

Synthetic, structural and reaction chemistry of N-heterocyclic germylene and stannylene compounds featuring N-boryl substituents

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1. Additional synthetic data

Deprotonation of (L^1) H_2 with n BuLi/TMEDA (*In Situ*) – Generation of $Li_2(L^1) \cdot (C_6H_5Me)(TMEDA)$:

To a stirred mixture of (L^1) H_2 (0.20 g, 0.24 mmol) and TMEDA (36 μ L, 0.24 mmol) in toluene (2 mL) at -50 °C was added dropwise n BuLi (0.60 mL of a 1.6 M solution in hexane, 0.96 mmol). The resulting pale orange reaction mixture was warmed to room temperature and stirred for 30 min. The 1H NMR spectrum of the reaction mixture indicates full conversion to $Li_2(L^1) \cdot (C_6H_5Me)(TMEDA)$. 1H NMR (C_6D_6 , 400 MHz, 298 K): δ_H 6.99-7.18 (overlapping m, *p*-H and *m*-H of Dipp and C_6D_5H), 6.71 (2H, m, *o*-H of coordinated toluene), 6.25 (2H, m, *m*-H of coordinated toluene), 5.93 (1H, m, *p*-H of coordinated toluene), 5.87 (4H, s, N(CH) $_2$ N of boryl ligand), 3.54-3.60 (8H, br m, $CHMe_2$), 2.82-2.85 (4H, br m, NCH $_2$), 1.76 (3H, s, CH $_3$ of coordinated toluene), 1.71 (12H, s, CH $_3$ of coordinated TMEDA), 1.56 (4H, s, CH $_2$ of coordinated TMEDA), 1.17-1.35 (48H, overlapping m, $CHMe_2$). $^{13}C\{^1H\}$ NMR (C_6D_6 , 101 MHz, 298 K): δ_C 155.3 (*i*-C of coordinated toluene), 147.2 (*o*-C of Dipp), 143.0 (*i*-C of Dipp), 130.2 (*o*-C of coordinated toluene), 126.7 (*p*-C of Dipp), 124.0 (*m*-C of Dipp), 118.0 (N(CH) $_2$ N of boryl ligand), 115.5 (*m*-C of coordinated toluene), 107.2 (*p*-C of coordinated toluene), 56.2 (CH $_2$ of coordinated TMEDA), 54.5 (NCH $_2$), 45.3 (CH $_3$ of coordinated TMEDA), 38.8 (CH $_3$ of coordinated toluene), 28.5 ($CHMe_2$), 25.6 ($CHMe_2$), 23.9 ($CHMe_2$). ^{11}B NMR (C_6D_6 , 128 MHz, 298 K): δ_B 29 (br s, boryl ligand). 7Li NMR (C_6D_6 , 156 MHz, 298 K): δ_{Li} 1.1.

Deprotonation of (L^2) H_2 with n BuLi/TMEDA (*In Situ*) – Generation of $Li_2(L^2) \cdot (C_6H_5Me)(TMEDA)$:

$Li_2(L^2) \cdot (C_6H_5Me)(TMEDA)$ was prepared by a similar method to $Li_2(L^1) \cdot (C_6H_5Me)(TMEDA)$ from (L^2) H_2 (0.20 g, 0.24 mmol), TMEDA (36 μ L, 0.24 mmol) and n BuLi (0.59 mL of a 1.6 M solution in hexane, 0.95 mmol). 1H NMR (C_6D_6 , 400 MHz, 298 K): δ_H 7.00-7.20 (overlapping m, *p*-H and *m*-H of Dipp and C_6D_5H), 6.86 (2H, m, *o*-H coordinated toluene), 6.45 (2H, m, *m*-H of coordinated toluene), 6.03 (1H, m, *p*-H of coordinated toluene), 5.87 (4H, s, N(CH) $_2$ N of boryl ligand), 3.48 (8H, sept, $^3J_{HH} = 6.9$ Hz, $CHMe_2$), 2.78 (4H, m, NCH $_2$), 2.08 (3H, s, CH $_3$ of coordinated toluene), 1.75 (12H, s, CH $_3$ of coordinated TMEDA), 1.61 (4H, s, CH $_2$ of coordinated TMEDA), 1.22 (24H, d, $^3J_{HH} = 6.9$ Hz, $CHMe_2$), 1.13 (24H, d, $^3J_{HH} = 6.9$ Hz, $CHMe_2$), 0.96 (2H, m, $CH_2(CH_2N)_2$). $^{13}C\{^1H\}$ NMR (C_6D_6 , 101 MHz, 298 K): δ_C 147.4 (*i*-C of coordinated toluene), 146.8 (*o*-C of Dipp), 142.8 (*i*-C of Dipp), 130.2 (*o*-C of coordinated toluene), 125.7 (*p*-C of Dipp), 124.2 (*m*-C of Dipp), 117.3

(N(CH)₂N of boryl ligand), 115.6 (*m*-C of coordinated toluene), 106.6 (*p*-C of coordinated toluene), 56.4 (CH₂ of coordinated TMEDA), 47.5 (NCH₂), 45.3 (CH₃ of coordinated TMEDA), 40.0 (CH₂(CH₂N)₂), 36.8 (CH₃ of coordinated toluene), 28.7 (CHMe₂), 24.7 (CHMe₂), 23.8 (CHMe₂). ¹¹B NMR (C₆D₆, 128 MHz, 298 K): δ_B 26 (br s, boryl ligand). ⁷Li NMR (156 MHz, C₆D₆, 298 K): δ_{Li} 1.0.

Deprotonation of (L¹)H₂ with Benzyl Potassium (*In situ*) – Generation of K₂(L¹): To a mixture of (L¹)H₂ (48 mg, 0.058 mmol) and benzyl potassium (15 mg, 0.12 mmol) in a J. Young's NMR tube was added C₆D₆ (0.5 mL) and the resulting red solution sonicated for 3 h. The ¹H NMR spectrum of the reaction mixture indicates full conversion to K₂(L¹). ¹H NMR (C₆D₆, 400 MHz, 298 K): δ_H 6.99-7.15 (12H, overlapping m, *m*-H and *p*-H of Dipp), 5.98 (4H, s, N(CH)₂N of boryl ligand), 3.61 (8H, sept, ³J_{HH} = 6.9 Hz, CHMe₂), 2.66 (4H, s, NCH₂), 1.24 (24H, d, ³J_{HH} = 6.9 Hz, CHMe₂), 1.09 (24H, d, ³J_{HH} = 6.9 Hz, CHMe₂).

Deprotonation of (L²)H₂ with Benzyl Potassium (*In situ*) – Generation of K₂(L²): K₂(L²) was prepared by a similar method to K₂(L¹) from (L²)H₂ (50 mg, 0.059 mmol) and benzyl potassium (15 mg, 0.12 mmol). ¹H NMR (C₆D₆, 400 MHz, 298 K): δ_H 7.00-7.15 (12H, overlapping m, *m*-H and *p*-H of Dipp), 5.90 (4H, s, N(CH)₂N of boryl ligand), 3.61 (8H, sept, ³J_{HH} = 6.9 Hz, CHMe₂), 2.87 (4H, m, NCH₂), 1.26 (24H, d, ³J_{HH} = 6.9 Hz, CHMe₂), 1.14 (24H, d, ³J_{HH} = 6.9 Hz, CHMe₂), 0.94 (2H, m, CH₂(CH₂N)₂).

(L⁴)H: To a stirred solution of Br{B(NDippCH)₂} (2.5 g, 5.4 mmol) in benzene (50 mL) was added dropwise *tert*-butylamine (1.1 g, 15 mmol) and the resulting mixture heated to 80°C for 16 h. After cooling, the mixture was filtered and the residue extracted once more with benzene. The volatiles were removed *in vacuo*, yielding a viscous brown oil. Yield: 2.1 g, 84%. ¹H NMR (C₆D₆, 400 MHz, 298 K): δ_H 7.17-7.27 (m, 6H, Ar), 6.01 (s, 2H, N(CH)₂N), 3.49 (sept, *J* = 6.9 Hz, 4H, CHMe₂), 1.88 (s, 1H, NH), 1.35 (d, *J* = 6.9 Hz, 12H CHMe₂), 1.25 (d, *J* = 6.9 Hz, 12H, CHMe₂), 0.82 (s, 9H, NC(CH₃)₃). ¹³C NMR (C₆D₆, 101 MHz, 298 K): δ_C 147.5 (*o*-C), 140.0 (*i*-C), 127.7 (*p*-C), 124.0 (*m*-C), 118.1 (N(CH)₂N), 48.7 (NC(CH₃)₃), 33.3 (CHMe₂), 28.6 (NC(CH₃)₃), 25.5 (CHMe₂), 23.5 (CHMe₂). ¹¹B NMR (C₆D₆, 128 MHz, 298 K): δ_B 22. MS (ESI): *m/z* (assignment, %) 460.4 [M]⁺, 100%).

(L⁴)H: To a stirred solution of Br{B(NDippCH)₂} (2.5 g, 5.4 mmol) in benzene (50 mL) was added dropwise *tert*-butylamine (1.1 g, 15 mmol) and the resulting mixture heated to 80°C for 16 h. After cooling, the mixture was filtered and the residue extracted once more with benzene. The volatiles were removed *in vacuo*, yielding a viscous brown oil. Yield: 2.1 g, 84%. ¹H NMR (C₆D₆, 400 MHz, 298 K): δ_H 7.17-7.27 (m, 6H, Ar), 6.01 (s, 2H, N(CH)₂N), 3.49 (sept, *J* = 6.9 Hz, 4H, CHMe₂), 1.88 (s, 1H, NH), 1.35 (d, *J* = 6.9 Hz, 12H CHMe₂), 1.25 (d, *J* = 6.9 Hz, 12H, CHMe₂), 0.82 (s, 9H, NC(CH₃)₃). ¹³C NMR (C₆D₆, 101 MHz, 298 K): δ_C 147.5 (*o*-C), 140.0 (*i*-C), 127.7 (*p*-C), 124.0 (*m*-C), 118.1 (N(CH)₂N), 48.7 (NC(CH₃)₃), 33.3 (CHMe₂), 28.6 (NC(CH₃)₃), 25.5 (CHMe₂), 23.5 (CHMe₂). ¹¹B NMR (C₆D₆, 128 MHz, 298 K): δ_B 22. MS (ESI): *m/z* (assignment, %) 460.4 [M]⁺, 100%).

