

Supporting Information

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Self-Assembled Capsules of Unprecedented Shapes**

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Materials and General Methods

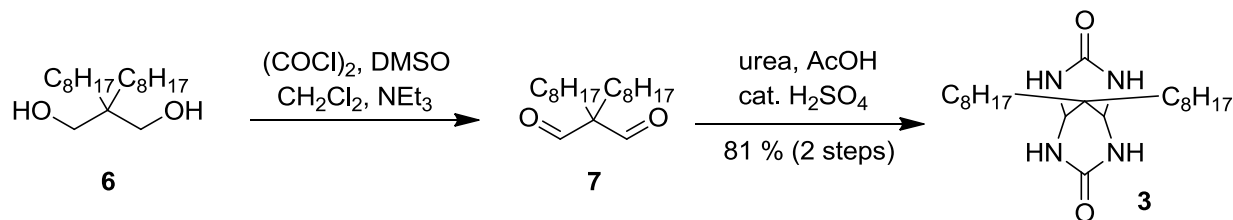
All reactions were carried out under an atmosphere of argon unless otherwise indicated. Analytical thin-layer chromatography (TLC) was performed on Silicycle 60 F254 glass-baked plates. ^1H NMR and ^{13}C NMR spectra were recorded at 600 MHz and 150 MHz respectively, using a Bruker DRX-600 spectrometer equipped with a 5 mm QNP probe. Chemical shifts of ^1H NMR and ^{13}C NMR are given in ppm by using CHCl_3 or DMSO as references (7.26 ppm, 2.50 ppm respectively for ^1H spectrum, and 77.16 ppm, 39.52 ppm respectively for ^{13}C spectrum). Coupling constants (J) are reported in Hertz (Hz). Standard abbreviations indicating multiplicity were used as follows: s (singlet), br (broad), d (doublet), t (triplet), q (quartet), m (multiplet). MALDI-TOF spectra and high-resolution mass spectra (HRMS) were recorded on an Applied Biosystems Voyager STR (2) apparatus and an Agilent ESI-TOF mass spectrometer respectively. Anhydrous CH_2Cl_2 , NEt_3 and Et_2O were taken from a solvent drying system (SG Water USA).

All deuterated solvents were purchased from Cambridge Isotope Laboratories, Inc. All *n*-alkanes, *n*-butyl lithium (1.6 M in hexane), urea and ethyl formate were purchased from Sigma-Aldrich. 2,2-di-*n*-octyl-1,3-propanediol and *p*-pentaphenyl were purchased from TCI America. Oxalyl chloride was purchased from Fluka. 1-nonyne was purchased from Alfa Aesar. Pyridinium chlorochromate and DMSO were purchased from Acros. Acetic acid, sulfuric acid, celite and molecular sieves 4Å powder were purchased from Fisher Chemicals. All chemicals were used as received.

Cavitand **1** was prepared according to literature procedures.¹

Synthesis of propanediurea **3**

The synthesis of propanediurea^{2,3} **3** is shown in Scheme SI 1: Swern oxidation of the commercially available diol **6** delivered dialdehyde **7**, which on treatment with urea under acidic conditions yielded **3** in 81% over two steps.



Scheme SI 1

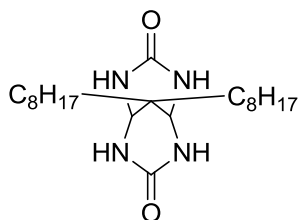
2,2-di-n-octylmalonaldehyde (7)

To a solution of oxalyl chloride (0.31 mL, 3.66 mmol) in CH_2Cl_2 (8.8 mL) was added DMSO (0.52 mL, 7.3 mmol) dissolved in CH_2Cl_2 (1 mL) dropwise at -78°C . After stirring at this temperature for 40 min, a solution of commercially available 2,2-di-n-octyl-1,3-propanediol (**6**) (500 mg, 1.66 mmol) in CH_2Cl_2 (2 mL) was introduced to the suspension. The mixture was kept at -78°C for 90 min. NEt_3 (1.6 mL, 11.6 mmol) was added and after stirring for additional 30 min at -78°C , the reaction was warmed to 20°C . It was quenched by the addition of saturated aqueous NH_4Cl after 60 min at 20°C . The aqueous phase was extracted with CH_2Cl_2 (3x), the combined organic phases were washed with 1 N HCl (1x), dried over sodium sulfate, filtered and the solvent removed under vacuum to yield crude dialdehyde **7** (500 mg), which was used without further purification.

$^1\text{H NMR}$ (600 MHz, CDCl_3 , 300K) δ =9.73 (s, 2H), 1.81-1.76 (m, 4H), 1.31-1.19 (m, 24H), 0.87 (t, $J = 6.8$ Hz, 6H); $^{13}\text{C NMR}$ (150 MHz, CDCl_3 , 300K) δ =202.3 (CH, 2C), 65.3 (C), 31.9 (CH_2 , 2C), 31.1 (CH_2 , 2C), 30.3 (CH_2 , 2C), 29.3 (CH_2 , 2C), 29.3 (CH_2 , 2C), 24.1 (CH_2 , 2C), 22.8 (CH_2 , 2C), 14.2 (CH_3 , 2C).

HRMS(EI) calcd. for $\text{C}_{19}\text{H}_{37}\text{O}_2$ $[\text{M} + \text{H}]^+$: 297.2788, found: 297.2784.

9,9-di-*n*-octyl-2,4,6,8-tetraazabicyclo[3.3.1]nonane-3,7-dione (**3**)



To a mixture of crude dialdehyde **7** (500 mg, th: 1.66 mmol) in acetic acid (1.0 mL) was added urea (219 mg, 3.65 mmol) and a drop of conc. sulfuric acid. After heating at 100 °C for 2h, the mixture was cooled to 20 °C and water (10 mL) was added. The solid was filtered through a glass frit, washed with water (2x) and hexane (2x) and dried under vacuum to give propanediurea **3** (510 mg, 81% over 2 steps) as a white crystalline solid.

¹H NMR (600 MHz, d6-DMSO, 343K) δ=6.62 (s, 4H), 3.95 (s, 2H), 1.45 (s, 4H), 1.28 (s, 24H), 0.88 (t, *J* = 7.0 Hz, 6H).

¹³C NMR (150 MHz, d6-DMSO, 343K) δ=153.8 (C, 2C), 61.6 (CH, 2C), 34.7 (C), 30.8 (CH₂, 2C), 29.3 (CH₂, 2C), 29.2 (CH₂, 2C), 28.3 (CH₂, 2C), 28.1 (CH₂, 2C), 22.5 (CH₂, 2C), 21.5 (CH₂, 2C), 13.3 (CH₃, 2C).

HRMS(EI) calcd. for C₂₁H₄₁N₄O₂ [M +H]⁺: 381.3224, found: 381.3222.

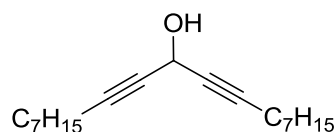
Mp > 210 °C

IR $\tilde{\nu}$ = 3258 (br), 2920, 2851, 1641, 1525, 1461, 1215, 1125, 771 cm⁻¹

Synthesis of nonadeca-8,11-diyn-10-one (**5**)

The literature procedure for heneicosa-9,12-diyn-11-one⁴ was adapted:

nonadeca-8,11-diyn-10-ol



To a solution of 1-nonyne (0.80 mL, 4.88 mmol) in Et₂O (6.5 mL) was added *n*-BuLi (1.6 M in hexane, 3.0 mL, 4.86 mmol) at -78 °C. After stirring at that temperature for 30 min, ethyl formate (0.16 mL, 2.02 mmol) in Et₂O (1.0 mL) was added. The

solution was allowed to warm to 20 °C over 30 min and subsequently quenched by the addition of aq. NH₄Cl-solution (10 mL). The aqueous phase was extracted with Et₂O (2x), the combined organic phases were dried over sodium sulfate, filtered and the solvent removed under vacuum. Purification by column chromatography (60 mL silica gel) using hexane/ethyl acetate 18:1 → 15:1 as an eluent yielded nonadeca-8,11-diyn-10-ol (396 mg, 71%) as a colorless oil.

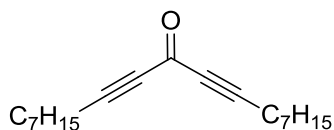
¹H NMR (600 MHz, CDCl₃, 300K) δ=5.09 (dt, *J* = 7.1, 2.0 Hz, 1H), 2.22 (td, *J* = 7.2, 2.0 Hz, 4H), 2.03 (d, *J* = 7.1 Hz, 1OH), 1.57 – 1.48 (m, 4H), 1.44 – 1.34 (m, 4H), 1.34 – 1.21 (m, 12H), 0.88 (t, *J* = 7.0 Hz, 6H).

¹³C NMR (150 MHz, CDCl₃, 300K) δ=85.3 (C, 2C), 78.2 (C, 2C), 52.8 (CH), 31.9 (CH₂, 2C), 29.0 (CH₂, 2C), 28.9 (CH₂, 2C), 28.5 (CH₂, 2C), 22.8 (CH₂, 2C), 18.9 (CH₂, 2C), 14.2 (CH₃, 2C).

HRMS(EI) calcd. for C₁₉H₃₂ONa [M+Na]⁺: 299.2345, found: 299.2354.

IR $\tilde{\nu}$ = 2925, 2855, 2204, 1627, 1461, 1326, 1237, 722 cm⁻¹

nonadeca-8,11-diyn-10-one (5)



To a solution of nonadeca-8,11-diyn-10-ol (250 mg, 0.90 mmol) in CH₂Cl₂ (9.2 mL) was added celite (0.27 g), molecular sieves powder (4Å, 0.27 g) and pyridinium chlorochromate (291 mg, 1.35 mmol) at 20 °C. After stirring at that temperature for 2 h, the mixture was filtered through a plug of silica gel (15 mL), eluted with CH₂Cl₂ and concentrated under vacuum. Purification by column chromatography (50 mL silica gel) using hexane/ethyl acetate 15:1 as an eluent yielded nonadeca-8,11-diyn-10-one (5) (196 mg, 79%) as a colorless oil.

¹H NMR (600 MHz, CDCl₃, 300K) δ=2.38 (t, *J* = 7.2 Hz, 4H), 1.63 – 1.55 (m, 4H), 1.45 – 1.36 (m, 4H), 1.35 – 1.23 (m, 12H), 0.89 (t, *J* = 7.0 Hz, 6H).

