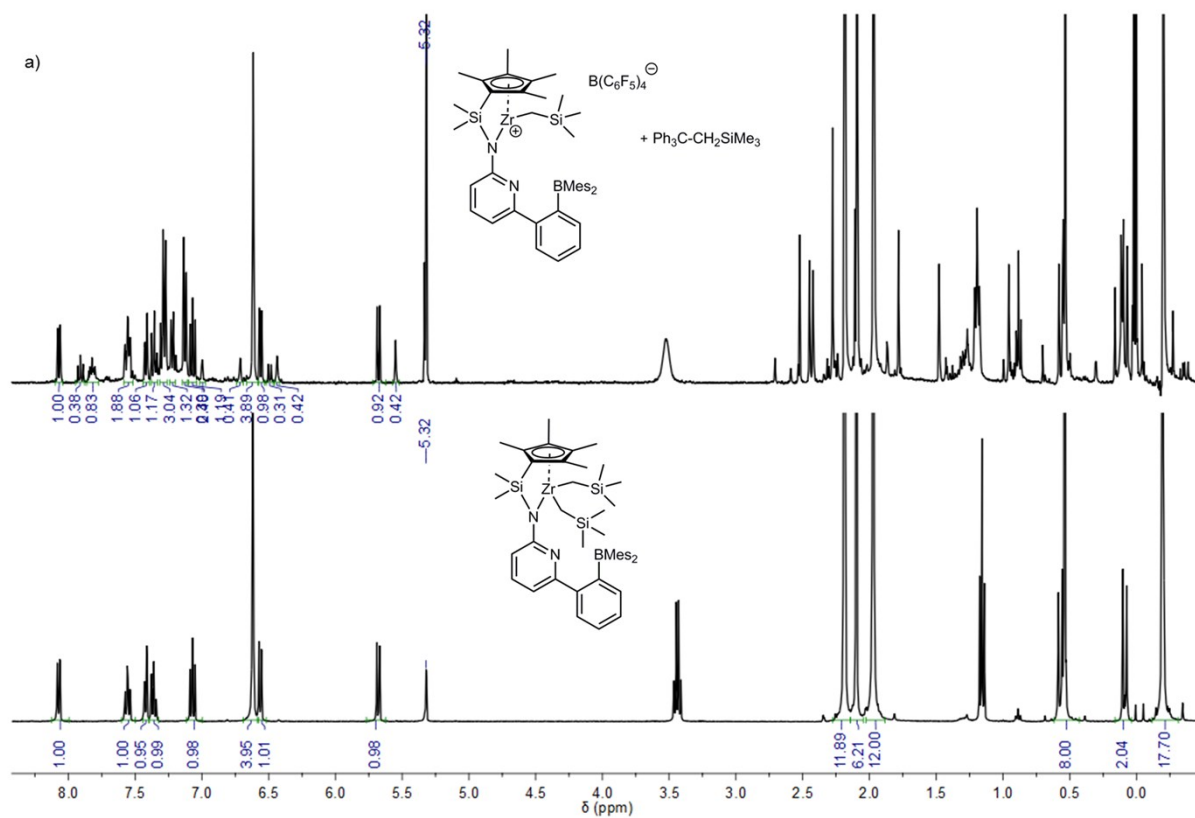


Figure S39. ^{19}F NMR spectrum of the *in situ* formation of $[L'Zr(Bn)]^+[B(C_6F_5)_4]^-$ in CD_2Cl_2 .



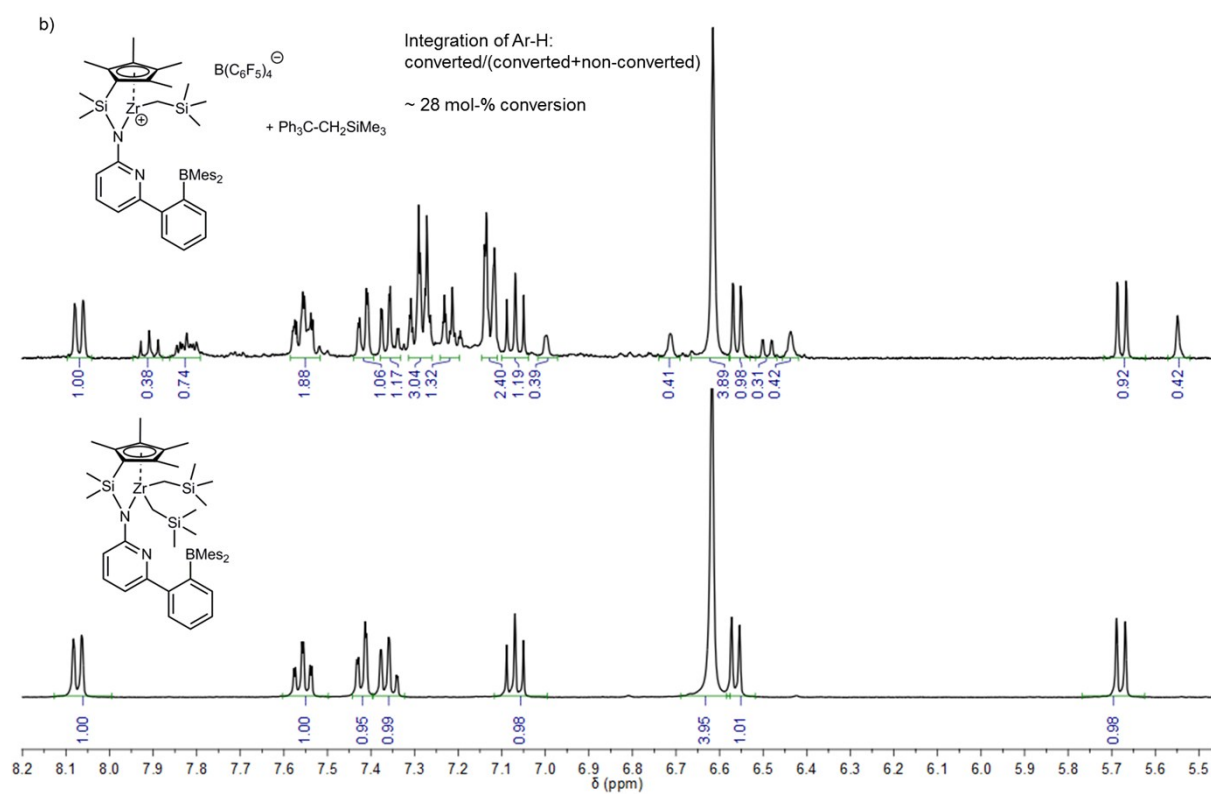


Figure S40. ^1H NMR spectra of the *in situ* formation of $[\text{L}'\text{Zr}(\text{CH}_2\text{SiMe}_3)]^+[\text{B}(\text{C}_6\text{F}_5)_4]^-$ in CD_2Cl_2 a) -0.5-8.5 ppm and b) 5.5-8.2 ppm.

Table S1. Crystal data and structure refinement for **L'Zr(CH₃)₂**.

Empirical formula	C ₄₂ H ₅₃ BN ₂ SiZr
Formula weight	715.98
Temperature	110(2) K
Wavelength	0.71073 Å
Crystal system, space group	Triclinic, P-1
Unit cell dimensions	a = 8.6885(10) Å α = 79.834(5)°. b = 12.1849(12) Å β = 85.356(6)°. c = 18.105(2) Å γ = 81.823(5)°.
Volume	1864.4(4) Å ³
Z, Calculated density	2, 1.275 mg/m ³
Absorption coefficient	0.358 mm ⁻¹
F(000)	756
Crystal size	0.21 x 0.16 x 0.09 mm
Theta range for data collection	1.71 to 26.45°.
Limiting indices	-10 ≤ h ≤ 10, -15 ≤ k ≤ 10, -22 ≤ l ≤ 22
Reflections collected / unique	27284 / 7603 [R(int) = 0.0573]
Completeness to theta = 26.45	98.9 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.7454 and 0.7066
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	7603 / 0 / 438
Goodness-of-fit on F ²	1.041
Final R indices [I > 2σ(I)]	R1 = 0.0423, wR2 = 0.0769
R indices (all data)	R1 = 0.0738, wR2 = 0.0833
Largest diff. peak and hole	0.431 and -0.419 e.Å ⁻³

Table S2. Atomic coordinates (×10⁴) and equivalent isotropic displacement parameters (Å² × 10³) for **L'Zr(CH₃)₂**. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

x	y	z	U(eq)
---	---	---	-------

Zr(1)	1992(1)	139(1)	2071(1)	15(1)
Si(1)	2650(1)	1251(1)	374(1)	18(1)
B(1)	-1114(3)	4323(2)	3361(2)	13(1)
N(1)	1272(3)	1356(2)	1102(1)	26(1)
C(1)	21(3)	2021(2)	1360(2)	18(1)
N(2)	-170(2)	1766(2)	2125(1)	16(1)
C(2)	-1321(3)	2377(2)	2485(1)	14(1)
C(3)	-2359(3)	3199(2)	2092(2)	17(1)
C(4)	-2179(3)	3432(2)	1311(2)	19(1)
C(5)	-975(3)	2847(2)	942(2)	19(1)
C(6)	-1404(3)	2173(2)	3318(2)	14(1)
C(7)	-1416(3)	3080(2)	3715(1)	13(1)
C(8)	-1533(3)	2824(2)	4503(1)	17(1)
C(9)	-1595(3)	1737(2)	4887(2)	20(1)
C(10)	-1604(3)	867(2)	4487(2)	20(1)
C(11)	-1513(3)	1087(2)	3708(2)	17(1)
C(12)	80(3)	4560(2)	2661(1)	13(1)
C(13)	1633(3)	4005(2)	2667(2)	15(1)
C(14)	2679(3)	4254(2)	2054(2)	17(1)
C(15)	2261(3)	5020(2)	1422(2)	20(1)
C(16)	734(3)	5565(2)	1414(2)	18(1)
C(17)	-341(3)	5367(2)	2023(1)	15(1)
C(18)	2217(3)	3199(2)	3343(2)	22(1)
C(19)	3430(3)	5277(2)	769(2)	31(1)
C(20)	-1941(3)	6029(2)	1974(2)	21(1)
C(21)	-1931(3)	5317(2)	3771(1)	14(1)
C(22)	-3564(3)	5462(2)	3957(1)	14(1)
C(23)	-4235(3)	6338(2)	4329(1)	16(1)
C(24)	-3363(3)	7091(2)	4538(1)	16(1)
C(25)	-1779(3)	6948(2)	4358(1)	18(1)
C(26)	-1049(3)	6096(2)	3978(1)	15(1)
C(27)	-4649(3)	4742(2)	3715(2)	17(1)

C(28)	-4122(3)	8047(2)	4928(2)	22(1)
C(29)	702(3)	6024(2)	3825(2)	24(1)
C(30)	240(3)	-1084(2)	2318(2)	24(1)
C(31)	2616(3)	304(2)	3236(2)	22(1)
C(32)	3573(4)	2562(2)	84(2)	34(1)
C(33)	1962(3)	955(2)	-502(2)	26(1)
C(34)	3833(3)	41(2)	962(1)	15(1)
C(35)	4734(3)	156(2)	1565(2)	18(1)
C(36)	4822(3)	-851(2)	2103(2)	16(1)
C(37)	3940(3)	-1594(2)	1847(2)	17(1)
C(38)	3343(3)	-1056(2)	1152(2)	16(1)
C(39)	5505(3)	1160(2)	1641(2)	23(1)
C(40)	5798(3)	-1152(2)	2770(2)	23(1)
C(41)	3774(3)	-2774(2)	2236(2)	23(1)
C(42)	2358(3)	-1566(2)	687(2)	24(1)

Table S3. Bond lengths [Å] and angles [°] for **L'Zr(CH₃)₂**.

Zr(1)-N(1)	2.160(2)
Zr(1)-C(30)	2.244(2)
Zr(1)-C(31)	2.269(3)
Zr(1)-C(34)	2.473(2)
Zr(1)-C(35)	2.484(3)
Zr(1)-C(38)	2.514(2)
Zr(1)-N(2)	2.539(2)
Zr(1)-C(36)	2.581(3)
Zr(1)-C(37)	2.581(2)
Zr(1)-C(1)	2.837(3)
Zr(1)-Si(1)	3.1731(8)
Si(1)-N(1)	1.716(2)
Si(1)-C(33)	1.849(3)
Si(1)-C(32)	1.864(3)
Si(1)-C(34)	1.885(3)

B(1)-C(12)	1.584(4)
B(1)-C(21)	1.584(4)
B(1)-C(7)	1.586(4)
N(1)-C(1)	1.363(3)
C(1)-N(2)	1.367(3)
C(1)-C(5)	1.386(4)
N(2)-C(2)	1.354(3)
C(2)-C(3)	1.384(4)
C(2)-C(6)	1.483(4)
C(3)-C(4)	1.392(4)
C(3)-H(3)	0.9500
C(4)-C(5)	1.375(4)
C(4)-H(4)	0.9500
C(5)-H(5)	0.9500
C(6)-C(11)	1.398(3)
C(6)-C(7)	1.417(3)
C(7)-C(8)	1.404(3)
C(8)-C(9)	1.389(3)
C(8)-H(8)	0.9500
C(9)-C(10)	1.387(4)
C(9)-H(9)	0.9500
C(10)-C(11)	1.385(4)
C(10)-H(10)	0.9500
C(11)-H(11)	0.9500
C(12)-C(17)	1.415(4)
C(12)-C(13)	1.420(4)
C(13)-C(14)	1.396(3)
C(13)-C(18)	1.501(4)
C(14)-C(15)	1.381(4)
C(14)-H(14)	0.9500
C(15)-C(16)	1.396(4)
C(15)-C(19)	1.514(4)
C(16)-C(17)	1.397(3)

C(16)-H(16)	0.9500
C(17)-C(20)	1.506(4)
C(18)-H(18A)	0.9800
C(18)-H(18B)	0.9800
C(18)-H(18C)	0.9800
C(19)-H(19A)	0.9800
C(19)-H(19B)	0.9800
C(19)-H(19C)	0.9800
C(20)-H(20A)	0.9800
C(20)-H(20B)	0.9800
C(20)-H(20C)	0.9800
C(21)-C(26)	1.417(3)
C(21)-C(22)	1.425(3)
C(22)-C(23)	1.396(3)
C(22)-C(27)	1.512(3)
C(23)-C(24)	1.388(3)
C(23)-H(23)	0.9500
C(24)-C(25)	1.382(4)
C(24)-C(28)	1.512(3)
C(25)-C(26)	1.396(3)
C(25)-H(25)	0.9500
C(26)-C(29)	1.517(4)
C(27)-H(27A)	0.9800
C(27)-H(27B)	0.9800
C(27)-H(27C)	0.9800
C(28)-H(28A)	0.9800
C(28)-H(28B)	0.9800
C(28)-H(28C)	0.9800
C(29)-H(29A)	0.9800
C(29)-H(29B)	0.9800
C(29)-H(29C)	0.9800
C(30)-H(30A)	0.9800
C(30)-H(30B)	0.9800

C(30)-H(30C)	0.9800
C(31)-H(31A)	0.9800
C(31)-H(31B)	0.9800
C(31)-H(31C)	0.9800
C(32)-H(32A)	0.9800
C(32)-H(32B)	0.9800
C(32)-H(32C)	0.9800
C(33)-H(33A)	0.9800
C(33)-H(33B)	0.9800
C(33)-H(33C)	0.9800
C(34)-C(35)	1.431(4)
C(34)-C(38)	1.436(3)
C(35)-C(36)	1.423(4)
C(35)-C(39)	1.507(3)
C(36)-C(37)	1.422(3)
C(36)-C(40)	1.494(4)
C(37)-C(38)	1.413(4)
C(37)-C(41)	1.507(3)
C(38)-C(42)	1.510(4)
C(39)-H(39A)	0.9800
C(39)-H(39B)	0.9800
C(39)-H(39C)	0.9800
C(40)-H(40A)	0.9800
C(40)-H(40B)	0.9800
C(40)-H(40C)	0.9800
C(41)-H(41A)	0.9800
C(41)-H(41B)	0.9800
C(41)-H(41C)	0.9800
C(42)-H(42A)	0.9800
C(42)-H(42B)	0.9800
C(42)-H(42C)	0.9800
N(1)-Zr(1)-C(30)	107.52(10)

N(1)-Zr(1)-C(31)	132.95(9)
C(30)-Zr(1)-C(31)	102.70(10)
N(1)-Zr(1)-C(34)	67.08(9)
C(30)-Zr(1)-C(34)	118.48(9)
C(31)-Zr(1)-C(34)	125.83(9)
N(1)-Zr(1)-C(35)	88.81(9)
C(30)-Zr(1)-C(35)	137.90(9)
C(31)-Zr(1)-C(35)	92.27(9)
C(34)-Zr(1)-C(35)	33.56(8)
N(1)-Zr(1)-C(38)	86.45(9)
C(30)-Zr(1)-C(38)	87.24(9)
C(31)-Zr(1)-C(38)	130.67(9)
C(34)-Zr(1)-C(38)	33.46(8)
C(35)-Zr(1)-C(38)	54.53(8)
N(1)-Zr(1)-N(2)	56.29(7)
C(30)-Zr(1)-N(2)	90.31(8)
C(31)-Zr(1)-N(2)	88.90(8)
C(34)-Zr(1)-N(2)	122.15(8)
C(35)-Zr(1)-N(2)	129.58(7)
C(38)-Zr(1)-N(2)	139.86(8)
N(1)-Zr(1)-C(36)	119.75(8)
C(30)-Zr(1)-C(36)	112.42(9)
C(31)-Zr(1)-C(36)	78.52(9)
C(34)-Zr(1)-C(36)	54.79(9)
C(35)-Zr(1)-C(36)	32.56(8)
C(38)-Zr(1)-C(36)	53.58(8)
N(2)-Zr(1)-C(36)	155.85(7)
N(1)-Zr(1)-C(37)	117.85(8)
C(30)-Zr(1)-C(37)	84.69(9)
C(31)-Zr(1)-C(37)	99.90(9)
C(34)-Zr(1)-C(37)	54.63(8)
C(35)-Zr(1)-C(37)	53.81(8)
C(38)-Zr(1)-C(37)	32.18(8)

N(2)-Zr(1)-C(37)	170.64(8)
C(36)-Zr(1)-C(37)	32.00(8)
N(1)-Zr(1)-C(1)	27.64(8)
C(30)-Zr(1)-C(1)	98.17(9)
C(31)-Zr(1)-C(1)	113.78(9)
C(34)-Zr(1)-C(1)	94.49(8)
C(35)-Zr(1)-C(1)	111.44(8)
C(38)-Zr(1)-C(1)	112.28(8)
N(2)-Zr(1)-C(1)	28.79(7)
C(36)-Zr(1)-C(1)	143.99(8)
C(37)-Zr(1)-C(1)	144.43(8)
N(1)-Zr(1)-Si(1)	30.69(6)
C(30)-Zr(1)-Si(1)	118.20(8)
C(31)-Zr(1)-Si(1)	138.79(7)
C(34)-Zr(1)-Si(1)	36.41(6)
C(35)-Zr(1)-Si(1)	61.16(7)
C(38)-Zr(1)-Si(1)	60.39(6)
N(2)-Zr(1)-Si(1)	86.22(5)
C(36)-Zr(1)-Si(1)	89.79(6)
C(37)-Zr(1)-Si(1)	89.18(6)
C(1)-Zr(1)-Si(1)	58.10(5)
N(1)-Si(1)-C(33)	116.14(13)
N(1)-Si(1)-C(32)	112.21(13)
C(33)-Si(1)-C(32)	104.97(14)
N(1)-Si(1)-C(34)	91.07(11)
C(33)-Si(1)-C(34)	116.16(12)
C(32)-Si(1)-C(34)	116.41(13)
N(1)-Si(1)-Zr(1)	39.96(8)
C(33)-Si(1)-Zr(1)	130.23(9)
C(32)-Si(1)-Zr(1)	124.00(10)
C(34)-Si(1)-Zr(1)	51.15(8)
C(12)-B(1)-C(21)	120.5(2)
C(12)-B(1)-C(7)	121.3(2)

C(21)-B(1)-C(7)	118.0(2)
C(1)-N(1)-Si(1)	144.3(2)
C(1)-N(1)-Zr(1)	105.03(17)
Si(1)-N(1)-Zr(1)	109.35(11)
N(1)-C(1)-N(2)	110.4(2)
N(1)-C(1)-C(5)	127.7(2)
N(2)-C(1)-C(5)	121.9(2)
N(1)-C(1)-Zr(1)	47.33(13)
N(2)-C(1)-Zr(1)	63.41(14)
C(5)-C(1)-Zr(1)	172.07(19)
C(2)-N(2)-C(1)	118.7(2)
C(2)-N(2)-Zr(1)	153.31(18)
C(1)-N(2)-Zr(1)	87.80(15)
N(2)-C(2)-C(3)	121.4(2)
N(2)-C(2)-C(6)	118.0(2)
C(3)-C(2)-C(6)	120.6(2)
C(2)-C(3)-C(4)	119.3(2)
C(2)-C(3)-H(3)	120.3
C(4)-C(3)-H(3)	120.3
C(5)-C(4)-C(3)	119.7(3)
C(5)-C(4)-H(4)	120.2
C(3)-C(4)-H(4)	120.2
C(4)-C(5)-C(1)	118.9(3)
C(4)-C(5)-H(5)	120.6
C(1)-C(5)-H(5)	120.6
C(11)-C(6)-C(7)	120.4(2)
C(11)-C(6)-C(2)	119.4(2)
C(7)-C(6)-C(2)	120.1(2)
C(8)-C(7)-C(6)	116.8(2)
C(8)-C(7)-B(1)	116.5(2)
C(6)-C(7)-B(1)	126.3(2)
C(9)-C(8)-C(7)	122.5(2)
C(9)-C(8)-H(8)	118.8

C(7)-C(8)-H(8)	118.8
C(10)-C(9)-C(8)	119.7(2)
C(10)-C(9)-H(9)	120.2
C(8)-C(9)-H(9)	120.2
C(11)-C(10)-C(9)	119.6(2)
C(11)-C(10)-H(10)	120.2
C(9)-C(10)-H(10)	120.2
C(10)-C(11)-C(6)	121.0(2)
C(10)-C(11)-H(11)	119.5
C(6)-C(11)-H(11)	119.5
C(17)-C(12)-C(13)	117.7(2)
C(17)-C(12)-B(1)	121.2(2)
C(13)-C(12)-B(1)	121.1(2)
C(14)-C(13)-C(12)	120.1(2)
C(14)-C(13)-C(18)	118.4(2)
C(12)-C(13)-C(18)	121.4(2)
C(15)-C(14)-C(13)	122.4(3)
C(15)-C(14)-H(14)	118.8
C(13)-C(14)-H(14)	118.8
C(14)-C(15)-C(16)	117.6(2)
C(14)-C(15)-C(19)	121.0(3)
C(16)-C(15)-C(19)	121.3(3)
C(15)-C(16)-C(17)	122.0(3)
C(15)-C(16)-H(16)	119.0
C(17)-C(16)-H(16)	119.0
C(16)-C(17)-C(12)	120.1(2)
C(16)-C(17)-C(20)	118.1(2)
C(12)-C(17)-C(20)	121.7(2)
C(13)-C(18)-H(18A)	109.5
C(13)-C(18)-H(18B)	109.5
H(18A)-C(18)-H(18B)	109.5
C(13)-C(18)-H(18C)	109.5
H(18A)-C(18)-H(18C)	109.5