(L⁴)₂Sn: To a suspension of LiN^tBu{B(NDippCH)₂} (280 mg, 0.56 mmol) (generated *in situ* from equimolar amounts of (L⁴)H and phenyl lithium) in benzene (10 mL) and THF (1 mL) was added SnBr₂ (35 mg, 0.125 mmol), and the reaction mixture sonicated for 30 min. This resulted in the formation of a red-brown suspension with a white precipitate. The precipitate was removed by filtration and volatiles removed *in vacuo*. The residue was washed with a small amount of cold hexane and dried. This solid consisted of a mixture of yellow and red crystals. Extraction with hexane (2 x 5 mL) allowed the separation of the more soluble red product. Single crystals suitable for X-ray crystallography were grown from a concentrated solution in hexane at 4 °C. ¹H NMR (C₆D₆, 400 MHz, 298 K): δ_H 7.25-7.00 (m, 12H, Ar), 5.91 (s, 4H, NCH), 3.47 (sept, *J* = 6.8 Hz, 8H, CHMe₂), 1.32 (s, 18H, NC(CH₃)₃), 1.30 (d, *J* = 6.8 Hz, 24H, CHMe₂), 1.17 (d, *J* = 6.8 Hz, 24H, CHMe₂). ¹³C NMR (C₆D₆, 101 MHz, 298 K): δ_C 146.7 (Dipp *o*-CH), 143.0 (*i*-C), 127.7 (*p*-CH), 124.4 (*m*-CH), 120.1 (NCH), 56.9 (NC(CH₃)₃), 35.4 (NC(CH₃)₃), 28.7 (CHMe₂), 26.5 (CHMe₂), 23.2 (CHMe₂). ¹¹B NMR (C₆D₆, 128 MHz, 298 K): δ_B 25. ¹¹⁹Sn NMR (C₆D₆, 187 MHz, 298 K): δ_{Sn} 644.

2. Representative ^1H NMR spectra for new compounds

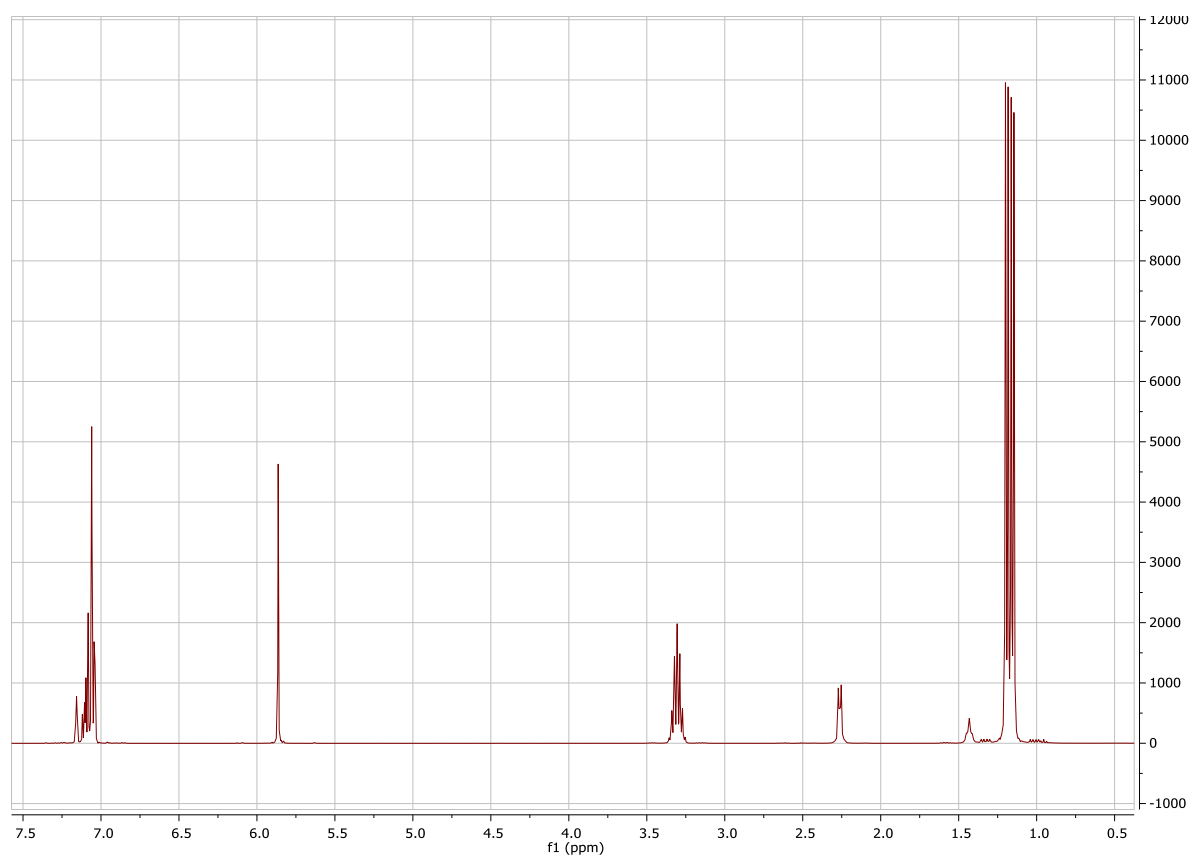


Figure s1: ^1H NMR spectrum of $(\text{L}^1)\text{H}_2$ in C_6D_6 .

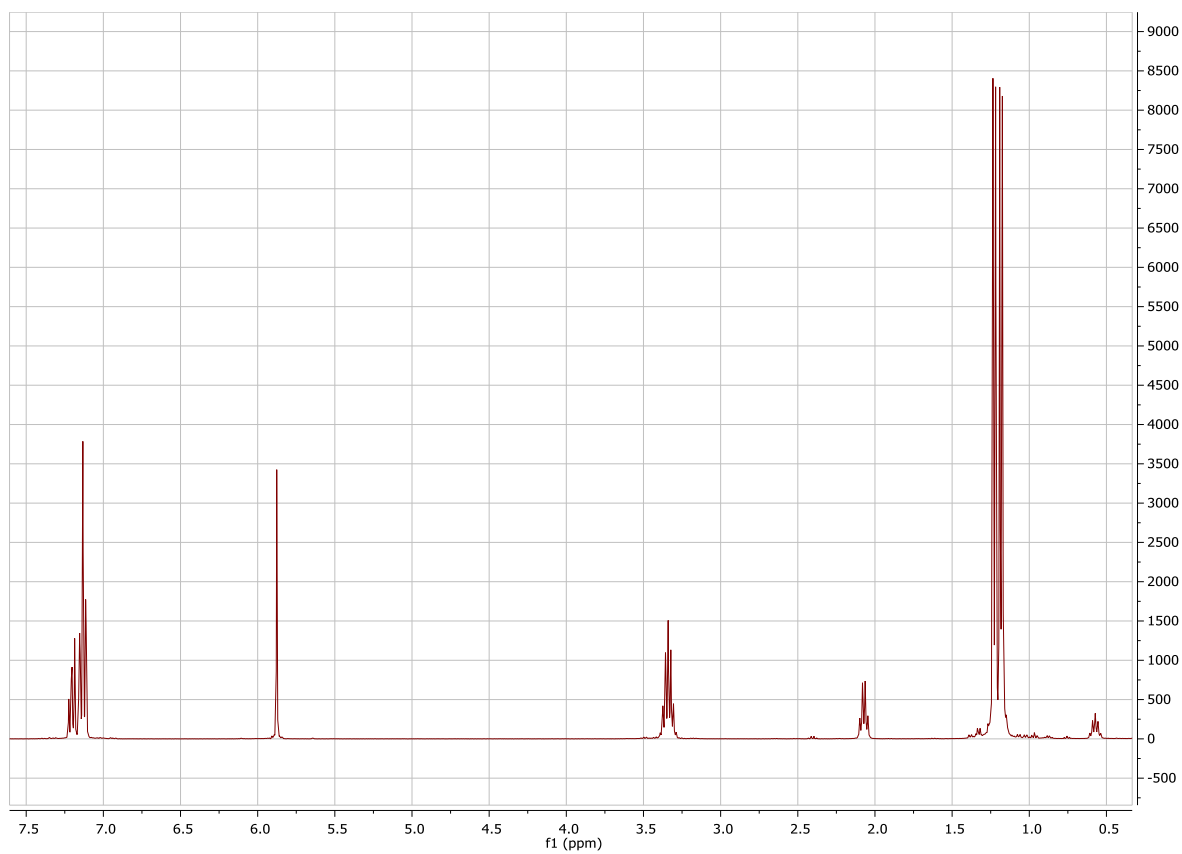


Figure s2: ^1H NMR spectrum of $(\text{L}^2)\text{H}_2$ in C_6D_6 .

