Supporting Information

Activation of Non-Polar Bonds by an Electron-Rich Gallagermylene

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V. References

I. Experimental Section

General Procedure. All experiments were performed in a glovebox or using standard Schlenkline techniques under argon atmosphere. Toluene and *n*-hexane were dried using an mBraun Solvent Purification System (SPS), degassed and stored in Schlenk flasks under argon atmosphere. Deuterated solvents were stored over molecular sieves (4 Å) and degassed prior to use. The anhydrous nature of the solvents was verified by Karl Fischer titration. $LGa(\mu-Cl)GeDMP$ (1) was synthesized according to literature procedure.¹

Spectroscopic methods. ¹H (400 MHz) and ¹³C {¹H} (100 MHz) NMR spectra were recorded using a AscendTM 400 spectrometer. The spectra were referenced to internal C_6D_5H (¹H: $\delta = 7.16$, C_6D_6) or to natural-abundance carbon resonances C_6D_6 (¹³C: $\delta = 128.06$, C_6D_6). IR spectra were recorded with an ALPHA-T FT-IR spectrometer equipped with a single reflection ATR sampling module. The IR spectrometer was placed in a glovebox to guarantee measurements under inert gas conditions.

Synthesis of L(Cl)GaGe(H)₂**Ar**^{Mes} **2.** A solution of **1** (43 mg, 0.047 mmol) in 0.5 mL of benzene-*d*₆ in a *J*-Young NMR tube was degassed at –196 °C and then exposed to a hydrogen solution (1 atm) at r.t., upon which the initially dark red solution immediately turned colourless. The solution was transferred into a Schlenk tube and concentrated in vacuo until incipient crystallization. Colourless crystals of **2** were obtained upon storage at 6 °C. Yield: 29 mg, 0.032 mmol, 68 %, m.p. 213-214 °C. ¹**H NMR (400 MHz, C**₆**D**₆, **298 K): δ [ppm]** = 7.19 – 7.13 (m, 9H, Ar*<u>H</u>, overlapping with solvent), 7.10 (dd, ³<i>J*_{HH} = 7.7, 1.7 Hz, 2H, Ar*<u>H</u>), 7.03 (dd, ³<i>J*_{HH} = 7.5, 1.7 Hz, 3H, Ar*<u>H</u>), 6.81 (s, 4H, Ar<i><u>H</u>), 6.71 (d, ³<i>J*_{HH} = 7.5 Hz, 2H, Ar*<u>H</u>), 4.90 (s, 1H, γ-C<u>H</u>), 3.64 (sept, ³<i>J*_{HH} = 6.7 Hz, 2H, C<u>*H*(CH₃)₂), 3.33 (s, 2H, Ge<u>H</u>), 2.92 (sept, ³*J*_{HH} = 6.8 Hz, 2H, C<u>*H*(CH₃)₂), 2.33 (s, 6H, *p*-C<u>*H*₃), 1.93 (s, 12H, *o*-C<u>*H*₃), 1.45 (s, 6H, NCC<u>*H*₃), 1.19 (d, ³*J*_{HH} = 6.7 Hz, 6H, CH(C<u>*H*₃)₂), 1.10 (d, ³*J*_{HH} = 6.6 Hz, 6H, CH(C<u>*H*₃)₂), 1.07 (d, ³*J*_{HH} = 6.8 Hz, 6H, CH(C<u>*H*₃)₂), 1.37 (NMR (101 MHz, C₆D₆, **298 K)**): δ [ppm] = 169.21 (N<u>C</u>CH₃), 150.03, 146.05, 143.17, 142.01, 141.50, 136.18, 136.11, 129.60, 129.14, 129.01, 127.84, 125.23, 124.19, 99.27 (γ-<u>C</u>), 29.52 (<u>C</u>H(CH₃)₂), 28.27 (<u>C</u>H(CH₃)₂), 27.83 (CH(<u>C</u>H₃)₂), 25.05 (CH(<u>C</u>H₃)₂), 24.30 (CH(<u>C</u>H₃)₂), 21.76 (*p*-CH₃), 21.49 (*o*-CH₃). **IR(ATR): ν** [cm⁻¹] = 2967, 2917, 2863, 2051, 2019, 1942, 1518, 1439, 1380, 1315, 1259, 1177, 1102, 1021, 934, 869, 848, 798, 759, 717, 639, 532, 444.</u></u></u></u></u></u></u></u>

Synthesis of L(Cl)Ga(P4)GeAr^{Mes} 3. P₄ (3.3 mg, 0.026 mmol) was added to a solution of **1** (24 mg, 0.026 mmol) in 0.5 mL of benzene-*d*₆ in a *J*-Young NMR tube. The dark red solution turned yellow and was stirred for ten minutes. The solution was transferred into a Schlenk tube and the solvent was removed in vacuo. The residue was dissolved in 1 mL of boiling *n*-hexane and crystallised at r. t. The yellow crystals were washed with *n*-hexane (3x 0.2 mL) and dried in vacuo. Yield: 15 mg, 0.015 mmol, 55 %), m.p. 285 °C. ¹**H-NMR (400 MHz, C₆D₆, 298 K): δ** [**ppm**] = 7.27 - 7.12 (m, 9H, Ar<u>*H*</u>, overlapping with solvent), 7.01 (dd, ³*J*_{HH} = 7.7, 1.5 Hz, 1H, Ar<u>*H*</u>), 6.98 (t, ³*J*_{HH} = 7.7 Hz, 1H, Ar<u>*H*</u>), 6.89 (t, ³*J*_{HH} = 7.7 Hz, 1H, Mr<u>*H*</u>), 6.70 (s, 2H, Ar<u>*H*</u>), 6.68 (s, 1H, Ar<u>*H*</u>), 4.81 (s, 1H, γ -C<u>*H*</u>), 3.95 (sept, ³*J*_{HH} = 6.7 Hz, 1H, C<u>*H*</u>(CH₃)₂), 3.55 (sept, ³*J*_{HH} = 6.7 Hz, 1H, C<u>*H*</u>(CH₃)₂), 3.11 (sept, ³*J*_{HH} = 6.9 Hz, 1H), 2.68 (sept, ³*J*_{HH} = 6.8 Hz, 1H, C<u>*H*</u>(CH₃)₂), 2.40 (s, 6H, Mes-C<u>*H*₃), 2.35 (s, 6H, Mes-C<u>*H*₃), 2.15 (d, ³*J*_{HH} = 6.8 Hz, 3H, CH(C<u>*H*₃)₂), 1.16 (d, ³*J*_{HH} = 6.9 Hz, 3H, CH(C<u>*H*₃)₂), 1.10 (d, ³*J*_{HH} = 6.9 Hz, 3H, CH(C<u>*H*₃)₂), 0.96 (d, ³*J*_{HH} = 6.8 Hz, 3H, CH(C<u>*H*₃)₂), 0.90 (d, ³*J*_{HH} = 6.8 Hz, 3H, CH(C<u>*H*₃)₂). ¹³C-NMR (101 MHz, C₆D₆, 298 K): δ [**ppm**] = 169.8 (N<u>C</u>CH₃), 169.6 (N<u>C</u>CH₃), 146.3 (Ar), 146.3 (Ar), 143.4 (Ar), 143.1 (Ar), 143.0 (Ar), 142.0 (Ar), 141.9 (Ar), 141.7 (Ar), 138.0 (Ar), 137.4 (Ar), 136.9 (Ar), 136.6 (Ar), 131.3 (Ar), 129.8 (Ar), 128.9 (Ar), 128.9 (Ar), 126.3 (Ar), 125.9</u></u></u></u></u></u></u>