H(18B)-C(18)-H(18C)	109.5
C(15)-C(19)-H(19A)	109.5
C(15)-C(19)-H(19B)	109.5
H(19A)-C(19)-H(19B)	109.5
C(15)-C(19)-H(19C)	109.5
H(19A)-C(19)-H(19C)	109.5
H(19B)-C(19)-H(19C)	109.5
C(17)-C(20)-H(20A)	109.5
C(17)-C(20)-H(20B)	109.5
H(20A)-C(20)-H(20B)	109.5
C(17)-C(20)-H(20C)	109.5
H(20A)-C(20)-H(20C)	109.5
H(20B)-C(20)-H(20C)	109.5
C(26)-C(21)-C(22)	117.1(2)
C(26)-C(21)-B(1)	120.8(2)
C(22)-C(21)-B(1)	122.1(2)
C(23)-C(22)-C(21)	120.3(2)
C(23)-C(22)-C(27)	117.4(2)
C(21)-C(22)-C(27)	122.2(2)
C(24)-C(23)-C(22)	122.3(2)
C(24)-C(23)-H(23)	118.8
C(22)-C(23)-H(23)	118.8
C(25)-C(24)-C(23)	117.2(2)
C(25)-C(24)-C(28)	121.4(2)
C(23)-C(24)-C(28)	121.3(2)
C(24)-C(25)-C(26)	122.9(2)
C(24)-C(25)-H(25)	118.6
C(26)-C(25)-H(25)	118.6
C(25)-C(26)-C(21)	120.2(2)
C(25)-C(26)-C(29)	117.5(2)
C(21)-C(26)-C(29)	122.3(2)
C(22)-C(27)-H(27A)	109.5
C(22)-C(27)-H(27B)	109.5

H(27A)-C(27)-H(27B)	109.5
C(22)-C(27)-H(27C)	109.5
H(27A)-C(27)-H(27C)	109.5
H(27B)-C(27)-H(27C)	109.5
C(24)-C(28)-H(28A)	109.5
C(24)-C(28)-H(28B)	109.5
H(28A)-C(28)-H(28B)	109.5
C(24)-C(28)-H(28C)	109.5
H(28A)-C(28)-H(28C)	109.5
H(28B)-C(28)-H(28C)	109.5
C(26)-C(29)-H(29A)	109.5
C(26)-C(29)-H(29B)	109.5
H(29A)-C(29)-H(29B)	109.5
C(26)-C(29)-H(29C)	109.5
H(29A)-C(29)-H(29C)	109.5
H(29B)-C(29)-H(29C)	109.5
Zr(1)-C(30)-H(30A)	109.5
Zr(1)-C(30)-H(30B)	109.5
H(30A)-C(30)-H(30B)	109.5
Zr(1)-C(30)-H(30C)	109.5
H(30A)-C(30)-H(30C)	109.5
H(30B)-C(30)-H(30C)	109.5
Zr(1)-C(31)-H(31A)	109.5
Zr(1)-C(31)-H(31B)	109.5
H(31A)-C(31)-H(31B)	109.5
Zr(1)-C(31)-H(31C)	109.5
H(31A)-C(31)-H(31C)	109.5
H(31B)-C(31)-H(31C)	109.5
Si(1)-C(32)-H(32A)	109.5
Si(1)-C(32)-H(32B)	109.5
H(32A)-C(32)-H(32B)	109.5
Si(1)-C(32)-H(32C)	109.5
H(32A)-C(32)-H(32C)	109.5

H(32B)-C(32)-H(32C)	109.5
Si(1)-C(33)-H(33A)	109.5
Si(1)-C(33)-H(33B)	109.5
H(33A)-C(33)-H(33B)	109.5
Si(1)-C(33)-H(33C)	109.5
H(33A)-C(33)-H(33C)	109.5
H(33B)-C(33)-H(33C)	109.5
C(35)-C(34)-C(38)	106.0(2)
C(35)-C(34)-Si(1)	124.19(18)
C(38)-C(34)-Si(1)	122.25(19)
C(35)-C(34)-Zr(1)	73.61(14)
C(38)-C(34)-Zr(1)	74.80(14)
Si(1)-C(34)-Zr(1)	92.44(10)
C(36)-C(35)-C(34)	109.3(2)
C(36)-C(35)-C(39)	123.6(2)
C(34)-C(35)-C(39)	127.2(2)
C(36)-C(35)-Zr(1)	77.47(14)
C(34)-C(35)-Zr(1)	72.83(14)
C(39)-C(35)-Zr(1)	116.87(17)
C(37)-C(36)-C(35)	107.4(2)
C(37)-C(36)-C(40)	124.9(2)
C(35)-C(36)-C(40)	127.3(2)
C(37)-C(36)-Zr(1)	74.01(15)
C(35)-C(36)-Zr(1)	69.97(14)
C(40)-C(36)-Zr(1)	126.75(17)
C(38)-C(37)-C(36)	108.2(2)
C(38)-C(37)-C(41)	126.8(2)
C(36)-C(37)-C(41)	124.9(3)
C(38)-C(37)-Zr(1)	71.29(14)
C(36)-C(37)-Zr(1)	74.00(14)
C(41)-C(37)-Zr(1)	123.48(17)
C(37)-C(38)-C(34)	109.1(2)
C(37)-C(38)-C(42)	125.0(2)

C(34)-C(38)-C(42)	125.9(2)
C(37)-C(38)-Zr(1)	76.53(15)
C(34)-C(38)-Zr(1)	71.74(14)
C(42)-C(38)-Zr(1)	118.44(17)
C(35)-C(39)-H(39A)	109.5
C(35)-C(39)-H(39B)	109.5
H(39A)-C(39)-H(39B)	109.5
C(35)-C(39)-H(39C)	109.5
H(39A)-C(39)-H(39C)	109.5
H(39B)-C(39)-H(39C)	109.5
C(36)-C(40)-H(40A)	109.5
C(36)-C(40)-H(40B)	109.5
H(40A)-C(40)-H(40B)	109.5
C(36)-C(40)-H(40C)	109.5
H(40A)-C(40)-H(40C)	109.5
H(40B)-C(40)-H(40C)	109.5
C(37)-C(41)-H(41A)	109.5
C(37)-C(41)-H(41B)	109.5
H(41A)-C(41)-H(41B)	109.5
C(37)-C(41)-H(41C)	109.5
H(41A)-C(41)-H(41C)	109.5
H(41B)-C(41)-H(41C)	109.5
C(38)-C(42)-H(42A)	109.5
C(38)-C(42)-H(42B)	109.5
H(42A)-C(42)-H(42B)	109.5
C(38)-C(42)-H(42C)	109.5
H(42A)-C(42)-H(42C)	109.5
H(42B)-C(42)-H(42C)	109.5

Table S4. Anisotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for $\text{L}^*\text{Zr}(\text{CH}_3)_2$. The anisotropic displacement factor exponent takes the form: $-2 \pi^2 [h^2 a^{*2} U_{11} + \dots + 2 h k a^* b^* U_{12}]$.

	U11	U22	U33	U23	U13	U12
Zr(1)	15(1)	15(1)	14(1)	-2(1)	2(1)	0(1)
Si(1)	21(1)	18(1)	14(1)	-2(1)	3(1)	-1(1)
B(1)	9(2)	21(2)	10(2)	-1(1)	-7(1)	-2(1)
N(1)	28(2)	26(1)	16(1)	1(1)	5(1)	12(1)
C(1)	21(2)	16(1)	15(2)	-2(1)	1(1)	-1(1)
N(2)	17(1)	16(1)	15(1)	-2(1)	2(1)	-1(1)
C(2)	12(1)	14(1)	18(2)	-7(1)	0(1)	-4(1)
C(3)	14(2)	17(1)	20(2)	-6(1)	-1(1)	0(1)
C(4)	19(2)	17(1)	22(2)	-5(1)	-7(1)	3(1)
C(5)	26(2)	19(1)	12(2)	-2(1)	-3(1)	-1(1)
C(6)	6(1)	17(1)	19(2)	-3(1)	1(1)	1(1)
C(7)	10(1)	16(1)	14(1)	-2(1)	-1(1)	-2(1)
C(8)	16(2)	21(1)	14(2)	-4(1)	2(1)	-3(1)
C(9)	20(2)	25(2)	13(2)	3(1)	2(1)	-4(1)
C(10)	16(2)	17(1)	23(2)	5(1)	4(1)	-2(1)
C(11)	12(2)	18(1)	22(2)	-6(1)	4(1)	-3(1)
C(12)	15(2)	12(1)	13(1)	-4(1)	0(1)	-4(1)
C(13)	15(2)	12(1)	19(2)	-4(1)	-1(1)	-5(1)
C(14)	11(1)	16(1)	26(2)	-9(1)	1(1)	-1(1)
C(15)	22(2)	18(1)	20(2)	-7(1)	7(1)	-8(1)
C(16)	26(2)	14(1)	13(2)	2(1)	-1(1)	-5(1)
C(17)	17(2)	15(1)	15(2)	-3(1)	0(1)	-5(1)
C(18)	15(2)	21(1)	29(2)	0(1)	0(1)	-1(1)
C(19)	31(2)	30(2)	30(2)	-6(1)	15(2)	-3(1)
C(20)	25(2)	20(1)	16(2)	4(1)	-1(1)	-2(1)
C(21)	16(2)	15(1)	8(1)	2(1)	1(1)	-4(1)
C(22)	16(2)	16(1)	9(1)	2(1)	-1(1)	-2(1)
C(23)	12(1)	20(1)	13(2)	0(1)	0(1)	1(1)
C(24)	21(2)	15(1)	10(1)	1(1)	-1(1)	3(1)
C(25)	20(2)	20(1)	13(2)	-2(1)	-4(1)	-6(1)

C(26)	15(2)	17(1)	11(1)	1(1)	-1(1)	-1(1)
C(27)	13(2)	19(1)	19(2)	-1(1)	1(1)	-2(1)
C(28)	22(2)	21(1)	23(2)	-5(1)	-1(1)	2(1)
C(29)	19(2)	30(2)	29(2)	-15(1)	3(1)	-9(1)
C(30)	15(2)	28(2)	30(2)	-7(1)	1(1)	-1(1)
C(31)	23(2)	22(1)	20(2)	-3(1)	1(1)	3(1)
C(32)	44(2)	23(2)	33(2)	4(1)	-10(2)	-7(2)
C(33)	21(2)	30(2)	24(2)	-2(1)	-1(1)	6(1)
C(34)	12(1)	19(1)	14(2)	-5(1)	3(1)	-1(1)
C(35)	14(2)	19(1)	20(2)	-7(1)	5(1)	0(1)
C(36)	11(1)	20(1)	17(2)	-4(1)	1(1)	1(1)
C(37)	11(2)	16(1)	22(2)	-5(1)	4(1)	2(1)
C(38)	13(1)	17(1)	18(2)	-6(1)	2(1)	0(1)
C(39)	22(2)	26(2)	22(2)	-4(1)	-2(1)	-7(1)
C(40)	14(2)	27(2)	28(2)	-3(1)	-1(1)	-3(1)
C(41)	18(2)	19(1)	30(2)	-1(1)	0(1)	1(1)
C(42)	23(2)	21(1)	28(2)	-8(1)	2(1)	-3(1)

Table S5. Hydrogen coordinates ($\times 10^4$) and isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for **L'Zr(CH₃)₂**.

	x	y	z	U(eq)
H(3)	-3185	3599	2352	20
H(4)	-2885	3992	1035	23
H(5)	-829	3005	410	23
H(8)	-1570	3417	4784	20
H(9)	-1632	1591	5420	24
H(10)	-1671	124	4745	24
H(11)	-1525	490	3435	21
H(14)	3717	3883	2072	21

H(16)	418	6086	981	22
H(18A)	3340	2980	3267	33
H(18B)	1682	2529	3414	33
H(18C)	2009	3562	3789	33
H(19A)	4039	5848	870	47
H(19B)	2879	5561	309	47
H(19C)	4129	4590	707	47
H(20A)	-2025	6624	2280	32
H(20B)	-2725	5527	2161	32
H(20C)	-2114	6365	1450	32
H(23)	-5328	6422	4444	19
H(25)	-1160	7452	4499	21
H(27A)	-5669	4863	3982	26
H(27B)	-4216	3948	3833	26
H(27C)	-4765	4950	3172	26
H(28A)	-3342	8301	5198	33
H(28B)	-4956	7788	5285	33
H(28C)	-4559	8672	4554	33
H(29A)	1061	6701	3935	37
H(29B)	964	5963	3296	37
H(29C)	1211	5360	4145	37
H(30A)	-767	-715	2134	36
H(30B)	127	-1339	2862	36
H(30C)	594	-1731	2066	36
H(31A)	3465	766	3192	33
H(31B)	2949	-444	3518	33
H(31C)	1704	662	3500	33
H(32A)	2777	3188	-91	51
H(32B)	4366	2460	-324	51
H(32C)	4062	2729	514	51
H(33A)	1356	321	-383	39
H(33B)	2860	768	-842	39
H(33C)	1306	1621	-745	39

H(39A)	4707	1803	1686	34
H(39B)	6200	1346	1196	34
H(39C)	6110	983	2091	34
H(40A)	5314	-1689	3154	34
H(40B)	5881	-472	2975	34
H(40C)	6840	-1492	2617	34
H(41A)	2789	-2984	2112	35
H(41B)	3781	-2812	2780	35
H(41C)	4643	-3295	2067	35
H(42A)	2139	-2303	958	35
H(42B)	2921	-1656	205	35
H(42C)	1377	-1071	596	35

Table S6. Torsion angles [°] for **L'Zr(CH₃)₂**.

C(30)-Zr(1)-Si(1)-N(1)	76.44(15)
C(31)-Zr(1)-Si(1)-N(1)	-95.87(17)
C(34)-Zr(1)-Si(1)-N(1)	177.07(16)
C(35)-Zr(1)-Si(1)-N(1)	-151.81(14)
C(38)-Zr(1)-Si(1)-N(1)	144.87(14)
N(2)-Zr(1)-Si(1)-N(1)	-11.88(13)
C(36)-Zr(1)-Si(1)-N(1)	-168.04(14)
C(37)-Zr(1)-Si(1)-N(1)	159.97(14)
C(1)-Zr(1)-Si(1)-N(1)	-5.28(14)
N(1)-Zr(1)-Si(1)-C(33)	-83.62(18)
C(30)-Zr(1)-Si(1)-C(33)	-7.18(15)
C(31)-Zr(1)-Si(1)-C(33)	-179.49(16)
C(34)-Zr(1)-Si(1)-C(33)	93.45(15)
C(35)-Zr(1)-Si(1)-C(33)	124.57(14)
C(38)-Zr(1)-Si(1)-C(33)	61.25(14)
N(2)-Zr(1)-Si(1)-C(33)	-95.50(13)
C(36)-Zr(1)-Si(1)-C(33)	108.34(13)
C(37)-Zr(1)-Si(1)-C(33)	76.35(14)

C(1)-Zr(1)-Si(1)-C(33)	-88.91(14)
N(1)-Zr(1)-Si(1)-C(32)	84.55(18)
C(30)-Zr(1)-Si(1)-C(32)	160.99(15)
C(31)-Zr(1)-Si(1)-C(32)	-11.32(17)
C(34)-Zr(1)-Si(1)-C(32)	-98.38(16)
C(35)-Zr(1)-Si(1)-C(32)	-67.26(14)
C(38)-Zr(1)-Si(1)-C(32)	-130.58(14)
N(2)-Zr(1)-Si(1)-C(32)	72.67(13)
C(36)-Zr(1)-Si(1)-C(32)	-83.49(14)
C(37)-Zr(1)-Si(1)-C(32)	-115.48(14)
C(1)-Zr(1)-Si(1)-C(32)	79.27(14)
N(1)-Zr(1)-Si(1)-C(34)	-177.07(16)
C(30)-Zr(1)-Si(1)-C(34)	-100.63(13)
C(31)-Zr(1)-Si(1)-C(34)	87.06(14)
C(35)-Zr(1)-Si(1)-C(34)	31.12(11)
C(38)-Zr(1)-Si(1)-C(34)	-32.20(11)
N(2)-Zr(1)-Si(1)-C(34)	171.05(11)
C(36)-Zr(1)-Si(1)-C(34)	14.89(11)
C(37)-Zr(1)-Si(1)-C(34)	-17.10(11)
C(1)-Zr(1)-Si(1)-C(34)	177.64(11)
C(33)-Si(1)-N(1)-C(1)	-73.9(4)
C(32)-Si(1)-N(1)-C(1)	46.9(4)
C(34)-Si(1)-N(1)-C(1)	166.1(4)
Zr(1)-Si(1)-N(1)-C(1)	163.8(4)
C(33)-Si(1)-N(1)-Zr(1)	122.31(13)
C(32)-Si(1)-N(1)-Zr(1)	-116.95(14)
C(34)-Si(1)-N(1)-Zr(1)	2.28(12)
C(30)-Zr(1)-N(1)-C(1)	73.64(18)
C(31)-Zr(1)-N(1)-C(1)	-53.9(2)
C(34)-Zr(1)-N(1)-C(1)	-172.19(19)
C(35)-Zr(1)-N(1)-C(1)	-145.85(17)
C(38)-Zr(1)-N(1)-C(1)	159.62(18)
N(2)-Zr(1)-N(1)-C(1)	-4.59(15)

C(36)-Zr(1)-N(1)-C(1)	-156.49(16)
C(37)-Zr(1)-N(1)-C(1)	166.91(15)
Si(1)-Zr(1)-N(1)-C(1)	-170.3(3)
C(30)-Zr(1)-N(1)-Si(1)	-116.05(13)
C(31)-Zr(1)-N(1)-Si(1)	116.45(13)
C(34)-Zr(1)-N(1)-Si(1)	-1.89(10)
C(35)-Zr(1)-N(1)-Si(1)	24.45(12)
C(38)-Zr(1)-N(1)-Si(1)	-30.08(12)
N(2)-Zr(1)-N(1)-Si(1)	165.71(16)
C(36)-Zr(1)-N(1)-Si(1)	13.81(16)
C(37)-Zr(1)-N(1)-Si(1)	-22.79(15)
C(1)-Zr(1)-N(1)-Si(1)	170.3(3)
Si(1)-N(1)-C(1)-N(2)	-156.6(3)
Zr(1)-N(1)-C(1)-N(2)	7.6(2)
Si(1)-N(1)-C(1)-C(5)	24.0(5)
Zr(1)-N(1)-C(1)-C(5)	-171.9(2)
Si(1)-N(1)-C(1)-Zr(1)	-164.2(4)
C(30)-Zr(1)-C(1)-N(1)	-112.42(18)
C(31)-Zr(1)-C(1)-N(1)	139.77(18)
C(34)-Zr(1)-C(1)-N(1)	7.21(18)
C(35)-Zr(1)-C(1)-N(1)	37.08(19)
C(38)-Zr(1)-C(1)-N(1)	-22.07(19)
N(2)-Zr(1)-C(1)-N(1)	172.0(3)
C(36)-Zr(1)-C(1)-N(1)	36.1(2)
C(37)-Zr(1)-C(1)-N(1)	-20.1(2)
Si(1)-Zr(1)-C(1)-N(1)	5.81(15)
N(1)-Zr(1)-C(1)-N(2)	-172.0(3)
C(30)-Zr(1)-C(1)-N(2)	75.53(15)
C(31)-Zr(1)-C(1)-N(2)	-32.28(16)
C(34)-Zr(1)-C(1)-N(2)	-164.84(14)
C(35)-Zr(1)-C(1)-N(2)	-134.96(14)
C(38)-Zr(1)-C(1)-N(2)	165.88(13)
C(36)-Zr(1)-C(1)-N(2)	-135.96(15)

C(37)-Zr(1)-C(1)-N(2)	167.82(14)
Si(1)-Zr(1)-C(1)-N(2)	-166.24(16)
N(1)-Zr(1)-C(1)-C(5)	54.3(13)
C(30)-Zr(1)-C(1)-C(5)	-58.1(14)
C(31)-Zr(1)-C(1)-C(5)	-166.0(14)
C(34)-Zr(1)-C(1)-C(5)	61.5(14)
C(35)-Zr(1)-C(1)-C(5)	91.4(14)
C(38)-Zr(1)-C(1)-C(5)	32.2(14)
N(2)-Zr(1)-C(1)-C(5)	-133.7(14)
C(36)-Zr(1)-C(1)-C(5)	90.4(14)
C(37)-Zr(1)-C(1)-C(5)	34.1(14)
Si(1)-Zr(1)-C(1)-C(5)	60.1(14)
N(1)-C(1)-N(2)-C(2)	177.2(2)
C(5)-C(1)-N(2)-C(2)	-3.3(4)
Zr(1)-C(1)-N(2)-C(2)	-176.6(2)
N(1)-C(1)-N(2)-Zr(1)	-6.2(2)
C(5)-C(1)-N(2)-Zr(1)	173.2(2)
N(1)-Zr(1)-N(2)-C(2)	177.7(4)
C(30)-Zr(1)-N(2)-C(2)	66.7(4)
C(31)-Zr(1)-N(2)-C(2)	-36.0(4)
C(34)-Zr(1)-N(2)-C(2)	-168.8(3)
C(35)-Zr(1)-N(2)-C(2)	-128.0(3)
C(38)-Zr(1)-N(2)-C(2)	152.8(3)
C(36)-Zr(1)-N(2)-C(2)	-94.0(4)
C(37)-Zr(1)-N(2)-C(2)	124.3(5)
C(1)-Zr(1)-N(2)-C(2)	173.3(4)
Si(1)-Zr(1)-N(2)-C(2)	-175.0(4)
N(1)-Zr(1)-N(2)-C(1)	4.42(14)
C(30)-Zr(1)-N(2)-C(1)	-106.57(15)
C(31)-Zr(1)-N(2)-C(1)	150.74(15)
C(34)-Zr(1)-N(2)-C(1)	17.94(17)
C(35)-Zr(1)-N(2)-C(1)	58.70(17)
C(38)-Zr(1)-N(2)-C(1)	-20.49(19)