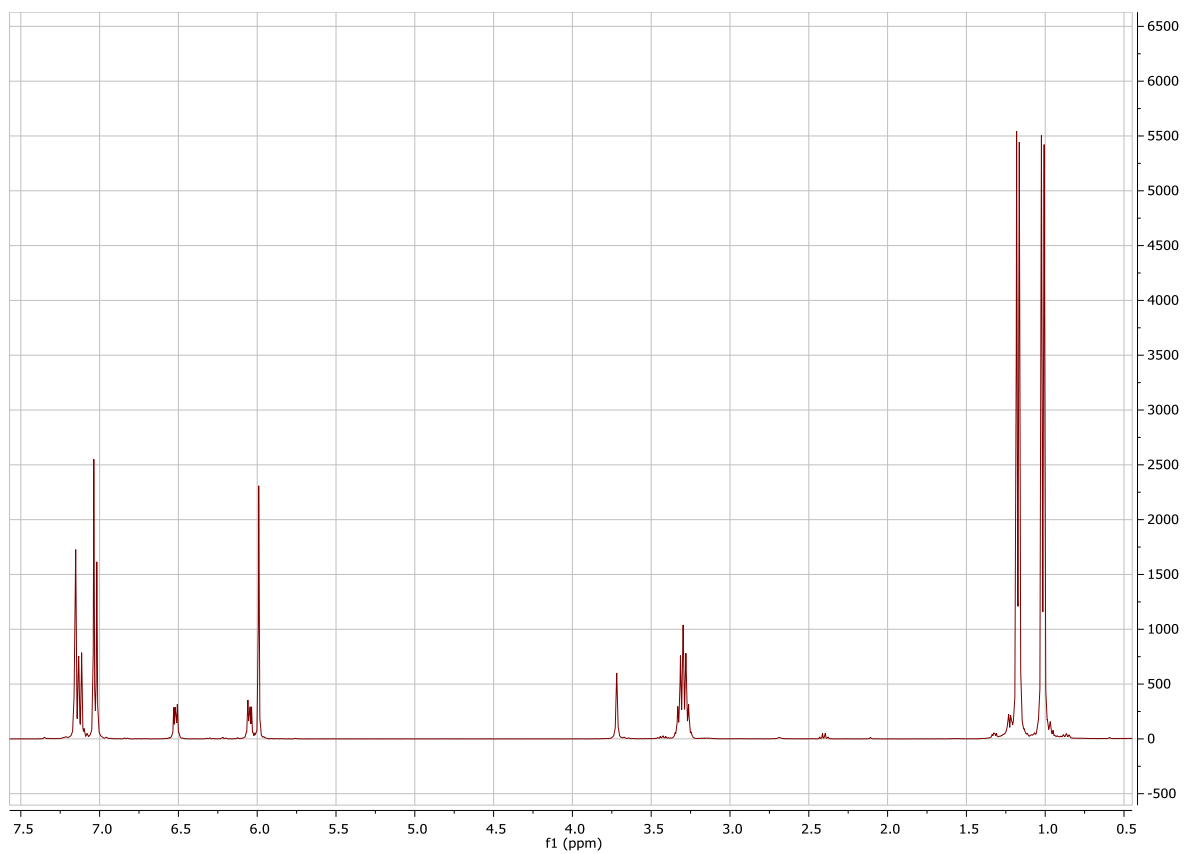


Figure s3: ^1H NMR spectrum of $(\text{L}^3)\text{H}_2$ in C_6D_6 .

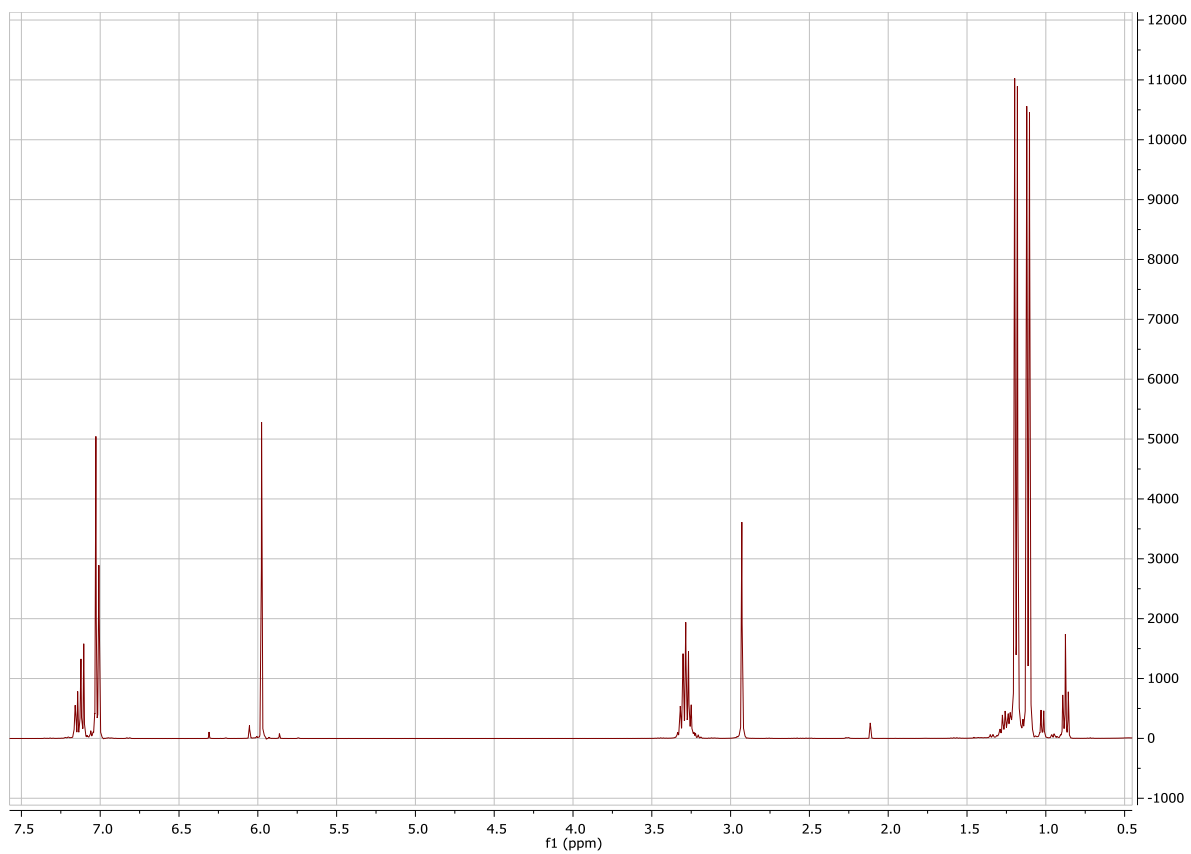


Figure s4: ^1H NMR spectrum of $(\text{L}^1)\text{Ge}$ in C_6D_6 .

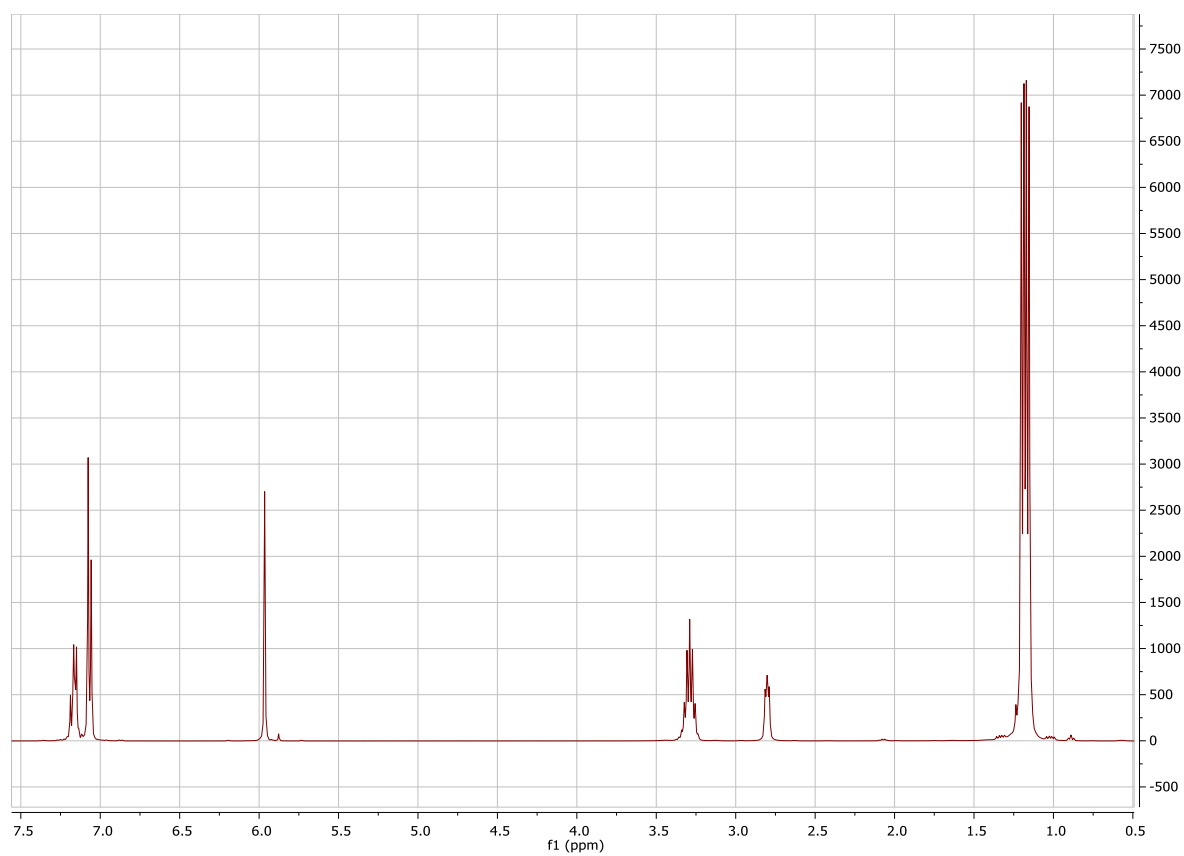


Figure s5: ^1H NMR spectrum of $(\text{L}^2)\text{Ge}$ in C_6D_6 .