¹³C NMR (150 MHz, CDCl₃, 300K) δ=161.6 (C), 94.9 (C, 2C), 82.5 (C, 2C), 31.8 (CH₂, 2C), 29.0 (CH₂, 2C), 28.8 (CH₂, 2C), 27.7 (CH₂, 2C), 22.7 (CH₂, 2C), 19.3(CH₂, 2C), 14.2 (CH₃, 2C).

HRMS(EI) calcd. for C₁₉H₃₁O [M+H]⁺: 275.2369, found: 275.2374.

IR $\tilde{\nu}$ = 2925, 2856, 2206, 1626, 1461, 1326, 1237, 722 cm⁻¹

General procedure for the encapsulation studies:

To a mixture of cavitand **1** (4.0 mg, 0.0024 mmol), propanediurea **3** (2.0 mg, 0.0052 mmol in case of C14-C18 *n*-alkane guest; 4.0 mg, 0.0104 mmol in case of C19-C23 *n*-alkane guest) and guest (0.012 mmol in case of C14-C20 *n*-alkane guest; 0.072 mmol in case of C21-C23 *n*-alkane guest) in a NMR-tube was added 1,3,5-trimethylbenzene-d₁₂ (0.50 mL). The suspension was homogenized by repeated heating via heat gun and agitation. The spectra were recorded after letting the sample equilibrate for 24 h at 20 °C.

Determination of guest length

The length of the guest was estimated by measuring the distance between the hydrogen atoms at each end of the guest as indicated in Figure 1 (using Spartan 03, Wavefunction Inc.). The dihedral angles were fixed at 180° (extended *n*-alkanes) or 60° (coiled *n*-alkanes). To account for the size of the terminal hydrogen atoms, a value of 0.5 Å (approx. the radius of a hydrogen atom) was added to each end (Fig. S1).

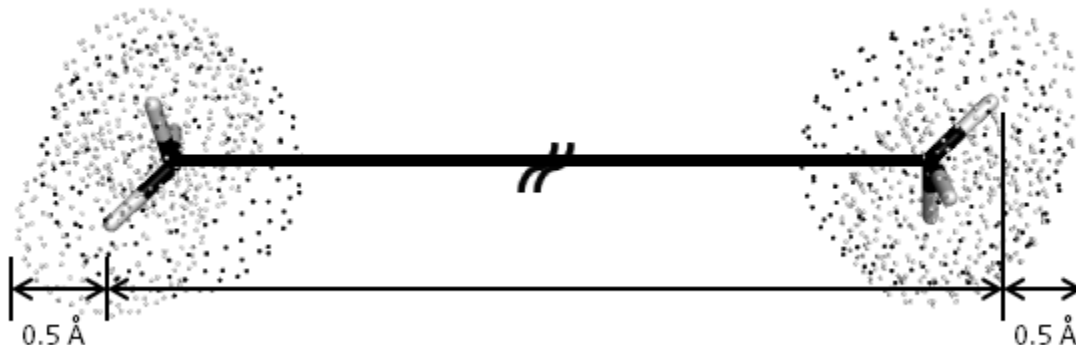


Figure SI 1: Determination of the guest length.

Determination of packing coefficients (PC)

The assemblies were first optimized with the appropriate guests inside at molecular mechanics level of theory (Spartan 03, Wavefunction Inc.). In case a guest was too long for the host in the extended conformation (dihedral angle of 180°), coiling (dihedral angle of 60°) was applied to the ends of the guest to fit the host dimensions. After optimization of the assemblies, the guest was removed and the file saved in the pdb-format. The determination of the cavity volume was performed using Swiss-PdbViewer 4.0.1 (Swiss Institute of Bioinformatics; <http://www.expasy.org/spdbv/>) at the highest quality level (Surface Preferences: Quality 6). The volume of the guests was determined using the same program. The fraction of $V(\text{guest})$ to $V(\text{cavity})$ equals the packing coefficient. All determined values are displayed in Table SI 1.

guest	volume of guest [Å ³]	Cavity volume in host [Å ³]				PC [%]		PC [%]	
		I	II	III	IV	in I	in II	in III	in IV
<i>n</i> -C ₁₄ H ₃₀	245	486	524			50	47		
<i>n</i> -C ₁₅ H ₃₂	261	494	524			53	50		
<i>n</i> -C ₁₆ H ₃₄	278	510	524			55	53		
<i>n</i> -C ₁₇ H ₃₆	295		552				53		
<i>n</i> -C ₁₈ H ₃₈	312		582	597			54	52	
<i>n</i> -C ₁₉ H ₄₀	328			614				53	
<i>n</i> -C ₂₀ H ₄₂	346			650				53	
<i>n</i> -C ₂₁ H ₄₄	362			653	665			55	54
<i>n</i> -C ₂₂ H ₄₆	379				685				55
<i>n</i> -C ₂₃ H ₄₈	396				713				56

Table SI 1: Measured guest and cavity volumes and the corresponding packing coefficients.

1H-NMR spectra of encapsulated *n*-tetradecane in host I/II

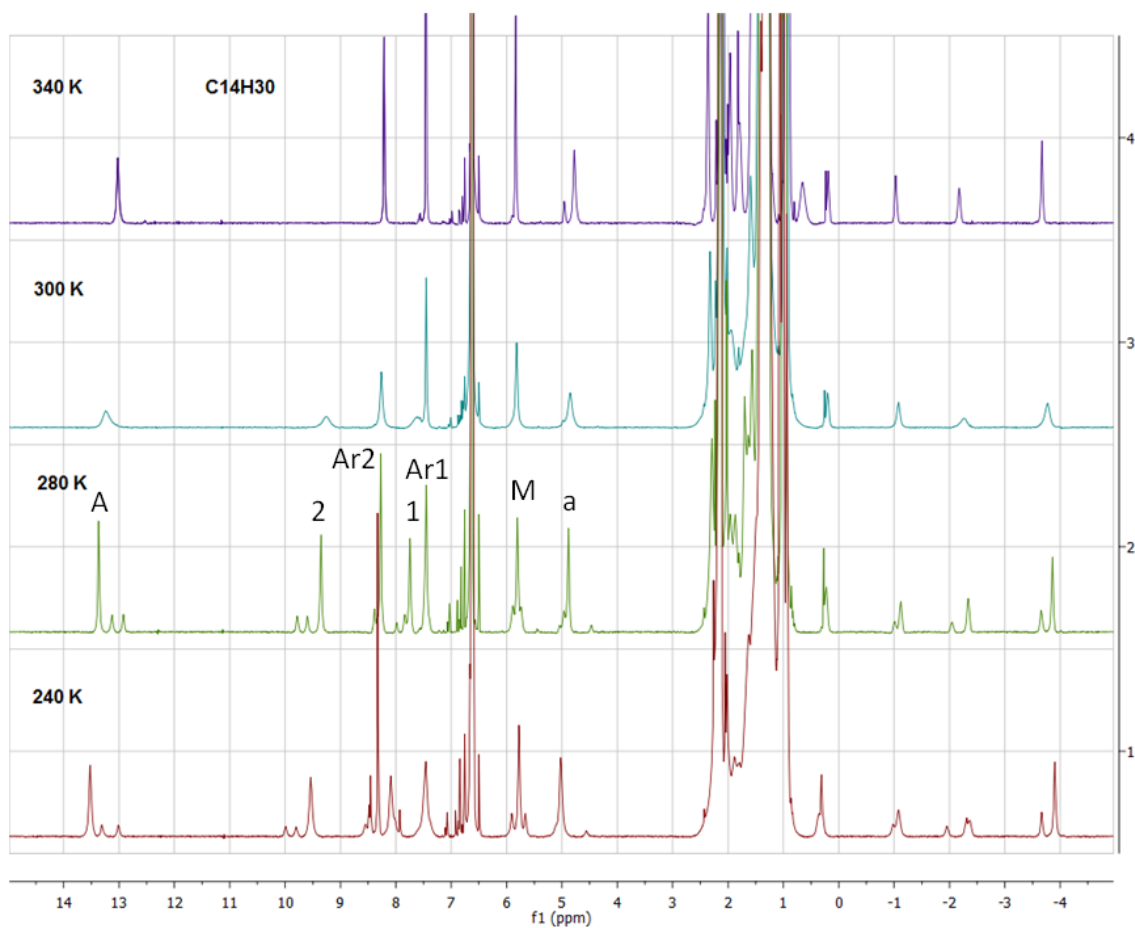


Fig. SI 2: ¹H-NMR spectra of encapsulated *n*-tetradecane in host I/II at 240-340 K.