C(36)-Zr(1)-N(2)-C(1)	92.7(2)
C(37)-Zr(1)-N(2)-C(1)	-49.0(5)
Si(1)-Zr(1)-N(2)-C(1)	11.68(13)
C(1)-N(2)-C(2)-C(3)	4.2(3)
Zr(1)-N(2)-C(2)-C(3)	-168.1(3)
C(1)-N(2)-C(2)-C(6)	-173.4(2)
Zr(1)-N(2)-C(2)-C(6)	14.2(5)
N(2)-C(2)-C(3)-C(4)	-2.5(4)
C(6)-C(2)-C(3)-C(4)	175.1(2)
C(2)-C(3)-C(4)-C(5)	-0.2(4)
C(3)-C(4)-C(5)-C(1)	1.0(4)
N(1)-C(1)-C(5)-C(4)	-179.9(2)
N(2)-C(1)-C(5)-C(4)	0.7(4)
Zr(1)-C(1)-C(5)-C(4)	131.1(13)
N(2)-C(2)-C(6)-C(11)	-56.1(3)
C(3)-C(2)-C(6)-C(11)	126.2(3)
N(2)-C(2)-C(6)-C(7)	125.6(2)
C(3)-C(2)-C(6)-C(7)	-52.1(3)
C(11)-C(6)-C(7)-C(8)	0.3(4)
C(2)-C(6)-C(7)-C(8)	178.6(2)
C(11)-C(6)-C(7)-B(1)	172.7(2)
C(2)-C(6)-C(7)-B(1)	-9.1(4)
C(12)-B(1)-C(7)-C(8)	138.0(3)
C(21)-B(1)-C(7)-C(8)	-36.7(3)
C(12)-B(1)-C(7)-C(6)	-34.3(4)
C(21)-B(1)-C(7)-C(6)	151.0(2)
C(6)-C(7)-C(8)-C(9)	1.5(4)
B(1)-C(7)-C(8)-C(9)	-171.6(2)
C(7)-C(8)-C(9)-C(10)	-2.5(4)
C(8)-C(9)-C(10)-C(11)	1.5(4)
C(9)-C(10)-C(11)-C(6)	0.3(4)
C(7)-C(6)-C(11)-C(10)	-1.3(4)
C(2)-C(6)-C(11)-C(10)	-179.6(2)

C(21)-B(1)-C(12)-C(17)	-55.1(3)
C(7)-B(1)-C(12)-C(17)	130.4(3)
C(21)-B(1)-C(12)-C(13)	122.1(3)
C(7)-B(1)-C(12)-C(13)	-52.5(3)
C(17)-C(12)-C(13)-C(14)	-0.7(3)
B(1)-C(12)-C(13)-C(14)	-178.0(2)
C(17)-C(12)-C(13)-C(18)	175.5(2)
B(1)-C(12)-C(13)-C(18)	-1.7(3)
C(12)-C(13)-C(14)-C(15)	-1.0(4)
C(18)-C(13)-C(14)-C(15)	-177.3(2)
C(13)-C(14)-C(15)-C(16)	0.9(4)
C(13)-C(14)-C(15)-C(19)	179.4(2)
C(14)-C(15)-C(16)-C(17)	1.0(4)
C(19)-C(15)-C(16)-C(17)	-177.6(2)
C(15)-C(16)-C(17)-C(12)	-2.7(4)
C(15)-C(16)-C(17)-C(20)	177.6(2)
C(13)-C(12)-C(17)-C(16)	2.5(3)
B(1)-C(12)-C(17)-C(16)	179.7(2)
C(13)-C(12)-C(17)-C(20)	-177.8(2)
B(1)-C(12)-C(17)-C(20)	-0.6(4)
C(12)-B(1)-C(21)-C(26)	-48.0(4)
C(7)-B(1)-C(21)-C(26)	126.7(3)
C(12)-B(1)-C(21)-C(22)	132.9(3)
C(7)-B(1)-C(21)-C(22)	-52.4(3)
C(26)-C(21)-C(22)-C(23)	-0.2(4)
B(1)-C(21)-C(22)-C(23)	179.0(2)
C(26)-C(21)-C(22)-C(27)	175.2(2)
B(1)-C(21)-C(22)-C(27)	-5.6(4)
C(21)-C(22)-C(23)-C(24)	-0.5(4)
C(27)-C(22)-C(23)-C(24)	-176.2(2)
C(22)-C(23)-C(24)-C(25)	0.4(4)
C(22)-C(23)-C(24)-C(28)	178.8(2)
C(23)-C(24)-C(25)-C(26)	0.4(4)

C(28)-C(24)-C(25)-C(26)	-178.0(2)
C(24)-C(25)-C(26)-C(21)	-1.1(4)
C(24)-C(25)-C(26)-C(29)	-179.2(3)
C(22)-C(21)-C(26)-C(25)	1.0(4)
B(1)-C(21)-C(26)-C(25)	-178.2(2)
C(22)-C(21)-C(26)-C(29)	178.9(2)
B(1)-C(21)-C(26)-C(29)	-0.2(4)
N(1)-Si(1)-C(34)-C(35)	-73.7(2)
C(33)-Si(1)-C(34)-C(35)	166.3(2)
C(32)-Si(1)-C(34)-C(35)	41.9(3)
Zr(1)-Si(1)-C(34)-C(35)	-71.8(2)
N(1)-Si(1)-C(34)-C(38)	71.7(2)
C(33)-Si(1)-C(34)-C(38)	-48.3(2)
C(32)-Si(1)-C(34)-C(38)	-172.8(2)
Zr(1)-Si(1)-C(34)-C(38)	73.54(19)
N(1)-Si(1)-C(34)-Zr(1)	-1.88(10)
C(33)-Si(1)-C(34)-Zr(1)	-121.89(12)
C(32)-Si(1)-C(34)-Zr(1)	113.68(13)
N(1)-Zr(1)-C(34)-C(35)	126.63(16)
C(30)-Zr(1)-C(34)-C(35)	-135.18(15)
C(31)-Zr(1)-C(34)-C(35)	-0.75(19)
C(38)-Zr(1)-C(34)-C(35)	-112.2(2)
N(2)-Zr(1)-C(34)-C(35)	114.45(15)
C(36)-Zr(1)-C(34)-C(35)	-36.66(14)
C(37)-Zr(1)-C(34)-C(35)	-76.12(16)
C(1)-Zr(1)-C(34)-C(35)	123.01(15)
Si(1)-Zr(1)-C(34)-C(35)	125.01(18)
N(1)-Zr(1)-C(34)-C(38)	-121.19(17)
C(30)-Zr(1)-C(34)-C(38)	-23.01(19)
C(31)-Zr(1)-C(34)-C(38)	111.43(16)
C(35)-Zr(1)-C(34)-C(38)	112.2(2)
N(2)-Zr(1)-C(34)-C(38)	-133.38(15)
C(36)-Zr(1)-C(34)-C(38)	75.52(16)

C(37)-Zr(1)-C(34)-C(38)	36.05(14)
C(1)-Zr(1)-C(34)-C(38)	-124.82(15)
Si(1)-Zr(1)-C(34)-C(38)	-122.81(19)
N(1)-Zr(1)-C(34)-Si(1)	1.62(9)
C(30)-Zr(1)-C(34)-Si(1)	99.81(12)
C(31)-Zr(1)-C(34)-Si(1)	-125.76(11)
C(35)-Zr(1)-C(34)-Si(1)	-125.01(18)
C(38)-Zr(1)-C(34)-Si(1)	122.81(19)
N(2)-Zr(1)-C(34)-Si(1)	-10.56(13)
C(36)-Zr(1)-C(34)-Si(1)	-161.67(13)
C(37)-Zr(1)-C(34)-Si(1)	158.86(13)
C(1)-Zr(1)-C(34)-Si(1)	-2.01(10)
C(38)-C(34)-C(35)-C(36)	1.2(3)
Si(1)-C(34)-C(35)-C(36)	151.19(19)
Zr(1)-C(34)-C(35)-C(36)	69.60(18)
C(38)-C(34)-C(35)-C(39)	-179.4(2)
Si(1)-C(34)-C(35)-C(39)	-29.5(4)
Zr(1)-C(34)-C(35)-C(39)	-111.1(3)
C(38)-C(34)-C(35)-Zr(1)	-68.38(17)
Si(1)-C(34)-C(35)-Zr(1)	81.59(18)
N(1)-Zr(1)-C(35)-C(36)	-162.67(15)
C(30)-Zr(1)-C(35)-C(36)	-47.4(2)
C(31)-Zr(1)-C(35)-C(36)	64.40(15)
C(34)-Zr(1)-C(35)-C(36)	-115.0(2)
C(38)-Zr(1)-C(35)-C(36)	-76.18(15)
N(2)-Zr(1)-C(35)-C(36)	154.84(13)
C(37)-Zr(1)-C(35)-C(36)	-36.22(14)
C(1)-Zr(1)-C(35)-C(36)	-178.92(14)
Si(1)-Zr(1)-C(35)-C(36)	-148.71(16)
N(1)-Zr(1)-C(35)-C(34)	-47.67(15)
C(30)-Zr(1)-C(35)-C(34)	67.6(2)
C(31)-Zr(1)-C(35)-C(34)	179.39(15)
C(38)-Zr(1)-C(35)-C(34)	38.82(14)

N(2)-Zr(1)-C(35)-C(34)	-90.16(16)
C(36)-Zr(1)-C(35)-C(34)	115.0(2)
C(37)-Zr(1)-C(35)-C(34)	78.78(16)
C(1)-Zr(1)-C(35)-C(34)	-63.92(16)
Si(1)-Zr(1)-C(35)-C(34)	-33.71(13)
N(1)-Zr(1)-C(35)-C(39)	75.9(2)
C(30)-Zr(1)-C(35)-C(39)	-168.93(19)
C(31)-Zr(1)-C(35)-C(39)	-57.1(2)
C(34)-Zr(1)-C(35)-C(39)	123.5(3)
C(38)-Zr(1)-C(35)-C(39)	162.3(2)
N(2)-Zr(1)-C(35)-C(39)	33.4(2)
C(36)-Zr(1)-C(35)-C(39)	-121.5(3)
C(37)-Zr(1)-C(35)-C(39)	-157.7(2)
C(1)-Zr(1)-C(35)-C(39)	59.6(2)
Si(1)-Zr(1)-C(35)-C(39)	89.8(2)
C(34)-C(35)-C(36)-C(37)	-1.5(3)
C(39)-C(35)-C(36)-C(37)	179.2(2)
Zr(1)-C(35)-C(36)-C(37)	65.06(18)
C(34)-C(35)-C(36)-C(40)	171.9(2)
C(39)-C(35)-C(36)-C(40)	-7.4(4)
Zr(1)-C(35)-C(36)-C(40)	-121.5(3)
C(34)-C(35)-C(36)-Zr(1)	-66.54(18)
C(39)-C(35)-C(36)-Zr(1)	114.1(2)
N(1)-Zr(1)-C(36)-C(37)	-95.78(16)
C(30)-Zr(1)-C(36)-C(37)	31.87(18)
C(31)-Zr(1)-C(36)-C(37)	131.01(16)
C(34)-Zr(1)-C(36)-C(37)	-78.02(16)
C(35)-Zr(1)-C(36)-C(37)	-115.8(2)
C(38)-Zr(1)-C(36)-C(37)	-36.47(14)
N(2)-Zr(1)-C(36)-C(37)	-169.04(17)
C(1)-Zr(1)-C(36)-C(37)	-114.13(17)
Si(1)-Zr(1)-C(36)-C(37)	-88.78(15)
N(1)-Zr(1)-C(36)-C(35)	20.07(17)

C(30)-Zr(1)-C(36)-C(35)	147.71(15)
C(31)-Zr(1)-C(36)-C(35)	-113.15(16)
C(34)-Zr(1)-C(36)-C(35)	37.82(14)
C(38)-Zr(1)-C(36)-C(35)	79.38(16)
N(2)-Zr(1)-C(36)-C(35)	-53.2(3)
C(37)-Zr(1)-C(36)-C(35)	115.8(2)
C(1)-Zr(1)-C(36)-C(35)	1.7(2)
Si(1)-Zr(1)-C(36)-C(35)	27.06(14)
N(1)-Zr(1)-C(36)-C(40)	142.25(19)
C(30)-Zr(1)-C(36)-C(40)	-90.1(2)
C(31)-Zr(1)-C(36)-C(40)	9.0(2)
C(34)-Zr(1)-C(36)-C(40)	160.0(2)
C(35)-Zr(1)-C(36)-C(40)	122.2(3)
C(38)-Zr(1)-C(36)-C(40)	-158.4(2)
N(2)-Zr(1)-C(36)-C(40)	69.0(3)
C(37)-Zr(1)-C(36)-C(40)	-122.0(3)
C(1)-Zr(1)-C(36)-C(40)	123.9(2)
Si(1)-Zr(1)-C(36)-C(40)	149.2(2)
C(35)-C(36)-C(37)-C(38)	1.2(3)
C(40)-C(36)-C(37)-C(38)	-172.5(2)
Zr(1)-C(36)-C(37)-C(38)	63.55(18)
C(35)-C(36)-C(37)-C(41)	177.6(2)
C(40)-C(36)-C(37)-C(41)	4.0(4)
Zr(1)-C(36)-C(37)-C(41)	-120.0(2)
C(35)-C(36)-C(37)-Zr(1)	-62.39(17)
C(40)-C(36)-C(37)-Zr(1)	124.0(3)
N(1)-Zr(1)-C(37)-C(38)	-13.77(17)
C(30)-Zr(1)-C(37)-C(38)	93.26(16)
C(31)-Zr(1)-C(37)-C(38)	-164.75(15)
C(34)-Zr(1)-C(37)-C(38)	-37.53(14)
C(35)-Zr(1)-C(37)-C(38)	-79.21(16)
N(2)-Zr(1)-C(37)-C(38)	35.3(5)
C(36)-Zr(1)-C(37)-C(38)	-116.1(2)

C(1)-Zr(1)-C(37)-C(38)	-3.4(2)
Si(1)-Zr(1)-C(37)-C(38)	-25.17(14)
N(1)-Zr(1)-C(37)-C(36)	102.33(16)
C(30)-Zr(1)-C(37)-C(36)	-150.65(17)
C(31)-Zr(1)-C(37)-C(36)	-48.65(16)
C(34)-Zr(1)-C(37)-C(36)	78.57(16)
C(35)-Zr(1)-C(37)-C(36)	36.89(15)
C(38)-Zr(1)-C(37)-C(36)	116.1(2)
N(2)-Zr(1)-C(37)-C(36)	151.4(4)
C(1)-Zr(1)-C(37)-C(36)	112.73(17)
Si(1)-Zr(1)-C(37)-C(36)	90.93(15)
N(1)-Zr(1)-C(37)-C(41)	-136.0(2)
C(30)-Zr(1)-C(37)-C(41)	-29.0(2)
C(31)-Zr(1)-C(37)-C(41)	73.0(2)
C(34)-Zr(1)-C(37)-C(41)	-159.8(3)
C(35)-Zr(1)-C(37)-C(41)	158.5(3)
C(38)-Zr(1)-C(37)-C(41)	-122.3(3)
N(2)-Zr(1)-C(37)-C(41)	-86.9(5)
C(36)-Zr(1)-C(37)-C(41)	121.6(3)
C(1)-Zr(1)-C(37)-C(41)	-125.6(2)
Si(1)-Zr(1)-C(37)-C(41)	-147.4(2)
C(36)-C(37)-C(38)-C(34)	-0.4(3)
C(41)-C(37)-C(38)-C(34)	-176.8(2)
Zr(1)-C(37)-C(38)-C(34)	64.91(17)
C(36)-C(37)-C(38)-C(42)	179.2(2)
C(41)-C(37)-C(38)-C(42)	2.8(4)
Zr(1)-C(37)-C(38)-C(42)	-115.5(3)
C(36)-C(37)-C(38)-Zr(1)	-65.32(18)
C(41)-C(37)-C(38)-Zr(1)	118.3(3)
C(35)-C(34)-C(38)-C(37)	-0.5(3)
Si(1)-C(34)-C(38)-C(37)	-151.19(19)
Zr(1)-C(34)-C(38)-C(37)	-68.04(18)
C(35)-C(34)-C(38)-C(42)	179.9(2)

Si(1)-C(34)-C(38)-C(42)	29.2(4)
Zr(1)-C(34)-C(38)-C(42)	112.4(2)
C(35)-C(34)-C(38)-Zr(1)	67.54(17)
Si(1)-C(34)-C(38)-Zr(1)	-83.15(17)
N(1)-Zr(1)-C(38)-C(37)	167.83(15)
C(30)-Zr(1)-C(38)-C(37)	-84.42(15)
C(31)-Zr(1)-C(38)-C(37)	19.98(19)
C(34)-Zr(1)-C(38)-C(37)	115.7(2)
C(35)-Zr(1)-C(38)-C(37)	76.76(16)
N(2)-Zr(1)-C(38)-C(37)	-171.61(13)
C(36)-Zr(1)-C(38)-C(37)	36.25(14)
C(1)-Zr(1)-C(38)-C(37)	177.89(13)
Si(1)-Zr(1)-C(38)-C(37)	150.72(16)
N(1)-Zr(1)-C(38)-C(34)	52.13(16)
C(30)-Zr(1)-C(38)-C(34)	159.88(17)
C(31)-Zr(1)-C(38)-C(34)	-95.72(18)
C(35)-Zr(1)-C(38)-C(34)	-38.94(15)
N(2)-Zr(1)-C(38)-C(34)	72.69(18)
C(36)-Zr(1)-C(38)-C(34)	-79.45(16)
C(37)-Zr(1)-C(38)-C(34)	-115.7(2)
C(1)-Zr(1)-C(38)-C(34)	62.19(16)
Si(1)-Zr(1)-C(38)-C(34)	35.02(13)
N(1)-Zr(1)-C(38)-C(42)	-69.4(2)
C(30)-Zr(1)-C(38)-C(42)	38.3(2)
C(31)-Zr(1)-C(38)-C(42)	142.73(19)
C(34)-Zr(1)-C(38)-C(42)	-121.5(3)
C(35)-Zr(1)-C(38)-C(42)	-160.5(2)
N(2)-Zr(1)-C(38)-C(42)	-48.9(2)
C(36)-Zr(1)-C(38)-C(42)	159.0(2)
C(37)-Zr(1)-C(38)-C(42)	122.8(3)
C(1)-Zr(1)-C(38)-C(42)	-59.4(2)
Si(1)-Zr(1)-C(38)-C(42)	-86.53(19)

Table S7. Crystal data and structure refinement for **L'Zr(Bn)₂**.

Empirical formula	C ₅₄ H ₆₁ BN ₂ SiZr
Formula weight	868.17
Temperature	110(2) K
Wavelength	0.71073 Å
Crystal system, space group	Monoclinic, P 2 ₁ /c
Unit cell dimensions	a = 27.914(2) Å α = 90°. b = 16.0147(9) Å β = 95.322(4)°. c = 10.2151(7) Å γ = 90°.
Volume	4546.8(5) Å ³
Z, Calculated density	4, 1.268 mg/m ³
Absorption coefficient	0.307 mm ⁻¹
F(000)	1832
Crystal size	0.15 x 0.15 x 0.08 mm
Theta range for data collection	1.47 to 25.06°.
Limiting indices	-31 ≤ h ≤ 33, -17 ≤ k ≤ 19, -12 ≤ l ≤ 11
Reflections collected / unique	29530 / 8047 [R(int) = 0.1167]
Completeness to theta = 25.06	99.7 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.7452 and 0.6702
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	8047 / 36 / 544
Goodness-of-fit on F ²	1.061
Final R indices [I > 2σ (I)]	R1 = 0.0651, wR2 = 0.1143
R indices (all data)	R1 = 0.2007, wR2 = 0.1337
Largest diff. peak and hole	0.901 and -0.892 e.Å ⁻³

Table S8. Atomic coordinates ($\times 10^4$) and equivalent isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for **L'Zr(Bn)₂**. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	U(eq)
Zr(1)	1541(1)	4517(1)	760(1)	36(1)
Si(1)	2139(1)	4165(1)	3380(2)	65(1)
B(1)	3730(3)	5749(4)	-1719(7)	41(2)
N(1)	2169(2)	4766(3)	1973(4)	45(2)
N(2)	2514(2)	5560(3)	397(4)	28(1)
C(1)	2540(3)	5278(3)	1654(5)	36(2)
C(2)	2880(2)	6031(3)	19(5)	28(2)
C(3)	3266(3)	6253(3)	869(6)	47(2)
C(4)	3300(3)	5968(4)	2164(7)	65(2)
C(5)	2932(3)	5485(5)	2551(6)	65(2)
C(6)	2851(2)	6307(3)	-1373(5)	28(2)
C(7)	3240(2)	6224(3)	-2144(5)	34(2)
C(8)	3171(2)	6509(3)	-3440(6)	44(2)
C(9)	2748(2)	6865(3)	-3976(6)	42(2)
C(10)	2375(2)	6958(3)	-3193(6)	36(2)
C(11)	2429(2)	6690(3)	-1900(5)	30(2)
C(12)	4186(3)	6095(4)	-2321(7)	56(2)
C(13)	4441(3)	5636(6)	-3141(9)	91(3)
C(14)	4818(3)	6000(8)	-3777(9)	123(4)
C(15)	4950(4)	6786(7)	-3581(10)	109(4)
C(16)	4733(3)	7272(5)	-2724(8)	81(3)
C(17)	4340(3)	6933(5)	-2100(8)	70(2)
C(18)	4313(4)	4725(6)	-3397(10)	149(5)
C(19)	5348(4)	7225(6)	-4313(9)	138(4)
C(20)	4109(3)	7489(4)	-1146(9)	90(3)
C(21)	3738(2)	4923(3)	-904(6)	40(2)
C(22)	4084(2)	4782(3)	186(6)	42(2)
C(23)	4080(2)	4055(4)	925(6)	40(2)

C(24)	3745(3)	3442(3)	629(6)	40(2)
C(25)	3410(2)	3549(3)	-456(6)	38(2)
C(26)	3399(2)	4276(3)	-1215(5)	33(2)
C(27)	4452(2)	5445(4)	646(7)	64(2)
C(28)	3728(3)	2650(3)	1441(6)	55(2)
C(29)	3024(2)	4330(3)	-2378(5)	37(2)
C(30)	2656(3)	3430(5)	3694(7)	100(3)
C(31)	2110(3)	4800(4)	4906(5)	66(2)
C(32)	1564(3)	3660(4)	2732(5)	45(2)
C(33)	1518(3)	3081(3)	1648(6)	50(2)
C(34)	1068(3)	3136(3)	1009(6)	53(2)
C(35)	814(3)	3777(3)	1626(6)	51(2)
C(36)	1112(3)	4075(3)	2704(6)	42(2)
C(37)	1920(3)	2492(4)	1296(7)	106(4)
C(38)	842(3)	2545(3)	-34(6)	98(4)
C(39)	311(3)	4020(4)	1252(6)	67(3)
C(40)	952(2)	4670(3)	3743(5)	36(2)
C(41)	1177(2)	5791(3)	592(5)	29(2)
C(42)	1045(2)	6282(3)	1745(5)	25(2)
C(43)	1396(2)	6598(3)	2673(5)	26(2)
C(44)	1275(2)	7036(3)	3770(5)	34(2)
C(45)	799(3)	7179(3)	3965(5)	35(2)
C(46)	447(2)	6880(3)	3062(5)	33(2)
C(47)	565(2)	6443(3)	1965(5)	29(2)
C(48)	1729(3)	3907(3)	-1123(5)	51(2)
C(49)	1385(2)	4444(3)	-1907(5)	33(2)
C(50)	1519(3)	5261(3)	-2241(5)	38(2)
C(51)	1196(3)	5799(4)	-2877(5)	39(2)
C(52)	723(3)	5561(4)	-3191(5)	47(2)
C(53)	577(3)	4768(4)	-2873(6)	57(2)
C(54)	898(3)	4239(4)	-2226(6)	46(2)

Table S9. Bond lengths [Å] and angles [°] for **L'Zr(Bn)₂**.