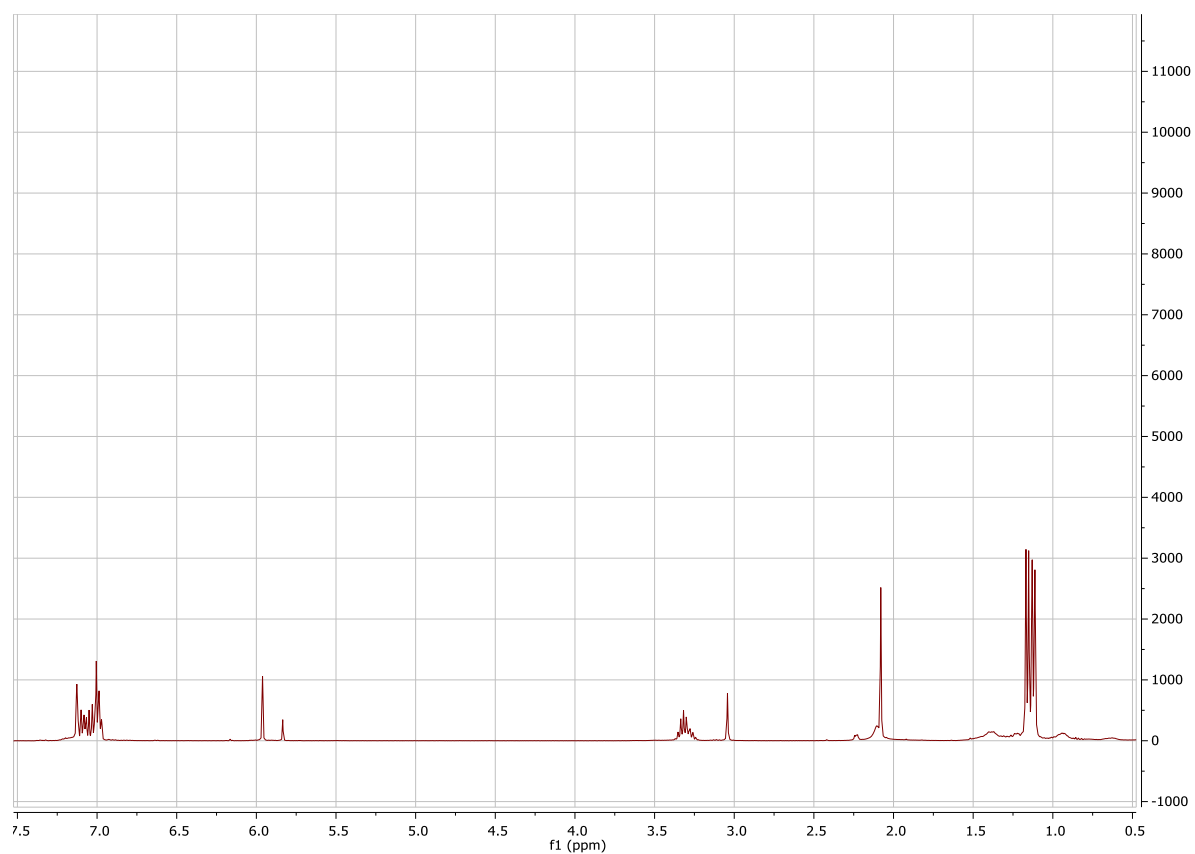


Figure s6: ^1H NMR spectrum of $(\text{L}^1)\text{Sn}$ in C_7D_8 (contaminated with ca. 10% $(\text{L}^1)\text{H}_2$).

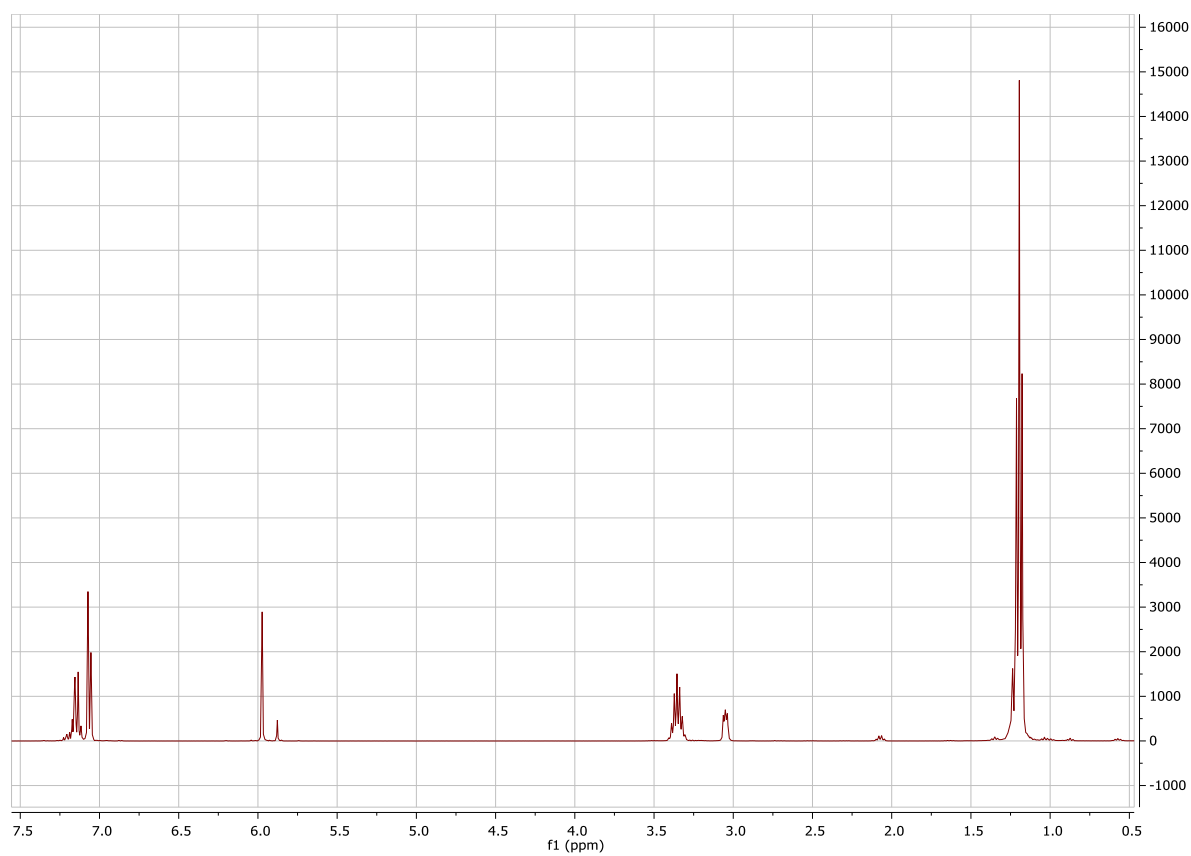


Figure s7: ^1H NMR spectrum of $(\text{L}^2)\text{Sn}$ in C_6D_6 .

3. Crystallographic data for new compounds

(L¹)H₂: $a = 14.2417(2) \text{ \AA}$, $b = 22.3662(4) \text{ \AA}$, $c = 16.4812(3) \text{ \AA}$, $\alpha = \gamma = 90^\circ$, $\beta = 97.5685(8)^\circ$, $V = 5204.06(15) \text{ \AA}^3$, Monoclinic, $P2_1$, $Z = 4$, R_1 for 8834 [data intensity $I > 2\sigma(I)$] unique data = 0.061, wR_2 (all 12110 unique data) = 0.156. CCDC: 1921772.

(L²)H₂: $a = 19.0773(2) \text{ \AA}$, $b = 13.7845(1) \text{ \AA}$, $c = 20.3735(2) \text{ \AA}$, $\alpha = \gamma = 90^\circ$, $\beta = 99.780(1)^\circ$, $V = 5279.78(9) \text{ \AA}^3$, Monoclinic, $P2_1/c$, $Z = 4$, R_1 for 9261 [data intensity $I > 2\sigma(I)$] unique data = 0.046, wR_2 (all 10581 unique data) = 0.129. CCDC: 1921773.

(L³)H₂: $a = 10.9110(1) \text{ \AA}$, $b = 12.8255(1) \text{ \AA}$, $c = 38.0195(1) \text{ \AA}$, $\alpha = \gamma = 90^\circ$, $\beta = 90.504(1)^\circ$, $V = 5320.21(9) \text{ \AA}^3$, Monoclinic, $P2_1/c$, $Z = 4$, R_1 for 9667 [data intensity $I > 2\sigma(I)$] unique data = 0.044, wR_2 (all 10581 unique data) = 0.129. CCDC: 1921774.

(L¹)Ge: $a = 12.9973(1) \text{ \AA}$, $b = 20.9096(1) \text{ \AA}$, $c = 21.1512(2) \text{ \AA}$, $\alpha = \gamma = 90^\circ$, $\beta = 103.4323(7)^\circ$, $V = 5590.98(8) \text{ \AA}^3$, Monoclinic, $P2_1/c$, $Z = 2$, R_1 for 10696 [data intensity $I > 2\sigma(I)$] unique data = 0.031, wR_2 (all 11074 unique data) = 0.1169. CCDC: 1921775.

(L²)Ge: $a = 10.6441(2) \text{ \AA}$, $b = 13.4667(4) \text{ \AA}$, $c = 19.8671(5) \text{ \AA}$, $\alpha = 70.951(2)^\circ$, $\beta = 78.3208(19)^\circ$, $\gamma = 89.024(2)^\circ$, $V = 2632.39(12) \text{ \AA}^3$, Triclinic, $P-1$, $Z = 2$, R_1 for 9784 [data intensity $I > 2\sigma(I)$] unique data = 0.035, wR_2 (all 10869 unique data) = 0.097. CCDC: 1921776.

(L¹)Sn: $a = 10.444(1) \text{ \AA}$, $b = 19.182(1) \text{ \AA}$, $c = 27.692(1) \text{ \AA}$, $\alpha = 93.576(2)^\circ$, $\beta = 96.319(3)^\circ$, $\gamma = 90.149(2)^\circ$, $V = 5503.4(3) \text{ \AA}^3$, Triclinic, $P-1$, $Z = 2$, R_1 for 14921 [data intensity $I > 2\sigma(I)$] unique data = 0.117, wR_2 (all 20167 unique data) = 0.346. CCDC: 1921777.

(L²)Sn: $a = 10.5800(2) \text{ \AA}$, $b = 13.7902(2) \text{ \AA}$, $c = 36.8584(4) \text{ \AA}$, $\alpha = \gamma = 90^\circ$, $\beta = 91.0379(12)^\circ$, $V = 5376.77(14) \text{ \AA}^3$, Monoclinic, $P2_1/c$, $Z = 4$, R_1 for 10216 [data intensity $I > 2\sigma(I)$] unique data = 0.101, wR_2 (all 11187 unique data) = 0.322. CCDC: 1921778.

(L²)Ge(OCH₂NMe₂)(OH): $a = 13.4539(2) \text{ \AA}$, $b = 18.6681(2) \text{ \AA}$, $c = 23.0034(3) \text{ \AA}$, $\alpha = \beta = \gamma = 90^\circ$, $V = 5777.61(13) \text{ \AA}^3$, Orthorhombic, $P2_12_12_1$, $Z = 4$, R_1 for 11469 [data intensity $I > 2\sigma(I)$] unique data = 0.027, wR_2 (all 12052 unique data) = 0.071. CCDC: 1921779.

(L^2)Ge(C₅H₄NO)(OH): $a = b = 42.2093(12)$ Å, $c = 13.8670(5)$ Å, $\alpha = \beta = \gamma = 90^\circ$, $V = 24705.8(17)$ Å³, Tetragonal, $I4_1/a$, $Z = 16$, R_1 for 9904 [data intensity $I > 2\sigma(I)$] unique data = 0.052, wR_2 (all 12758 unique data) = 0.153. CCDC: 1921780.