(Ar), 125.2 (Ar), 125.2 (Ar), 124.6 (Ar), 97.8 (γ - \underline{C}), 32.2 (\underline{C} H(CH₃)₂), 30.3 (\underline{C} H(CH₃)₂), 29.6 (\underline{C} H(CH₃)₂), 28.9 (CH(\underline{C} H₃)₂), 28.1 (\underline{C} H(CH₃)₂), 27.8 (CH(\underline{C} H₃)₂), 26.0 (CH(\underline{C} H₃)₂), 25.4 (CH(\underline{C} H₃)₂), 25.2 (CH(\underline{C} H₃)₂), 24.5 (CH(\underline{C} H₃)₂), 24.2 (NC \underline{C} H₃), 24.0 (NC \underline{C} H₃), 23.3 (CH(\underline{C} H₃)₂), 21.8 (Mes- \underline{C} H₃), 21.2 (Mes- \underline{C} H₃), 14.6 (CH(\underline{C} H₃)₂). ³¹**P-NMR (162 MHz, C**₆**D**₆, **298 K): δ [ppm] =** 198.49 (dd, $J_{PP} =$ 141.9, 23.4 Hz), -72.30 (dd, $J_{PP} =$ 63.9, 36.0 Hz), -175.48 (ddd, $J_{PP} =$ 174.0, 157.0, 140.6 Hz), -231.38 (dd, $J_{PP} =$ 173.8, 35.3 Hz). **IR(ATR):** ν [cm⁻¹]: 2963, 2917, 2863, 1611, 1529, 1439, 1384, 1313, 1260, 1179, 1098, 1020, 941, 867, 848, 796, 778, 759, 740, 709, 641, 575, 529, 513, 438.

II. Spectroscopic Characterization



Figure S4: ¹H NMR spectrum of 2 in C_6D_6 .



Figure S5: 13 C NMR spectrum of 2 in C₆D₆.



Figure S6: IR spectrum of 2.



Figure S7. ¹H NMR spectrum of 3 in C_6D_6 .



Figure S8. ¹³C NMR spectrum of 3 in C_6D_6 .



Figure S9. ³¹P NMR spectrum (low field) of 3 in C_6D_6 .



Figure S10. ³¹P NMR spectrum (high field) of **3** in C₆D₆.



Figure S11. IR spectrum of 3.



Figure S12. Initial *in situ* ¹H NMR spectrum of 1 and H₂ at r.t.



Figure S13. Initial *in situ* ¹H NMR spectrum of 1 and P₄ at r.t.

III. Crystallographic Data

Single-crystal X-ray analyses. The crystals were mounted on nylon loops in inert oil. Data were collected on a Bruker AXS D8 Kappa diffractometer with APEX2 detector (monochromated $Mo_{K\alpha}$ radiation, $\lambda = 0.71073$ Å) at 100(2) K. The structures were solved by Direct Methods (SHELXS-2013)² and refined anisotropically by full-matrix least-squares on F^2 (SHELXL-2017).^{3,4} Absorption corrections were performed semi-empirically from equivalent reflections on basis of multi-scans (Bruker AXS APEX3). Hydrogen atoms were refined using a riding model or rigid methyl groups.

In **2** an isopropyl group is disordered over two positions. Its displacement parameters were restrained with RIGU and SIMU and those of C15 and C15' constrained to be equal due to the atoms' close proximity (EADP).

In **3** also an isopropyl group is disordered over two positions. In this case its bond lengths were restrained to be equal (SADI) and RIGU restraints were applied to the displacement parameters of the disordered atoms.

CCDC-2321151 (2), and -2321152 (3) contain the supplementary crystallographic data for this paper. These data can be obtained free of charge from The Cambridge Crystallographic Data Centre via www.ccdc.cam.ac.uk/data request/cif.

Identification code	2 (ab_316m2)	3 (ab_255am3)
Empirical formula	C56H71ClGaGeN2	C53H66ClGaGeN2P4
M	949.90	1032.71
Crystal size [mm]	$0.281\times0.140\times0.139$	$0.604 \times 0.300 \times 0.172$
<i>T</i> [K]	100(2)	100(2)
Crystal system	triclinic	monoclinic
Space group	$P\overline{1}$	C2/c
<i>a</i> [Å]	11.3222(11)	45.016(4)
<i>b</i> [Å]	12.2948(12)	10.0401(8)
<i>c</i> [Å]	20.0701(19)	23.3390(18)
α [°]	98.212(4)	90
β[°]	91.794(4)	102.560(4)
γ [°]	114.236(4)	90
<i>V</i> [Å ³]	2508.9(4)	10296.0(14)
Ζ	2	8
$D_{\text{calc}} \left[\mathbf{g} \cdot \mathbf{cm}^{-3} \right]$	1.257	1.332
$\mu(MoK_{\alpha} [mm^{-1}])$	1.226	1.320
Transmissions	0.75/0.64	0.75/0.59
<i>F</i> (000)	1002	4304
Index ranges	$-17 \le h \le 17$	$-81 \le h \le 81$
	$-18 \le k \le 18$	$-18 \le k \le 18$
	$-30 \le l \le 30$	$-42 \le l \le 42$
θ_{\max} [°]	32.829	40.401
Reflections collected	191527	387884
Independent reflections	18497	32569
$R_{ m int}$	0.0918	0.0585
Refined parameters	598	596
$R_1 \left[I > 2\sigma(I) \right]$	0.0424	0.0413
wR_2 [all data]	0.1106	0.1064
GooF	1.025	1.113
$\Delta \rho_{\text{final}} (\text{max/min}) [\text{e} \cdot \text{Å}^{-3}]$	1.189/-0.586	1.995/-0.688