Zr(1)-N(1)	2.089(6)
Zr(1)-C(48)	2.262(5)
Zr(1)-C(41)	2.279(5)
Zr(1)-C(32)	2.433(5)
Zr(1)-C(33)	2.474(5)
Zr(1)-C(36)	2.514(5)
Zr(1)-C(35)	2.577(7)
Zr(1)-C(34)	2.600(6)
Zr(1)-C(49)	2.722(5)
Zr(1)-Si(1)	3.071(2)
Si(1)-N(1)	1.738(4)
Si(1)-C(32)	1.862(7)
Si(1)-C(30)	1.867(7)
Si(1)-C(31)	1.869(6)
B(1)-C(21)	1.562(8)
B(1)-C(12)	1.565(9)
B(1)-C(7)	1.588(9)
N(1)-C(1)	1.384(7)
N(2)-C(2)	1.355(7)
N(2)-C(1)	1.357(6)
C(1)-C(5)	1.401(9)
C(2)-C(3)	1.367(8)
C(2)-C(6)	1.484(7)
C(3)-C(4)	1.395(8)
C(3)-H(3)	0.9500
C(4)-C(5)	1.370(9)
C(4)-H(4)	0.9500
C(5)-H(5)	0.9500
C(6)-C(11)	1.392(8)
C(6)-C(7)	1.407(7)
C(7)-C(8)	1.397(7)
C(8)-C(9)	1.379(8)

C(8)-H(8)	0.9500
C(9)-C(10)	1.378(7)
C(9)-H(9)	0.9500
C(10)-C(11)	1.384(7)
C(10)-H(10)	0.9500
C(11)-H(11)	0.9500
C(12)-C(13)	1.365(10)
C(12)-C(17)	1.421(10)
C(13)-C(14)	1.411(10)
C(13)-C(18)	1.518(11)
C(14)-C(15)	1.321(12)
C(14)-H(14)	0.9500
C(15)-C(16)	1.356(12)
C(15)-C(19)	1.563(11)
C(16)-C(17)	1.426(9)
C(16)-H(16)	0.9500
C(17)-C(20)	1.508(10)
C(18)-H(18A)	0.9800
C(18)-H(18B)	0.9800
C(18)-H(18C)	0.9800
C(19)-H(19A)	0.9800
C(19)-H(19B)	0.9800
C(19)-H(19C)	0.9800
C(20)-H(20A)	0.9800
C(20)-H(20B)	0.9800
C(20)-H(20C)	0.9800
C(21)-C(26)	1.419(8)
C(21)-C(22)	1.423(8)
C(22)-C(23)	1.389(7)
C(22)-C(27)	1.520(8)
C(23)-C(24)	1.370(8)
C(23)-H(23)	0.9500
C(24)-C(25)	1.392(8)

C(24)-C(28)	1.519(7)
C(25)-C(26)	1.397(7)
C(25)-H(25)	0.9500
C(26)-C(29)	1.512(8)
C(27)-H(27A)	0.9800
C(27)-H(27B)	0.9800
C(27)-H(27C)	0.9800
C(28)-H(28A)	0.9800
C(28)-H(28B)	0.9800
C(28)-H(28C)	0.9800
C(29)-H(29A)	0.9800
C(29)-H(29B)	0.9800
C(29)-H(29C)	0.9800
C(30)-H(30A)	0.9800
C(30)-H(30B)	0.9800
C(30)-H(30C)	0.9800
C(31)-H(31A)	0.9800
C(31)-H(31B)	0.9800
C(31)-H(31C)	0.9800
C(32)-C(36)	1.425(8)
C(32)-C(33)	1.441(8)
C(33)-C(34)	1.365(9)
C(33)-C(37)	1.533(9)
C(34)-C(35)	1.426(8)
C(34)-C(38)	1.519(9)
C(35)-C(36)	1.401(9)
C(35)-C(39)	1.472(9)
C(36)-C(40)	1.524(7)
C(37)-H(37A)	0.9800
C(37)-H(37B)	0.9800
C(37)-H(37C)	0.9800
C(38)-H(38A)	0.9800
C(38)-H(38B)	0.9800

C(38)-H(38C)	0.9800
C(39)-H(39A)	0.9800
C(39)-H(39B)	0.9800
C(39)-H(39C)	0.9800
C(40)-H(40A)	0.9800
C(40)-H(40B)	0.9800
C(40)-H(40C)	0.9800
C(41)-C(42)	1.490(6)
C(41)-H(41A)	0.9900
C(41)-H(41B)	0.9900
C(42)-C(43)	1.394(7)
C(42)-C(47)	1.403(7)
C(43)-C(44)	1.391(6)
C(43)-H(43)	0.9500
C(44)-C(45)	1.380(8)
C(44)-H(44)	0.9500
C(45)-C(46)	1.370(8)
C(45)-H(45)	0.9500
C(46)-C(47)	1.387(6)
C(46)-H(46)	0.9500
C(47)-H(47)	0.9500
C(48)-C(49)	1.471(8)
C(48)-H(48A)	0.9900
C(48)-H(48B)	0.9900
C(49)-C(54)	1.406(8)
C(49)-C(50)	1.413(7)
C(50)-C(51)	1.367(8)
C(50)-H(50)	0.9500
C(51)-C(52)	1.384(8)
C(51)-H(51)	0.9500
C(52)-C(53)	1.382(8)
C(52)-H(52)	0.9500
C(53)-C(54)	1.360(9)

C(53)-H(53)	0.9500
C(54)-H(54)	0.9500
N(1)-Zr(1)-C(48)	109.8(2)
N(1)-Zr(1)-C(41)	102.59(19)
C(48)-Zr(1)-C(41)	117.38(19)
N(1)-Zr(1)-C(32)	70.1(2)
C(48)-Zr(1)-C(32)	118.0(2)
C(41)-Zr(1)-C(32)	123.00(18)
N(1)-Zr(1)-C(33)	90.5(2)
C(48)-Zr(1)-C(33)	85.78(19)
C(41)-Zr(1)-C(33)	146.40(19)
C(32)-Zr(1)-C(33)	34.13(19)
N(1)-Zr(1)-C(36)	91.2(2)
C(48)-Zr(1)-C(36)	135.66(19)
C(41)-Zr(1)-C(36)	93.99(17)
C(32)-Zr(1)-C(36)	33.43(19)
C(33)-Zr(1)-C(36)	54.45(17)
N(1)-Zr(1)-C(35)	121.9(2)
C(48)-Zr(1)-C(35)	110.2(2)
C(41)-Zr(1)-C(35)	94.4(2)
C(32)-Zr(1)-C(35)	54.4(2)
C(33)-Zr(1)-C(35)	53.1(2)
C(36)-Zr(1)-C(35)	31.9(2)
N(1)-Zr(1)-C(34)	120.7(2)
C(48)-Zr(1)-C(34)	82.90(18)
C(41)-Zr(1)-C(34)	122.8(2)
C(32)-Zr(1)-C(34)	54.1(2)
C(33)-Zr(1)-C(34)	31.1(2)
C(36)-Zr(1)-C(34)	53.10(19)
C(35)-Zr(1)-C(34)	31.98(18)
N(1)-Zr(1)-C(49)	130.51(18)
C(48)-Zr(1)-C(49)	32.71(19)

C(41)-Zr(1)-C(49)	86.23(17)
C(32)-Zr(1)-C(49)	142.56(19)
C(33)-Zr(1)-C(49)	108.65(19)
C(36)-Zr(1)-C(49)	137.3(2)
C(35)-Zr(1)-C(49)	105.4(2)
C(34)-Zr(1)-C(49)	91.47(19)
N(1)-Zr(1)-Si(1)	32.88(12)
C(48)-Zr(1)-Si(1)	120.76(19)
C(41)-Zr(1)-Si(1)	115.60(14)
C(32)-Zr(1)-Si(1)	37.32(17)
C(33)-Zr(1)-Si(1)	62.7(2)
C(36)-Zr(1)-Si(1)	61.35(19)
C(35)-Zr(1)-Si(1)	89.9(2)
C(34)-Zr(1)-Si(1)	89.93(19)
C(49)-Zr(1)-Si(1)	152.63(14)
N(1)-Si(1)-C(32)	93.0(3)
N(1)-Si(1)-C(30)	113.3(3)
C(32)-Si(1)-C(30)	114.4(4)
N(1)-Si(1)-C(31)	113.5(3)
C(32)-Si(1)-C(31)	115.5(3)
C(30)-Si(1)-C(31)	107.0(3)
N(1)-Si(1)-Zr(1)	40.7(2)
C(32)-Si(1)-Zr(1)	52.40(16)
C(30)-Si(1)-Zr(1)	127.9(2)
C(31)-Si(1)-Zr(1)	124.4(2)
C(21)-B(1)-C(12)	122.5(6)
C(21)-B(1)-C(7)	121.4(5)
C(12)-B(1)-C(7)	115.7(5)
C(1)-N(1)-Si(1)	128.1(5)
C(1)-N(1)-Zr(1)	125.4(4)
Si(1)-N(1)-Zr(1)	106.4(3)
C(2)-N(2)-C(1)	118.6(5)
N(2)-C(1)-N(1)	116.3(6)

N(2)-C(1)-C(5)	120.7(6)
N(1)-C(1)-C(5)	122.9(6)
N(2)-C(2)-C(3)	122.3(5)
N(2)-C(2)-C(6)	117.6(5)
C(3)-C(2)-C(6)	120.1(6)
C(2)-C(3)-C(4)	119.8(6)
C(2)-C(3)-H(3)	120.1
C(4)-C(3)-H(3)	120.1
C(5)-C(4)-C(3)	118.2(7)
C(5)-C(4)-H(4)	120.9
C(3)-C(4)-H(4)	120.9
C(4)-C(5)-C(1)	120.3(6)
C(4)-C(5)-H(5)	119.8
C(1)-C(5)-H(5)	119.8
C(11)-C(6)-C(7)	119.7(5)
C(11)-C(6)-C(2)	118.1(5)
C(7)-C(6)-C(2)	122.1(6)
C(8)-C(7)-C(6)	116.9(6)
C(8)-C(7)-B(1)	117.1(5)
C(6)-C(7)-B(1)	125.6(5)
C(9)-C(8)-C(7)	123.4(6)
C(9)-C(8)-H(8)	118.3
C(7)-C(8)-H(8)	118.3
C(10)-C(9)-C(8)	118.7(5)
C(10)-C(9)-H(9)	120.7
C(8)-C(9)-H(9)	120.7
C(9)-C(10)-C(11)	119.9(6)
C(9)-C(10)-H(10)	120.0
C(11)-C(10)-H(10)	120.0
C(10)-C(11)-C(6)	121.3(5)
C(10)-C(11)-H(11)	119.4
C(6)-C(11)-H(11)	119.4
C(13)-C(12)-C(17)	116.0(7)

C(13)-C(12)-B(1)	122.8(7)
C(17)-C(12)-B(1)	121.1(7)
C(12)-C(13)-C(14)	120.9(9)
C(12)-C(13)-C(18)	119.6(6)
C(14)-C(13)-C(18)	119.5(9)
C(15)-C(14)-C(13)	122.2(10)
C(15)-C(14)-H(14)	118.9
C(13)-C(14)-H(14)	118.9
C(14)-C(15)-C(16)	120.6(9)
C(14)-C(15)-C(19)	123.8(11)
C(16)-C(15)-C(19)	115.5(10)
C(15)-C(16)-C(17)	118.6(9)
C(15)-C(16)-H(16)	120.7
C(17)-C(16)-H(16)	120.7
C(12)-C(17)-C(16)	121.5(8)
C(12)-C(17)-C(20)	121.3(6)
C(16)-C(17)-C(20)	117.2(8)
C(13)-C(18)-H(18A)	109.5
C(13)-C(18)-H(18B)	109.5
H(18A)-C(18)-H(18B)	109.5
C(13)-C(18)-H(18C)	109.5
H(18A)-C(18)-H(18C)	109.5
H(18B)-C(18)-H(18C)	109.5
C(15)-C(19)-H(19A)	109.5
C(15)-C(19)-H(19B)	109.5
H(19A)-C(19)-H(19B)	109.5
C(15)-C(19)-H(19C)	109.5
H(19A)-C(19)-H(19C)	109.5
H(19B)-C(19)-H(19C)	109.5
C(17)-C(20)-H(20A)	109.5
C(17)-C(20)-H(20B)	109.5
H(20A)-C(20)-H(20B)	109.5
C(17)-C(20)-H(20C)	109.5

H(20A)-C(20)-H(20C)	109.5
H(20B)-C(20)-H(20C)	109.5
C(26)-C(21)-C(22)	116.8(5)
C(26)-C(21)-B(1)	121.5(6)
C(22)-C(21)-B(1)	121.7(6)
C(23)-C(22)-C(21)	121.2(6)
C(23)-C(22)-C(27)	117.2(6)
C(21)-C(22)-C(27)	121.5(5)
C(24)-C(23)-C(22)	121.4(6)
C(24)-C(23)-H(23)	119.3
C(22)-C(23)-H(23)	119.3
C(23)-C(24)-C(25)	118.8(5)
C(23)-C(24)-C(28)	122.2(7)
C(25)-C(24)-C(28)	119.0(6)
C(24)-C(25)-C(26)	121.5(6)
C(24)-C(25)-H(25)	119.3
C(26)-C(25)-H(25)	119.3
C(25)-C(26)-C(21)	120.3(6)
C(25)-C(26)-C(29)	117.5(6)
C(21)-C(26)-C(29)	122.2(5)
C(22)-C(27)-H(27A)	109.5
C(22)-C(27)-H(27B)	109.5
H(27A)-C(27)-H(27B)	109.5
C(22)-C(27)-H(27C)	109.5
H(27A)-C(27)-H(27C)	109.5
H(27B)-C(27)-H(27C)	109.5
C(24)-C(28)-H(28A)	109.5
C(24)-C(28)-H(28B)	109.5
H(28A)-C(28)-H(28B)	109.5
C(24)-C(28)-H(28C)	109.5
H(28A)-C(28)-H(28C)	109.5
H(28B)-C(28)-H(28C)	109.5
C(26)-C(29)-H(29A)	109.5

C(26)-C(29)-H(29B)	109.5
H(29A)-C(29)-H(29B)	109.5
C(26)-C(29)-H(29C)	109.5
H(29A)-C(29)-H(29C)	109.5
H(29B)-C(29)-H(29C)	109.5
Si(1)-C(30)-H(30A)	109.5
Si(1)-C(30)-H(30B)	109.5
H(30A)-C(30)-H(30B)	109.5
Si(1)-C(30)-H(30C)	109.5
H(30A)-C(30)-H(30C)	109.5
H(30B)-C(30)-H(30C)	109.5
Si(1)-C(31)-H(31A)	109.5
Si(1)-C(31)-H(31B)	109.5
H(31A)-C(31)-H(31B)	109.5
Si(1)-C(31)-H(31C)	109.5
H(31A)-C(31)-H(31C)	109.5
H(31B)-C(31)-H(31C)	109.5
C(36)-C(32)-C(33)	105.6(6)
C(36)-C(32)-Si(1)	122.5(5)
C(33)-C(32)-Si(1)	124.4(5)
C(36)-C(32)-Zr(1)	76.4(3)
C(33)-C(32)-Zr(1)	74.5(3)
Si(1)-C(32)-Zr(1)	90.3(2)
C(34)-C(33)-C(32)	109.8(6)
C(34)-C(33)-C(37)	126.1(7)
C(32)-C(33)-C(37)	124.2(8)
C(34)-C(33)-Zr(1)	79.5(4)
C(32)-C(33)-Zr(1)	71.4(3)
C(37)-C(33)-Zr(1)	116.2(4)
C(33)-C(34)-C(35)	108.0(7)
C(33)-C(34)-C(38)	126.9(7)
C(35)-C(34)-C(38)	124.5(8)
C(33)-C(34)-Zr(1)	69.4(4)

C(35)-C(34)-Zr(1)	73.1(3)
C(38)-C(34)-Zr(1)	130.0(4)
C(36)-C(35)-C(34)	108.0(8)
C(36)-C(35)-C(39)	126.6(5)
C(34)-C(35)-C(39)	125.2(7)
C(36)-C(35)-Zr(1)	71.6(4)
C(34)-C(35)-Zr(1)	74.9(4)
C(39)-C(35)-Zr(1)	123.5(4)
C(35)-C(36)-C(32)	108.5(6)
C(35)-C(36)-C(40)	124.8(6)
C(32)-C(36)-C(40)	126.4(7)
C(35)-C(36)-Zr(1)	76.5(3)
C(32)-C(36)-Zr(1)	70.2(3)
C(40)-C(36)-Zr(1)	124.4(3)
C(33)-C(37)-H(37A)	109.5
C(33)-C(37)-H(37B)	109.5
H(37A)-C(37)-H(37B)	109.5
C(33)-C(37)-H(37C)	109.5
H(37A)-C(37)-H(37C)	109.5
H(37B)-C(37)-H(37C)	109.5
C(34)-C(38)-H(38A)	109.5
C(34)-C(38)-H(38B)	109.5
H(38A)-C(38)-H(38B)	109.5
C(34)-C(38)-H(38C)	109.5
H(38A)-C(38)-H(38C)	109.5
H(38B)-C(38)-H(38C)	109.5
C(35)-C(39)-H(39A)	109.5
C(35)-C(39)-H(39B)	109.5
H(39A)-C(39)-H(39B)	109.5
C(35)-C(39)-H(39C)	109.5
H(39A)-C(39)-H(39C)	109.5
H(39B)-C(39)-H(39C)	109.5
C(36)-C(40)-H(40A)	109.5

C(36)-C(40)-H(40B)	109.5
H(40A)-C(40)-H(40B)	109.5
C(36)-C(40)-H(40C)	109.5
H(40A)-C(40)-H(40C)	109.5
H(40B)-C(40)-H(40C)	109.5
C(42)-C(41)-Zr(1)	123.6(3)
C(42)-C(41)-H(41A)	106.4
Zr(1)-C(41)-H(41A)	106.4
C(42)-C(41)-H(41B)	106.4
Zr(1)-C(41)-H(41B)	106.4
H(41A)-C(41)-H(41B)	106.5
C(43)-C(42)-C(47)	116.5(5)
C(43)-C(42)-C(41)	121.2(5)
C(47)-C(42)-C(41)	122.2(5)
C(44)-C(43)-C(42)	121.5(5)
C(44)-C(43)-H(43)	119.2
C(42)-C(43)-H(43)	119.2
C(45)-C(44)-C(43)	120.6(6)
C(45)-C(44)-H(44)	119.7
C(43)-C(44)-H(44)	119.7
C(46)-C(45)-C(44)	119.0(5)
C(46)-C(45)-H(45)	120.5
C(44)-C(45)-H(45)	120.5
C(45)-C(46)-C(47)	120.8(6)
C(45)-C(46)-H(46)	119.6
C(47)-C(46)-H(46)	119.6
C(46)-C(47)-C(42)	121.5(6)
C(46)-C(47)-H(47)	119.2
C(42)-C(47)-H(47)	119.2
C(49)-C(48)-Zr(1)	91.1(3)
C(49)-C(48)-H(48A)	113.4
Zr(1)-C(48)-H(48A)	113.4
C(49)-C(48)-H(48B)	113.4

Zr(1)-C(48)-H(48B)	113.4
H(48A)-C(48)-H(48B)	110.7
C(54)-C(49)-C(50)	115.7(6)
C(54)-C(49)-C(48)	124.0(6)
C(50)-C(49)-C(48)	119.8(6)
C(54)-C(49)-Zr(1)	107.7(3)
C(50)-C(49)-Zr(1)	100.4(3)
C(48)-C(49)-Zr(1)	56.2(3)
C(51)-C(50)-C(49)	121.3(6)
C(51)-C(50)-H(50)	119.4
C(49)-C(50)-H(50)	119.4
C(50)-C(51)-C(52)	120.7(6)
C(50)-C(51)-H(51)	119.6
C(52)-C(51)-H(51)	119.6
C(53)-C(52)-C(51)	119.7(7)
C(53)-C(52)-H(52)	120.2
C(51)-C(52)-H(52)	120.2
C(54)-C(53)-C(52)	119.4(7)
C(54)-C(53)-H(53)	120.3
C(52)-C(53)-H(53)	120.3
C(53)-C(54)-C(49)	123.1(6)
C(53)-C(54)-H(54)	118.4
C(49)-C(54)-H(54)	118.4

Table S10. Anisotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for **L'Zr(Bn)₂**. The anisotropic displacement factor exponent takes the form: $-2 \pi^2 [\text{h}^2 \text{a}^{*2} \text{U}_{11} + \dots + 2 \text{h k a}^* \text{b}^* \text{U}_{12}]$.