(L^4)₂Sn: $a = 26.1530(3)$ Å, $b = 12.3864(1)$ Å, $c = 17.6976(2)$ Å, $\alpha = \gamma = 90^\circ$, $\beta = 95.1853(5)^\circ$, $V = 5709.53(10)$ Å³, Monoclinic, $C2/c$, $Z = 3$, R_1 for 5980 [data intensity $I > 2\sigma(I)$] unique data = 0.030, wR_2 (all 6511 unique data) = 0.073.

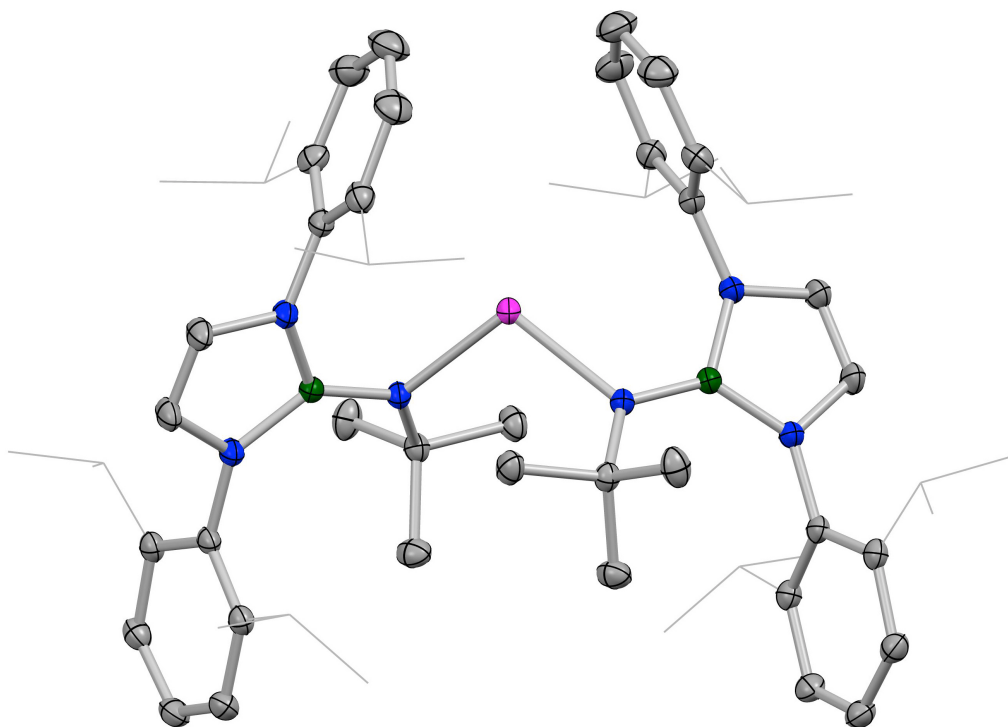


Figure s8: Molecular structure of (L^4)₂Sn in the solid state, as determined by X-ray crystallography. Most hydrogen atoms omitted and Dipp and ^tBu groups shown in wireframe format for clarity. Thermal ellipsoids set at the 50% probability level. Colour coding: green – boron; grey – carbon; blue – nitrogen, pink – tin.

4. Xyz files for DFT calculated structures

(L¹)Si

139

Si	0.74532954	4.93722387	10.68544675
N	0.15706138	3.28078654	10.92353094
C	-0.15389583	2.61284449	9.63503077
C	0.74856620	3.24090392	8.57830143
N	0.90923658	4.67319166	8.93661705
B	1.31285029	5.63374576	7.92475244
N	1.80830524	5.38078466	6.57000833
C	2.05246911	6.62206898	5.94883593
C	1.74786908	7.62791971	6.80624209
N	1.29349728	7.09083647	8.02345641
C	0.85269878	7.97209706	9.06982337
C	-0.51895670	8.31078990	9.15798464
C	-0.91743995	9.20759081	10.15998967
C	0.00904563	9.76618283	11.03863188
C	1.35794868	9.43203085	10.92970628
C	1.80732154	8.53382462	9.95188066
C	3.29209560	8.20510605	9.84857948
C	3.88016252	7.73768399	11.19141164
C	4.08731528	9.40132949	9.28855138
C	-1.55363139	7.75772165	8.18531447
C	-2.10695072	8.86869147	7.27145229
C	-2.69373582	7.02244571	8.91104499
C	2.10799832	4.16954199	5.85449829
C	1.14936313	3.63813469	4.95695367
C	1.47474383	2.46987350	4.25225319
C	2.70971033	1.84540337	4.42075005
C	3.64864640	2.39025679	5.29505275
C	3.37416345	3.55870725	6.02153184
C	4.44745315	4.16131910	6.92128379
C	5.56141035	4.81359036	6.07748494
C	5.03823585	3.13955303	7.90785234
C	-0.19835277	4.31321687	4.72337043
C	-1.38294623	3.34624206	4.90221608
C	-0.24736348	4.97897403	3.33348075
B	-0.17984853	2.63404670	12.17905567
N	0.31863555	2.96521023	13.51068574
C	1.29498256	3.92383408	13.95036678

C	0.86198411	5.13863849	14.53500319
C	-0.61569990	5.48321897	14.68094873
C	-1.05595717	5.43105679	16.15736921
C	-0.95779588	6.84680112	14.05476876
C	1.83506504	6.03273878	15.00285856
C	3.19422457	5.74311813	14.89511837
C	3.60384917	4.54115974	14.32066555
C	2.67119349	3.60695815	13.84718727
C	3.15776704	2.28015431	13.27676489
C	3.79983771	1.40818029	14.37370535
C	4.12185937	2.47728615	12.09395615
C	-0.25645059	2.07670931	14.43632621
C	-1.07634199	1.21093736	13.78919009
N	-1.07168700	1.49722179	12.40942975
C	-1.91455096	0.73578635	11.52741720
C	-3.19758267	1.23110401	11.19155532
C	-4.00775937	0.45804978	10.34638507
C	-3.57391450	-0.77236891	9.85583370
C	-2.31490094	-1.25467730	10.21030324
C	-1.46435909	-0.51931398	11.04870252
C	-0.10513574	-1.09174952	11.43791421
C	-0.26306827	-2.28205891	12.40510459
C	0.73656612	-1.49801291	10.21430641
C	-3.72987042	2.54272130	11.75774046
C	-4.25750605	3.48775548	10.66457984
C	-4.81327294	2.27744907	12.82253350
H	-1.21532990	2.76388277	9.37329022
H	0.01487072	1.52931190	9.69518217
H	1.73213188	2.74022190	8.56594829
H	0.31210755	3.12423963	7.57776067
H	2.43389036	6.67997218	4.93518393
H	1.81015441	8.69961889	6.65090361
H	2.07760215	9.87605714	11.62012623
H	3.39103088	7.37690002	9.13244000
H	4.92487776	7.42036569	11.05785188
H	3.31172214	6.89379768	11.60507102
H	3.87543109	8.54479306	11.93894510
H	4.01497600	10.27089253	9.95921778
H	3.71441179	9.70637418	8.30113240
H	5.15154476	9.14225182	9.18541197
H	-1.04051943	7.02708316	7.54458074
H	-2.63207057	9.63945159	7.85543795
H	-2.82099631	8.45141844	6.54597174
H	-1.30076442	9.36220518	6.71147805

H	-2.30355592	6.21722912	9.54864371
H	-3.38805413	6.57793961	8.18306221
H	-3.27468785	7.70469443	9.54924734
H	0.74861528	2.04244646	3.55787584
H	2.94335341	0.93551855	3.86437518
H	4.61845868	1.90239979	5.41119146
H	3.97003991	4.95733211	7.50980595
H	4.67012393	4.31665045	14.24930598
H	5.57807845	2.33423837	7.38822341
H	4.25609200	2.67608374	8.52463391
H	5.75341430	3.63252155	8.58181087
H	-0.29727426	5.10919202	5.47504810
H	-1.37442484	2.87165305	5.89326846
H	-1.37254761	2.54539711	4.14840208
H	-2.33427682	3.88719108	4.79422820
H	0.56059794	5.71316723	3.21301749
H	-1.20523357	5.50005827	3.18879715
H	-0.14484021	4.23056713	2.53327608
H	-1.18297957	4.71386361	14.13820886
H	-0.86757830	4.44315031	16.59994336
H	-2.13148552	5.64453336	16.24638645
H	-0.51346621	6.17694286	16.75775238
H	-0.63916248	6.89478893	13.00476463
H	-0.46952081	7.67304741	14.59260148
H	-2.04289287	7.02226180	14.09730609
H	2.27572384	1.74301376	12.90126736
H	4.10866933	0.43574064	13.96217461
H	3.09648162	1.22258943	15.19707544
H	4.69235094	1.89363330	14.79631567
H	5.04724709	2.98435981	12.40490343
H	3.65805786	3.08065930	11.30153309
H	4.40529020	1.50535532	11.66419267
H	-0.02144407	2.13297189	15.49373609
H	-1.68005047	0.40728967	14.19669014
H	-5.00008228	0.82328602	10.07437950
H	-4.22040830	-1.35931678	9.20045436
H	-1.98540993	-2.22326706	9.82887039
H	0.43922219	-0.30069178	11.97295483
H	0.72220469	-2.66101092	12.71426154
H	-0.80921289	-3.10942811	11.92750272
H	-0.81500510	-1.99274607	13.30954543
H	1.73250772	-1.83736185	10.53406823
H	0.87249496	-0.65921551	9.51750058
H	0.27107431	-2.32331428	9.65581203

H	-2.89122587	3.04629710	12.25844757
H	-3.48814923	3.69877148	9.90931740
H	-4.56891352	4.44472556	11.10719978
H	-5.13087754	3.06529401	10.14610407
H	-4.42673351	1.64835477	13.63587255
H	-5.68259224	1.76537956	12.38303374
H	-5.16355422	3.22392845	13.26014114
H	-1.97107448	9.48134520	10.24596586
H	-0.32071925	10.46635291	11.80865035
H	1.52178914	6.97510262	15.45646765
H	3.93626962	6.45445308	15.26288756
H	6.31341417	5.28326111	6.72858620
H	5.15578187	5.58783460	5.41222706
H	6.07314237	4.06537949	5.45347467