 Table S3. Crystallographic details of compounds 2 and 3.

IV. Quantum Chemical Calculations

All computations including geometry optimization and single-point computations were performed using ORCA 5.0.4⁵ at the def2-TZVPP level of theory (def2-QZVP for E>Ne)⁷ using the atom-pairwise dispersion correction based on tight binding partial charges (D4)^{8,9} with the PBE0^{10,11} functional. As in our previous studies¹ the geometry optimization for **1** resulted in a shift of the Cl towards the Ge center, resulting in structure **1_opt**. Frequency computations were performed to verify the nature of the stationary point. Natural bond orbital analysis was performed using the NBO program package (version 7.0.10).⁶

Table S4. NBO analysis of **1_opt** and **A-C** including the natural atomic partial charges Q [e], Wiberg bond indices (WBI) [a.u.], Mayer bond orders (MBO) [a.u.] and orbital character of the Ge lone-pair [%].

	Q(Ge)	Q(E)	WBI (Ge–E)	MBO (Ge–E)	Orbital characters	er Ge lone pair p
Α	+1.13	-0.55	0.60	0.94	83.3	16.6
В	+0.78	C: -0.50 Si: -0.60	C: 0.66 Si: 0.92	C: 1.00 Si: 0.92	79.9	20.0
С	+0.41	N: -1.37 Zn: 1.03	N: 0.55 Zn: 0.81	N: 1.12 Zn: 0.90	86.3	13.6
1_opt	+0.45	C: -0.48 Ga: 1.23 Cl: -0.55	C: 0.69 Ga: 1.00 Cl: 0.40	C: 0.99 Ga: 0.89 Cl: 0.46	83.5	16.5

Table S5. Comparison of the computed electronic properties of acyclic germylenes A-C and 1_{opt} in H₂ activation. The root mean square deviation (RMSD) from the experimental structure is given in %.

	E _{HOMO} [eV]	E _{LUMO} [eV]	$\begin{array}{c} \Delta E_{HOMO-LUMO} \\ [eV] \end{array}$	\angle_{exp} . (E–Ge–E)	$\angle_{calc.} (E-Ge-E)$	RMSD
\mathbf{A}^{12}	-5.25	-1.96	3,29	114.4	114.6	0.57
B ¹³	-5.26	-2.13	3.13	112.7	111.9	0.10
\mathbf{C}^{14}	-5.15	-1.64	3.51	110.7	107.2	0.44
1_opt ¹	-4.98	-1.32	3.67	103.97, 113.4	98.2, 111.5	0.44



Figure S14. Comparison of frontier orbital energies (E_{HOMO}, E_{LUMO}) [eV] and the energy gap (E_{HOMO-LUMO}) [eV] of **A-C** and **1_opt**.





-1.32 eV

1_opt



1_opt



-4.98 eV



Figure S15. Frontier orbitals of A, B, C and 1_opt (isovalue 0.03). The hydrogens are omitted for clarity.



Figure S16. Comparison of the computed natural partial charge [e] of the Ge atom in A-C and 1_opt.