1H-NMR spectra of encapsulated *n*-pentadecane in host I/II

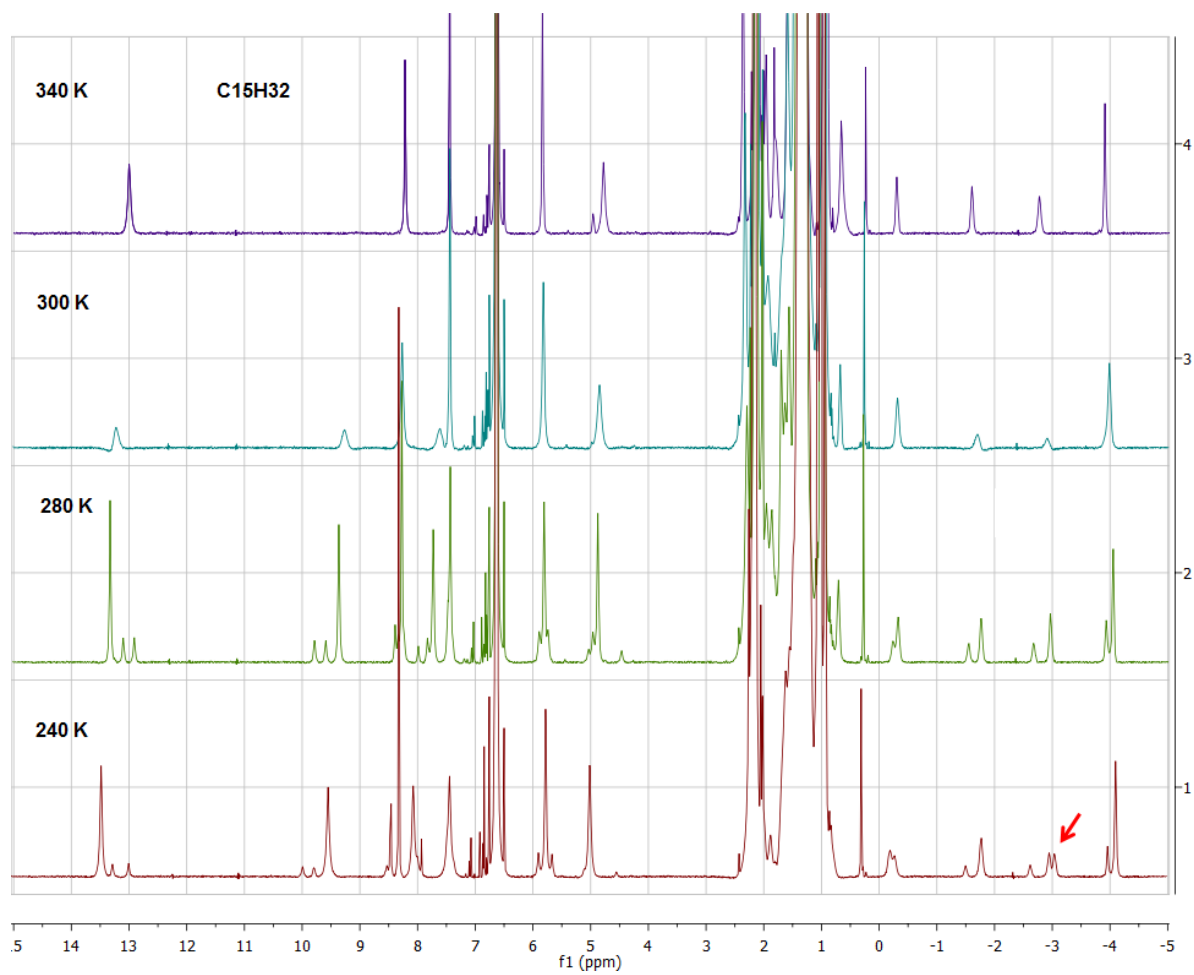


Fig. SI 2a: ¹H-NMR spectra of encapsulated *n*-pentadecane in host I/II at 240-340 K.

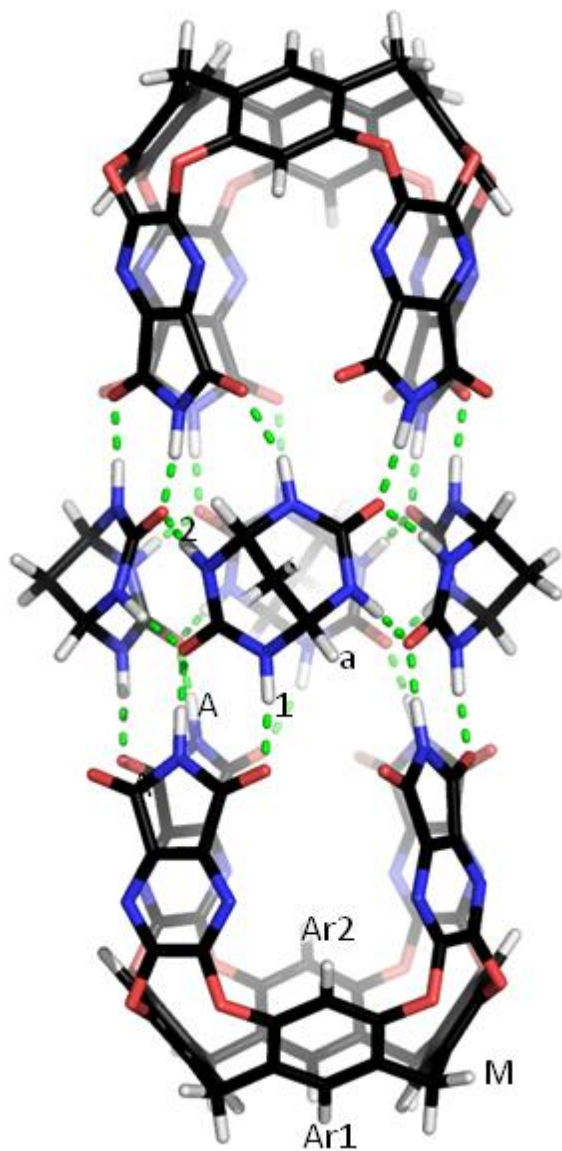


Fig. SI 3: Model of host I (1.3₄.1) and assignment of proton-signals (cf. Fig. SI 2)

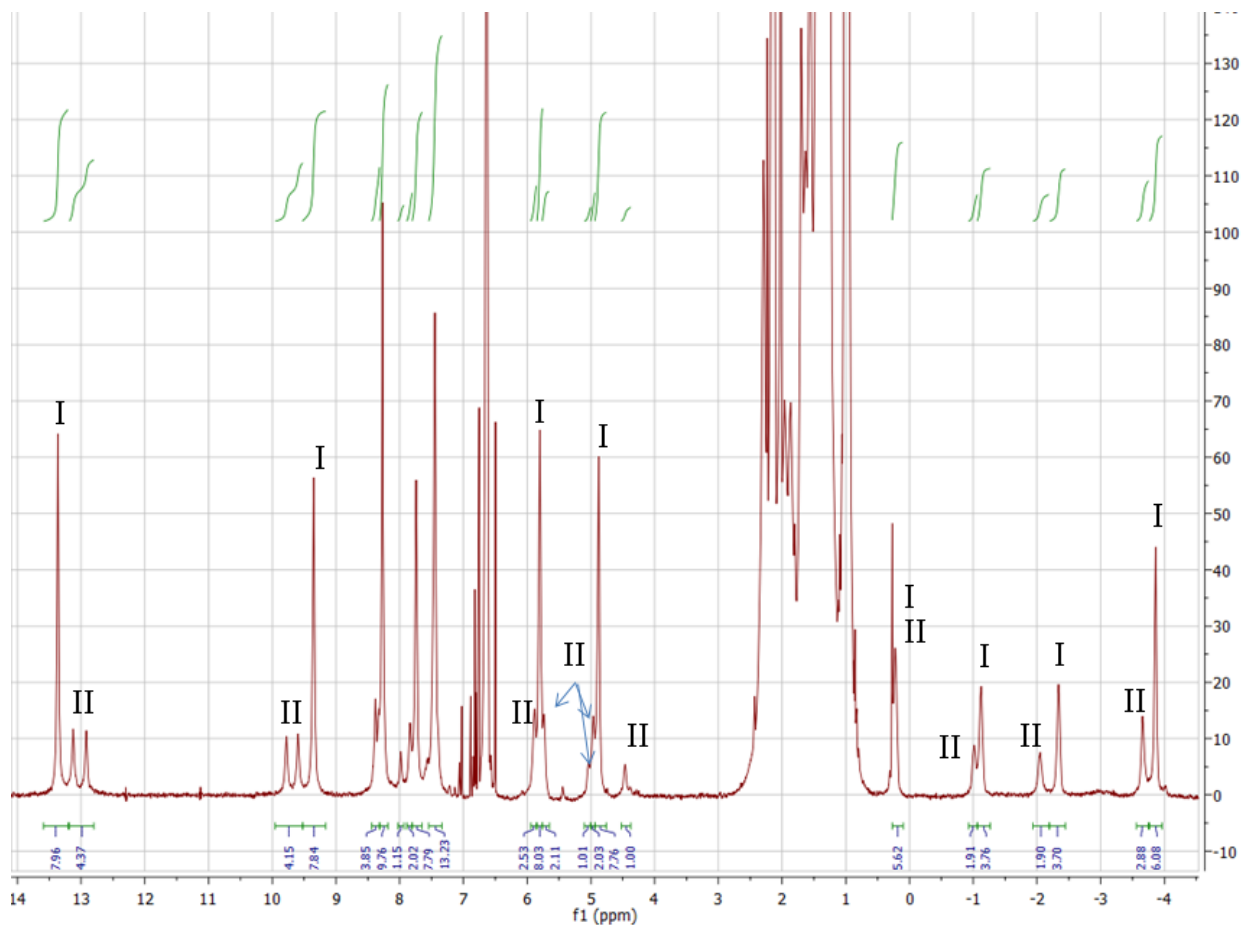


Fig. SI 4: Integrated ¹H-NMR spectra of encapsulated n-tetradecane in host I/II at 280 K.

ROESY spectrum of encapsulated *n*-pentadecane in host I/II at 280 K.