(L²)Si
142

Si	0.81351459	0.94821020	23.17095305
N	1.46545954	1.87996496	21.82200994
C	2.70271689	1.58057082	21.05791258
C	3.61383006	0.57610590	21.74942601
C	2.89168413	-0.71632248	22.11554996
N	1.86010878	-0.47336177	23.15337635
B	1.79002342	-1.48040142	24.19861328
N	1.95636122	-2.91555362	24.04135237
C	1.72999226	-3.65104319	22.83307368
C	2.81914984	-4.20699343	22.12996074
C	2.55637930	-4.87370732	20.92502519
C	1.25481950	-4.98209354	20.43355136
C	0.18861982	-4.44225681	21.15328664
C	0.40148222	-3.77692905	22.36830537
C	-0.77894148	-3.24861707	23.17199224
C	-1.66208137	-4.40546424	23.67281446
C	-1.59799168	-2.21146422	22.39555484
C	4.23251482	-4.12614046	22.68643080
C	4.58762597	1.82729336	25.72646303
C	4.50495891	-0.35668971	27.01075560
C	1.85049984	-3.51859063	25.30805717
C	1.64954790	-2.55591125	26.24713464
N	1.61148842	-1.29644053	25.62338487
C	1.32132576	-0.09202921	26.33667923
C	2.35518061	0.85383951	26.53241394
C	2.04102936	2.02825949	27.22556088

C	0.74883870	2.25973270	27.70243228
C	-0.25663569	1.31946070	27.48822415
C	0.00579620	0.12902349	26.79590958
C	-1.11238586	-0.87118599	26.53032815
C	-1.66245380	-1.45586835	27.84255484
C	-2.23216782	-0.26060077	25.67186832
C	3.76367168	0.56850126	26.02555568
C	4.62481298	-5.46414908	23.34227479
C	5.26888899	-3.70506037	21.63202702
B	0.74436046	3.05773672	21.35135742
N	1.30459014	4.34217669	20.95956254
C	0.25787952	5.17816338	20.53382853
C	-0.91887308	4.50376702	20.62286678
N	-0.67624844	3.20908315	21.11100532
C	-1.74437808	2.30836725	21.41823386
C	-2.00330199	1.22264830	20.55461010
C	-3.05384391	0.35678802	20.88768660
C	-3.82052977	0.56239907	22.03373968
C	-3.54830999	1.64249838	22.87392837
C	-2.50646760	2.53326072	22.58809274
C	-2.21895099	3.70970452	23.51260061
C	-3.34827241	4.75290629	23.43376833
C	-1.96219243	3.27229286	24.96277586
C	-1.16391173	0.97826544	19.30842900
C	-0.28489154	-0.27606863	19.46447217
C	-2.03161651	0.89420683	18.04079588
C	2.57002286	4.88488675	21.35490260
C	3.62658740	4.95315586	20.42067897
C	4.86038714	5.45663340	20.85470989
C	5.04084652	5.87177155	22.17519522
C	3.98067752	5.80966406	23.07932304
C	2.72367730	5.32770388	22.68739241
C	1.56258493	5.31847031	23.67231967
C	1.81780628	4.37779353	24.85672825
C	1.22414021	6.74285070	24.14677813
C	3.41474889	4.52140005	18.97692275
C	3.16601104	5.75228861	18.08413269
C	4.56723469	3.66604214	18.42756462
H	3.26449612	2.51078394	20.90101163
H	2.42367269	1.19854180	20.05876497
H	4.45511740	0.34915669	21.07631254
H	4.03446780	1.02162792	22.66589774
H	2.43829924	-1.17299952	21.21897771
H	3.61895862	-1.44171025	22.50348125

H	3.38117464	-5.31401424	20.36206822
H	1.07020705	-5.49727156	19.48894580
H	-0.82847554	-4.54528795	20.76962122
H	-0.37932389	-2.74181409	24.06103902
H	-2.12067300	-4.95002812	22.83372505
H	-2.47206400	-4.01819330	24.30820757
H	-1.07463532	-5.12283804	24.26247154
H	-0.97622157	-1.35969996	22.09391537
H	-2.41211317	-1.81635705	23.01734572
H	-2.04691953	-2.64062474	21.48734253
H	4.22121818	-3.36374923	23.47995194
H	5.54399414	1.54367238	25.26447138
H	4.82584676	2.39213257	26.64022578
H	4.06304940	2.50136890	25.03637522
H	5.50948206	-0.60052545	26.63387111
H	3.95719011	-1.29703753	27.15710044
H	4.61483272	0.13483773	27.98911924
H	1.92614339	-4.59325451	25.43267672
H	1.54537359	-2.65455518	27.32230020
H	2.81080871	2.78273695	27.38629210
H	0.52475208	3.18658524	28.23359489
H	-1.26870921	1.52050218	27.84449056
H	-0.68357894	-1.70351710	25.95669094
H	-0.86454762	-1.93164214	28.43014106
H	-2.43404757	-2.21153642	27.63441692
H	-2.11759572	-0.67288219	28.46746014
H	-1.83587690	0.14715672	24.73224678
H	-2.74583215	0.55446303	26.20161488
H	-2.98258668	-1.02660364	25.42624550
H	3.65691675	0.02241348	25.07644960
H	4.62486948	-6.27544406	22.59880045
H	3.91686300	-5.73578048	24.13723085
H	5.63062342	-5.40269253	23.78332999
H	6.24885835	-3.54528936	22.10415073
H	4.97308027	-2.77443061	21.12811081
H	5.39944111	-4.47698142	20.85953234
H	0.44341327	6.19486717	20.20522480
H	-1.91991908	4.82853322	20.36164870
H	-3.26790559	-0.49841678	20.24454412
H	-4.62968315	-0.12812924	22.27820589
H	-4.14525787	1.78757373	23.77606740
H	-1.29957946	4.19223155	23.15450342
H	-3.11256967	5.62539968	24.06070795
H	-4.30026375	4.32814362	23.78628128

H	-3.49727202	5.10122930	22.40222627
H	-1.14869574	2.53756155	25.01695922
H	-2.85839433	2.82532884	25.41694025
H	-1.67965092	4.14215805	25.57408184
H	-0.49354203	1.84229343	19.19547672
H	0.36213597	-0.40731473	18.58472294
H	-0.89726259	-1.18272455	19.57250140
H	0.35442912	-0.19705109	20.35385902
H	-2.65437570	1.79221297	17.92683645
H	-2.70052390	0.02115223	18.06666812
H	-1.39668538	0.79846492	17.14785979
H	5.69325562	5.52159071	20.15267216
H	6.01191981	6.25129687	22.49879394
H	4.12828033	6.14695778	24.10729291
H	0.67877856	4.93906606	23.14171183
H	2.69518073	4.68963608	25.44264590
H	1.98595924	3.34834888	24.51375425
H	0.95074215	4.35385436	25.53062766
H	2.05401472	7.18485699	24.71817009
H	0.33894252	6.72468806	24.79918424
H	1.01039810	7.40233837	23.29423857
H	2.50078683	3.90916988	18.95908170
H	4.04219848	6.41808924	18.08899457
H	2.30151636	6.32915628	18.43972069
H	2.97192667	5.44770986	17.04514337
H	5.49893989	4.24357375	18.33803421
H	4.31649648	3.29281210	17.42430990
H	4.76788795	2.80074530	19.07452402

(L³)₂Si

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Si	13.01443611	7.15968124	3.31854017
N	11.20825946	7.40553792	3.42903768
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C	11.09455666	6.24300500	1.12662970
C	9.24415787	7.73896747	1.79619251
C	11.44710700	8.73499936	1.27647766
B	10.09091320	7.23823041	4.39437952
N	9.15136656	6.08164518	4.45261331
C	9.06208916	4.81118563	3.76529420
C	7.95743272	4.53372648	2.91043287
C	7.92565863	3.30043383	2.23748491
C	8.92147583	2.34759373	2.41118499
C	9.94412404	2.59254179	3.32532939

C	10.02054194	3.79727411	4.03824815
C	11.05640737	3.95262106	5.14871371
C	12.14223514	2.87073536	5.14964925
C	10.38301721	3.96575219	6.53825754
C	6.74336211	5.45370827	2.73400753
C	6.34964561	5.67171206	1.26001270
C	5.52305466	4.89709179	3.50014046
C	8.11130046	6.38578604	5.33992829
C	8.30940710	7.60147851	5.88348676
N	9.49802814	8.18112096	5.40563403
C	9.83508317	9.42853755	6.07818618
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C	10.17859188	10.67920922	8.13923824
C	10.32347811	11.86334648	7.42702696
C	10.19365942	11.83516958	6.04221991
C	9.92201762	10.64502119	5.35279100
C	9.62754670	10.71097608	3.86262275
C	8.10442424	10.78616262	3.62791067
C	10.33080034	11.86293616	3.13082745
C	9.82160819	8.22320530	8.41447127
C	10.96054547	8.14463135	9.45350058
C	8.48500301	8.20415927	9.18966624
H	10.71233608	6.34414487	0.09777638
H	12.17701503	6.07099842	1.07632405
H	10.62641970	5.36152607	1.58458247
H	9.02432896	7.99436671	0.74817759
H	8.87111141	8.55724495	2.42330162
H	8.69146255	6.83098251	2.04104998
H	11.16212737	8.79471205	0.21366279
H	12.54173076	8.66374315	1.33198106
H	11.15229533	9.67003364	1.76701850
H	7.09298388	3.08566412	1.56615043
H	8.88514027	1.40429747	1.86477173
H	10.68930340	1.81947014	3.50530483
H	11.55365956	4.92138305	5.00387514
H	12.91131986	3.11930894	5.89331714
H	12.64383218	2.77539907	4.17959020
H	11.72810387	1.88730474	5.42184073
H	11.14458002	4.09294526	7.32198354
H	9.64938770	4.77528330	6.64007679
H	9.86837089	3.00852771	6.71791656
H	6.98601103	6.43250537	3.16642357
H	5.54878351	6.42322693	1.19400052
H	7.19603154	6.02009735	0.65519988