	U11	U22	U33	U23	U13	U12
Zr(1)	68(1)	22(1)	24(1)	5(1)	27(1)	6(1)
Si(1)	90(2)	76(1)	36(1)	38(1)	42(1)	55(1)
B(1)	31(6)	48(4)	43(4)	21(3)	5(4)	-2(4)

N(1)	59(4)	47(3)	31(3)	15(2)	24(3)	15(3)
N(2)	36(3)	32(2)	17(2)	2(2)	4(2)	7(3)
C(1)	46(5)	42(4)	20(3)	6(3)	-1(3)	21(3)
C(2)	29(5)	25(3)	30(3)	-2(3)	-4(3)	8(3)
C(3)	45(6)	46(4)	47(4)	-2(3)	-13(4)	3(4)
C(4)	56(7)	89(5)	45(5)	-20(4)	-30(4)	10(5)
C(5)	53(6)	116(6)	24(4)	6(4)	-7(4)	18(5)
C(6)	32(5)	17(3)	35(3)	8(2)	1(3)	-5(3)
C(7)	33(5)	28(3)	42(4)	20(3)	1(3)	-5(3)
C(8)	32(5)	45(4)	56(4)	32(3)	13(4)	-2(3)
C(9)	40(5)	44(4)	41(4)	32(3)	3(4)	-2(4)
C(10)	29(5)	27(3)	48(4)	10(3)	-5(3)	-1(3)
C(11)	41(5)	11(3)	37(4)	2(2)	5(3)	2(3)
C(12)	25(5)	77(5)	67(5)	47(4)	1(4)	-13(4)
C(13)	41(6)	129(8)	111(7)	39(6)	43(5)	-12(6)
C(14)	73(9)	200(11)	104(8)	23(8)	47(6)	-22(8)
C(15)	81(6)	145(6)	100(6)	38(5)	7(5)	-46(5)
C(16)	61(5)	97(5)	78(5)	61(4)	-31(4)	-34(4)
C(17)	33(6)	92(6)	83(6)	63(5)	-13(4)	-23(5)
C(18)	114(10)	156(10)	200(11)	-19(8)	135(9)	-4(8)
C(19)	114(6)	191(7)	112(6)	48(5)	30(5)	-57(5)
C(20)	62(7)	60(5)	144(9)	39(5)	-16(6)	-41(5)
C(21)	28(5)	38(4)	56(4)	14(3)	14(4)	9(3)
C(22)	21(5)	50(4)	56(4)	29(3)	6(4)	6(3)
C(23)	27(5)	45(4)	50(4)	23(3)	6(3)	16(3)
C(24)	46(5)	34(3)	43(4)	12(3)	27(4)	17(4)
C(25)	54(5)	26(3)	39(4)	3(3)	26(4)	5(3)
C(26)	30(5)	30(3)	42(4)	11(2)	24(3)	13(3)
C(27)	19(5)	73(5)	98(6)	53(4)	-7(4)	0(4)
C(28)	82(6)	32(3)	54(4)	15(3)	28(4)	17(3)
C(29)	35(5)	37(3)	41(4)	9(3)	15(3)	-1(3)
C(30)	114(8)	132(7)	63(5)	49(5)	59(5)	82(6)
C(31)	64(6)	110(6)	27(4)	23(3)	19(4)	33(4)

C(32)	57(6)	47(4)	37(4)	23(3)	33(4)	8(4)
C(33)	85(5)	31(3)	40(4)	12(3)	46(4)	11(4)
C(34)	92(5)	31(3)	44(4)	2(3)	45(4)	-15(4)
C(35)	95(7)	31(3)	36(4)	3(3)	47(5)	-4(4)
C(36)	73(6)	31(3)	28(4)	12(3)	32(4)	5(4)
C(37)	198(10)	48(4)	89(6)	39(4)	106(7)	63(5)
C(38)	201(10)	32(4)	75(5)	-28(3)	97(6)	-56(5)
C(39)	106(8)	59(4)	42(4)	-24(3)	46(5)	-41(5)
C(40)	53(5)	33(3)	25(3)	1(2)	23(3)	9(3)
C(41)	39(5)	26(3)	23(3)	-2(2)	11(3)	-4(3)
C(42)	39(5)	22(3)	14(3)	3(2)	5(3)	-2(3)
C(43)	29(4)	26(3)	26(3)	6(2)	10(3)	2(3)
C(44)	54(6)	28(3)	21(3)	-2(2)	4(3)	-10(3)
C(45)	58(6)	24(3)	26(3)	-7(2)	16(4)	-5(3)
C(46)	36(5)	34(3)	30(3)	-9(3)	14(3)	-6(3)
C(47)	36(5)	28(3)	23(3)	-8(2)	4(3)	-8(3)
C(48)	91(7)	30(3)	38(4)	-4(3)	45(4)	-8(4)
C(49)	48(4)	30(3)	27(3)	-7(3)	28(3)	-7(3)
C(50)	62(6)	29(3)	27(3)	-7(3)	24(4)	-13(3)
C(51)	56(6)	40(4)	24(3)	-5(3)	21(4)	-15(4)
C(52)	56(6)	63(4)	26(3)	-1(3)	24(3)	-10(4)
C(53)	69(7)	74(5)	30(4)	-9(4)	23(4)	-36(5)
C(54)	71(7)	43(4)	30(4)	-21(3)	30(4)	-31(4)

Table S11. Hydrogen coordinates ($\times 10^4$) and isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for **L'Zr(Bn)₂**.

	x	y	z	U(eq)
H(3)	3510	6601	579	56
H(4)	3569	6104	2762	78

H(5)	2944	5290	3432	78
H(8)	3429	6455	-3979	52
H(9)	2714	7042	-4867	50
H(10)	2081	7207	-3540	43
H(11)	2173	6769	-1361	36
H(14)	4981	5670	-4367	148
H(16)	4840	7827	-2543	97
H(18A)	4253	4454	-2568	223
H(18B)	4579	4444	-3776	223
H(18C)	4023	4691	-4013	223
H(19A)	5623	6848	-4345	207
H(19B)	5452	7737	-3843	207
H(19C)	5218	7366	-5210	207
H(20A)	4166	7257	-257	135
H(20B)	3762	7520	-1397	135
H(20C)	4248	8049	-1165	135
H(23)	4314	3981	1652	48
H(25)	3183	3118	-685	46
H(27A)	4670	5222	1369	97
H(27B)	4286	5937	951	97
H(27C)	4637	5603	-85	97
H(28A)	3610	2783	2292	82
H(28B)	4051	2410	1584	82
H(28C)	3511	2246	973	82
H(29A)	2899	3770	-2599	55
H(29B)	3169	4565	-3133	55
H(29C)	2759	4690	-2155	55
H(30A)	2742	3201	2857	150
H(30B)	2564	2973	4259	150
H(30C)	2932	3729	4131	150
H(31A)	2434	4983	5230	99
H(31B)	1974	4461	5580	99
H(31C)	1905	5291	4708	99

H(37A)	1957	2038	1940	159
H(37B)	2222	2802	1304	159
H(37C)	1836	2258	417	159
H(38A)	1069	2441	-691	146
H(38B)	548	2797	-462	146
H(38C)	762	2017	378	146
H(39A)	95	3604	1583	100
H(39B)	255	4052	292	100
H(39C)	249	4567	1633	100
H(40A)	975	4388	4598	53
H(40B)	619	4842	3503	53
H(40C)	1161	5164	3796	53
H(41A)	1388	6155	113	35
H(41B)	876	5715	9	35
H(43)	1726	6512	2552	31
H(44)	1522	7239	4391	41
H(45)	717	7480	4714	42
H(46)	119	6974	3189	39
H(47)	314	6247	1348	35
H(48A)	2067	3998	-1306	61
H(48B)	1646	3306	-1180	61
H(50)	1841	5441	-2019	46
H(51)	1297	6341	-3107	47
H(52)	499	5941	-3622	56
H(53)	254	4594	-3104	68
H(54)	788	3705	-1978	56

Table S12. Torsion angles [°] for **L'Zr(Bn)₂**.

C(48)-Zr(1)-Si(1)-N(1)	78.7(3)
C(41)-Zr(1)-Si(1)-N(1)	-72.8(3)
C(32)-Zr(1)-Si(1)-N(1)	175.7(3)
C(33)-Zr(1)-Si(1)-N(1)	144.8(3)

C(36)-Zr(1)-Si(1)-N(1)	-152.8(3)
C(35)-Zr(1)-Si(1)-N(1)	-167.7(2)
C(34)-Zr(1)-Si(1)-N(1)	160.4(3)
C(49)-Zr(1)-Si(1)-N(1)	67.3(4)
N(1)-Zr(1)-Si(1)-C(32)	-175.7(3)
C(48)-Zr(1)-Si(1)-C(32)	-97.0(3)
C(41)-Zr(1)-Si(1)-C(32)	111.6(3)
C(33)-Zr(1)-Si(1)-C(32)	-30.8(3)
C(36)-Zr(1)-Si(1)-C(32)	31.6(3)
C(35)-Zr(1)-Si(1)-C(32)	16.7(3)
C(34)-Zr(1)-Si(1)-C(32)	-15.3(3)
C(49)-Zr(1)-Si(1)-C(32)	-108.4(4)
N(1)-Zr(1)-Si(1)-C(30)	-82.1(4)
C(48)-Zr(1)-Si(1)-C(30)	-3.5(4)
C(41)-Zr(1)-Si(1)-C(30)	-154.9(4)
C(32)-Zr(1)-Si(1)-C(30)	93.5(4)
C(33)-Zr(1)-Si(1)-C(30)	62.7(4)
C(36)-Zr(1)-Si(1)-C(30)	125.1(4)
C(35)-Zr(1)-Si(1)-C(30)	110.2(4)
C(34)-Zr(1)-Si(1)-C(30)	78.2(4)
C(49)-Zr(1)-Si(1)-C(30)	-14.8(5)
N(1)-Zr(1)-Si(1)-C(31)	86.8(4)
C(48)-Zr(1)-Si(1)-C(31)	165.5(3)
C(41)-Zr(1)-Si(1)-C(31)	14.0(3)
C(32)-Zr(1)-Si(1)-C(31)	-97.5(4)
C(33)-Zr(1)-Si(1)-C(31)	-128.3(3)
C(36)-Zr(1)-Si(1)-C(31)	-65.9(3)
C(35)-Zr(1)-Si(1)-C(31)	-80.8(3)
C(34)-Zr(1)-Si(1)-C(31)	-112.8(3)
C(49)-Zr(1)-Si(1)-C(31)	154.1(4)
C(32)-Si(1)-N(1)-C(1)	-173.4(5)
C(30)-Si(1)-N(1)-C(1)	-55.2(6)
C(31)-Si(1)-N(1)-C(1)	67.1(5)

Zr(1)-Si(1)-N(1)-C(1)	-176.8(6)
C(32)-Si(1)-N(1)-Zr(1)	3.4(3)
C(30)-Si(1)-N(1)-Zr(1)	121.7(4)
C(31)-Si(1)-N(1)-Zr(1)	-116.1(3)
C(48)-Zr(1)-N(1)-C(1)	60.5(4)
C(41)-Zr(1)-N(1)-C(1)	-65.0(4)
C(32)-Zr(1)-N(1)-C(1)	174.2(5)
C(33)-Zr(1)-N(1)-C(1)	146.2(4)
C(36)-Zr(1)-N(1)-C(1)	-159.4(4)
C(35)-Zr(1)-N(1)-C(1)	-168.5(4)
C(34)-Zr(1)-N(1)-C(1)	154.0(4)
C(49)-Zr(1)-N(1)-C(1)	30.9(5)
Si(1)-Zr(1)-N(1)-C(1)	177.0(5)
C(48)-Zr(1)-N(1)-Si(1)	-116.5(2)
C(41)-Zr(1)-N(1)-Si(1)	118.0(2)
C(32)-Zr(1)-N(1)-Si(1)	-2.8(2)
C(33)-Zr(1)-N(1)-Si(1)	-30.8(2)
C(36)-Zr(1)-N(1)-Si(1)	23.7(2)
C(35)-Zr(1)-N(1)-Si(1)	14.6(3)
C(34)-Zr(1)-N(1)-Si(1)	-23.0(3)
C(49)-Zr(1)-N(1)-Si(1)	-146.1(2)
C(2)-N(2)-C(1)-N(1)	-176.9(4)
C(2)-N(2)-C(1)-C(5)	1.5(8)
Si(1)-N(1)-C(1)-N(2)	168.4(3)
Zr(1)-N(1)-C(1)-N(2)	-7.9(6)
Si(1)-N(1)-C(1)-C(5)	-9.9(8)
Zr(1)-N(1)-C(1)-C(5)	173.8(5)
C(1)-N(2)-C(2)-C(3)	-2.2(8)
C(1)-N(2)-C(2)-C(6)	177.8(4)
N(2)-C(2)-C(3)-C(4)	2.3(9)
C(6)-C(2)-C(3)-C(4)	-177.7(5)
C(2)-C(3)-C(4)-C(5)	-1.7(10)
C(3)-C(4)-C(5)-C(1)	1.0(11)

N(2)-C(1)-C(5)-C(4)	-1.0(10)
N(1)-C(1)-C(5)-C(4)	177.3(6)
N(2)-C(2)-C(6)-C(11)	50.6(6)
C(3)-C(2)-C(6)-C(11)	-129.3(6)
N(2)-C(2)-C(6)-C(7)	-132.1(5)
C(3)-C(2)-C(6)-C(7)	47.9(7)
C(11)-C(6)-C(7)-C(8)	-2.5(7)
C(2)-C(6)-C(7)-C(8)	-179.7(5)
C(11)-C(6)-C(7)-B(1)	-175.6(5)
C(2)-C(6)-C(7)-B(1)	7.2(8)
C(21)-B(1)-C(7)-C(8)	-135.2(6)
C(12)-B(1)-C(7)-C(8)	37.2(8)
C(21)-B(1)-C(7)-C(6)	37.9(9)
C(12)-B(1)-C(7)-C(6)	-149.8(6)
C(6)-C(7)-C(8)-C(9)	0.4(8)
B(1)-C(7)-C(8)-C(9)	174.1(6)
C(7)-C(8)-C(9)-C(10)	1.1(9)
C(8)-C(9)-C(10)-C(11)	-0.6(8)
C(9)-C(10)-C(11)-C(6)	-1.5(8)
C(7)-C(6)-C(11)-C(10)	3.0(8)
C(2)-C(6)-C(11)-C(10)	-179.6(5)
C(21)-B(1)-C(12)-C(13)	55.5(10)
C(7)-B(1)-C(12)-C(13)	-116.8(8)
C(21)-B(1)-C(12)-C(17)	-128.4(7)
C(7)-B(1)-C(12)-C(17)	59.4(9)
C(17)-C(12)-C(13)-C(14)	-3.4(12)
B(1)-C(12)-C(13)-C(14)	172.9(8)
C(17)-C(12)-C(13)-C(18)	178.0(8)
B(1)-C(12)-C(13)-C(18)	-5.7(13)
C(12)-C(13)-C(14)-C(15)	2.2(16)
C(18)-C(13)-C(14)-C(15)	-179.1(11)
C(13)-C(14)-C(15)-C(16)	1.5(17)
C(13)-C(14)-C(15)-C(19)	-177.1(9)

C(14)-C(15)-C(16)-C(17)	-3.6(15)
C(19)-C(15)-C(16)-C(17)	175.0(7)
C(13)-C(12)-C(17)-C(16)	1.2(11)
B(1)-C(12)-C(17)-C(16)	-175.2(7)
C(13)-C(12)-C(17)-C(20)	-176.0(8)
B(1)-C(12)-C(17)-C(20)	7.7(11)
C(15)-C(16)-C(17)-C(12)	2.3(12)
C(15)-C(16)-C(17)-C(20)	179.6(8)
C(12)-B(1)-C(21)-C(26)	-127.7(7)
C(7)-B(1)-C(21)-C(26)	44.1(8)
C(12)-B(1)-C(21)-C(22)	52.4(9)
C(7)-B(1)-C(21)-C(22)	-135.7(6)
C(26)-C(21)-C(22)-C(23)	-1.7(8)
B(1)-C(21)-C(22)-C(23)	178.2(5)
C(26)-C(21)-C(22)-C(27)	-177.4(5)
B(1)-C(21)-C(22)-C(27)	2.5(9)
C(21)-C(22)-C(23)-C(24)	0.6(8)
C(27)-C(22)-C(23)-C(24)	176.4(5)
C(22)-C(23)-C(24)-C(25)	1.4(8)
C(22)-C(23)-C(24)-C(28)	-178.8(5)
C(23)-C(24)-C(25)-C(26)	-2.2(8)
C(28)-C(24)-C(25)-C(26)	178.1(4)
C(24)-C(25)-C(26)-C(21)	1.0(7)
C(24)-C(25)-C(26)-C(29)	179.6(5)
C(22)-C(21)-C(26)-C(25)	1.0(7)
B(1)-C(21)-C(26)-C(25)	-178.9(5)
C(22)-C(21)-C(26)-C(29)	-177.7(5)
B(1)-C(21)-C(26)-C(29)	2.4(8)
N(1)-Si(1)-C(32)-C(36)	-76.8(4)
C(30)-Si(1)-C(32)-C(36)	165.9(4)
C(31)-Si(1)-C(32)-C(36)	41.0(5)
Zr(1)-Si(1)-C(32)-C(36)	-74.0(4)
N(1)-Si(1)-C(32)-C(33)	68.5(5)

C(30)-Si(1)-C(32)-C(33)	-48.8(5)
C(31)-Si(1)-C(32)-C(33)	-173.7(5)
Zr(1)-Si(1)-C(32)-C(33)	71.3(4)
N(1)-Si(1)-C(32)-Zr(1)	-2.8(2)
C(30)-Si(1)-C(32)-Zr(1)	-120.1(2)
C(31)-Si(1)-C(32)-Zr(1)	115.0(2)
N(1)-Zr(1)-C(32)-C(36)	126.0(4)
C(48)-Zr(1)-C(32)-C(36)	-131.6(4)
C(41)-Zr(1)-C(32)-C(36)	33.6(5)
C(33)-Zr(1)-C(32)-C(36)	-110.7(6)
C(35)-Zr(1)-C(32)-C(36)	-35.9(3)
C(34)-Zr(1)-C(32)-C(36)	-75.5(4)
C(49)-Zr(1)-C(32)-C(36)	-102.4(5)
Si(1)-Zr(1)-C(32)-C(36)	123.5(5)
N(1)-Zr(1)-C(32)-C(33)	-123.3(5)
C(48)-Zr(1)-C(32)-C(33)	-20.9(5)
C(41)-Zr(1)-C(32)-C(33)	144.3(4)
C(36)-Zr(1)-C(32)-C(33)	110.7(6)
C(35)-Zr(1)-C(32)-C(33)	74.9(4)
C(34)-Zr(1)-C(32)-C(33)	35.2(4)
C(49)-Zr(1)-C(32)-C(33)	8.3(6)
Si(1)-Zr(1)-C(32)-C(33)	-125.8(5)
N(1)-Zr(1)-C(32)-Si(1)	2.50(19)
C(48)-Zr(1)-C(32)-Si(1)	104.9(3)
C(41)-Zr(1)-C(32)-Si(1)	-89.9(3)
C(33)-Zr(1)-C(32)-Si(1)	125.8(5)
C(36)-Zr(1)-C(32)-Si(1)	-123.5(5)
C(35)-Zr(1)-C(32)-Si(1)	-159.3(3)
C(34)-Zr(1)-C(32)-Si(1)	161.0(4)
C(49)-Zr(1)-C(32)-Si(1)	134.1(3)
C(36)-C(32)-C(33)-C(34)	-0.4(6)
Si(1)-C(32)-C(33)-C(34)	-150.4(5)
Zr(1)-C(32)-C(33)-C(34)	-71.0(4)

C(36)-C(32)-C(33)-C(37)	-179.7(5)
Si(1)-C(32)-C(33)-C(37)	30.2(7)
Zr(1)-C(32)-C(33)-C(37)	109.6(5)
C(36)-C(32)-C(33)-Zr(1)	70.7(3)
Si(1)-C(32)-C(33)-Zr(1)	-79.4(4)
N(1)-Zr(1)-C(33)-C(34)	167.0(4)
C(48)-Zr(1)-C(33)-C(34)	-83.2(4)
C(41)-Zr(1)-C(33)-C(34)	53.0(6)
C(32)-Zr(1)-C(33)-C(34)	115.2(6)
C(36)-Zr(1)-C(33)-C(34)	75.9(4)
C(35)-Zr(1)-C(33)-C(34)	36.1(4)
C(49)-Zr(1)-C(33)-C(34)	-59.5(4)
Si(1)-Zr(1)-C(33)-C(34)	148.8(4)
N(1)-Zr(1)-C(33)-C(32)	51.8(4)
C(48)-Zr(1)-C(33)-C(32)	161.6(5)
C(41)-Zr(1)-C(33)-C(32)	-62.2(7)
C(36)-Zr(1)-C(33)-C(32)	-39.3(4)
C(35)-Zr(1)-C(33)-C(32)	-79.1(4)
C(34)-Zr(1)-C(33)-C(32)	-115.2(6)
C(49)-Zr(1)-C(33)-C(32)	-174.7(4)
Si(1)-Zr(1)-C(33)-C(32)	33.6(4)
N(1)-Zr(1)-C(33)-C(37)	-67.8(6)
C(48)-Zr(1)-C(33)-C(37)	41.9(6)
C(41)-Zr(1)-C(33)-C(37)	178.2(5)
C(32)-Zr(1)-C(33)-C(37)	-119.7(9)
C(36)-Zr(1)-C(33)-C(37)	-158.9(8)
C(35)-Zr(1)-C(33)-C(37)	161.2(7)
C(34)-Zr(1)-C(33)-C(37)	125.2(8)
C(49)-Zr(1)-C(33)-C(37)	65.7(7)
Si(1)-Zr(1)-C(33)-C(37)	-86.0(6)
C(32)-C(33)-C(34)-C(35)	2.3(6)
C(37)-C(33)-C(34)-C(35)	-178.3(5)
Zr(1)-C(33)-C(34)-C(35)	-63.4(4)

C(32)-C(33)-C(34)-C(38)	-169.0(5)
C(37)-C(33)-C(34)-C(38)	10.3(9)
Zr(1)-C(33)-C(34)-C(38)	125.2(5)
C(32)-C(33)-C(34)-Zr(1)	65.7(4)
C(37)-C(33)-C(34)-Zr(1)	-114.9(5)
N(1)-Zr(1)-C(34)-C(33)	-15.2(4)
C(48)-Zr(1)-C(34)-C(33)	93.6(4)
C(41)-Zr(1)-C(34)-C(33)	-148.3(3)
C(32)-Zr(1)-C(34)-C(33)	-38.8(3)
C(36)-Zr(1)-C(34)-C(33)	-80.6(4)
C(35)-Zr(1)-C(34)-C(33)	-117.3(6)
C(49)-Zr(1)-C(34)-C(33)	125.3(4)
Si(1)-Zr(1)-C(34)-C(33)	-27.4(3)
N(1)-Zr(1)-C(34)-C(35)	102.2(5)
C(48)-Zr(1)-C(34)-C(35)	-149.0(5)
C(41)-Zr(1)-C(34)-C(35)	-30.9(6)
C(32)-Zr(1)-C(34)-C(35)	78.6(5)
C(33)-Zr(1)-C(34)-C(35)	117.3(6)
C(36)-Zr(1)-C(34)-C(35)	36.7(4)
C(49)-Zr(1)-C(34)-C(35)	-117.4(5)
Si(1)-Zr(1)-C(34)-C(35)	89.9(5)
N(1)-Zr(1)-C(34)-C(38)	-136.6(7)
C(48)-Zr(1)-C(34)-C(38)	-27.8(7)
C(41)-Zr(1)-C(34)-C(38)	90.3(7)
C(32)-Zr(1)-C(34)-C(38)	-160.2(8)
C(33)-Zr(1)-C(34)-C(38)	-121.4(9)
C(36)-Zr(1)-C(34)-C(38)	157.9(9)
C(35)-Zr(1)-C(34)-C(38)	121.2(10)
C(49)-Zr(1)-C(34)-C(38)	3.8(7)
Si(1)-Zr(1)-C(34)-C(38)	-148.8(7)
C(33)-C(34)-C(35)-C(36)	-3.5(6)
C(38)-C(34)-C(35)-C(36)	168.2(5)
Zr(1)-C(34)-C(35)-C(36)	-64.4(4)