MesTerphG	ie (A)			MesTerr	phGeHypsi (B)		
Ge	5.169160	31.691471	6.234271	Ge	6.964405	12.479172	1.988653
С	4.155578	33.050920	5.145701	Si	9.390041	12.265045	2.068912
С	6.182870	30.331942	5.145930	Si	10.187194	14.288506	1.146670
С	4.464167	34.359581	5.563203	С	11.665648	14.007020	0.014807
С	3.037545	32.877298	4.317408	С	8.831730	15.129534	0.155569
С	5.874541	29.023261	5.563547	C	10.775075	15.441151	2.511942
С	7.301086	30.505717	4.317936	S1	10.862688	11.496551	3.733098
C	3.725663	35.450670	5.123381	C	12.630569	11.923273	3.238931
C	5.601068	34.6228/1	6.48843/ 2.872425	C	10.548104	12.2/3394	5.416320
C	2.320203	33.969302	3.073433	C Si	0.755889	9.022214	0.248058
C	6 613539	27 932321	5 124183	C	11 349823	10.759904	-0.076114
C	4 737426	28 759645	6 488417	C	8 588829	9 194566	0.607599
Č	8.018989	29.393814	3.874471	Č	8.856008	11.5312.04	-1.317195
Ċ	7.902169	31.807747	3.924945	Ċ	6.142366	12.312641	3.796410
С	2.657296	35.270629	4.264696	С	5.738156	11.136782	4.435568
Н	3.994501	36.443191	5.467952	С	4.992986	11.217020	5.609063
С	5.446131	34.479252	7.876901	С	4.632627	12.442899	6.144429
С	6.792931	35.147205	5.968935	С	5.002821	13.609611	5.495000
Н	1.460323	33.828122	3.232895	С	5.741908	13.543970	4.321329
С	2.487068	31.157304	2.591241	С	6.089466	14.783230	3.575297
C	1.609634	30.903239	4.836256	С	5.249622	15.233916	2.542433
C	7.682201	28.112519	4.265897	C	4.009047	14.480091	2.175363
Н	6.344853	26.939780	5.468817	C	5.559085	16.424005	1.895744
C	4.891861	28.903128	/.8/693/	C	0.05/100	1/.191256	2.259025
С и	3.5458//	28.235038	5.968434	C	7.458274	16.742608	3.301645
Г	0.0/0999	29.333221	5.254141 2.501330	C	7.198237 8.062738	15.550085	5.902030
C	8 720723	32.223699	4 835214	C	6 989799	18 452891	1 526237
н	2 077339	36 118669	3 920700	C	6 050999	9 801631	3 867801
C	6.530437	34,745661	8.703535	C	7.010003	8.986906	4.482418
Ċ	4.133775	34.080665	8.472489	Ċ	7.722180	9.442075	5.719823
С	7.843912	35.417925	6.833042	С	7.274701	7.731726	3.951067
С	6.910599	35.462053	4.511455	С	6.595905	7.249669	2.839785
С	1.703563	30.083900	2.184080	С	5.617795	8.053579	2.273434
С	3.324583	31.886537	1.584618	С	5.331984	9.322028	2.764681
С	0.817073	29.858726	4.380646	С	4.233785	10.127650	2.135564
С	1.531775	31.321496	6.273171	С	6.930234	5.914283	2.252057
Н	8.262562	27.264592	3.922302	Н	12.482286	13.508464	0.540277
C	3.807408	28.636114	8.703198	Н	12.037502	14.972724	-0.341144
C	6.203809	29.302307	8.473042	Н	11.409142	13.407096	-0.859381
C	2.494802	27.963601	6.832191	H	7.970545	15.366981	0.782554
C	3.428003	27.920782	4.510785	н	9.204918	16.062007	-0.278850
C	8.032430 7.010091	31 496677	2.185190	п	0.4030/9	14.492449	-0.039333 3.240994
C	9 521811	33 524117	4 378668	н	11 080670	16 400882	2 084736
č	8.809270	32.061040	6.271942	Н	11,634165	15.022479	3.039699
Č	7.743461	35.194813	8.200013	Н	12.881971	11.507020	2.261857
Н	6.414252	34.617848	9.775013	Н	12.791744	13.001813	3.196747
Н	3.311644	34.651542	8.037150	Н	13.331614	11.509738	3.970231
Н	4.135718	34.237134	9.551182	Н	9.523616	12.125567	5.760258
Η	3.926319	33.021448	8.284617	Н	10.738259	13.348290	5.384944
Н	8.765590	35.820345	6.425749	Н	11.219907	11.836527	6.160847
С	0.844503	29.435706	3.058752	Н	9.726808	9.273411	3.933266
Н	1.750613	29.763040	1.147846	Н	11.309356	9.262617	4.726635
Н	4.203337	32.337651	2.042151	Н	11.194121	9.158971	2.968129
H	2.758150	32.697371	1.117294	Н	11.980325	11.131494	-0.293020
H	3.649082	31.213884	0.789392	Н	11.781485	9.740905	0.776236
H	0.152994	29.364233	5.082321	H	11.391496	9.595314	-0.937728
п Н	0.082933	30.04//94	6 372597	п u	1.323834 8 071600	2.403140 8 712024	0.724200
н	1.430000	32.403939	6 827565	н	0.724000 8 700046	0./15054 8 470/15	-0.213077
C	2.420/30	28 186458	8 199747	Н	0.700040 7 822968	11 850329	-0.213077
H	3.923212	28,763808	9.774732	Н	9.431226	12.399414	-1.642925
Н	7.026578	28.732972	8.036915	Н	8.867382	10.798271	-2.129241
Н	6.202051	29.144376	9.551525	Н	4.678982	10.300435	6.096401
Н	6.410019	30.362022	8.286579	Н	4.048908	12.487327	7.055951
Н	1.573418	27.560864	6.424551	Н	4.707026	14.576346	5.888244
С	9.492765	33.947157	3.056827	Н	3.465702	14.993459	1.382655
Н	8.584101	33.620104	1.147050	Н	3.346968	14.372578	3.037266
Н	6.129815	31.049375	2.044540	Н	4.245077	13.471306	1.827394

Table S4. Cartesian coordinates [Å] of computed compounds A, B, C and 1_opt with the corresponding final single point energies (FSPE) [Ha].