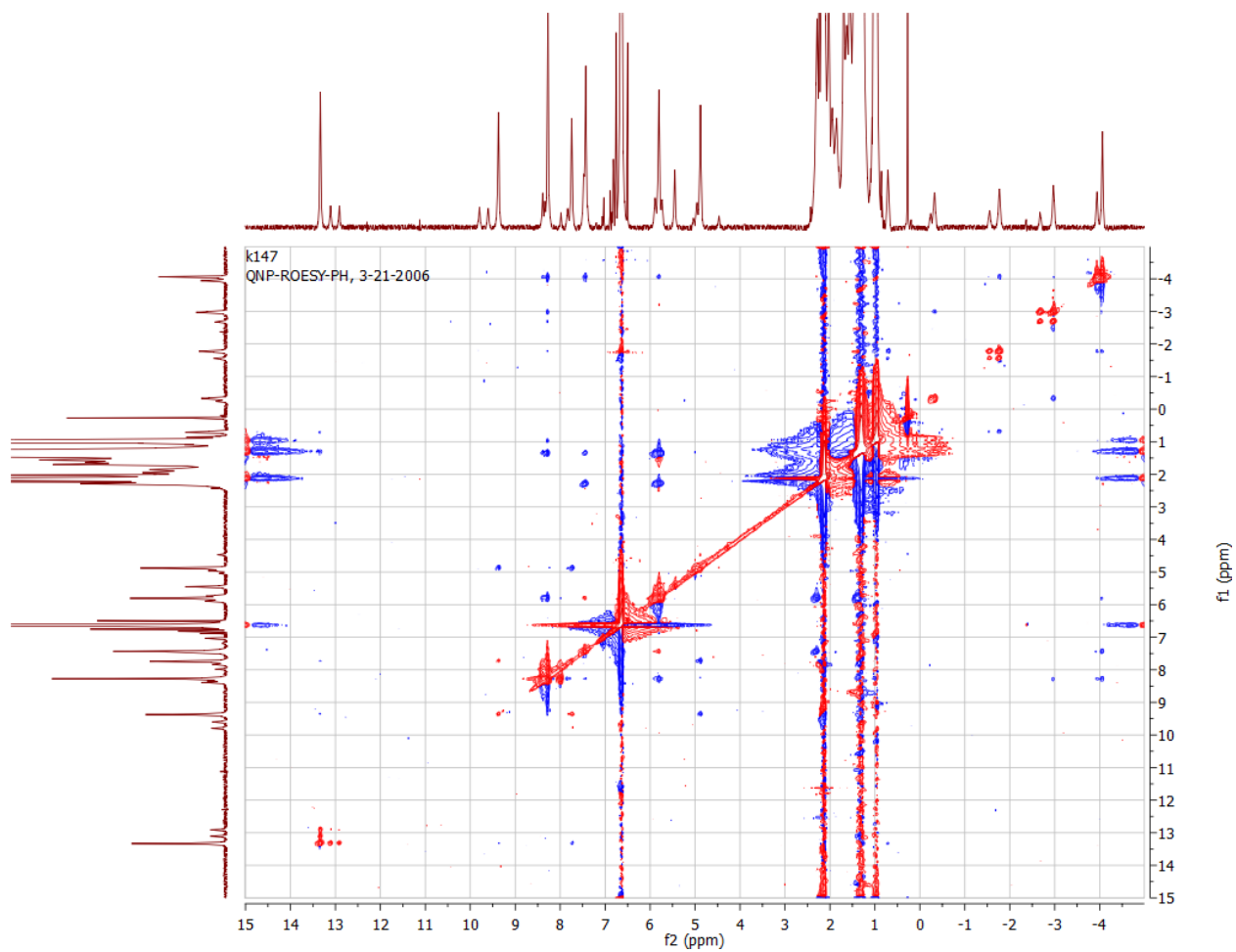


Fig. SI 5: ROESY spectrum of encapsulated *n*-pentadecane in host I/II at 280 K

NMR spectra of encapsulated *n*-heptadecane in host II

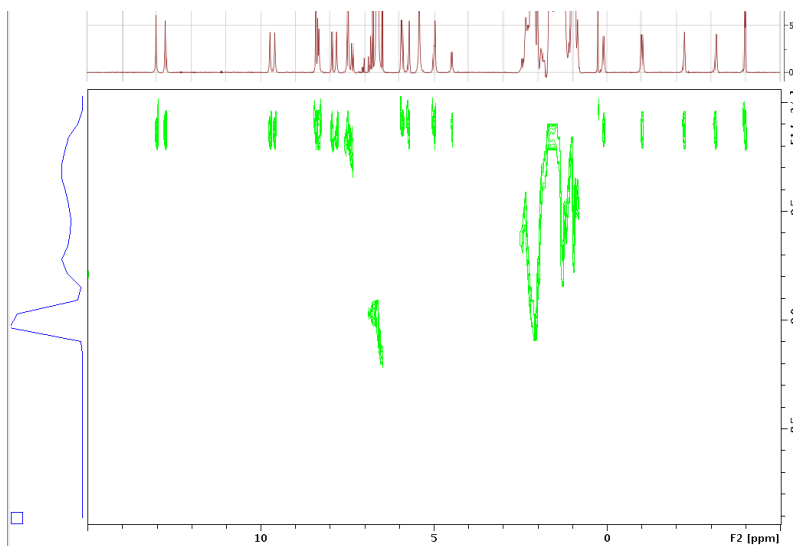


Fig. SI 6: DOSY spectrum of encapsulated *n*-heptadecane in host II.

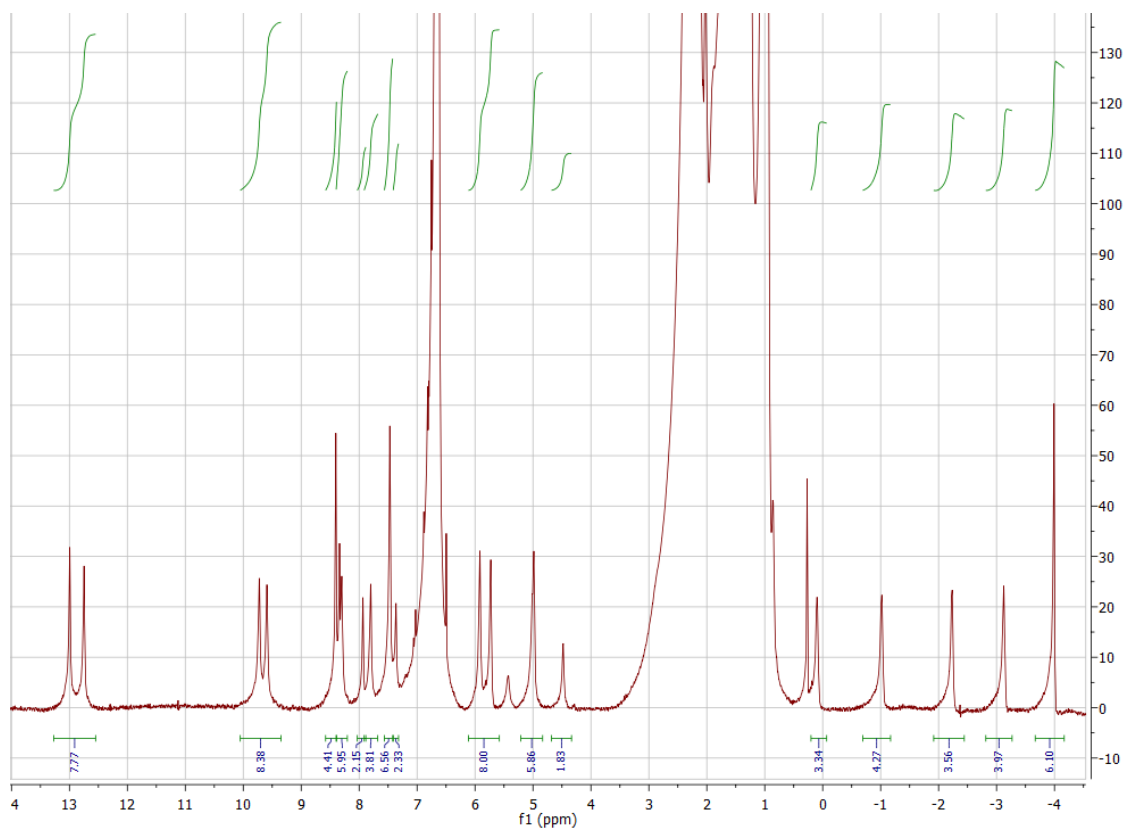


Fig SI 7: Integrated ¹H-NMR spectra of encapsulated *n*-heptadecane in host II at 280 K.

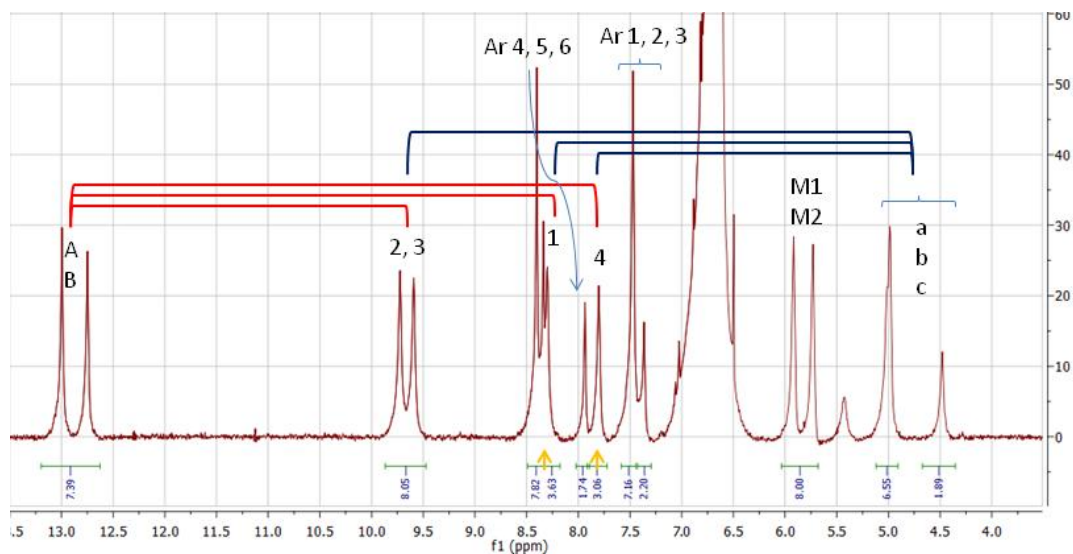


Fig. SI 8: Observed NOE-signals in assembly II ($1.3'_{2-3_{2-1}}$) with *n*-heptadecane as guest (cf. Fig. SI 11).

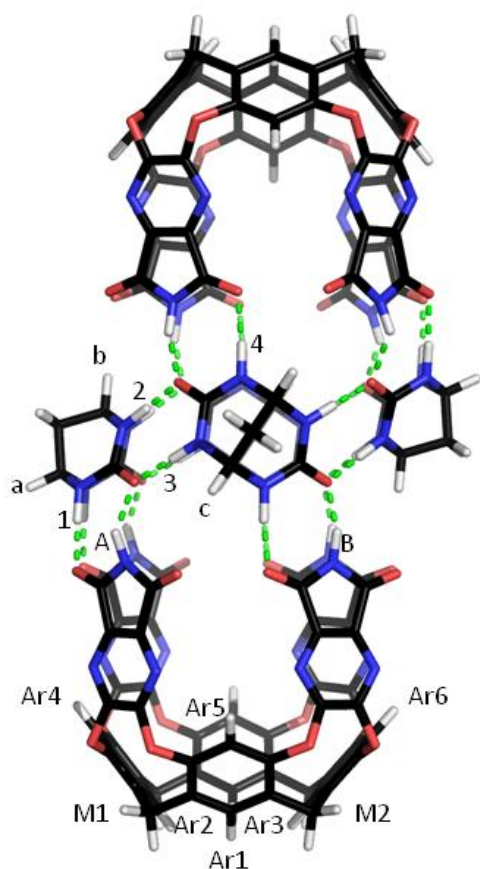


Fig. SI 9: Proposed structure of the achiral capsule II ($1.3'_{2-3_{2-1}}$). The C_{2h} -symmetry accounts for the doubling of the 1H -NMR signals: There are two magnetically different imide N-H signals (A and B), two ureido NH-signals binding to another PD-unit (2, 3), six non-equivalent aromatic signals (Ar1-6), two different ureido NH-signals binding to an imide-carbonyl (1, 4), two non-equivalent methine signals (M1 and M2) and three distinct PD-signals (a-c).