C(33)-C(34)-C(35)-C(39)	-178.5(5)
C(38)-C(34)-C(35)-C(39)	-6.8(9)
Zr(1)-C(34)-C(35)-C(39)	120.6(5)
C(33)-C(34)-C(35)-Zr(1)	61.0(4)
C(38)-C(34)-C(35)-Zr(1)	-127.4(5)
N(1)-Zr(1)-C(35)-C(36)	17.4(4)
C(48)-Zr(1)-C(35)-C(36)	148.2(4)
C(41)-Zr(1)-C(35)-C(36)	-90.4(4)
C(32)-Zr(1)-C(35)-C(36)	37.6(4)
C(33)-Zr(1)-C(35)-C(36)	80.3(4)
C(34)-Zr(1)-C(35)-C(36)	115.3(7)
C(49)-Zr(1)-C(35)-C(36)	-177.7(4)
Si(1)-Zr(1)-C(35)-C(36)	25.3(4)
N(1)-Zr(1)-C(35)-C(34)	-97.9(5)
C(48)-Zr(1)-C(35)-C(34)	33.0(5)
C(41)-Zr(1)-C(35)-C(34)	154.3(5)
C(32)-Zr(1)-C(35)-C(34)	-77.7(5)
C(33)-Zr(1)-C(35)-C(34)	-35.0(4)
C(36)-Zr(1)-C(35)-C(34)	-115.3(7)
C(49)-Zr(1)-C(35)-C(34)	67.0(5)
Si(1)-Zr(1)-C(35)-C(34)	-90.0(5)
N(1)-Zr(1)-C(35)-C(39)	139.6(5)
C(48)-Zr(1)-C(35)-C(39)	-89.6(5)
C(41)-Zr(1)-C(35)-C(39)	31.8(5)
C(32)-Zr(1)-C(35)-C(39)	159.8(6)
C(33)-Zr(1)-C(35)-C(39)	-157.5(6)
C(36)-Zr(1)-C(35)-C(39)	122.2(6)
C(34)-Zr(1)-C(35)-C(39)	-122.5(8)
C(49)-Zr(1)-C(35)-C(39)	-55.5(5)
Si(1)-Zr(1)-C(35)-C(39)	147.4(5)
C(34)-C(35)-C(36)-C(32)	3.2(6)
C(39)-C(35)-C(36)-C(32)	178.2(5)
Zr(1)-C(35)-C(36)-C(32)	-63.4(4)

C(34)-C(35)-C(36)-C(40)	-170.7(4)
C(39)-C(35)-C(36)-C(40)	4.3(9)
Zr(1)-C(35)-C(36)-C(40)	122.7(5)
C(34)-C(35)-C(36)-Zr(1)	66.6(4)
C(39)-C(35)-C(36)-Zr(1)	-118.5(6)
C(33)-C(32)-C(36)-C(35)	-1.8(6)
Si(1)-C(32)-C(36)-C(35)	149.0(4)
Zr(1)-C(32)-C(36)-C(35)	67.5(4)
C(33)-C(32)-C(36)-C(40)	172.0(4)
Si(1)-C(32)-C(36)-C(40)	-37.2(7)
Zr(1)-C(32)-C(36)-C(40)	-118.7(5)
C(33)-C(32)-C(36)-Zr(1)	-69.3(3)
Si(1)-C(32)-C(36)-Zr(1)	81.5(3)
N(1)-Zr(1)-C(36)-C(35)	-165.3(4)
C(48)-Zr(1)-C(36)-C(35)	-45.0(5)
C(41)-Zr(1)-C(36)-C(35)	92.0(4)
C(32)-Zr(1)-C(36)-C(35)	-115.7(6)
C(33)-Zr(1)-C(36)-C(35)	-75.6(4)
C(34)-Zr(1)-C(36)-C(35)	-36.8(4)
C(49)-Zr(1)-C(36)-C(35)	3.2(5)
Si(1)-Zr(1)-C(36)-C(35)	-150.9(4)
N(1)-Zr(1)-C(36)-C(32)	-49.6(4)
C(48)-Zr(1)-C(36)-C(32)	70.7(6)
C(41)-Zr(1)-C(36)-C(32)	-152.3(4)
C(33)-Zr(1)-C(36)-C(32)	40.2(4)
C(35)-Zr(1)-C(36)-C(32)	115.7(6)
C(34)-Zr(1)-C(36)-C(32)	78.9(4)
C(49)-Zr(1)-C(36)-C(32)	119.0(4)
Si(1)-Zr(1)-C(36)-C(32)	-35.2(4)
N(1)-Zr(1)-C(36)-C(40)	71.6(6)
C(48)-Zr(1)-C(36)-C(40)	-168.1(5)
C(41)-Zr(1)-C(36)-C(40)	-31.2(6)
C(32)-Zr(1)-C(36)-C(40)	121.1(8)

C(33)-Zr(1)-C(36)-C(40)	161.3(7)
C(35)-Zr(1)-C(36)-C(40)	-123.1(8)
C(34)-Zr(1)-C(36)-C(40)	-159.9(7)
C(49)-Zr(1)-C(36)-C(40)	-119.9(5)
Si(1)-Zr(1)-C(36)-C(40)	85.9(6)
N(1)-Zr(1)-C(41)-C(42)	-57.7(5)
C(48)-Zr(1)-C(41)-C(42)	-178.0(5)
C(32)-Zr(1)-C(41)-C(42)	16.7(6)
C(33)-Zr(1)-C(41)-C(42)	52.9(7)
C(36)-Zr(1)-C(41)-C(42)	34.4(5)
C(35)-Zr(1)-C(41)-C(42)	66.4(5)
C(34)-Zr(1)-C(41)-C(42)	82.3(5)
C(49)-Zr(1)-C(41)-C(42)	171.6(5)
Si(1)-Zr(1)-C(41)-C(42)	-25.6(5)
Zr(1)-C(41)-C(42)-C(43)	65.6(6)
Zr(1)-C(41)-C(42)-C(47)	-113.7(5)
C(47)-C(42)-C(43)-C(44)	1.2(7)
C(41)-C(42)-C(43)-C(44)	-178.2(4)
C(42)-C(43)-C(44)-C(45)	-0.7(7)
C(43)-C(44)-C(45)-C(46)	0.2(7)
C(44)-C(45)-C(46)-C(47)	-0.2(8)
C(45)-C(46)-C(47)-C(42)	0.7(8)
C(43)-C(42)-C(47)-C(46)	-1.1(7)
C(41)-C(42)-C(47)-C(46)	178.2(4)
N(1)-Zr(1)-C(48)-C(49)	-135.9(3)
C(41)-Zr(1)-C(48)-C(49)	-19.4(4)
C(32)-Zr(1)-C(48)-C(49)	146.7(4)
C(33)-Zr(1)-C(48)-C(49)	135.1(4)
C(36)-Zr(1)-C(48)-C(49)	110.6(4)
C(35)-Zr(1)-C(48)-C(49)	87.1(4)
C(34)-Zr(1)-C(48)-C(49)	104.0(4)
Si(1)-Zr(1)-C(48)-C(49)	-170.3(3)
Zr(1)-C(48)-C(49)-C(54)	-89.4(5)

Zr(1)-C(48)-C(49)-C(50)	82.3(4)
N(1)-Zr(1)-C(49)-C(54)	179.0(4)
C(48)-Zr(1)-C(49)-C(54)	119.5(6)
C(41)-Zr(1)-C(49)-C(54)	-77.6(4)
C(32)-Zr(1)-C(49)-C(54)	66.6(6)
C(33)-Zr(1)-C(49)-C(54)	71.5(5)
C(36)-Zr(1)-C(49)-C(54)	14.2(5)
C(35)-Zr(1)-C(49)-C(54)	15.9(5)
C(34)-Zr(1)-C(49)-C(54)	45.1(4)
Si(1)-Zr(1)-C(49)-C(54)	137.8(4)
N(1)-Zr(1)-C(49)-C(50)	-59.6(5)
C(48)-Zr(1)-C(49)-C(50)	-119.1(6)
C(41)-Zr(1)-C(49)-C(50)	43.7(4)
C(32)-Zr(1)-C(49)-C(50)	-172.0(4)
C(33)-Zr(1)-C(49)-C(50)	-167.1(4)
C(36)-Zr(1)-C(49)-C(50)	135.5(4)
C(35)-Zr(1)-C(49)-C(50)	137.3(4)
C(34)-Zr(1)-C(49)-C(50)	166.5(4)
Si(1)-Zr(1)-C(49)-C(50)	-100.8(4)
N(1)-Zr(1)-C(49)-C(48)	59.5(4)
C(41)-Zr(1)-C(49)-C(48)	162.8(4)
C(32)-Zr(1)-C(49)-C(48)	-52.9(5)
C(33)-Zr(1)-C(49)-C(48)	-48.0(4)
C(36)-Zr(1)-C(49)-C(48)	-105.4(4)
C(35)-Zr(1)-C(49)-C(48)	-103.6(4)
C(34)-Zr(1)-C(49)-C(48)	-74.4(4)
Si(1)-Zr(1)-C(49)-C(48)	18.3(5)
C(54)-C(49)-C(50)-C(51)	-2.3(7)
C(48)-C(49)-C(50)-C(51)	-174.7(4)
Zr(1)-C(49)-C(50)-C(51)	-117.9(5)
C(49)-C(50)-C(51)-C(52)	1.3(7)
C(50)-C(51)-C(52)-C(53)	-0.9(7)
C(51)-C(52)-C(53)-C(54)	1.6(8)

C(52)-C(53)-C(54)-C(49)	-2.9(8)
C(50)-C(49)-C(54)-C(53)	3.2(7)
C(48)-C(49)-C(54)-C(53)	175.2(5)
Zr(1)-C(49)-C(54)-C(53)	114.5(5)

Table S13. Crystal data and structure refinement for **L'Zr(CH₂SiMe₃)₂**.

Empirical formula	C ₅₀ H ₇₄ BN ₂ O _{0.50} Si ₃ Zr
Formula weight	897.41
Temperature	110(2) K
Wavelength	0.71073 Å
Crystal system, space group	Triclinic, P-1
Unit cell dimensions	a = 11.1492(5) Å α = 89.308(2)°. b = 11.3188(5) Å β = 82.967(2)°. c = 20.2772(9) Å γ = 77.549(2)°.
Volume	2479.64(19) Å ³
Z, Calculated density	2, 1.202 mg/m ³
Absorption coefficient	0.329mm ⁻¹
F(000)	958
Crystal size	0.66 x 0.38 x 0.34 mm
Theta range for data collection	1.84 to 30.57°.
Limiting indices	-15 ≤ h ≤ 15, -16 ≤ k ≤ 16, -29 ≤ l ≤ 28
Reflections collected / unique	61402 / 15077 [R(int) = 0.0328]
Completeness to theta = 30.57	99.2 %
Absorption correction	Semi-empirical from equivalents
Max. and min. transmission	0.7461 and 0.7113
Refinement method	Full-matrix least-squares on F ²
Data / restraints / parameters	15077 / 14 / 558
Goodness-of-fit on F ²	1.048
Final R indices [I > 2σ(I)]	R1 = 0.0309, wR2 = 0.0790
R indices (all data)	R1 = 0.0440, wR2 = 0.0835
Largest diff. peak and hole	0.452 and -0.507 e.Å ⁻³

Table S14. Atomic coordinates ($\times 10^4$) and equivalent isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for **L'Zr(CH₂SiMe₃)₂**. U(eq) is defined as one third of the trace of the orthogonalized U_{ij} tensor.

	x	y	z	
Zr(1)	8178(1)	3112(1)	1384(1)	13(1)
Si(1)	9019(1)	5463(1)	1785(1)	15(1)
N(1)	8365(1)	4326(1)	2143(1)	18(1)
C(1)	7735(1)	4147(1)	2742(1)	15(1)
B(1)	3686(1)	3164(1)	3808(1)	14(1)
Si(2)	10477(1)	677(1)	2092(1)	17(1)
N(2)	7186(1)	3193(1)	2737(1)	14(1)
C(2)	6500(1)	2951(1)	3298(1)	14(1)
Si(3)	6092(1)	1351(1)	792(1)	17(1)
C(3)	6387(1)	3628(1)	3880(1)	19(1)
C(4)	6961(1)	4599(1)	3882(1)	21(1)
C(5)	7637(1)	4878(1)	3311(1)	18(1)
C(6)	5904(1)	1899(1)	3293(1)	16(1)
C(7)	4670(1)	1966(1)	3587(1)	16(1)
C(8)	4225(1)	894(1)	3609(1)	21(1)
C(9)	4945(2)	-190(1)	3343(1)	25(1)
C(10)	6147(2)	-238(1)	3056(1)	26(1)
C(11)	6623(1)	800(1)	3032(1)	21(1)
C(12)	3655(1)	4305(1)	3351(1)	14(1)
C(13)	3677(1)	4205(1)	2654(1)	15(1)
C(14)	3759(1)	5199(1)	2254(1)	19(1)
C(15)	3807(1)	6317(1)	2514(1)	20(1)
C(16)	3728(1)	6426(1)	3201(1)	20(1)
C(17)	3641(1)	5458(1)	3617(1)	16(1)
C(18)	3508(1)	3067(1)	2330(1)	20(1)
C(19)	3900(2)	7381(1)	2071(1)	30(1)
C(20)	3524(1)	5674(1)	4359(1)	23(1)

C(21)	2707(1)	3099(1)	4433(1)	15(1)
C(22)	3050(1)	2541(1)	5031(1)	19(1)
C(23)	2147(1)	2413(1)	5551(1)	23(1)
C(24)	896(1)	2791(1)	5503(1)	24(1)
C(25)	552(1)	3356(1)	4924(1)	23(1)
C(26)	1421(1)	3531(1)	4397(1)	18(1)
C(27)	4378(1)	2090(2)	5155(1)	28(1)
C(28)	-53(2)	2545(2)	6053(1)	34(1)
C(29)	931(1)	4151(2)	3793(1)	26(1)
C(30)	8029(2)	7005(1)	1978(1)	27(1)
C(31)	10574(1)	5497(1)	2020(1)	26(1)
C(32)	9394(1)	1275(1)	1475(1)	18(1)
C(33)	12121(1)	624(1)	1745(1)	26(1)
C(34)	10354(2)	-912(2)	2311(1)	33(1)
C(35)	10159(2)	1601(2)	2875(1)	39(1)
C(36)	6341(1)	2698(1)	1233(1)	19(1)
C(37)	5869(2)	118(1)	1386(1)	31(1)
C(38)	4681(2)	1770(2)	352(1)	31(1)
C(39)	7407(2)	633(2)	157(1)	34(1)
C(40)	9011(1)	4847(1)	934(1)	15(1)
C(41)	9869(1)	3805(1)	637(1)	17(1)
C(42)	9278(1)	3259(1)	182(1)	21(1)
C(43)	8048(1)	3947(1)	189(1)	22(1)
C(44)	7878(1)	4903(1)	657(1)	19(1)
C(45)	11200(1)	3381(1)	740(1)	22(1)
C(46)	9915(2)	2232(2)	-285(1)	31(1)
C(47)	7144(2)	3810(2)	-284(1)	34(1)
C(48)	6677(1)	5807(1)	839(1)	29(1)
O(1X)	0	10000	5000	35(1)
C(1X)	1224(3)	9960(3)	4648(2)	35(1)
C(2X)	2162(7)	9257(9)	5089(4)	42(2)
C(1X1)	928(3)	9332(3)	5351(2)	40(1)
C(2X1)	2145(7)	9321(10)	4895(4)	51(2)

Table S15. Bond lengths [Å] and angles [°] for **L'Zr(CH₂SiMe₃)₂**.

Zr(1)-N(1)	2.1323(11)
Zr(1)-C(32)	2.2430(13)
Zr(1)-C(36)	2.2550(14)
Zr(1)-C(40)	2.4668(13)
Zr(1)-C(44)	2.4805(13)
Zr(1)-C(41)	2.5247(13)
Zr(1)-C(43)	2.5996(13)
Zr(1)-C(42)	2.6118(13)
Zr(1)-Si(1)	3.1512(4)
Si(1)-N(1)	1.7222(12)
Si(1)-C(31)	1.8619(15)
Si(1)-C(30)	1.8693(14)
Si(1)-C(40)	1.8712(13)
N(1)-C(1)	1.3619(16)
C(1)-N(2)	1.3520(17)
C(1)-C(5)	1.4070(17)
B(1)-C(12)	1.5774(19)
B(1)-C(21)	1.5801(19)
B(1)-C(7)	1.5804(19)
Si(2)-C(32)	1.8652(14)
Si(2)-C(35)	1.8670(16)
Si(2)-C(33)	1.8695(15)
Si(2)-C(34)	1.8768(16)
N(2)-C(2)	1.3498(16)
C(2)-C(3)	1.3920(17)
C(2)-C(6)	1.4843(18)
Si(3)-C(36)	1.8649(14)
Si(3)-C(37)	1.8696(16)
Si(3)-C(38)	1.8723(16)

Si(3)-C(39)	1.8752(16)
C(3)-C(4)	1.387(2)
C(3)-H(3)	0.9500
C(4)-C(5)	1.3748(19)
C(4)-H(4)	0.9500
C(5)-H(5)	0.9500
C(6)-C(11)	1.3972(18)
C(6)-C(7)	1.4170(18)
C(7)-C(8)	1.4043(19)
C(8)-C(9)	1.388(2)
C(8)-H(8)	0.9500
C(9)-C(10)	1.384(2)
C(9)-H(9)	0.9500
C(10)-C(11)	1.388(2)
C(10)-H(10)	0.9500
C(11)-H(11)	0.9500
C(12)-C(17)	1.4143(17)
C(12)-C(13)	1.4149(17)
C(13)-C(14)	1.3923(19)
C(13)-C(18)	1.5104(18)
C(14)-C(15)	1.390(2)
C(14)-H(14)	0.9500
C(15)-C(16)	1.391(2)
C(15)-C(19)	1.508(2)
C(16)-C(17)	1.3879(19)
C(16)-H(16)	0.9500
C(17)-C(20)	1.5111(18)
C(18)-H(18A)	0.9800
C(18)-H(18B)	0.9800
C(18)-H(18C)	0.9800
C(19)-H(19A)	0.9800
C(19)-H(19B)	0.9800
C(19)-H(19C)	0.9800

C(20)-H(20A)	0.9800
C(20)-H(20B)	0.9800
C(20)-H(20C)	0.9800
C(21)-C(22)	1.4172(18)
C(21)-C(26)	1.4211(19)
C(22)-C(23)	1.3946(19)
C(22)-C(27)	1.510(2)
C(23)-C(24)	1.384(2)
C(23)-H(23)	0.9500
C(24)-C(25)	1.385(2)
C(24)-C(28)	1.507(2)
C(25)-C(26)	1.3948(19)
C(25)-H(25)	0.9500
C(26)-C(29)	1.507(2)
C(27)-H(27A)	0.9800
C(27)-H(27B)	0.9800
C(27)-H(27C)	0.9800
C(28)-H(28A)	0.9800
C(28)-H(28B)	0.9800
C(28)-H(28C)	0.9800
C(29)-H(29A)	0.9800
C(29)-H(29B)	0.9800
C(29)-H(29C)	0.9800
C(30)-H(30A)	0.9800
C(30)-H(30B)	0.9800
C(30)-H(30C)	0.9800
C(31)-H(31A)	0.9800
C(31)-H(31B)	0.9800
C(31)-H(31C)	0.9800
C(32)-H(32A)	0.9900
C(32)-H(32B)	0.9900
C(33)-H(33A)	0.9800
C(33)-H(33B)	0.9800

C(33)-H(33C)	0.9800
C(34)-H(34A)	0.9800
C(34)-H(34B)	0.9800
C(34)-H(34C)	0.9800
C(35)-H(35A)	0.9800
C(35)-H(35B)	0.9800
C(35)-H(35C)	0.9800
C(36)-H(36A)	0.9900
C(36)-H(36B)	0.9900
C(37)-H(37A)	0.9800
C(37)-H(37B)	0.9800
C(37)-H(37C)	0.9800
C(38)-H(38A)	0.9800
C(38)-H(38B)	0.9800
C(38)-H(38C)	0.9800
C(39)-H(39A)	0.9800
C(39)-H(39B)	0.9800
C(39)-H(39C)	0.9800
C(40)-C(44)	1.4333(19)
C(40)-C(41)	1.4349(17)
C(41)-C(42)	1.4157(19)
C(41)-C(45)	1.4980(19)
C(42)-C(43)	1.422(2)
C(42)-C(46)	1.5023(19)
C(43)-C(44)	1.412(2)
C(43)-C(47)	1.506(2)
C(44)-C(48)	1.508(2)
C(45)-H(45A)	0.9800
C(45)-H(45B)	0.9800
C(45)-H(45C)	0.9800
C(46)-H(46A)	0.9800
C(46)-H(46B)	0.9800
C(46)-H(46C)	0.9800

C(47)-H(47A)	0.9800
C(47)-H(47B)	0.9800
C(47)-H(47C)	0.9800
C(48)-H(48A)	0.9800
C(48)-H(48B)	0.9800
C(48)-H(48C)	0.9800
O(1X)-C(1X1)	1.407(4)
O(1X)-C(1X1)#1	1.407(4)
O(1X)-C(1X)	1.452(3)
O(1X)-C(1X)#1	1.452(3)
C(1X)-C(2X)	1.542(6)
C(1X)-H(1X1)	0.9900
C(1X)-H(1X2)	0.9900
C(2X)-H(2X1)	0.9800
C(2X)-H(2X2)	0.9800
C(2X)-H(2X3)	0.9800
C(1X1)-C(2X1)	1.544(7)
C(1X1)-H(1X3)	0.9900
C(1X1)-H(1X4)	0.9900
C(2X1)-H(2X4)	0.9800
C(2X1)-H(2X5)	0.9800
C(2X1)-H(2X6)	0.9800
N(1)-Zr(1)-C(32)	111.58(5)
N(1)-Zr(1)-C(36)	122.44(5)
C(32)-Zr(1)-C(36)	103.35(5)
N(1)-Zr(1)-C(40)	67.41(4)
C(32)-Zr(1)-C(40)	122.06(5)
C(36)-Zr(1)-C(40)	126.52(5)
N(1)-Zr(1)-C(44)	86.24(5)
C(32)-Zr(1)-C(44)	142.36(5)
C(36)-Zr(1)-C(44)	92.95(5)
C(40)-Zr(1)-C(44)	33.68(4)

N(1)-Zr(1)-C(41)	89.61(4)
C(32)-Zr(1)-C(41)	91.39(5)
C(36)-Zr(1)-C(41)	134.42(5)
C(40)-Zr(1)-C(41)	33.39(4)
C(44)-Zr(1)-C(41)	54.55(4)
N(1)-Zr(1)-C(43)	117.64(5)
C(32)-Zr(1)-C(43)	116.55(5)
C(36)-Zr(1)-C(43)	81.95(5)
C(40)-Zr(1)-C(43)	54.39(4)
C(44)-Zr(1)-C(43)	32.18(5)
C(41)-Zr(1)-C(43)	53.24(5)
N(1)-Zr(1)-C(42)	119.76(4)
C(32)-Zr(1)-C(42)	89.47(5)
C(36)-Zr(1)-C(42)	104.34(5)
C(40)-Zr(1)-C(42)	54.19(4)
C(44)-Zr(1)-C(42)	53.38(5)
C(41)-Zr(1)-C(42)	31.94(4)
C(43)-Zr(1)-C(42)	31.67(5)
N(1)-Zr(1)-Si(1)	31.07(3)
C(32)-Zr(1)-Si(1)	120.76(4)
C(36)-Zr(1)-Si(1)	134.05(4)
C(40)-Zr(1)-Si(1)	36.40(3)
C(44)-Zr(1)-Si(1)	60.37(3)
C(41)-Zr(1)-Si(1)	61.21(3)
C(43)-Zr(1)-Si(1)	88.92(3)
C(42)-Zr(1)-Si(1)	89.23(3)
N(1)-Si(1)-C(31)	114.93(7)
N(1)-Si(1)-C(30)	112.88(6)
C(31)-Si(1)-C(30)	106.51(7)
N(1)-Si(1)-C(40)	91.10(6)
C(31)-Si(1)-C(40)	115.40(6)
C(30)-Si(1)-C(40)	115.83(7)
N(1)-Si(1)-Zr(1)	39.71(4)