Н	3.571748	28.810338	3.894925				
Η	7.890275	35.877503	4.285908				
Н	6.152949	36.185724	4.205115				
H	6.767095	34.572869	3.895155	_			
FSPE	-3934.605091174	609					
LZnTBoN	((C)						
Zn	-0.608738	4.451200	8.188739	С	-2.320508	6.149388	11.137908
N	-2.365276	4.163055	7.532568	Č	-1.393834	1.563398	9.119959
Ge	1.280382	5.232985	9.614172	Č	-1.258098	2.311397	10.287295
Ν	2.833380	5.116544	8.585116	С	-0.284512	0.860473	8.654957
Si	-2.686527	4.326440	5.832195	С	-3.596732	6.473919	4.048180
С	-4.169316	3.241630	5.343186	С	-1.823381	7.026262	5.735904
С	-1.079618	3.752696	4.986432	С	4.079643	9.137834	7.883673
С	-3.032805	6.149177	5.428468	С	-6.682223	2.877403	11.088820
Si	3.009643	4.607916	6.907268	С	-0.855746	2.248537	5.106614
С	2.459364	2.836526	6.702790	С	-0.882194	4.211951	3.545158
С	2.027048	5.705953	5.741157	С	6.545938	2.782417	8.978289
С	4.809568	4.734245	6.419423	С	7.315427	1.891706	8.240905
С	-3.379097	3.876448	8.462754	С	5.171510	1.751244	13.688578
С	3.967484	5.615854	9.286666	С	-6.749521	7.696834	7.203119
С	-3.668564	2.534465	8.804751	С	-3.280021	0.062346	8.435289
С	-4.731160	2.232665	9.636110	С	-4.021055	-0.428523	7.364958
С	-2.705676	1.458151	8.362606	С	-3.118143	-0.745821	9.555413
С	2.117584	8.166896	9.155006	С	-0.046921	2.352171	10.971133
С	2.138967	8.539575	10.497121	С	-3.683971	8.175888	12.415564
С	0.885997	8.082933	8.507342	С	-5.503306	3.791142	5.846144
С	3.388813	7.888266	8.387512	С	-4.253432	2.925699	3.850772
C	-4.100061	4.877892	9.136325	С	-1.977800	6.496746	12.430198
C	4.736882	4.795326	10.117896	C	-4.591309	-1.690188	7.411423
C	4.297201	6.979064	9.186185	C	-4.428332	-2.485807	8.536230
C	5.388387	7.480941	9.872936	С	-2.663996	7.515136	13.079424
C	6.162834	6.675090	10.700340	С	-5.056378	9.385238	7.270780
C	5.806504	5.343532	10.819522	С	5.041325	9.002241	6.883893
C	4.41/1//	3.329456	10.284554	C	3.803540	10.410317	8.365305
C	-4.6569/5	/.240540	8.322193	C	4.4/8248	11.51866/	/.868/91
C	-5.925654	0.841451	7.923111	C	-3.688957	-2.008903	9.60/416
C	-4.240390	8.529015	/.98//00	C	-0.292055	8.309122	9.183802
C	-5.095695	0.330933	9.034343	C	-0.23/4//	0./3342/	10.312662
C	5.00/852	0.229320	8.402900 7.078050	C	4.194939	2.555612	14.4/0490
C	0.830311	0.014199	0.102000	C	2 205000	8.840205 3.226010	12 002007
C	5 200041	2 410058	9.198900	C	1.047552	1.646520	10.407070
C	5 142130	2.410936	9.403809	C	0.021582	0.002138	0 331851
C	-5.142130	3 224028	10 221604	C	5 436452	11 370604	6 880012
C	7 345107	7 233030	11 430514	Ċ	_6 310714	8 969967	6 871437
C	4 370952	2 952169	11 754502	Č	5 714718	10 103181	6 386211
č	5.257525	2.055647	12.335458	н	5,635744	8.531848	9.769107
č	3.396745	3.543078	12.558574	Н	5.231051	-0.767021	8.265556
č	-3.345653	6.804164	10.457534	Н	3.883055	0.811467	9.586317
č	-4.022269	7.823313	11.113820	Н	-5.666653	5.331124	10.513404
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Н	7.574216	30.682836	1.121269	Н	4.912311	1
Н	6.687923	32.168221	0.789054	Н	8.309383	1
Н	10.186779	34.018561	5.079542	Η	8.894280	1
Н	9.657304	32.536414	6.764902	Н	7.493106	1
Н	8.906670	30.978731	6.371806	Η	8.466685	1
Н	7.911903	32.356216	6.826917	Η	7.504030	1
С	8.912603	35.433503	9.104430	Н	6.094070	1
С	0.004543	28.282742	2.603701	Η	7.650508	1
С	1.425461	27.947021	9.103264	Н	8.565736	8
С	10.332230	35.100064	2.600715	Η	8.088909	1
Н	9.530436	34.533946	9.184774	Н	7.053212	9
Н	8.590514	35.697319	10.112708	Η	8.028533	7
Н	9.551141	36.233936	8.727618	Η	5.053914	7
Н	-0.242765	28.362773	1.544287	Η	4.629228	1
Н	-0.926675	28.221539	3.168967	Н	3.607649	1
Н	0.532540	27.333778	2.742316	Н	3.603953	9
Н	0.806832	28.846076	9.183114	Η	6.056807	5
Н	1.747371	27.683747	10.111739	Η	7.693830	6
Н	0.787747	27.145948	8.726412	Η	7.321603	5
Η	10.579952	35.018940	1.541476	FSPE	-4522.322923634	767
Н	11.263214	35.162461	3.166225			
Н	9.803609	36.048873	2.738007			
Н	2.449164	27.504962	4.284889			
Н	4.186654	27.197633	4.204205			
Н	3.571748	28.810338	3.894925			
Н	7.890275	35.877503	4.285908			
Н	6.152949	36.185724	4.205115			
Н	6.767095	34.572869	3.895155			

Η	4.912311	16.768069	1.095337
Н	8.309383	17.340652	3.610185
Н	8.894280	15.790004	5.255660
Н	7.493106	15.040847	6.028034
Н	8.466685	14.106905	4.912936
Н	7.504030	19.165369	2.172543
Н	6.094070	18.931769	1.128786
Н	7.650508	18.241417	0.680319
Н	8.565736	8.791136	5.948075
Н	8.088909	10.463401	5.615818
Н	7.053212	9.437364	6.583682
Н	8.028533	7.110056	4.424166
Н	5.053914	7.683147	1.423033
Н	4.629228	10.926718	1.500025
Н	3.607649	10.605433	2.890558
Н	3.603953	9.493820	1.511097
Н	6.056807	5.451507	1.790392
Н	7.693830	6.017386	1.475222
Н	7.321603	5.231489	3.007390
FSPE	-4522.322923634	767	