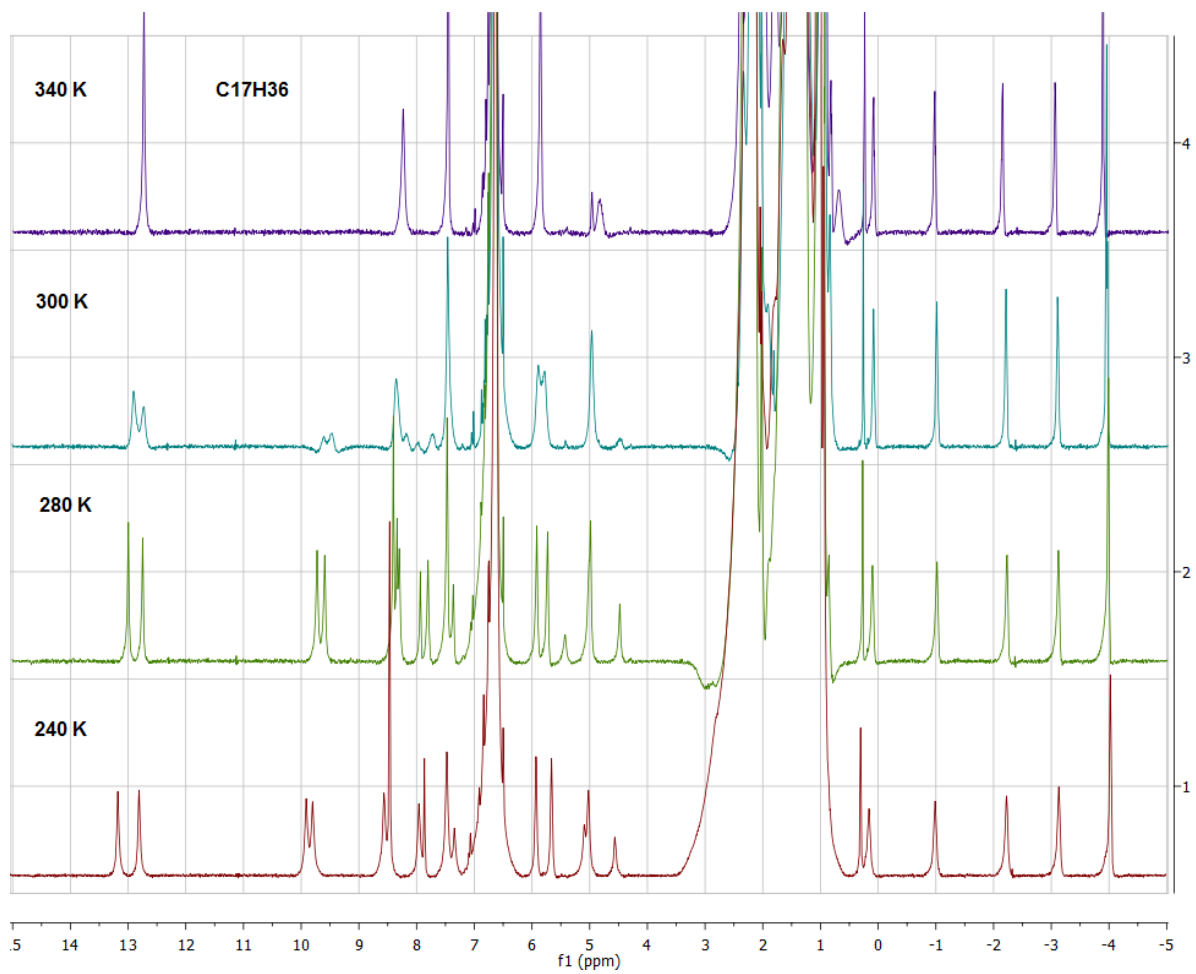


Fig. SI 10: ¹H-NMR spectra of encapsulated *n*-heptadecane in host II at 240 – 340 K.

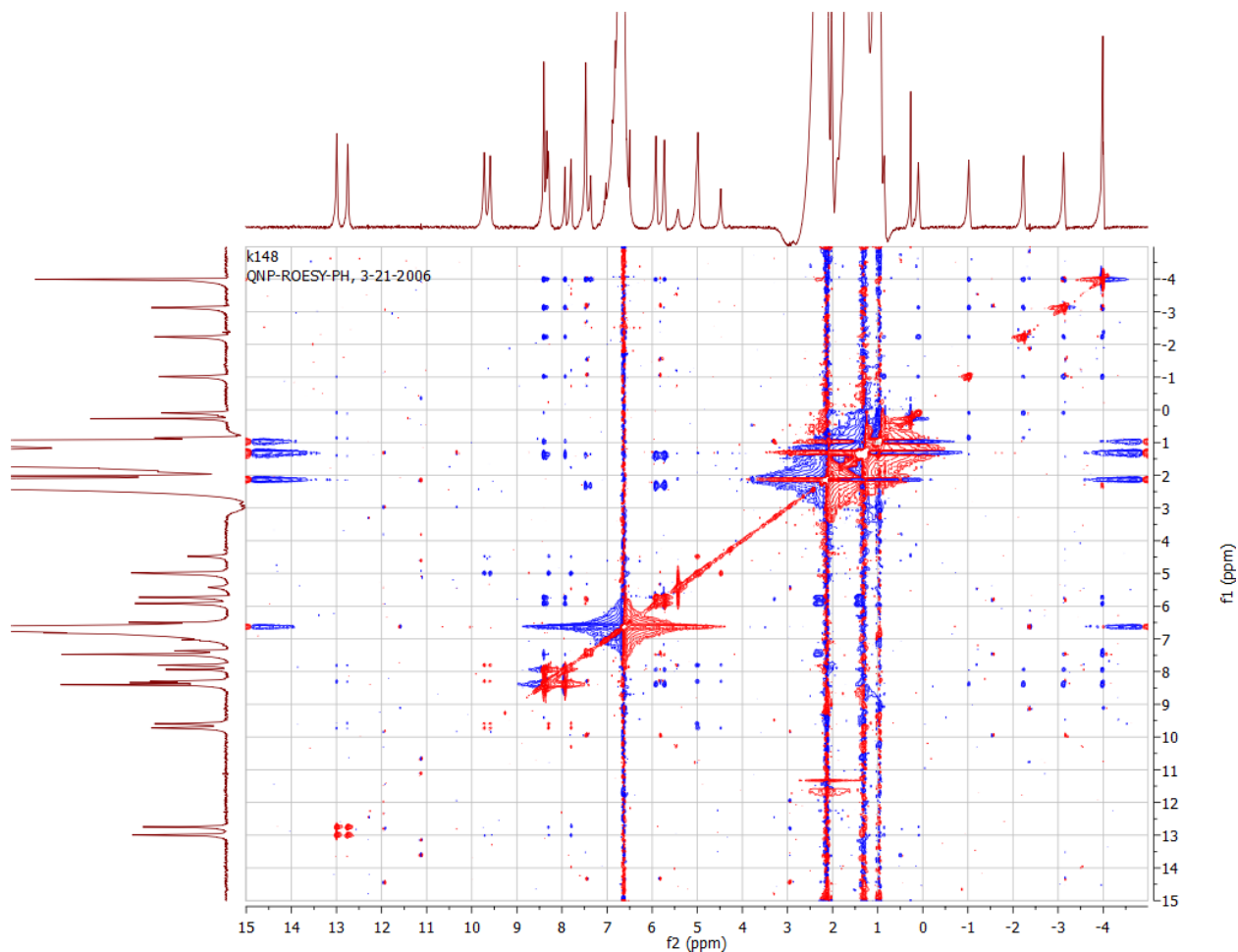


Fig. SI 11: ROESY spectrum of encapsulated *n*-heptadecane in host **II** at 280 K. The NOE-signals of this spectrum are displayed in Fig. SI 8.

Encapsulation of 2-heptadecanol in host **II**

Due to the non-symmetry of the guest 2-heptadecanol, four imide-signals should be detectable (as compared to two in the case of the symmetric *n*-heptadecane). The further splitting (at ca. 12.7 ppm, at 240K and 280K) is caused by the magnetic non-equivalence of the enantiotopic signals in the chiral field. Splitting of the other enantiotopic protons of the host is not clearly identifiable, due to signal overlap in the aromatic region.

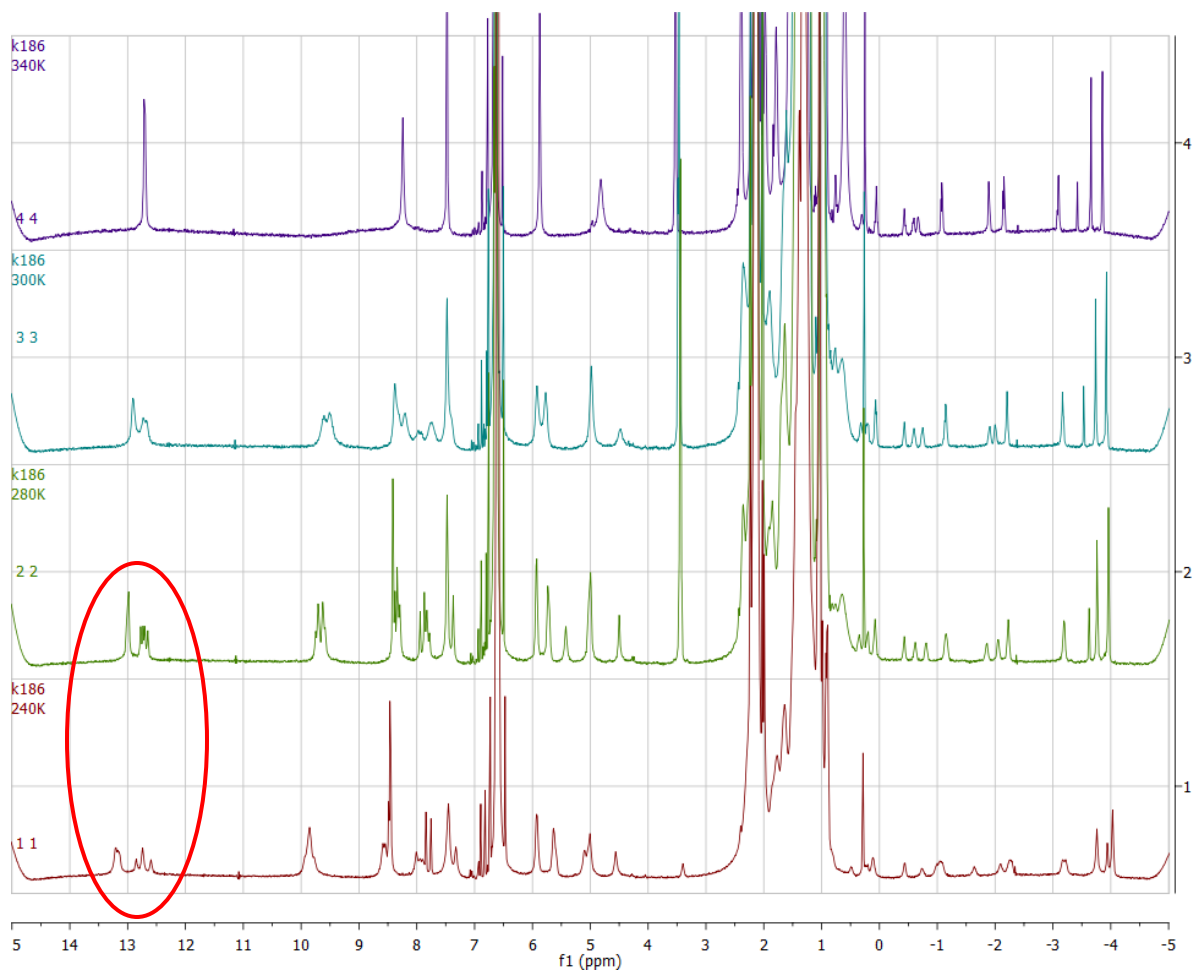


Fig. SI 12: Encapsulation of 2-heptadecanol results in a local chiral field and resolution of enantiopic imid-signals in **1.3'₂.3₂.1 (II)**.