C(31)-Si(1)-Zr(1)	124.93(5)
C(30)-Si(1)-Zr(1)	127.78(5)
C(40)-Si(1)-Zr(1)	51.47(4)
C(1)-N(1)-Si(1)	136.00(9)
C(1)-N(1)-Zr(1)	113.15(9)
Si(1)-N(1)-Zr(1)	109.22(5)
N(2)-C(1)-N(1)	113.08(11)
N(2)-C(1)-C(5)	122.44(12)
N(1)-C(1)-C(5)	124.47(12)
C(12)-B(1)-C(21)	124.08(11)
C(12)-B(1)-C(7)	118.08(11)
C(21)-B(1)-C(7)	117.52(11)
C(32)-Si(2)-C(35)	112.97(7)
C(32)-Si(2)-C(33)	111.35(7)
C(35)-Si(2)-C(33)	107.26(8)
C(32)-Si(2)-C(34)	109.61(7)
C(35)-Si(2)-C(34)	108.22(9)
C(33)-Si(2)-C(34)	107.21(7)
C(2)-N(2)-C(1)	118.46(10)
N(2)-C(2)-C(3)	121.69(12)
N(2)-C(2)-C(6)	118.33(11)
C(3)-C(2)-C(6)	119.93(11)
C(36)-Si(3)-C(37)	111.29(7)
C(36)-Si(3)-C(38)	110.31(7)
C(37)-Si(3)-C(38)	107.98(8)
C(36)-Si(3)-C(39)	114.77(7)
C(37)-Si(3)-C(39)	105.08(8)
C(38)-Si(3)-C(39)	107.05(8)
C(4)-C(3)-C(2)	119.55(12)
C(4)-C(3)-H(3)	120.2
C(2)-C(3)-H(3)	120.2
C(5)-C(4)-C(3)	119.49(12)
C(5)-C(4)-H(4)	120.3

C(3)-C(4)-H(4)	120.3
C(4)-C(5)-C(1)	118.34(13)
C(4)-C(5)-H(5)	120.8
C(1)-C(5)-H(5)	120.8
C(11)-C(6)-C(7)	120.04(12)
C(11)-C(6)-C(2)	118.08(12)
C(7)-C(6)-C(2)	121.72(11)
C(8)-C(7)-C(6)	117.44(12)
C(8)-C(7)-B(1)	116.14(12)
C(6)-C(7)-B(1)	125.90(12)
C(9)-C(8)-C(7)	121.92(13)
C(9)-C(8)-H(8)	119.0
C(7)-C(8)-H(8)	119.0
C(10)-C(9)-C(8)	119.90(14)
C(10)-C(9)-H(9)	120.1
C(8)-C(9)-H(9)	120.1
C(9)-C(10)-C(11)	119.75(13)
C(9)-C(10)-H(10)	120.1
C(11)-C(10)-H(10)	120.1
C(10)-C(11)-C(6)	120.94(13)
C(10)-C(11)-H(11)	119.5
C(6)-C(11)-H(11)	119.5
C(17)-C(12)-C(13)	117.47(12)
C(17)-C(12)-B(1)	121.46(11)
C(13)-C(12)-B(1)	121.04(11)
C(14)-C(13)-C(12)	120.08(12)
C(14)-C(13)-C(18)	118.09(11)
C(12)-C(13)-C(18)	121.64(12)
C(15)-C(14)-C(13)	122.33(12)
C(15)-C(14)-H(14)	118.8
C(13)-C(14)-H(14)	118.8
C(14)-C(15)-C(16)	117.37(12)
C(14)-C(15)-C(19)	121.44(13)

C(16)-C(15)-C(19)	121.16(13)
C(17)-C(16)-C(15)	122.02(12)
C(17)-C(16)-H(16)	119.0
C(15)-C(16)-H(16)	119.0
C(16)-C(17)-C(12)	120.57(12)
C(16)-C(17)-C(20)	118.17(12)
C(12)-C(17)-C(20)	121.26(12)
C(13)-C(18)-H(18A)	109.5
C(13)-C(18)-H(18B)	109.5
H(18A)-C(18)-H(18B)	109.5
C(13)-C(18)-H(18C)	109.5
H(18A)-C(18)-H(18C)	109.5
H(18B)-C(18)-H(18C)	109.5
C(15)-C(19)-H(19A)	109.5
C(15)-C(19)-H(19B)	109.5
H(19A)-C(19)-H(19B)	109.5
C(15)-C(19)-H(19C)	109.5
H(19A)-C(19)-H(19C)	109.5
H(19B)-C(19)-H(19C)	109.5
C(17)-C(20)-H(20A)	109.5
C(17)-C(20)-H(20B)	109.5
H(20A)-C(20)-H(20B)	109.5
C(17)-C(20)-H(20C)	109.5
H(20A)-C(20)-H(20C)	109.5
H(20B)-C(20)-H(20C)	109.5
C(22)-C(21)-C(26)	117.13(12)
C(22)-C(21)-B(1)	122.25(12)
C(26)-C(21)-B(1)	120.48(11)
C(23)-C(22)-C(21)	120.41(13)
C(23)-C(22)-C(27)	116.31(12)
C(21)-C(22)-C(27)	123.26(12)
C(24)-C(23)-C(22)	122.16(14)
C(24)-C(23)-H(23)	118.9

C(22)-C(23)-H(23)	118.9
C(23)-C(24)-C(25)	117.77(13)
C(23)-C(24)-C(28)	120.62(15)
C(25)-C(24)-C(28)	121.56(15)
C(24)-C(25)-C(26)	122.13(14)
C(24)-C(25)-H(25)	118.9
C(26)-C(25)-H(25)	118.9
C(25)-C(26)-C(21)	120.31(13)
C(25)-C(26)-C(29)	117.08(13)
C(21)-C(26)-C(29)	122.58(12)
C(22)-C(27)-H(27A)	109.5
C(22)-C(27)-H(27B)	109.5
H(27A)-C(27)-H(27B)	109.5
C(22)-C(27)-H(27C)	109.5
H(27A)-C(27)-H(27C)	109.5
H(27B)-C(27)-H(27C)	109.5
C(24)-C(28)-H(28A)	109.5
C(24)-C(28)-H(28B)	109.5
H(28A)-C(28)-H(28B)	109.5
C(24)-C(28)-H(28C)	109.5
H(28A)-C(28)-H(28C)	109.5
H(28B)-C(28)-H(28C)	109.5
C(26)-C(29)-H(29A)	109.5
C(26)-C(29)-H(29B)	109.5
H(29A)-C(29)-H(29B)	109.5
C(26)-C(29)-H(29C)	109.5
H(29A)-C(29)-H(29C)	109.5
H(29B)-C(29)-H(29C)	109.5
Si(1)-C(30)-H(30A)	109.5
Si(1)-C(30)-H(30B)	109.5
H(30A)-C(30)-H(30B)	109.5
Si(1)-C(30)-H(30C)	109.5
H(30A)-C(30)-H(30C)	109.5

H(30B)-C(30)-H(30C)	109.5
Si(1)-C(31)-H(31A)	109.5
Si(1)-C(31)-H(31B)	109.5
H(31A)-C(31)-H(31B)	109.5
Si(1)-C(31)-H(31C)	109.5
H(31A)-C(31)-H(31C)	109.5
H(31B)-C(31)-H(31C)	109.5
Si(2)-C(32)-Zr(1)	130.85(7)
Si(2)-C(32)-H(32A)	104.6
Zr(1)-C(32)-H(32A)	104.6
Si(2)-C(32)-H(32B)	104.6
Zr(1)-C(32)-H(32B)	104.6
H(32A)-C(32)-H(32B)	105.7
Si(2)-C(33)-H(33A)	109.5
Si(2)-C(33)-H(33B)	109.5
H(33A)-C(33)-H(33B)	109.5
Si(2)-C(33)-H(33C)	109.5
H(33A)-C(33)-H(33C)	109.5
H(33B)-C(33)-H(33C)	109.5
Si(2)-C(34)-H(34A)	109.5
Si(2)-C(34)-H(34B)	109.5
H(34A)-C(34)-H(34B)	109.5
Si(2)-C(34)-H(34C)	109.5
H(34A)-C(34)-H(34C)	109.5
H(34B)-C(34)-H(34C)	109.5
Si(2)-C(35)-H(35A)	109.5
Si(2)-C(35)-H(35B)	109.5
H(35A)-C(35)-H(35B)	109.5
Si(2)-C(35)-H(35C)	109.5
H(35A)-C(35)-H(35C)	109.5
H(35B)-C(35)-H(35C)	109.5
Si(3)-C(36)-Zr(1)	126.57(7)
Si(3)-C(36)-H(36A)	105.7

Zr(1)-C(36)-H(36A)	105.7
Si(3)-C(36)-H(36B)	105.7
Zr(1)-C(36)-H(36B)	105.7
H(36A)-C(36)-H(36B)	106.1
Si(3)-C(37)-H(37A)	109.5
Si(3)-C(37)-H(37B)	109.5
H(37A)-C(37)-H(37B)	109.5
Si(3)-C(37)-H(37C)	109.5
H(37A)-C(37)-H(37C)	109.5
H(37B)-C(37)-H(37C)	109.5
Si(3)-C(38)-H(38A)	109.5
Si(3)-C(38)-H(38B)	109.5
H(38A)-C(38)-H(38B)	109.5
Si(3)-C(38)-H(38C)	109.5
H(38A)-C(38)-H(38C)	109.5
H(38B)-C(38)-H(38C)	109.5
Si(3)-C(39)-H(39A)	109.5
Si(3)-C(39)-H(39B)	109.5
H(39A)-C(39)-H(39B)	109.5
Si(3)-C(39)-H(39C)	109.5
H(39A)-C(39)-H(39C)	109.5
H(39B)-C(39)-H(39C)	109.5
C(44)-C(40)-C(41)	106.22(11)
C(44)-C(40)-Si(1)	121.44(9)
C(41)-C(40)-Si(1)	125.02(10)
C(44)-C(40)-Zr(1)	73.68(8)
C(41)-C(40)-Zr(1)	75.52(7)
Si(1)-C(40)-Zr(1)	92.13(5)
C(42)-C(41)-C(40)	108.74(12)
C(42)-C(41)-C(45)	123.97(12)
C(40)-C(41)-C(45)	127.17(12)
C(42)-C(41)-Zr(1)	77.42(8)
C(40)-C(41)-Zr(1)	71.09(7)

C(45)-C(41)-Zr(1)	120.91(9)
C(41)-C(42)-C(43)	108.10(12)
C(41)-C(42)-C(46)	124.68(14)
C(43)-C(42)-C(46)	126.77(13)
C(41)-C(42)-Zr(1)	70.64(7)
C(43)-C(42)-Zr(1)	73.69(8)
C(46)-C(42)-Zr(1)	127.38(10)
C(44)-C(43)-C(42)	107.82(12)
C(44)-C(43)-C(47)	125.08(14)
C(42)-C(43)-C(47)	126.52(14)
C(44)-C(43)-Zr(1)	69.26(8)
C(42)-C(43)-Zr(1)	74.64(8)
C(47)-C(43)-Zr(1)	128.43(10)
C(43)-C(44)-C(40)	109.11(12)
C(43)-C(44)-C(48)	124.59(13)
C(40)-C(44)-C(48)	126.29(13)
C(43)-C(44)-Zr(1)	78.56(8)
C(40)-C(44)-Zr(1)	72.64(7)
C(48)-C(44)-Zr(1)	114.24(10)
C(41)-C(45)-H(45A)	109.5
C(41)-C(45)-H(45B)	109.5
H(45A)-C(45)-H(45B)	109.5
C(41)-C(45)-H(45C)	109.5
H(45A)-C(45)-H(45C)	109.5
H(45B)-C(45)-H(45C)	109.5
C(42)-C(46)-H(46A)	109.5
C(42)-C(46)-H(46B)	109.5
H(46A)-C(46)-H(46B)	109.5
C(42)-C(46)-H(46C)	109.5
H(46A)-C(46)-H(46C)	109.5
H(46B)-C(46)-H(46C)	109.5
C(43)-C(47)-H(47A)	109.5
C(43)-C(47)-H(47B)	109.5

H(47A)-C(47)-H(47B)	109.5
C(43)-C(47)-H(47C)	109.5
H(47A)-C(47)-H(47C)	109.5
H(47B)-C(47)-H(47C)	109.5
C(44)-C(48)-H(48A)	109.5
C(44)-C(48)-H(48B)	109.5
H(48A)-C(48)-H(48B)	109.5
C(44)-C(48)-H(48C)	109.5
H(48A)-C(48)-H(48C)	109.5
H(48B)-C(48)-H(48C)	109.5
C(1X1)-O(1X)-C(1X1)#1	180.0(3)
C(1X1)-O(1X)-C(1X)	68.7(2)
C(1X1)#1-O(1X)-C(1X)	111.3(2)
C(1X1)-O(1X)-C(1X)#1	111.3(2)
C(1X1)#1-O(1X)-C(1X)#1	68.7(2)
C(1X)-O(1X)-C(1X)#1	179.998(2)
O(1X)-C(1X)-C(2X)	106.8(4)
O(1X)-C(1X)-H(1X1)	110.4
C(2X)-C(1X)-H(1X1)	110.4
O(1X)-C(1X)-H(1X2)	110.4
C(2X)-C(1X)-H(1X2)	110.4
H(1X1)-C(1X)-H(1X2)	108.6
O(1X)-C(1X1)-C(2X1)	104.4(4)
O(1X)-C(1X1)-H(1X3)	110.9
C(2X1)-C(1X1)-H(1X3)	110.9
O(1X)-C(1X1)-H(1X4)	110.9
C(2X1)-C(1X1)-H(1X4)	110.9
H(1X3)-C(1X1)-H(1X4)	108.9
C(1X1)-C(2X1)-H(2X4)	109.5
C(1X1)-C(2X1)-H(2X5)	109.5
H(2X4)-C(2X1)-H(2X5)	109.5
C(1X1)-C(2X1)-H(2X6)	109.5
H(2X4)-C(2X1)-H(2X6)	109.5

H(2X5)-C(2X1)-H(2X6) 109.5

Table S16. Anisotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for **L'Zr(CH₂SiMe₃)₂**. The anisotropic displacement factor exponent takes the form: $-2 \pi^2 [h^2 a^{*2} U_{11} + \dots + 2 h k a^* b^* U_{12}]$.

	U11	U22	U33	U23	U13	U12
Zr(1)	13(1)	13(1)	14(1)	1(1)	-2(1)	-3(1)
Si(1)	15(1)	13(1)	17(1)	-1(1)	1(1)	-3(1)
N(1)	22(1)	17(1)	15(1)	-1(1)	4(1)	-6(1)
C(1)	13(1)	16(1)	14(1)	0(1)	0(1)	-1(1)
B(1)	13(1)	15(1)	15(1)	0(1)	-3(1)	-5(1)
Si(2)	17(1)	15(1)	20(1)	1(1)	-4(1)	-2(1)
N(2)	13(1)	15(1)	13(1)	0(1)	-1(1)	-1(1)
C(2)	11(1)	16(1)	14(1)	2(1)	-2(1)	0(1)
Si(3)	17(1)	19(1)	18(1)	0(1)	-5(1)	-6(1)
C(3)	19(1)	25(1)	13(1)	-1(1)	2(1)	-5(1)
C(4)	21(1)	26(1)	15(1)	-6(1)	-1(1)	-6(1)
C(5)	18(1)	19(1)	18(1)	-4(1)	-1(1)	-5(1)
C(6)	18(1)	15(1)	14(1)	2(1)	-2(1)	-1(1)
C(7)	17(1)	15(1)	16(1)	3(1)	-1(1)	-4(1)
C(8)	24(1)	17(1)	23(1)	4(1)	0(1)	-7(1)
C(9)	36(1)	14(1)	24(1)	3(1)	-1(1)	-8(1)
C(10)	36(1)	14(1)	23(1)	0(1)	2(1)	1(1)
C(11)	22(1)	18(1)	20(1)	2(1)	2(1)	1(1)
C(12)	12(1)	14(1)	15(1)	1(1)	-1(1)	-3(1)
C(13)	12(1)	17(1)	16(1)	-1(1)	-1(1)	-2(1)
C(14)	15(1)	23(1)	17(1)	4(1)	-3(1)	-2(1)
C(15)	15(1)	18(1)	25(1)	7(1)	-2(1)	-2(1)
C(16)	21(1)	14(1)	25(1)	-1(1)	-2(1)	-4(1)
C(17)	15(1)	16(1)	18(1)	-1(1)	-2(1)	-4(1)
C(18)	22(1)	22(1)	17(1)	-4(1)	-2(1)	-7(1)
C(19)	31(1)	22(1)	34(1)	12(1)	1(1)	-2(1)

C(20)	30(1)	20(1)	18(1)	-5(1)	-2(1)	-6(1)
C(21)	15(1)	16(1)	16(1)	0(1)	-1(1)	-5(1)
C(22)	20(1)	22(1)	17(1)	3(1)	-2(1)	-9(1)
C(23)	27(1)	26(1)	16(1)	3(1)	1(1)	-10(1)
C(24)	26(1)	23(1)	22(1)	-4(1)	8(1)	-11(1)
C(25)	17(1)	22(1)	27(1)	-3(1)	4(1)	-4(1)
C(26)	17(1)	18(1)	20(1)	-2(1)	0(1)	-4(1)
C(27)	23(1)	42(1)	21(1)	11(1)	-7(1)	-8(1)
C(28)	33(1)	36(1)	31(1)	0(1)	15(1)	-11(1)
C(29)	15(1)	35(1)	26(1)	5(1)	-4(1)	-3(1)
C(30)	27(1)	17(1)	34(1)	-5(1)	3(1)	-1(1)
C(31)	22(1)	29(1)	27(1)	-4(1)	-6(1)	-7(1)
C(32)	18(1)	16(1)	20(1)	0(1)	-3(1)	-5(1)
C(33)	20(1)	24(1)	34(1)	8(1)	-6(1)	-6(1)
C(34)	28(1)	27(1)	47(1)	17(1)	-8(1)	-9(1)
C(35)	35(1)	48(1)	29(1)	-12(1)	-15(1)	11(1)
C(36)	17(1)	20(1)	21(1)	-2(1)	-3(1)	-4(1)
C(37)	45(1)	22(1)	27(1)	4(1)	-9(1)	-8(1)
C(38)	31(1)	30(1)	38(1)	3(1)	-20(1)	-9(1)
C(39)	29(1)	39(1)	36(1)	-17(1)	3(1)	-13(1)
C(40)	16(1)	13(1)	16(1)	3(1)	-1(1)	-3(1)
C(41)	17(1)	18(1)	14(1)	2(1)	2(1)	-5(1)
C(42)	28(1)	22(1)	13(1)	1(1)	1(1)	-9(1)
C(43)	28(1)	25(1)	17(1)	7(1)	-9(1)	-11(1)
C(44)	19(1)	19(1)	21(1)	7(1)	-6(1)	-4(1)
C(45)	16(1)	20(1)	28(1)	2(1)	5(1)	-3(1)
C(46)	39(1)	33(1)	19(1)	-9(1)	8(1)	-13(1)
C(47)	44(1)	41(1)	26(1)	10(1)	-19(1)	-19(1)
C(48)	20(1)	22(1)	44(1)	8(1)	-11(1)	-1(1)
O(1X)	28(1)	30(1)	44(1)	2(1)	2(1)	-3(1)
C(1X)	23(2)	31(2)	50(2)	-8(2)	1(1)	-4(1)
C(2X)	34(3)	30(2)	57(4)	2(3)	-15(2)	5(2)
C(1X1)	29(2)	27(2)	64(3)	1(2)	-2(2)	-6(1)

C(2X1) 34(3) 51(4) 68(5) -9(3) 7(3) -16(3)

Table S17. Hydrogen coordinates ($\times 10^4$) and isotropic displacement parameters ($\text{\AA}^2 \times 10^3$) for **L'Zr(CH₂SiMe₃)₂**.

	x	y	z	U(eq)
H(3)	5918	3427	4272	23
H(4)	6889	5068	4276	25
H(5)	8027	5546	3300	22
H(8)	3406	912	3811	25
H(9)	4614	-897	3359	30
H(10)	6644	-979	2875	31
H(11)	7449	763	2836	25
H(14)	3784	5111	1787	22
H(16)	3734	7187	3392	24
H(18A)	3405	3219	1862	29
H(18B)	2772	2825	2557	29
H(18C)	4238	2417	2362	29
H(19A)	3169	8033	2183	44
H(19B)	3945	7132	1606	44
H(19C)	4646	7669	2136	44
H(20A)	3508	6526	4448	34
H(20B)	4232	5162	4539	34
H(20C)	2756	5472	4570	34
H(23)	2400	2055	5952	27
H(25)	-303	3634	4886	27
H(27A)	4668	2738	5361	42
H(27B)	4894	1843	4732	42
H(27C)	4435	1396	5452	42
H(28A)	-878	2979	5968	51

H(28B)	131	2821	6478	51
H(28C)	-27	1674	6070	51
H(29A)	24	4317	3857	39
H(29B)	1241	3625	3401	39
H(29C)	1208	4914	3728	39
H(30A)	7156	6971	1988	41
H(30B)	8240	7567	1634	41
H(30C)	8172	7283	2411	41
H(31A)	10480	5917	2449	39
H(31B)	11013	5925	1679	39
H(31C)	11049	4667	2054	39
H(32A)	8824	713	1493	22
H(32B)	9910	1122	1038	22
H(33A)	12334	105	1345	38
H(33B)	12667	296	2077	38
H(33C)	12222	1443	1629	38
H(34A)	9507	-915	2508	50
H(34B)	10931	-1228	2631	50
H(34C)	10560	-1422	1909	50
H(35A)	10194	2442	2770	59
H(35B)	10783	1275	3169	59
H(35C)	9335	1573	3098	59
H(36A)	5882	2699	1683	23
H(36B)	5897	3411	1006	23
H(37A)	6625	-164	1595	46
H(37B)	5689	-557	1145	46
H(37C)	5176	428	1729	46
H(38A)	3972	2157	668	47
H(38B)	4509	1039	164	47
H(38C)	4823	2332	-5	47
H(39A)	7466	1177	-219	51
H(39B)	7261	-134	2	51
H(39C)	8181	481	358	51

H(45A)	11498	2544	579	33
H(45B)	11280	3422	1215	33
H(45C)	11694	3900	495	33
H(46A)	10593	2472	-572	46
H(46B)	9320	2031	-559	46
H(46C)	10247	1524	-28	46
H(47A)	6350	3759	-31	51
H(47B)	7469	3071	-553	51
H(47C)	7024	4512	-576	51
H(48A)	6049	5637	577	43
H(48B)	6803	6626	745	43
H(48C)	6398	5746	1313	43
H(1X1)	1359	10789	4573	42
H(1X2)	1316	9545	4212	42
H(2X1)	2089	9699	5510	63
H(2X2)	3002	9172	4859	63
H(2X3)	1990	8453	5179	63
H(1X3)	806	8499	5430	49
H(1X4)	930	9727	5784	49
H(2X4)	2122	8930	4470	77
H(2X5)	2845	8872	5108	77
H(2X6)	2241	10154	4818	77

Table S18. Torsion angles [°] for **L'Zr(CH₂SiMe₃)₂**.