H	7 131700		1 1 / /////////////////////////////////		5 3 1 0 7 0 0	6 202260	
	7.151700	8.223707	11.833219	Н	5.218608	5.727753	6.610/86
Н	8,206223	7.336072	10.763869	Н	4.909456	4.528740	5.350226
11	7 642244	6 597074	12 256720	11	5 422020	4.012152	6 050055
п	7.042244	0.38/2/4	12.230/39	п	5.425029	4.012135	0.939033
H	3.403799	3.188362	9.897905	Н	4.125592	2.094326	15.530200
н	-3 811811	6 410157	6 153212	н	7 449150	_0.077917	7 398588
11	-5.011011	0.410157	0.133212	11	7.449130	-0.0//////	7.578588
H	3.084751	7.333123	7.499126	Н	1.766052	0.344863	8.945798
Н	-6.488163	1.980337	11.679539	Н	3.086546	8.578452	11.020821
11	7,572705	2 (00015	10.40(200	11	2 551050	2 (22500	10 400107
н	-/.5/3/85	2.680015	10.486288	н	-3.551950	-2.623598	10.489127
Н	-6.923160	3.691700	11.773561	Н	-0.376824	0.259283	7.757443
11	0.200500	4 229724	5 570170	11	4.704064	10.279212	7.019001
н	-0.288580	4.238/34	5.5/91/9	н	-4./04064	10.3/8213	/.018001
ł	-4.944722	1.193685	9.858958	Н	5.266388	8.014957	6.495869
T.	6.016245	2 782524	0 162061	и	2 001047	2 172522	7 206247
1	0.910245	5.782554	9.102901	n	3.091947	2.173332	7.290347
H	6.020736	1.585339	11.727971	Н	2.544928	2.536152	5.655125
Ŧ	-6 270199	5 843643	8 157342	н	1 425558	2 679846	7 013258
1 7	0.270199	2.047502	10 (77705	11	1.425556	2.079040	12 2005 (2
1	-2.11466/	2.84/593	10.677705	Н	0.998887	9.126525	12.209562
Ŧ	-2.764698	6.349554	8.475174	Н	0.035684	2.926884	11.885853
T	8 282405	2 205080	7 965790	11	6 060024	0.624707	6 204574
1	8.282405	2.205089	/.805/80	н	-0.900034	9.034/0/	0.304574
H	-4.824157	8.347154	10.608893	Н	-5.724343	4.771342	5.416851
Т	_3 995436	2 293807	5 867091	н	-5 519102	3 894370	6 930978
1	-3.993430	2.293607	5.807091	11	-5.519102	5.694570	0.930978
H	-1.784761	5.345708	10.644171	Н	-6.323049	3.121399	5.565345
Т	5 161650	2 054727	6 565306	н	1 021033	6 881037	5 006674
1	-5.101059	-2.034/2/	0.505590	11	-1.021933	0.001957	5.000074
1	-1.165990	5.979906	12.927581	Н	-1.403843	6.814544	6.724796
Ŧ	-3.256465	8.865937	8.292400	Н	-2.090448	8.087655	5.718173
- T	2.050220	10 542402	0.121200	11	1.020025	5.000.500	(100050
i.	5.050338	10.543492	9.131306	н	1.030935	5.933526	0.123859
Ŧ	6.370236	4.701430	11.488356	Н	1,901716	5.204349	4,777949
1	2 165705	1 649077	7 21 40/0	11	2 527175	6 652011	5 5/0550
1	-2.465/05	1.0489//	1.314860	н	2.53/1/5	0.052911	5.549559
ł	-2.535822	-0.384507	10.394692	Н	-3.794292	7.547514	3.961460
I	1 227457	8 2075/1	8 661767	ц	1 520570	5 050057	3 860110
1	-1.23/43/	0.28/341	0.004202	п	-4.339378	3.73883/	5.000110
H	5.873300	1.050081	14.124430	Н	-2.909771	6.206023	3.242778
т	1 172021	065252	11 041200	TT	5 060661	12 225519	6 402011
1	-1.1/8021	8.903332	11.041566	п	5.960661	12.255518	0.492911
H	0.854919	7.812119	7.458467	Н	-5.107011	2.270221	3.648085
H	2 709404	4 258723	12 116345	н	-3 360517	2 421601	3 478305
1	2.709404	4.236723	12.110345	11	-5.500517	2.421091	3.478303
1	-4.228205	8.971149	12.911217	H	-4.393498	3.826463	3.249928
Ŧ	1 981200	1 667025	11 045343	н	0.079734	3 8 5 9 0 4 9	3 158225
. I.	2.520120	1.007025	11.043343	11	0.079734	5.000000	3.150225
H	2.538136	3.702775	14.511090	Н	-0.892360	5.298022	3.452182
H	-2.402606	7,790979	14.093819	Н	-1.656584	3.819564	2.882668
TT	4 247069	12 502080	0 257005	TT	6 457226	0.072722	5 607027
11	4.247008	12.303089	0.23/903	n	0.437320	9.913122	5.007937
H	-4.154305	0.189486	6.483890	Н	-1.637075	1.678579	4.598082
н	-7 731368	7 357290	6 895350	н	_0.833925	1 924733	6 147603
	1.751500	1.557270	0.075550	11	0.0055725	1.924733	0.147005
H	-4.8/0/52	-3.473797	8.574660	H	0.099784	1.958215	4.658/34
					0.0557.0.		
ESPE	-7564 94327594	6212					
FSPE	-7564.94327594	6212					
FSPE	-7564.94327594	6212					
FSPE ab 167 (1	-7564.94327594	6212					
FSPE ab_167 (1 _	-7564.94327594 _opt)	6212	2.520000	6		2.0/2/70	E 100050
FSPE ab_167 (1_ Ge	-7564.94327594 _opt) 10.577324	6212 8.451335	3.568232	С	11.021620	3.863670	5.122959
FSPE ab_167 (1_ Ge	-7564.94327594 opt) 10.577324 9.063539	6212 8.451335 7.149313	3.568232 3.420842	C C	11.021620	3.863670	5.122959
FSPE ab_167 (1_ Ge C	-7564.94327594 opt) 10.577324 9.063539	8.451335 7.149313	3.568232 3.420842	C C	11.021620 12.987492	3.863670 2.747338	5.122959 6.192565
FSPE ab_167 (1_ Ge C Ga	-7564.94327594 _opt) 10.577324 9.063539 12.060781	6212 8.451335 7.149313 7.905563	3.568232 3.420842 5.465492	C C C	11.021620 12.987492 8.924409	3.863670 2.747338 6.456745	5.122959 6.192565 2.205276
FSPE 1b_167 (1 _ Ge Ga C1	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751	8.451335 7.149313 7.905563 6.767304	3.568232 3.420842 5.465492 3.355633	C C C	11.021620 12.987492 8.924409 8.036035	3.863670 2.747338 6.456745 7.063338	5.122959 6.192565 2.205276 4.370651
FSPE ab_167 (1 _ Ge C Ga Cl	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.537751	8.451335 7.149313 7.905563 6.767304 6.90242	3.568232 3.420842 5.465492 3.355633	C C C C	11.021620 12.987492 8.924409 8.036035	3.863670 2.747338 6.456745 7.063338	5.122959 6.192565 2.205276 4.370651 4.370651
FSPE ab_167 (1_ Ge C Ga Cl N	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032	6212 8.451335 7.149313 7.905563 6.767304 6.807363	3.568232 3.420842 5.465492 3.355633 6.795302	C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281	3.863670 2.747338 6.456745 7.063338 6.207725	5.122959 6.192565 2.205276 4.370651 4.151831
FSPE ab_167 (1 _ Ge C Ga Cl N N	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670	C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514
FSPE ab_167 (1_ Ge C Ga C1 N N C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.747944	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.075156	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.925(20)	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457025	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.001902
FSPE ab_167 (1_ Ge C Ga Cl N N C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612	C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803
FSPE ab_167 (1_ Ge C Ga Cl N N N C C C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919	C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C	-7564.94327594 -opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.910303		11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752
FSPE ab_167 (1 _ Ge C Ga Cl N N C C C C C C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C	-7564.94327594 -opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C	-7564.94327594 -7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.92727	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 0.072020	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.65121	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604052
FSPE ab_167 (1 Ge C Ga C1 N C C C C C C C C C C C C C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C C C C C C	-7564.94327594 -opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407	С С С С С С С С С С С С С С С С С С С	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C C C C C C	-7564.94327594 -7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701	С С С С С С С С С С С С С С С С С С С	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.727061	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.55816	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872028