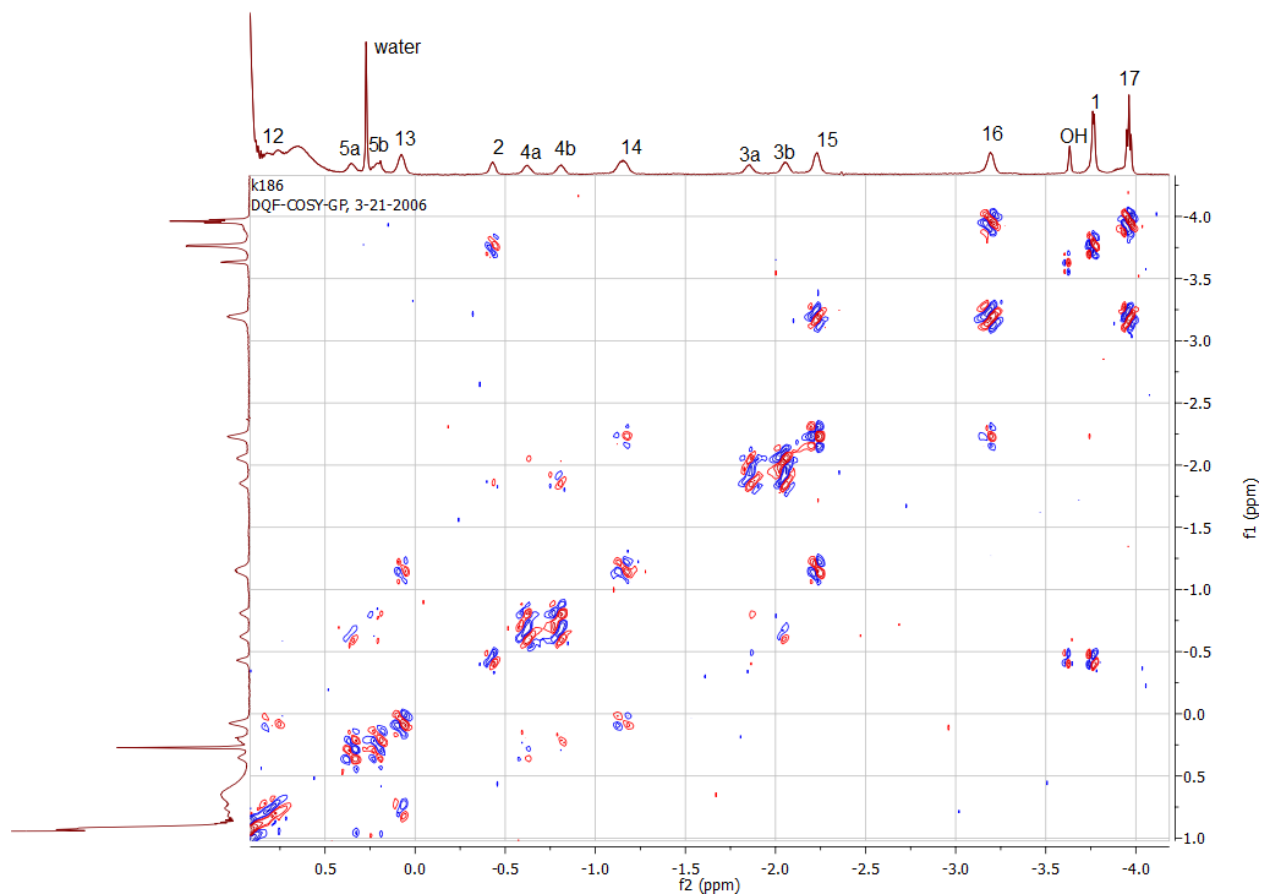


Fig. SI 13: Proton correlation (COSY) of encapsulation of 2-heptadecanol in $1.3'_2.3_2.1$ (II).

NMR spectra of encapsulated *n*-octadecane in host II/III

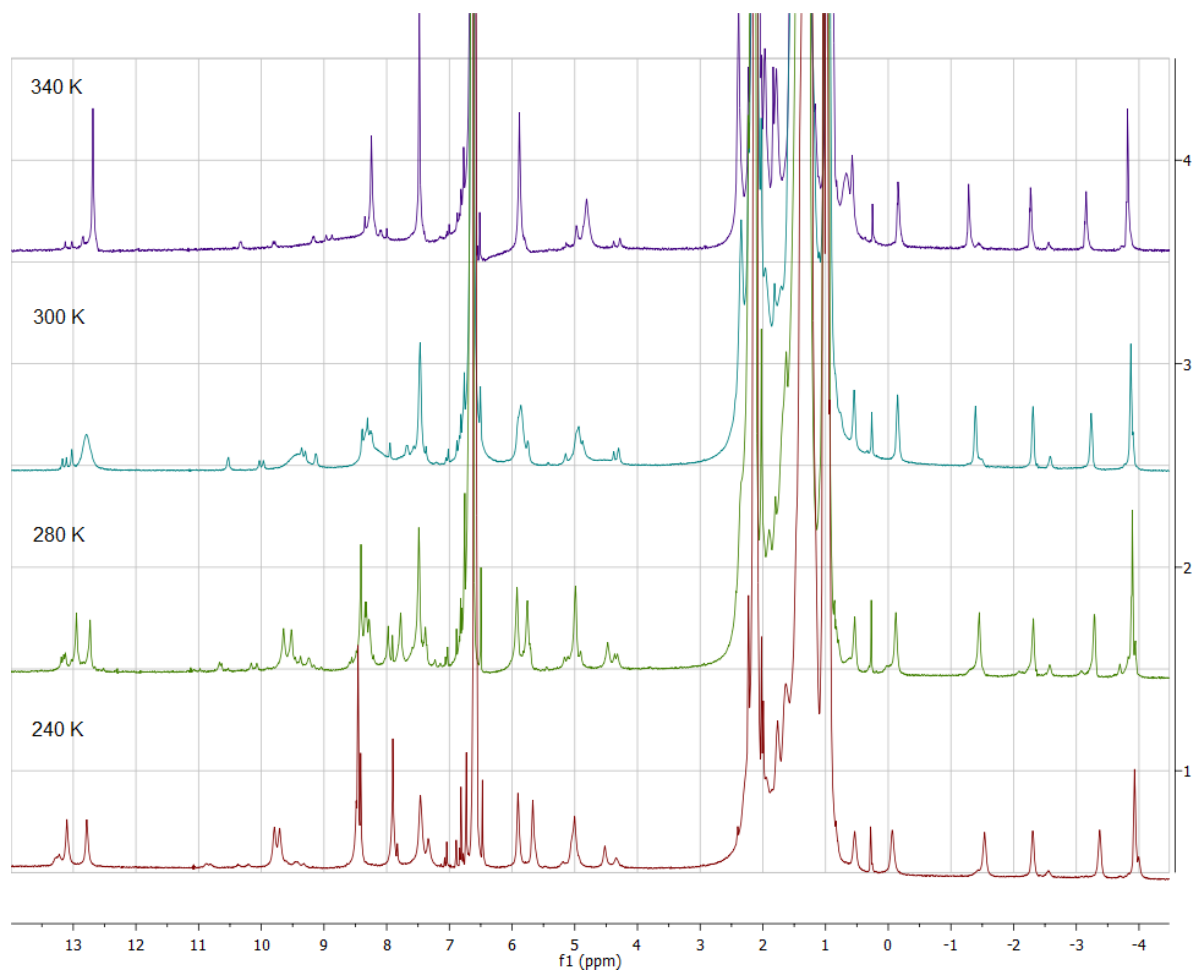


Fig. SI 14: NMR spectra of encapsulated *n*-octadecane in host II/III at 240 – 340 K.