C(32)-Zr(1)-Si(1)-N(1)	-80.88(8)
C(36)-Zr(1)-Si(1)-N(1)	80.83(8)
C(40)-Zr(1)-Si(1)-N(1)	175.60(8)
C(44)-Zr(1)-Si(1)-N(1)	142.93(7)
C(41)-Zr(1)-Si(1)-N(1)	-153.74(7)
C(43)-Zr(1)-Si(1)-N(1)	158.52(7)
C(42)-Zr(1)-Si(1)-N(1)	-169.81(7)

N(1)-Zr(1)-Si(1)-C(31)	87.93(9)
C(32)-Zr(1)-Si(1)-C(31)	7.05(7)
C(36)-Zr(1)-Si(1)-C(31)	168.76(8)
C(40)-Zr(1)-Si(1)-C(31)	-96.47(8)
C(44)-Zr(1)-Si(1)-C(31)	-129.14(7)
C(41)-Zr(1)-Si(1)-C(31)	-65.81(7)
C(43)-Zr(1)-Si(1)-C(31)	-113.54(7)
C(42)-Zr(1)-Si(1)-C(31)	-81.87(7)
N(1)-Zr(1)-Si(1)-C(30)	-80.59(9)
C(32)-Zr(1)-Si(1)-C(30)	-161.47(8)
C(36)-Zr(1)-Si(1)-C(30)	0.24(9)
C(40)-Zr(1)-Si(1)-C(30)	95.01(8)
C(44)-Zr(1)-Si(1)-C(30)	62.34(8)
C(41)-Zr(1)-Si(1)-C(30)	125.67(8)
C(43)-Zr(1)-Si(1)-C(30)	77.94(7)
C(42)-Zr(1)-Si(1)-C(30)	109.61(7)
N(1)-Zr(1)-Si(1)-C(40)	-175.60(8)
C(32)-Zr(1)-Si(1)-C(40)	103.52(6)
C(36)-Zr(1)-Si(1)-C(40)	-94.77(7)
C(44)-Zr(1)-Si(1)-C(40)	-32.67(6)
C(41)-Zr(1)-Si(1)-C(40)	30.66(6)
C(43)-Zr(1)-Si(1)-C(40)	-17.08(6)
C(42)-Zr(1)-Si(1)-C(40)	14.59(6)
C(31)-Si(1)-N(1)-C(1)	80.85(15)
C(30)-Si(1)-N(1)-C(1)	-41.59(16)
C(40)-Si(1)-N(1)-C(1)	-160.34(14)
Zr(1)-Si(1)-N(1)-C(1)	-163.78(18)
C(31)-Si(1)-N(1)-Zr(1)	-115.37(7)
C(30)-Si(1)-N(1)-Zr(1)	122.20(7)
C(40)-Si(1)-N(1)-Zr(1)	3.44(6)
C(32)-Zr(1)-N(1)-C(1)	-78.02(10)
C(36)-Zr(1)-N(1)-C(1)	45.04(11)
C(40)-Zr(1)-N(1)-C(1)	165.00(11)

C(44)-Zr(1)-N(1)-C(1)	136.15(10)
C(41)-Zr(1)-N(1)-C(1)	-169.36(10)
C(43)-Zr(1)-N(1)-C(1)	143.41(9)
C(42)-Zr(1)-N(1)-C(1)	179.58(9)
Si(1)-Zr(1)-N(1)-C(1)	167.82(14)
C(32)-Zr(1)-N(1)-Si(1)	114.16(6)
C(36)-Zr(1)-N(1)-Si(1)	-122.78(6)
C(40)-Zr(1)-N(1)-Si(1)	-2.83(5)
C(44)-Zr(1)-N(1)-Si(1)	-31.68(6)
C(41)-Zr(1)-N(1)-Si(1)	22.82(6)
C(43)-Zr(1)-N(1)-Si(1)	-24.41(8)
C(42)-Zr(1)-N(1)-Si(1)	11.76(8)
Si(1)-N(1)-C(1)-N(2)	167.03(11)
Zr(1)-N(1)-C(1)-N(2)	3.70(14)
Si(1)-N(1)-C(1)-C(5)	-12.1(2)
Zr(1)-N(1)-C(1)-C(5)	-175.43(10)
N(1)-C(1)-N(2)-C(2)	-177.89(11)
C(5)-C(1)-N(2)-C(2)	1.25(18)
C(1)-N(2)-C(2)-C(3)	-2.35(18)
C(1)-N(2)-C(2)-C(6)	-179.69(11)
N(2)-C(2)-C(3)-C(4)	1.8(2)
C(6)-C(2)-C(3)-C(4)	179.09(12)
C(2)-C(3)-C(4)-C(5)	-0.1(2)
C(3)-C(4)-C(5)-C(1)	-1.0(2)
N(2)-C(1)-C(5)-C(4)	0.4(2)
N(1)-C(1)-C(5)-C(4)	179.45(13)
N(2)-C(2)-C(6)-C(11)	47.45(17)
C(3)-C(2)-C(6)-C(11)	-129.93(14)
N(2)-C(2)-C(6)-C(7)	-137.25(12)
C(3)-C(2)-C(6)-C(7)	45.37(18)
C(11)-C(6)-C(7)-C(8)	0.73(19)
C(2)-C(6)-C(7)-C(8)	-174.48(12)
C(11)-C(6)-C(7)-B(1)	-170.64(12)

C(2)-C(6)-C(7)-B(1)	14.15(19)
C(12)-B(1)-C(7)-C(8)	-132.72(13)
C(21)-B(1)-C(7)-C(8)	41.06(17)
C(12)-B(1)-C(7)-C(6)	38.75(18)
C(21)-B(1)-C(7)-C(6)	-147.47(13)
C(6)-C(7)-C(8)-C(9)	-1.3(2)
B(1)-C(7)-C(8)-C(9)	170.93(13)
C(7)-C(8)-C(9)-C(10)	1.1(2)
C(8)-C(9)-C(10)-C(11)	-0.3(2)
C(9)-C(10)-C(11)-C(6)	-0.3(2)
C(7)-C(6)-C(11)-C(10)	0.0(2)
C(2)-C(6)-C(11)-C(10)	175.40(13)
C(21)-B(1)-C(12)-C(17)	55.41(18)
C(7)-B(1)-C(12)-C(17)	-131.25(13)
C(21)-B(1)-C(12)-C(13)	-126.46(13)
C(7)-B(1)-C(12)-C(13)	46.88(17)
C(17)-C(12)-C(13)-C(14)	3.87(18)
B(1)-C(12)-C(13)-C(14)	-174.33(12)
C(17)-C(12)-C(13)-C(18)	-171.07(12)
B(1)-C(12)-C(13)-C(18)	10.73(19)
C(12)-C(13)-C(14)-C(15)	-0.8(2)
C(18)-C(13)-C(14)-C(15)	174.28(12)
C(13)-C(14)-C(15)-C(16)	-2.0(2)
C(13)-C(14)-C(15)-C(19)	179.78(13)
C(14)-C(15)-C(16)-C(17)	1.8(2)
C(19)-C(15)-C(16)-C(17)	179.98(13)
C(15)-C(16)-C(17)-C(12)	1.3(2)
C(15)-C(16)-C(17)-C(20)	-178.33(13)
C(13)-C(12)-C(17)-C(16)	-4.12(19)
B(1)-C(12)-C(17)-C(16)	174.07(12)
C(13)-C(12)-C(17)-C(20)	175.53(12)
B(1)-C(12)-C(17)-C(20)	-6.28(19)
C(12)-B(1)-C(21)-C(22)	-139.79(13)

C(7)-B(1)-C(21)-C(22)	46.84(18)
C(12)-B(1)-C(21)-C(26)	44.62(18)
C(7)-B(1)-C(21)-C(26)	-128.75(13)
C(26)-C(21)-C(22)-C(23)	1.1(2)
B(1)-C(21)-C(22)-C(23)	-174.67(12)
C(26)-C(21)-C(22)-C(27)	-177.10(13)
B(1)-C(21)-C(22)-C(27)	7.2(2)
C(21)-C(22)-C(23)-C(24)	1.6(2)
C(27)-C(22)-C(23)-C(24)	179.87(14)
C(22)-C(23)-C(24)-C(25)	-2.6(2)
C(22)-C(23)-C(24)-C(28)	174.87(14)
C(23)-C(24)-C(25)-C(26)	1.0(2)
C(28)-C(24)-C(25)-C(26)	-176.44(14)
C(24)-C(25)-C(26)-C(21)	1.6(2)
C(24)-C(25)-C(26)-C(29)	179.66(14)
C(22)-C(21)-C(26)-C(25)	-2.59(19)
B(1)-C(21)-C(26)-C(25)	173.22(12)
C(22)-C(21)-C(26)-C(29)	179.44(13)
B(1)-C(21)-C(26)-C(29)	-4.7(2)
C(35)-Si(2)-C(32)-Zr(1)	19.36(13)
C(33)-Si(2)-C(32)-Zr(1)	-101.41(10)
C(34)-Si(2)-C(32)-Zr(1)	140.13(10)
N(1)-Zr(1)-C(32)-Si(2)	0.84(11)
C(36)-Zr(1)-C(32)-Si(2)	-132.53(9)
C(40)-Zr(1)-C(32)-Si(2)	76.97(10)
C(44)-Zr(1)-C(32)-Si(2)	114.25(10)
C(41)-Zr(1)-C(32)-Si(2)	90.97(9)
C(43)-Zr(1)-C(32)-Si(2)	139.90(8)
C(42)-Zr(1)-C(32)-Si(2)	122.86(9)
Si(1)-Zr(1)-C(32)-Si(2)	34.07(11)
C(37)-Si(3)-C(36)-Zr(1)	94.14(10)
C(38)-Si(3)-C(36)-Zr(1)	-146.03(9)
C(39)-Si(3)-C(36)-Zr(1)	-25.03(12)

N(1)-Zr(1)-C(36)-Si(3)	-159.48(7)
C(32)-Zr(1)-C(36)-Si(3)	-32.70(10)
C(40)-Zr(1)-C(36)-Si(3)	116.01(8)
C(44)-Zr(1)-C(36)-Si(3)	113.10(9)
C(41)-Zr(1)-C(36)-Si(3)	72.81(11)
C(43)-Zr(1)-C(36)-Si(3)	82.78(9)
C(42)-Zr(1)-C(36)-Si(3)	60.21(9)
Si(1)-Zr(1)-C(36)-Si(3)	163.39(5)
N(1)-Si(1)-C(40)-C(44)	69.33(11)
C(31)-Si(1)-C(40)-C(44)	-172.26(11)
C(30)-Si(1)-C(40)-C(44)	-46.86(13)
Zr(1)-Si(1)-C(40)-C(44)	72.13(10)
N(1)-Si(1)-C(40)-C(41)	-76.58(12)
C(31)-Si(1)-C(40)-C(41)	41.83(14)
C(30)-Si(1)-C(40)-C(41)	167.24(11)
Zr(1)-Si(1)-C(40)-C(41)	-73.77(11)
N(1)-Si(1)-C(40)-Zr(1)	-2.81(5)
C(31)-Si(1)-C(40)-Zr(1)	115.60(7)
C(30)-Si(1)-C(40)-Zr(1)	-118.99(6)
N(1)-Zr(1)-C(40)-C(44)	-119.75(8)
C(32)-Zr(1)-C(40)-C(44)	138.16(8)
C(36)-Zr(1)-C(40)-C(44)	-5.24(9)
C(41)-Zr(1)-C(40)-C(44)	112.10(11)
C(43)-Zr(1)-C(40)-C(44)	36.62(8)
C(42)-Zr(1)-C(40)-C(44)	75.89(8)
Si(1)-Zr(1)-C(40)-C(44)	-122.21(9)
N(1)-Zr(1)-C(40)-C(41)	128.16(9)
C(32)-Zr(1)-C(40)-C(41)	26.07(9)
C(36)-Zr(1)-C(40)-C(41)	-117.34(8)
C(44)-Zr(1)-C(40)-C(41)	-112.10(11)
C(43)-Zr(1)-C(40)-C(41)	-75.47(8)
C(42)-Zr(1)-C(40)-C(41)	-36.21(8)
Si(1)-Zr(1)-C(40)-C(41)	125.70(10)

N(1)-Zr(1)-C(40)-Si(1)	2.46(5)
C(32)-Zr(1)-C(40)-Si(1)	-99.63(6)
C(36)-Zr(1)-C(40)-Si(1)	116.97(6)
C(44)-Zr(1)-C(40)-Si(1)	122.21(9)
C(41)-Zr(1)-C(40)-Si(1)	-125.70(10)
C(43)-Zr(1)-C(40)-Si(1)	158.83(7)
C(42)-Zr(1)-C(40)-Si(1)	-161.90(7)
C(44)-C(40)-C(41)-C(42)	1.11(14)
Si(1)-C(40)-C(41)-C(42)	151.24(10)
Zr(1)-C(40)-C(41)-C(42)	68.95(9)
C(44)-C(40)-C(41)-C(45)	177.22(13)
Si(1)-C(40)-C(41)-C(45)	-32.65(19)
Zr(1)-C(40)-C(41)-C(45)	-114.94(13)
C(44)-C(40)-C(41)-Zr(1)	-67.83(9)
Si(1)-C(40)-C(41)-Zr(1)	82.30(9)
N(1)-Zr(1)-C(41)-C(42)	-161.66(8)
C(32)-Zr(1)-C(41)-C(42)	86.76(9)
C(36)-Zr(1)-C(41)-C(42)	-23.55(11)
C(40)-Zr(1)-C(41)-C(42)	-115.11(12)
C(44)-Zr(1)-C(41)-C(42)	-76.00(9)
C(43)-Zr(1)-C(41)-C(42)	-35.91(8)
Si(1)-Zr(1)-C(41)-C(42)	-148.46(9)
N(1)-Zr(1)-C(41)-C(40)	-46.55(8)
C(32)-Zr(1)-C(41)-C(40)	-158.13(8)
C(36)-Zr(1)-C(41)-C(40)	91.55(9)
C(44)-Zr(1)-C(41)-C(40)	39.11(7)
C(43)-Zr(1)-C(41)-C(40)	79.20(8)
C(42)-Zr(1)-C(41)-C(40)	115.11(12)
Si(1)-Zr(1)-C(41)-C(40)	-33.36(6)
N(1)-Zr(1)-C(41)-C(45)	76.08(11)
C(32)-Zr(1)-C(41)-C(45)	-35.49(11)
C(36)-Zr(1)-C(41)-C(45)	-145.81(10)
C(40)-Zr(1)-C(41)-C(45)	122.63(14)

C(44)-Zr(1)-C(41)-C(45)	161.74(12)
C(43)-Zr(1)-C(41)-C(45)	-158.17(12)
C(42)-Zr(1)-C(41)-C(45)	-122.26(14)
Si(1)-Zr(1)-C(41)-C(45)	89.28(10)
C(40)-C(41)-C(42)-C(43)	-0.11(15)
C(45)-C(41)-C(42)-C(43)	-176.37(12)
Zr(1)-C(41)-C(42)-C(43)	64.66(10)
C(40)-C(41)-C(42)-C(46)	172.59(13)
C(45)-C(41)-C(42)-C(46)	-3.7(2)
Zr(1)-C(41)-C(42)-C(46)	-122.64(14)
C(40)-C(41)-C(42)-Zr(1)	-64.77(9)
C(45)-C(41)-C(42)-Zr(1)	118.97(13)
N(1)-Zr(1)-C(42)-C(41)	21.25(10)
C(32)-Zr(1)-C(42)-C(41)	-93.48(8)
C(36)-Zr(1)-C(42)-C(41)	162.87(8)
C(40)-Zr(1)-C(42)-C(41)	37.91(8)
C(44)-Zr(1)-C(42)-C(41)	79.98(9)
C(43)-Zr(1)-C(42)-C(41)	116.48(12)
Si(1)-Zr(1)-C(42)-C(41)	27.29(8)
N(1)-Zr(1)-C(42)-C(43)	-95.23(9)
C(32)-Zr(1)-C(42)-C(43)	150.04(9)
C(36)-Zr(1)-C(42)-C(43)	46.39(9)
C(40)-Zr(1)-C(42)-C(43)	-78.57(9)
C(44)-Zr(1)-C(42)-C(43)	-36.49(8)
C(41)-Zr(1)-C(42)-C(43)	-116.48(12)
Si(1)-Zr(1)-C(42)-C(43)	-89.19(8)
N(1)-Zr(1)-C(42)-C(46)	140.62(13)
C(32)-Zr(1)-C(42)-C(46)	25.89(14)
C(36)-Zr(1)-C(42)-C(46)	-77.76(14)
C(40)-Zr(1)-C(42)-C(46)	157.28(15)
C(44)-Zr(1)-C(42)-C(46)	-160.65(15)
C(41)-Zr(1)-C(42)-C(46)	119.37(17)
C(43)-Zr(1)-C(42)-C(46)	-124.15(17)

Si(1)-Zr(1)-C(42)-C(46)	146.66(13)
C(41)-C(42)-C(43)-C(44)	-0.97(16)
C(46)-C(42)-C(43)-C(44)	-173.47(14)
Zr(1)-C(42)-C(43)-C(44)	61.71(10)
C(41)-C(42)-C(43)-C(47)	170.55(14)
C(46)-C(42)-C(43)-C(47)	-2.0(2)
Zr(1)-C(42)-C(43)-C(47)	-126.78(15)
C(41)-C(42)-C(43)-Zr(1)	-62.68(9)
C(46)-C(42)-C(43)-Zr(1)	124.82(15)
N(1)-Zr(1)-C(43)-C(44)	-13.71(10)
C(32)-Zr(1)-C(43)-C(44)	-150.24(8)
C(36)-Zr(1)-C(43)-C(44)	108.80(9)
C(40)-Zr(1)-C(43)-C(44)	-38.40(8)
C(41)-Zr(1)-C(43)-C(44)	-80.08(9)
C(42)-Zr(1)-C(43)-C(44)	-116.31(12)
Si(1)-Zr(1)-C(43)-C(44)	-26.03(8)
N(1)-Zr(1)-C(43)-C(42)	102.60(9)
C(32)-Zr(1)-C(43)-C(42)	-33.93(10)
C(36)-Zr(1)-C(43)-C(42)	-134.89(9)
C(40)-Zr(1)-C(43)-C(42)	77.91(9)
C(44)-Zr(1)-C(43)-C(42)	116.31(12)
C(41)-Zr(1)-C(43)-C(42)	36.23(8)
Si(1)-Zr(1)-C(43)-C(42)	90.29(8)
N(1)-Zr(1)-C(43)-C(47)	-132.66(14)
C(32)-Zr(1)-C(43)-C(47)	90.80(15)
C(36)-Zr(1)-C(43)-C(47)	-10.15(14)
C(40)-Zr(1)-C(43)-C(47)	-157.36(16)
C(44)-Zr(1)-C(43)-C(47)	-118.95(18)
C(41)-Zr(1)-C(43)-C(47)	160.97(16)
C(42)-Zr(1)-C(43)-C(47)	124.74(18)
Si(1)-Zr(1)-C(43)-C(47)	-144.98(14)
C(42)-C(43)-C(44)-C(40)	1.68(16)
C(47)-C(43)-C(44)-C(40)	-169.98(14)

Zr(1)-C(43)-C(44)-C(40)	66.90(9)
C(42)-C(43)-C(44)-C(48)	-176.89(13)
C(47)-C(43)-C(44)-C(48)	11.4(2)
Zr(1)-C(43)-C(44)-C(48)	-111.67(14)
C(42)-C(43)-C(44)-Zr(1)	-65.22(10)
C(47)-C(43)-C(44)-Zr(1)	123.11(14)
C(41)-C(40)-C(44)-C(43)	-1.72(15)
Si(1)-C(40)-C(44)-C(43)	-153.16(10)
Zr(1)-C(40)-C(44)-C(43)	-70.84(10)
C(41)-C(40)-C(44)-C(48)	176.82(13)
Si(1)-C(40)-C(44)-C(48)	25.38(19)
Zr(1)-C(40)-C(44)-C(48)	107.70(14)
C(41)-C(40)-C(44)-Zr(1)	69.12(9)
Si(1)-C(40)-C(44)-Zr(1)	-82.33(9)
N(1)-Zr(1)-C(44)-C(43)	167.85(9)
C(32)-Zr(1)-C(44)-C(43)	46.64(12)
C(36)-Zr(1)-C(44)-C(43)	-69.81(9)
C(40)-Zr(1)-C(44)-C(43)	114.40(12)
C(41)-Zr(1)-C(44)-C(43)	75.65(9)
C(42)-Zr(1)-C(44)-C(43)	35.89(8)
Si(1)-Zr(1)-C(44)-C(43)	149.69(9)
N(1)-Zr(1)-C(44)-C(40)	53.45(8)
C(32)-Zr(1)-C(44)-C(40)	-67.77(11)
C(36)-Zr(1)-C(44)-C(40)	175.78(8)
C(41)-Zr(1)-C(44)-C(40)	-38.75(7)
C(43)-Zr(1)-C(44)-C(40)	-114.40(12)
C(42)-Zr(1)-C(44)-C(40)	-78.51(8)
Si(1)-Zr(1)-C(44)-C(40)	35.28(6)
N(1)-Zr(1)-C(44)-C(48)	-69.18(11)
C(32)-Zr(1)-C(44)-C(48)	169.60(10)
C(36)-Zr(1)-C(44)-C(48)	53.15(11)
C(40)-Zr(1)-C(44)-C(48)	-122.63(14)
C(41)-Zr(1)-C(44)-C(48)	-161.38(12)

C(43)-Zr(1)-C(44)-C(48)	122.97(15)
C(42)-Zr(1)-C(44)-C(48)	158.86(13)
Si(1)-Zr(1)-C(44)-C(48)	-87.35(10)
C(1X1)-O(1X)-C(1X)-C(2X)	-2.3(5)
C(1X1)#1-O(1X)-C(1X)-C(2X)	177.7(5)
C(1X)#1-O(1X)-C(1X)-C(2X)	-16(37)
C(1X1)#1-O(1X)-C(1X1)-C(2X1)	94(32)
C(1X)-O(1X)-C(1X1)-C(2X1)	-3.1(5)
C(1X)#1-O(1X)-C(1X1)-C(2X1)	176.9(5)