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C C C	-7564.94327594 - opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C C C C C C	-7564.94327594 -7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 7.728407 3.392701 5.476519	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C C C	-7564.94327594 -7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.002108	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875907		11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C C C C C C	-7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C C C C C C	-7564.94327594 -7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905	С С С С С С С С С С С С С С С С С С С	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C C C	-7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423	с с с с с с с с с с с с с с с с с с с	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C C C C C C C C C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423	С С С С С С С С С С С С С С С С С С С	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.042571 7.644004 8.401883 10.797097	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326
FSPE ab_167 (1_ Ge C Ga C C C C C C C C C C C C C C C C C	-7564.94327594 -7564.94327594 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542	C C C C C C C C C C C C C C C C C C C	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C C C	-7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 19.99190 9.01994	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617	С С С С С С С С С С С С С С С С С С С	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218
FSPE ab_167 (1_ Ge Ga Cl N N C C C C C C C C C C C C C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.944555	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617	с с с с с с с с с с с с с с с с с с с	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 9.60227	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218
FSPE ab_167 (1_ Ge C Ga C C C C C C C C C C C C C	-7564.94327594 -7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994 11.836230	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538	С С С С С С С С С С С С С С С С С С С	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 8.690827	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729
FSPE ab_167 (1_ Ge Ga C1 N N C C C C C C C C C C C C C	-7564.94327594 0.677324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589	6212 8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.858871 11.959190 9.801994 11.836230 11.380688	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355	С С С С С С С С С С С С С С С С С С С	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 8.690827 11.583046	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814
FSPE ab_167 (1_ Ge C Ga C C C C C C C C C C C C C	-7564.94327594 -7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265889 12.59721	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.858871 11.959190 9.801994 11.380638 0.30927	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355	с с с с с с с с с с с с с с с с с с с	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 8.690827 11.583046 11.60262	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 0.375401
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C C C C C C	-7564.94327594 0.677324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589 13.529731	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.858871 11.959190 9.801994 11.380688 9.389827	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473	С С С С С С С С С С С С С С С С С С С	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 8.690827 11.583046 11.649262	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C C C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.26589 13.529731 15.660349	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.858871 11.959190 9.801994 11.380688 9.389827 10.413328	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542	с с с с с с с с с с с с с с с с с с с	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.645002 11.583046 11.649262 12.545810	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C C C	-7564.94327594 -7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.20165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.02108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589 13.529731 15.660349 11.951964	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994 11.380688 9.389827 10.413328	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542 8.93542	с с с с с с с с с с с с с с с с с с с	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 8.690827 11.583046 11.649262 12.545810 10.982002	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691 4.416220	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382 1.405768
FSPE ab_167 (1_ Ge C Ga C1 N N C C C C C C C C C C C C C	-7564.94327594 .opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589 13.529731 15.660349 11.851864	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994 11.380688 9.389827 10.413328 6.527930	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542 8.935642		11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 8.690827 11.583046 11.649262 12.545810 10.883993	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691 4.416230	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382 1.405768
FSPE ab_167 (1_ Ge C C C C C C C C C C C C C	-7564.94327594 -7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.26589 13.529731 15.660349 11.851864 11.856455	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994 11.380688 9.389827 10.413328 6.527930 4.681662	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542 8.935642 7.336831	ССССССССССССССССССССССССССССССССССССССС	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 8.690827 11.583046 11.649262 12.545810 10.883993 16.183660	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691 4.416230 7.653531	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382 1.405768 6.564898
FSPE ab_167 (1_ ab_167 (1_ Ge Ge Ge Ge Ge Ge Ge Ge Ge Ge	-7564.94327594 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589 13.529731 15.660349 11.851864 11.856455 11.124128	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994 11.380688 9.389827 10.413328 6.527930 4.681662 5.71370	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542 8.935642 7.336831 9.810040	СССССССССССССССССССССС	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 8.690827 11.583046 11.649262 12.545810 10.883993 16.183660 16.561756	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691 4.416230 7.653531 9.613810	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382 1.405768 6.564898 4.786966