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H	4.67424197	5.59402284	3.42608584
H	5.73686511	4.73365310	4.56493720
H	5.20710380	3.93102886	3.07787421
H	7.30534520	5.69055209	5.53291366
H	7.67847775	8.12965921	6.58363673
H	10.26354107	10.70039005	9.22664217
H	10.52213710	12.80189464	7.94622825
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H	9.99663515	9.77595652	3.42923264
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H	7.69442094	11.70941242	4.06662748
H	7.58345195	9.93266282	4.08403813
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H	11.41541449	11.85775762	3.30586664
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H	8.42609408	7.30437814	9.82103703
H	8.41235732	9.08319394	9.84839577
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C	13.13913788	9.07748801	6.20349814
B	15.46961430	7.33389982	4.25881569
N	16.49909200	6.30066192	4.45789988
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C	16.84654056	3.17518513	6.50246941
C	16.24212607	2.23962355	5.66754641
C	15.78092014	2.63371727	4.41283679
C	15.87123597	3.96607431	3.98412637
C	15.53229760	4.32227821	2.53716923
C	14.34585322	3.55024992	1.94649114
C	16.78037139	4.12694593	1.64872894
C	17.76264081	5.47045972	7.02200010
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C	19.27858729	5.23297903	6.84909809
C	17.71642165	6.77507788	3.94974846
C	17.54450254	8.01343213	3.42704354

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C	15.06250197	10.56165981	0.73651511
C	14.83548193	11.77549996	1.37963433
C	15.12286700	11.90062684	2.73766496
C	15.60295137	10.81395567	3.48538665
C	16.05321036	11.02350884	4.92865921
C	17.56825398	11.31504081	4.98920810
C	15.28592767	12.13114973	5.66742891
C	15.90236561	8.17749010	0.65774462
C	14.82752991	7.71723312	-0.33858843
C	17.24069085	8.38805575	-0.08401231
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H	13.24033671	5.61568428	6.57236342
H	14.75798895	7.99117368	8.05834484
H	15.79125128	8.35997396	6.66040042
H	15.44683552	6.66489456	7.09404127
H	12.83664586	9.36365435	7.22164356
H	12.25832854	9.12727384	5.55498899
H	13.86321593	9.81399348	5.83968240
H	17.25080261	2.85238348	7.46314975
H	16.15513717	1.19875717	5.98224951
H	15.35656837	1.88565387	3.74282409
H	15.25906173	5.38708021	2.50716373
H	14.16705210	3.88566171	0.91495440
H	13.42382345	3.73095063	2.51350978
H	14.52758614	2.46540011	1.90679988
H	16.55936629	4.42500397	0.61232271
H	17.62754281	4.73007972	2.00287350
H	17.09148620	3.06992243	1.64103707
H	17.55045162	6.49613914	6.69432383
H	17.91599879	6.13986545	9.08810979
H	16.31993509	5.46567912	8.68552615
H	17.70983944	4.38803370	8.93218050
H	19.84974598	5.95085162	7.45779010
H	19.59570851	5.34742041	5.80417860
H	19.55364048	4.21726282	7.17263953
H	18.62082540	6.18104807	3.99213052
H	18.27671522	8.64918646	2.94484325
H	14.87789565	10.48125066	-0.33584405
H	14.45712069	12.63146126	0.81895880
H	14.98263069	12.86558329	3.22498141

H	15.88776766	10.07796662	5.46120982
H	17.88939102	11.44712338	6.03417431
H	17.80738416	12.23812445	4.43830908
H	18.15485681	10.49425639	4.55640397
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H	14.19788773	12.00368452	5.59202017
H	15.54055670	13.12795180	5.27709553
H	16.04271636	7.36661094	1.38452457
H	15.16845372	6.80966640	-0.85904923
H	14.62445062	8.47667176	-1.10865138
H	13.88878195	7.48042960	0.17586414
H	17.54797840	7.45858840	-0.58733272
H	17.14278530	9.17325862	-0.85016324
H	18.04654395	8.68681481	0.59996385

(L¹)Ge
139

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C	0.78912430	3.28625393	8.65057308
N	0.93639713	4.72960597	8.93142537
B	1.34875866	5.65001528	7.89889133
N	1.79419507	5.37317243	6.52866939
C	2.06345582	6.60117592	5.89221505
C	1.82567724	7.62355687	6.75214346
N	1.39093343	7.11012825	7.98608981
C	1.03690266	7.99666014	9.05750498
C	-0.31609998	8.38253523	9.22079415
C	-0.63186703	9.27018341	10.25985291
C	0.35599794	9.77315834	11.10477570
C	1.68477867	9.39335480	10.92322315
C	2.05283481	8.50245128	9.90527945
C	3.51747965	8.12208968	9.72125188
C	4.15759711	7.60846291	11.02294246
C	4.32667769	9.30011938	9.14293735
C	-1.41356367	7.89359361	8.28308658
C	-1.92412501	9.04026635	7.38806325
C	-2.57582066	7.22837535	9.04062260
C	2.01845317	4.14779335	5.81097183
C	1.00284142	3.64486615	4.96109304
C	1.25370347	2.45942865	4.25453405
C	2.47139220	1.79140441	4.37419907

C	3.46699540	2.30800198	5.20187206
C	3.26708959	3.49079363	5.92916954
C	4.39767320	4.05579390	6.78180707
C	5.51334741	4.64062782	5.89240568
C	4.97062302	3.02115135	7.76594360
C	-0.33105596	4.36296891	4.78487990
C	-1.53310355	3.45079102	5.09127430
C	-0.45192624	4.96630537	3.37143878
B	-0.22890880	2.62308941	12.20798749
N	0.22932318	2.96131270	13.55540985
C	1.13350883	3.97955783	14.00813396
C	0.61403793	5.16443208	14.58512527
C	-0.88527310	5.40153306	14.72619827
C	-1.32482100	5.31457869	16.20113168
C	-1.32415390	6.73886032	14.10316798
C	1.51915049	6.12892073	15.04978007
C	2.89574430	5.93746443	14.94476239
C	3.39195686	4.76444565	14.37837759
C	2.53005676	3.76276899	13.90823253
C	3.11031346	2.46895047	13.34912406
C	3.78621694	1.64202846	14.46081561
C	4.08151226	2.72146537	12.18288742
C	-0.30861347	2.02995350	14.46054613
C	-1.07289914	1.13145265	13.78902071
N	-1.06524499	1.43699417	12.41378421
C	-1.84788082	0.64571712	11.50456698
C	-3.14706208	1.07902251	11.14576745
C	-3.89361234	0.28197336	10.26511841
C	-3.38311191	-0.91368595	9.76247314
C	-2.10962573	-1.33664462	10.14060518
C	-1.32045635	-0.57435832	11.01412724
C	0.06017305	-1.07851896	11.42159651
C	-0.04891046	-2.31740544	12.33236806
C	0.95873338	-1.37595157	10.20695864
C	-3.76211200	2.34908849	11.72293246
C	-4.29090813	3.29813229	10.63349473
C	-4.87205978	2.00580766	12.73686655
H	-1.22251400	2.92021214	9.35950034
H	-0.08265356	1.60512020	9.69559931
H	1.76802183	2.77923371	8.73430235
H	0.42111877	3.11016172	7.63052238
H	2.41117828	6.63998339	4.86548180
H	1.92465395	8.69100720	6.58636799
H	2.45259492	9.79530728	11.58712982

H	3.54939072	7.30561108	8.98588385
H	5.18192940	7.25791004	10.82900178
H	3.58345947	6.77646996	11.45305095
H	4.21992234	8.39971190	11.78467420
H	4.32113905	10.15796455	9.83231887
H	3.91428247	9.63784545	8.18235787
H	5.37373880	9.00512599	8.97908533
H	-0.96568033	7.13471148	7.62661787
H	-2.38014084	9.84072583	7.98999838
H	-2.68558768	8.67134668	6.68499019
H	-1.10627975	9.48334833	6.80339869
H	-2.22037372	6.39498817	9.66254705
H	-3.31699966	6.83239249	8.33124721
H	-3.09511561	7.94156495	9.69779275
H	0.48177322	2.05334853	3.59753613
H	2.64693722	0.86917004	3.81683624
H	4.42237901	1.78528732	5.28057922
H	3.97769454	4.88250553	7.37177932
H	4.47180459	4.61687145	14.31085238
H	5.44830302	2.18011264	7.24201950
H	4.18775256	2.60946660	8.41759637
H	5.73456660	3.48681763	8.40514005
H	-0.34897988	5.19474779	5.50301764
H	-1.47589755	3.03258053	6.10570990
H	-1.59498643	2.60944945	4.38542503
H	-2.47170374	4.01837429	5.01154120
H	0.37358573	5.65985745	3.16097062
H	-1.39684593	5.51989133	3.26813135
H	-0.43554957	4.17998511	2.60180380
H	-1.39342012	4.59397560	14.18047159
H	-1.06565086	4.34196321	16.64144890
H	-2.41332999	5.44816324	16.28768110
H	-0.83973518	6.09664910	16.80461013
H	-1.00823273	6.81524689	13.05377959
H	-0.89786270	7.59707994	14.64349850
H	-2.41910513	6.83519768	14.14338141
H	2.27033223	1.87695035	12.96020830
H	4.16261108	0.68994782	14.05822657
H	3.08122367	1.41457599	15.27216435
H	4.63878121	2.18389215	14.89728582
H	4.96573433	3.29087526	12.50542697
H	3.59388229	3.28448653	11.37498835
H	4.43623851	1.76697299	11.76748768
H	-0.09344243	2.08274666	15.52242934

H	-1.63769453	0.29093736	14.17783608
H	-4.89677044	0.60029864	9.97412721
H	-3.98091428	-1.51983150	9.07893710
H	-1.71936528	-2.27830354	9.74897449
H	0.53836909	-0.27937140	12.00527248
H	0.94924658	-2.64638008	12.65705676
H	-0.52593249	-3.15672567	11.80422064
H	-0.64505606	-2.10312026	13.22980845
H	1.96287797	-1.67547424	10.54080477
H	1.06651696	-0.49640538	9.55724945
H	0.55610531	-2.19622145	9.59467348
H	-2.96739826	2.87665549	12.26854616
H	-3.50248508	3.56584286	9.91677317
H	-4.66669010	4.22650505	11.08728742
H	-5.12069573	2.84853598	10.06829476
H	-4.48778489	1.37376987	13.54903450
H	-5.69874616	1.46579419	12.25105140
H	-5.28360740	2.92302390	13.18352517
H	-1.66879619	9.58127113	10.40253872
H	0.08988903	10.46657776	11.90491574
H	1.13839921	7.04868519	15.49815889
H	3.58404850	6.70238313	15.30942752
H	6.30730933	5.08432104	6.51118667
H	5.12336991	5.42246593	5.22661737
H	5.96943680	3.85944234	5.26563653