NMR spectra of encapsulated *n*-nonadecane in host III

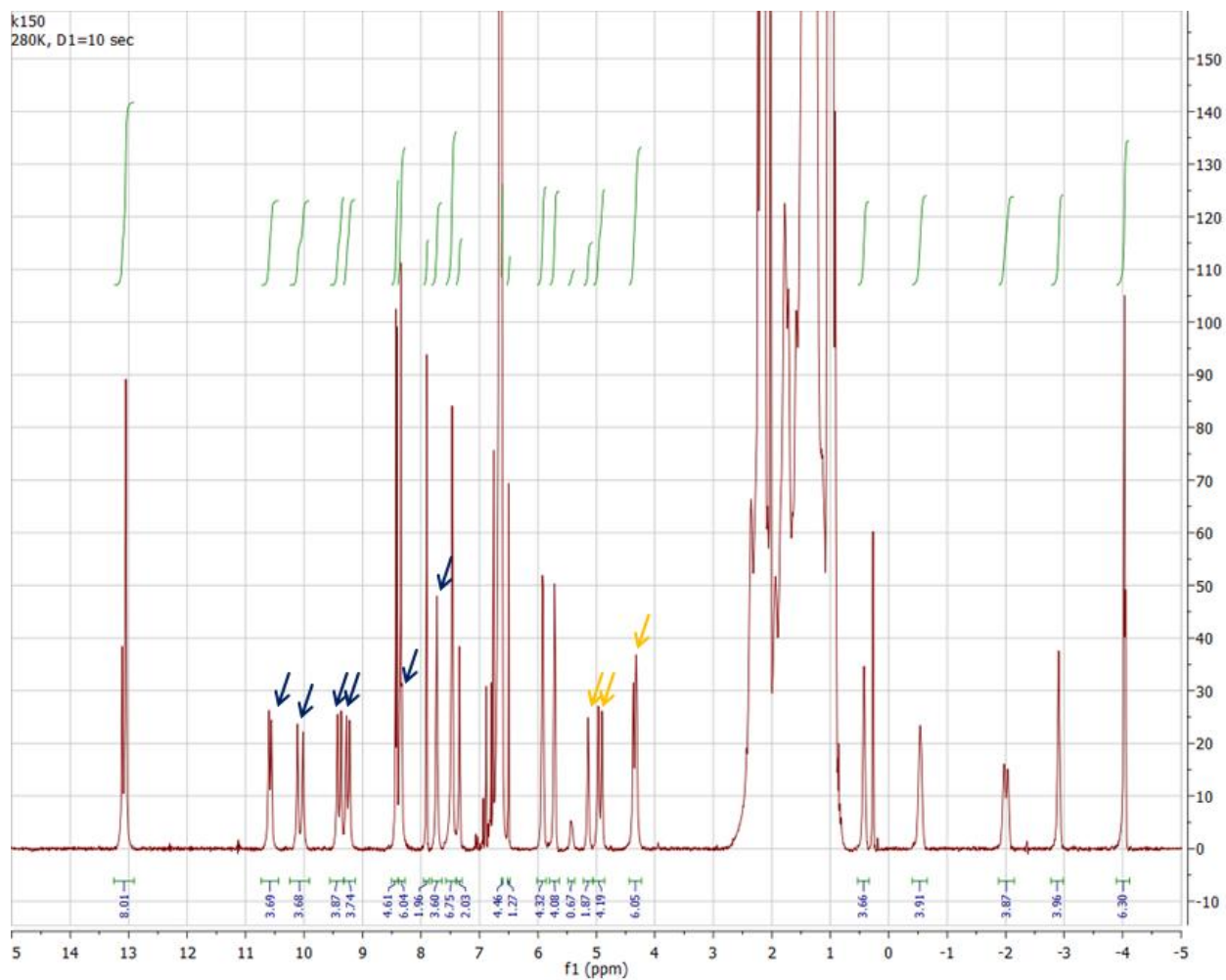


Fig. SI 15: ¹H-NMR spectrum of encapsulated *n*-nonadecane. Integration of the propanediurea-NH protons (marked in blue) as well as integration of the propanediurea-bridgehead protons (marked in yellow) reveal the presence of six PD-units in the assembly **III**.

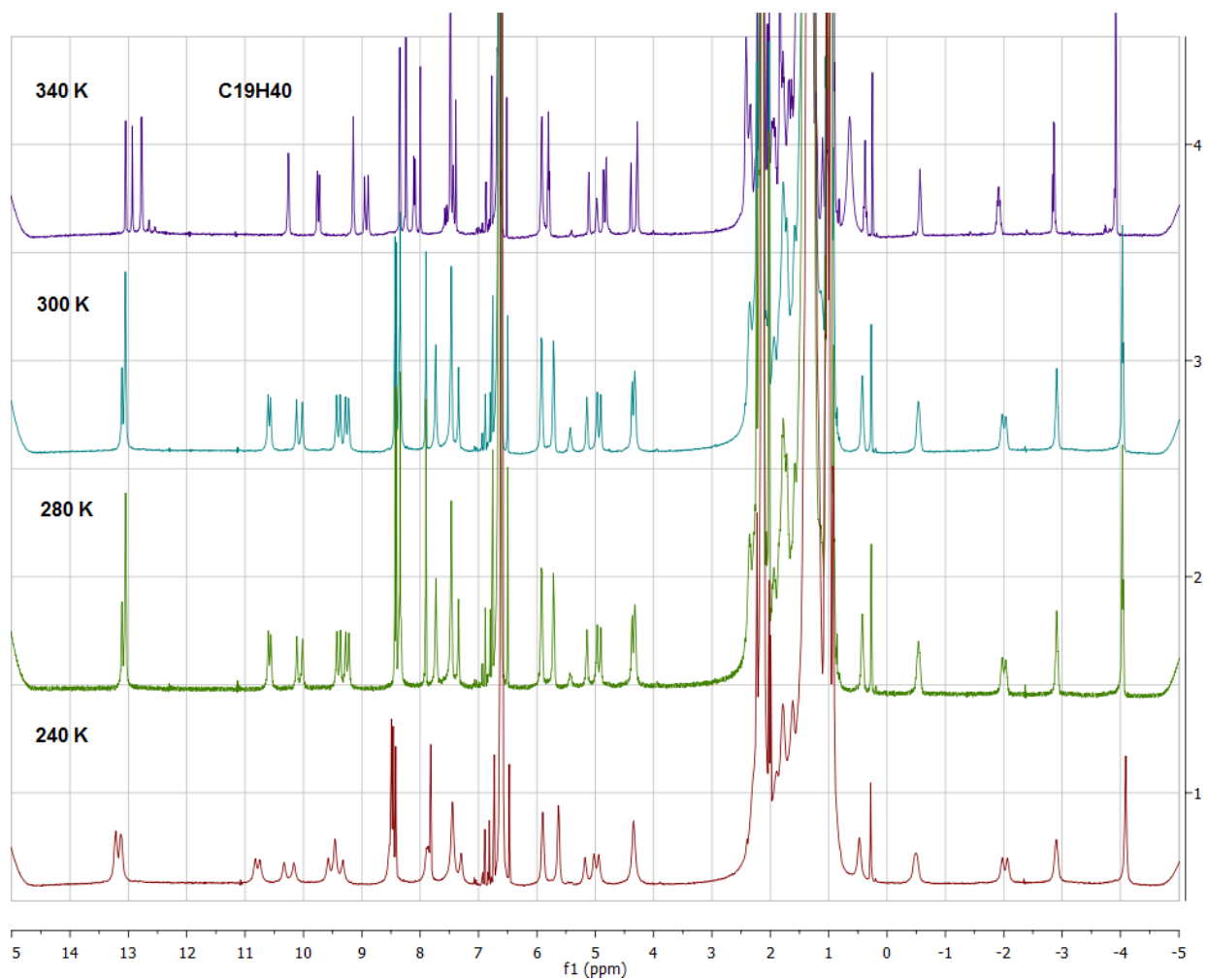


Fig. SI 16: ¹H-NMR of assembly III with encapsulated *n*-nonadecane at 240 – 340 K. Diastereotopic CH₂-guest signals are observed at 240-300 K, indicating a chiral assembly.

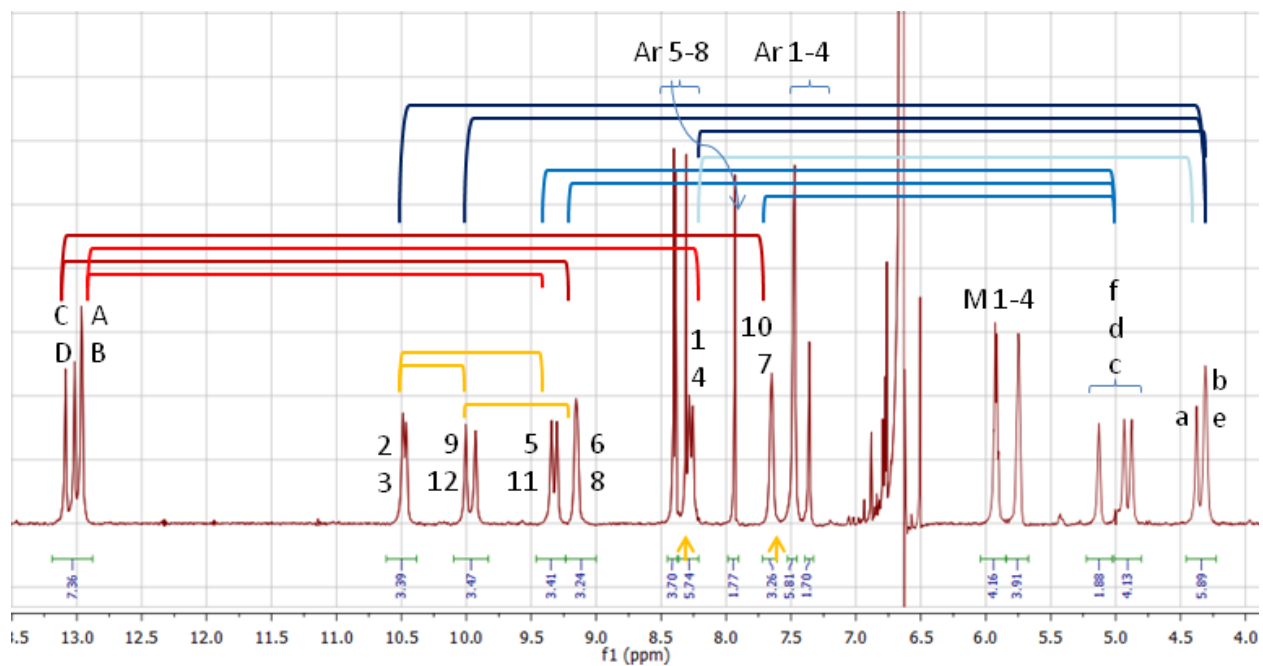


Fig. SI 17: Observed NOE-signals in assembly III ($1.3'_{2,3,4,1}$) with *n*-nonadecane as guest (cf. Fig. SI 20).