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FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C C C C C C	-7564.94327594 .opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589 13.529731 15.660349 11.851864 11.856455 11.134138 12.271142 10.779442	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994 11.380688 9.389827 10.413328 6.527930 4.681662 5.731370 7.918246 4.436491	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542 8.935642 7.336831 9.819040 9.361714 9.486806	ССССССССССССССССССССССССССССССССССССССС	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.401883 10.797097 9.740414 10.607751 8.690827 11.583046 11.649262 12.545810 10.883993 16.183660 16.561756 16.445252 15.508751	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691 4.416230 7.653531 9.618819 10.051725 10.953293	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382 1.405768 6.564898 4.786966 6.485702 5.77358
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FSPE ab_167 (1_ Ge Ga CI N N C C C C C C C C C C C C C	-7564.94327594 -opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589 13.529731 15.660349 11.851864 11.856455 11.134138 12.271142 10.779442 11.138044 12.243749	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994 11.380688 9.389827 10.413228 6.527930 4.681662 5.731370 7.918246 4.436491 3.923635 4.068610	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542 8.935642 7.336831 9.819040 9.361714 9.486806 8.254907 6.011509	ССССССССССССССССССССССС	$\begin{array}{c} 11.021620\\ 12.987492\\ 8.924409\\ 8.036035\\ 6.959281\\ 8.004433\\ 6.875680\\ 7.846900\\ 9.856968\\ 7.745098\\ 8.147435\\ 7.645131\\ 7.532875\\ 7.787961\\ 8.042571\\ 7.644004\\ 8.401883\\ 10.797097\\ 9.740414\\ 10.607751\\ 8.690827\\ 11.583046\\ 11.649262\\ 12.545810\\ 10.883993\\ 16.183660\\ 16.561756\\ 16.445252\\ 15.508751\\ 14.775125\\ 14.520038\\ \end{array}$	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691 4.416230 7.653531 9.618819 10.051725 10.953293 4.765021 5.669047	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382 1.405768 6.564898 4.786966 6.485702 5.273658 7.254783 8.729417
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C C C C C C	-7564.94327594 opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589 13.529731 15.660349 11.851864 11.856455 11.134138 12.271142 10.779442 11.138044 12.43749 11.027765	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994 11.380688 9.389827 10.413328 6.527930 4.681662 5.731370 7.918246 4.436491 3.923635 4.068610	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542 8.935642 7.336831 9.819040 9.361714 9.486806 8.254907 6.011509 0.74124	ССССССССССССССССССССССССССССССССССССССС	11.021620 12.987492 8.924409 8.036035 6.959281 8.004433 6.875680 7.846900 9.856968 7.745098 8.147435 7.645131 7.532875 7.787961 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 7.644004 8.042571 1.583046 11.649262 12.545810 10.883993 16.183660 16.561756 16.445252 15.508751 14.775125 14.520038 16.01247	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691 4.416230 7.653531 9.618819 10.051725 10.953293 4.765021 5.669047 5.901582	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382 1.405768 6.564898 4.786966 6.485702 5.273658 7.254783 8.729417 7.86906
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C C C C C C	-7564.94327594 -0pt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589 13.529731 15.660349 11.851864 11.851864 11.851864 11.851864 11.851864 11.851864 11.851864 11.381844 12.271142 10.779442 11.138044 12.243749 11.073765	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.566931 11.094361 12.858871 11.959190 9.801994 11.380688 9.389827 10.413328 6.527930 4.681662 5.731370 7.918246 4.436491 3.923635 4.068610 8.779332	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542 8.935642 7.336831 9.819040 9.361714 9.486806 8.254907 6.011509 9.741434	ССССССССССССССССССССССССССССССССССССССС	$\begin{array}{c} 11.021620\\ 12.987492\\ 8.924409\\ 8.036035\\ 6.959281\\ 8.004433\\ 6.875680\\ 7.846900\\ 9.856968\\ 7.745098\\ 8.147435\\ 7.645131\\ 7.532875\\ 7.787961\\ 8.042571\\ 7.644004\\ 8.401883\\ 10.797097\\ 9.740414\\ 10.607751\\ 8.690827\\ 11.583046\\ 11.649262\\ 12.545810\\ 10.883993\\ 16.183660\\ 16.561756\\ 16.445252\\ 15.508751\\ 14.775125\\ 14.520038\\ 16.017247\\ \end{array}$	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691 4.416230 7.653531 9.618819 10.051725 10.953293 4.765021 5.669047 5.901588	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382 1.405768 6.564898 4.786966 6.485702 5.273658 7.254783 8.729417 7.806390
FSPE ab_167 (1_ Ge C Ga Cl N N C C C C C C C C C C C C C	-7564.94327594 -opt) 10.577324 9.063539 12.060781 12.537751 12.964032 13.544966 14.767844 13.201165 14.295359 12.208789 15.128337 15.875707 14.945957 13.544560 12.429207 12.022108 12.078892 12.367612 13.120816 14.330702 10.844555 13.265589 13.529731 15.660349 11.851864 11.856455 11.134138 12.271142 10.779442 11.138044 12.243749 11.073765 13.280655	8.451335 7.149313 7.905563 6.767304 6.807363 9.238925 8.975156 10.482281 6.815564 5.989920 7.774859 9.971209 5.733448 10.753604 11.384662 12.858871 11.959190 9.801994 11.380688 9.389827 10.413228 6.527930 4.681662 5.731370 7.918246 4.436491 3.923635 4.068610 8.779332 7.866303	3.568232 3.420842 5.465492 3.355633 6.795302 5.332670 5.731612 4.724919 6.919393 7.689069 6.368107 5.559707 7.728407 3.392701 5.476519 4.875297 6.918905 3.567423 2.842542 2.517617 7.406538 7.837355 1.284473 2.076542 8.935642 7.336831 9.819040 9.361714 9.486806 8.254907 6.011509 9.741434 10.506291	ССССССССССССССССССССССССССССССССССССССС	$\begin{array}{c} 11.021620\\ 12.987492\\ 8.924409\\ 8.036035\\ 6.959281\\ 8.004433\\ 6.875680\\ 7.846900\\ 9.856968\\ 7.745098\\ 8.147435\\ 7.645131\\ 7.532875\\ 7.787961\\ 8.042571\\ 7.644004\\ 8.401883\\ 10.797097\\ 9.740414\\ 10.607751\\ 8.690827\\ 11.583046\\ 11.649262\\ 12.545810\\ 10.883993\\ 16.183660\\ 16.561756\\ 16.445252\\ 15.508751\\ 14.775125\\ 14.520038\\ 16.017247\\ 11.422871\end{array}$	3.863670 2.747338 6.456745 7.063338 6.207725 7.927045 5.457935 5.598441 6.691921 9.297662 7.363717 10.075988 9.955816 9.537799 8.175559 10.386728 5.900345 5.726441 7.872838 8.089933 8.897546 7.168529 5.985635 7.451691 4.416230 7.653531 9.618819 10.051725 10.953293 4.765021 5.669047 5.901588 13.272478	5.122959 6.192565 2.205276 4.370651 4.151831 5.579514 2.991803 2.014759 1.066752 5.455641 6.854884 6.604952 4.123684 7.872928 7.974196 9.098372 7.031056 0.689326 0.317933 -0.745218 0.622729 -1.096814 -0.375491 -2.208382 1.405768 6.564898 4.786966 6.485702 5.273658 7.254783 8.729417 7.806390 5.434852

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Н	10.107697	3.726408	1.061721
Н	10.748742	4.547167	2.476490
Н	11.851368	3.943485	1.233645
FSPE	-6628.917324	079191	

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