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142

Ge	0.59467194	1.04769583	23.39694301
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C	3.37611118	0.61096045	21.84241022
C	2.66117172	-0.69279504	22.18820990
N	1.67108700	-0.52460424	23.27358211
B	1.53633496	-1.62841443	24.21026576
N	1.80002817	-3.05334336	23.96795347
C	2.18186111	-3.78551367	22.78986435
C	3.51425632	-4.24763962	22.66209408
C	3.85401695	-4.99386500	21.52314477
C	2.91188129	-5.27280580	20.53659436
C	1.60155363	-4.81487047	20.67894884
C	1.20655405	-4.07456127	21.80229393
C	-0.24749819	-3.64659723	21.97808128

C	-1.01588082	-4.67657321	22.83362625
C	-0.98465195	-3.40692603	20.65235270
C	4.57731595	-3.96942426	23.72083334
C	4.24091712	1.29646331	26.59860811
C	3.94890320	-1.01286328	27.57927529
C	1.57912457	-3.75679153	25.16734477
C	1.19382105	-2.89353269	26.13871516
N	1.15473637	-1.58512800	25.62304032
C	0.84638299	-0.49130288	26.50229062
C	1.89812784	0.32714903	26.98845574
C	1.57132742	1.36458379	27.87240776
C	0.25588799	1.57306320	28.28922426
C	-0.75975825	0.74156866	27.82445261
C	-0.49066918	-0.30034081	26.92418097
C	-1.62722097	-1.20062891	26.45091727
C	-2.18302779	-2.05154215	27.60998282
C	-2.75519906	-0.40433434	25.77251058
C	3.35267349	0.04415688	26.62491031
C	4.98165558	-5.26150528	24.45807872
C	5.82027690	-3.27526879	23.13247962
B	0.68366037	3.30554317	21.54016165
N	1.32990456	4.51994167	21.02376690
C	0.33445882	5.47558180	20.75003797
C	-0.88470697	4.96274073	21.04834310
N	-0.73888661	3.64941236	21.52838227
C	-1.91235995	2.86472441	21.79333206
C	-2.34113517	1.91507712	20.83454056
C	-3.50268065	1.17695354	21.10663464
C	-4.23994145	1.39268219	22.26943363
C	-3.82602944	2.36099451	23.18335542
C	-2.66174018	3.11189834	22.97020487
C	-2.25716156	4.18380001	23.97710590
C	-3.24202283	5.36993960	23.94754311
C	-2.12126700	3.62818317	25.40493550
C	-1.61369160	1.71286265	19.51059958
C	-1.07950652	0.27879315	19.35919063
C	-2.51143944	2.09705428	18.31814804
C	2.70908087	4.90630198	20.89207202
C	3.33247123	4.84781510	19.62002784
C	4.66951420	5.25713873	19.51624723
C	5.37375578	5.71557610	20.62918940
C	4.74017704	5.78712454	21.86813860
C	3.40100979	5.39843824	22.02435782
C	2.73004649	5.54097532	23.38491016

C	3.40344209	4.65424250	24.44637854
C	2.68654375	7.01288822	23.83837525
C	2.58519665	4.37822450	18.37627304
C	2.28171325	5.56140522	17.43509727
C	3.33512649	3.26573122	17.62149848
H	3.09516683	2.51702778	20.91145159
H	2.15253026	1.21279292	20.17978728
H	4.21746533	0.38417860	21.16876760
H	3.80264700	1.04551588	22.76163172
H	2.18444275	-1.09978795	21.27868020
H	3.40920419	-1.43561348	22.49935321
H	4.87682125	-5.35836172	21.40706166
H	3.19597917	-5.85050374	19.65478506
H	0.87083644	-5.04346333	19.90241324
H	-0.24205392	-2.69535125	22.53131180
H	-1.02801645	-5.65811890	22.33594464
H	-2.05804709	-4.35485704	22.97761128
H	-0.55786971	-4.79863041	23.82358031
H	-0.43310603	-2.72105615	19.99541406
H	-1.97136130	-2.96604700	20.85156438
H	-1.15544031	-4.34408985	20.10167170
H	4.13281283	-3.29012868	24.46174000
H	5.23436663	1.04098329	26.20306152
H	4.39445232	1.71415615	27.60492536
H	3.81438715	2.08578520	25.96549934
H	4.99018225	-1.23697897	27.30313788
H	3.37859294	-1.95029177	27.54687168
H	3.94404848	-0.64321918	28.61587258
H	1.70955675	-4.83202910	25.22407293
H	0.94531211	-3.10001948	27.17400088
H	2.36027889	2.01367913	28.25418441
H	0.02557364	2.38322384	28.98388927
H	-1.78492946	0.90485382	28.16283938
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H	-1.39782357	-2.66155247	28.07769983
H	-2.96922648	-2.72955030	27.24640022
H	-2.62276238	-1.41587658	28.39327280
H	-2.37754777	0.18854324	24.92907763
H	-3.24370956	0.28473091	26.47737624
H	-3.52678127	-1.08929917	25.39118220
H	3.35538695	-0.38415201	25.61178787
H	5.43691135	-5.98610811	23.76638478
H	4.11391248	-5.74549152	24.92636664
H	5.71545221	-5.04142759	25.24734908

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H	5.55702486	-2.34222900	22.61519089
H	6.34225893	-3.92086462	22.41104875
H	0.58664990	6.45993211	20.37038643
H	-1.86175989	5.42101797	20.94206358
H	-3.84645666	0.43434881	20.38340877
H	-5.14585029	0.81354400	22.45854294
H	-4.41765169	2.53576560	24.08406551
H	-1.27135227	4.56200790	23.67260326
H	-2.91422321	6.15880354	24.64058922
H	-4.25126195	5.05302864	24.25085207
H	-3.31835704	5.80992292	22.94362784
H	-1.40464815	2.79747742	25.44561715
H	-3.08500710	3.26497410	25.79153632
H	-1.76969020	4.41732951	26.08576260
H	-0.75073277	2.39302647	19.50520566
H	-0.51998198	0.17284643	18.41796018
H	-1.89811076	-0.45542605	19.34384112
H	-0.40924735	0.01906259	20.19007256
H	-2.86429492	3.13404825	18.40322186
H	-3.39521293	1.44487998	18.25427418
H	-1.95605141	2.00115258	17.37339620
H	5.16838510	5.21751829	18.54588195
H	6.41568205	6.02576658	20.52792556
H	5.29237126	6.16258466	22.73224994
H	1.69206469	5.19783760	23.27551583
H	4.45112262	4.94668566	24.61180475
H	3.39009935	3.59962831	24.13964804
H	2.87607392	4.73703922	25.40769297
H	3.69847062	7.42017120	23.98243724
H	2.15102304	7.10246412	24.79489939
H	2.17247900	7.64294970	23.09947411
H	1.62284498	3.96709578	18.71275529
H	3.21117441	6.02398960	17.07031893
H	1.69654839	6.33919983	17.94405351
H	1.70747661	5.22110596	16.56078465
H	4.28989046	3.62501310	17.21022181
H	2.72925171	2.90477933	16.77764123
H	3.55188540	2.41035667	18.27562205

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159

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C	11.60163558	4.56882847	2.88360449
C	10.33259613	6.24873739	1.52254132
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B	9.83160622	7.13543423	4.28844878
N	8.73255628	6.19117368	4.62984706
C	8.43425338	4.79782218	4.38168356
C	7.48657038	4.46067166	3.38000509
C	7.16043095	3.10666255	3.19506464
C	7.73177102	2.11022060	3.97818533
C	8.63438522	2.45840665	4.98200121
C	8.99102487	3.79419898	5.21575514
C	9.93398057	4.14405475	6.36394320
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C	6.76030751	5.50339307	2.52873296
C	6.77903873	5.16994995	1.02481811
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C	7.69771125	6.92213297	5.24194436
C	8.02578224	8.22933275	5.31264776
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C	9.71011703	11.78484860	3.12705477
C	9.39814781	10.42565689	3.28285288
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C	7.13975492	9.96681643	2.26332127
C	9.15594572	10.03128594	0.75523111
C	10.37839723	9.96253150	7.00640969
C	11.72195305	10.34977445	7.64355415
C	9.22343889	10.35261306	7.95289759
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H	12.43727521	4.40943049	3.57469412
H	10.68676754	4.16584683	3.33365207
H	10.54166386	5.64700044	0.62407412
H	10.25443749	7.30160119	1.21713670
H	9.36623763	5.92421404	1.92653279
H	12.97990969	5.95919192	0.99099702
H	13.61452800	6.44905421	2.57615107
H	12.66346520	7.60165935	1.59778260
H	6.43794428	2.83310515	2.42437961
H	7.46840713	1.06402765	3.81687950

H	9.06518532	1.67286760	5.60131417
H	10.61077033	4.92632018	5.98762922
H	11.53327002	3.30694625	7.56468801
H	11.33387487	2.48493477	6.00352606
H	10.18106045	2.19220130	7.32944955
H	9.87891278	4.98885399	8.37420075
H	8.61265010	5.63384147	7.30419899
H	8.46238752	3.98721141	7.97285318
H	7.27054068	6.46596361	2.67128301
H	6.33584828	5.99781819	0.45165282
H	7.79835782	5.00365852	0.65326830
H	6.18799244	4.26863034	0.80435813
H	4.79706506	6.45339842	2.39447594
H	5.23579225	5.97270098	4.04842037
H	4.73666124	4.73865226	2.87074955
H	6.80066552	6.43025630	5.59720879
H	7.45110705	9.05044920	5.72258757
H	10.86659659	12.51687934	6.23333350
H	10.47413262	13.58707516	4.03575330
H	9.50611195	12.27450762	2.17372933
H	8.80632371	8.61585150	2.32697273
H	6.59987160	9.41422651	1.47870315
H	6.93176079	11.04014934	2.12892209
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139

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C	1.51877500	-0.51709500	11.57299500
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159

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C	18.83975300	5.30658300	7.61319500
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H	14.30713900	2.96795000	2.57370600
H	15.41973000	2.42266500	1.29619800
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H	17.41420700	5.65800500	1.12848300
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H	18.26549100	6.65038800	6.02861100
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