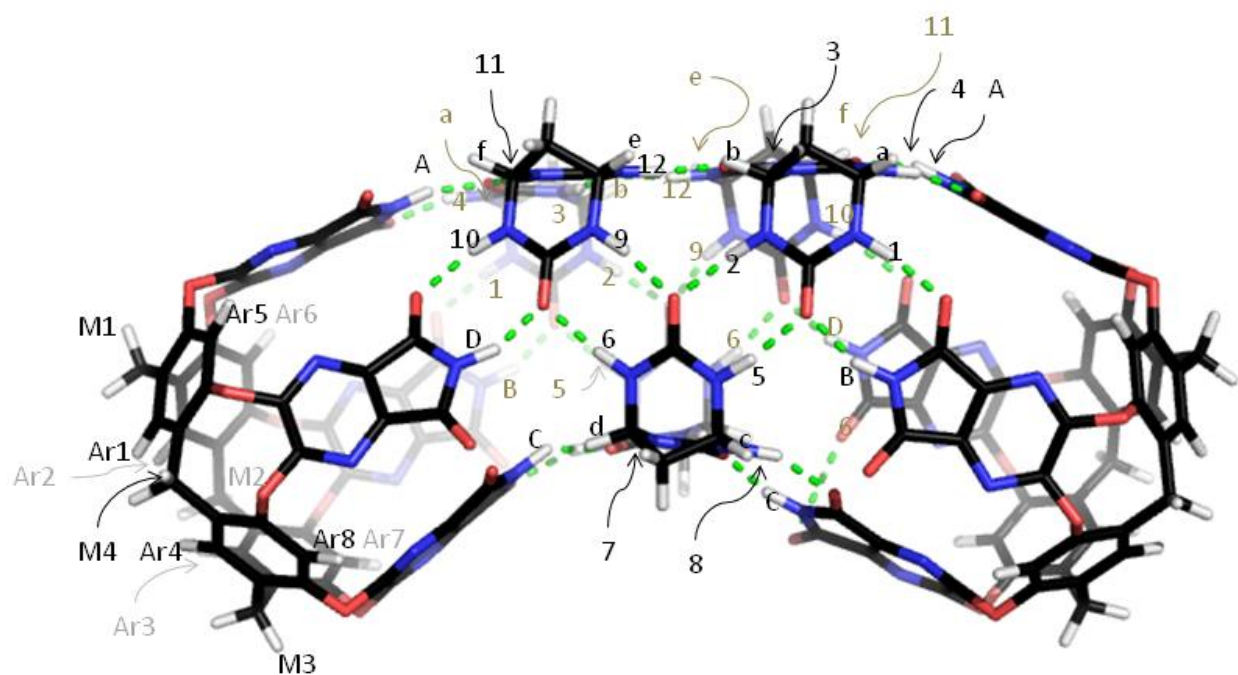
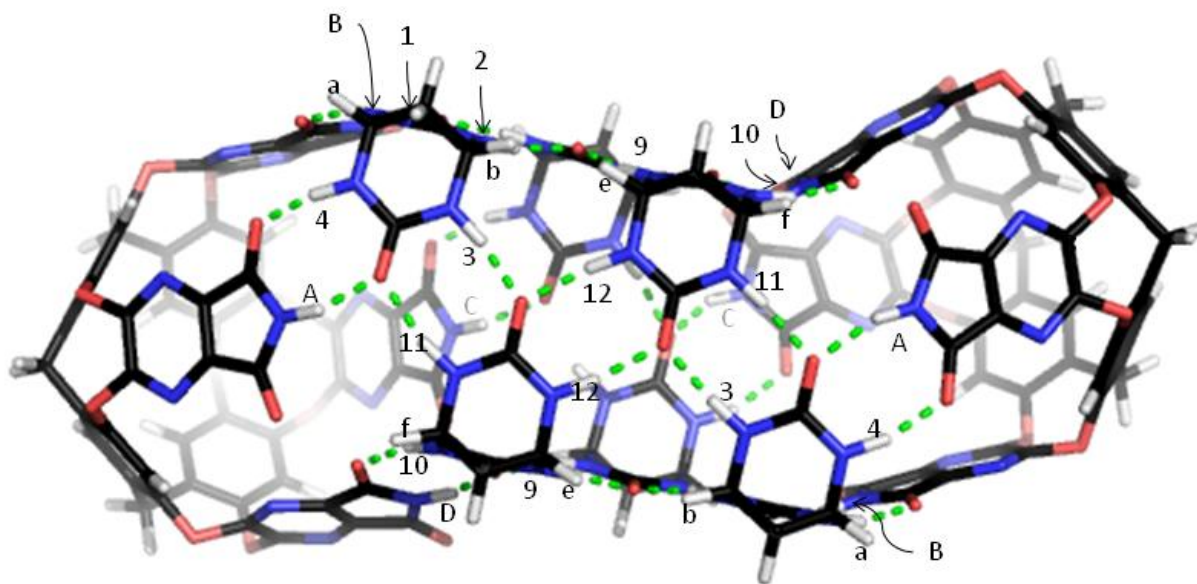
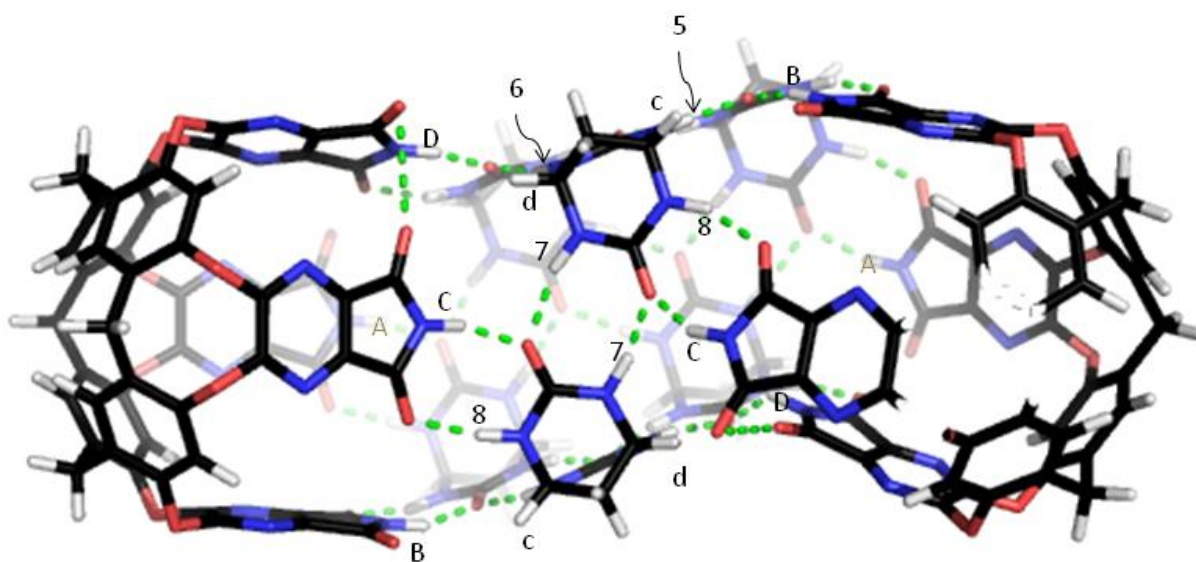


Fig. SI 18: Model of the assembly III ($1.3'_{2,3,4,1}$)- side view.



(top view)



(bottom view)

Fig. SI 19: Different views of assembly III (1.3'2.34.1).

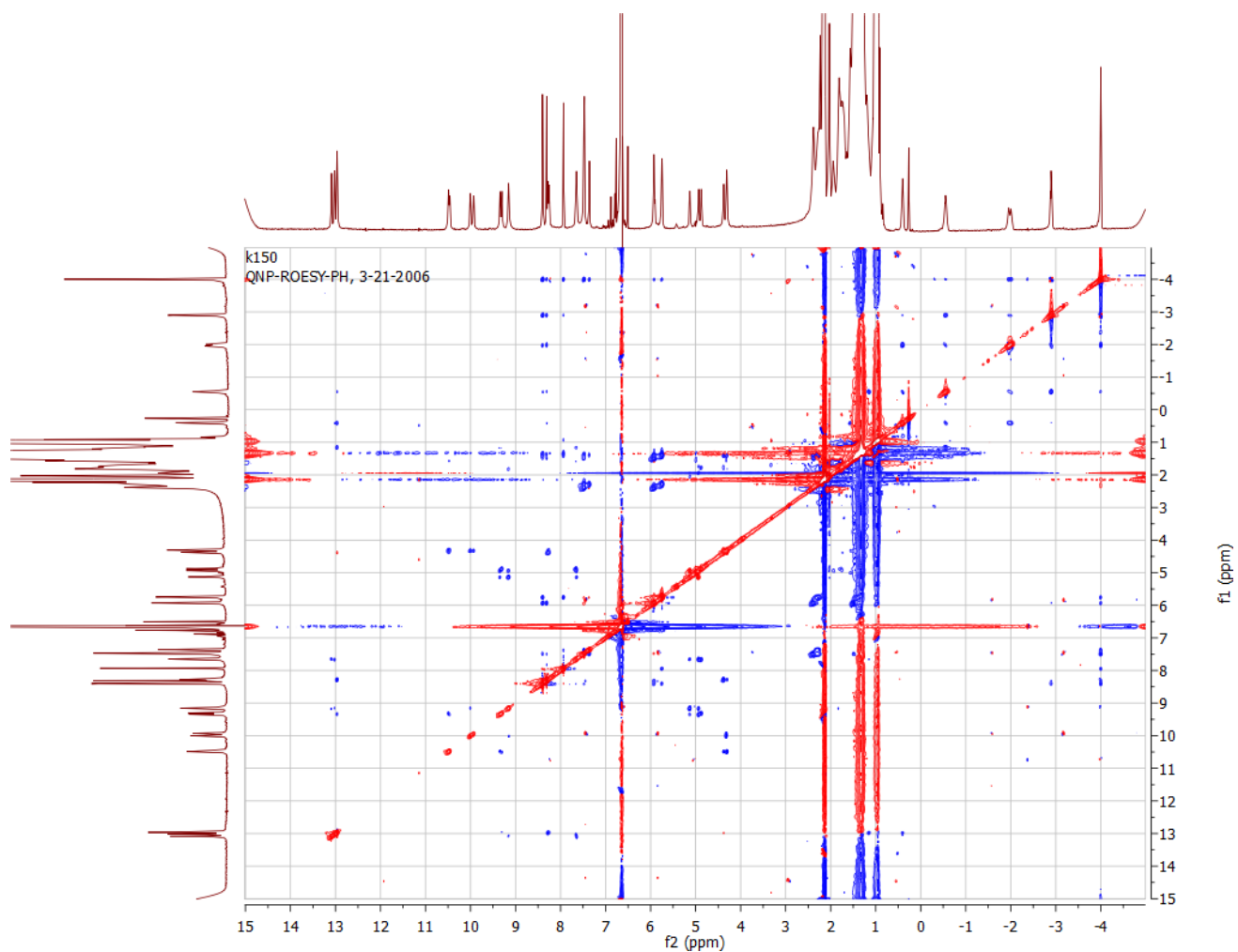


Fig. SI 20: ROESY spectrum of the assembly **III** with encapsulated *n*-nonadecane. The observed NOE-signals are displayed in Fig. SI 17.

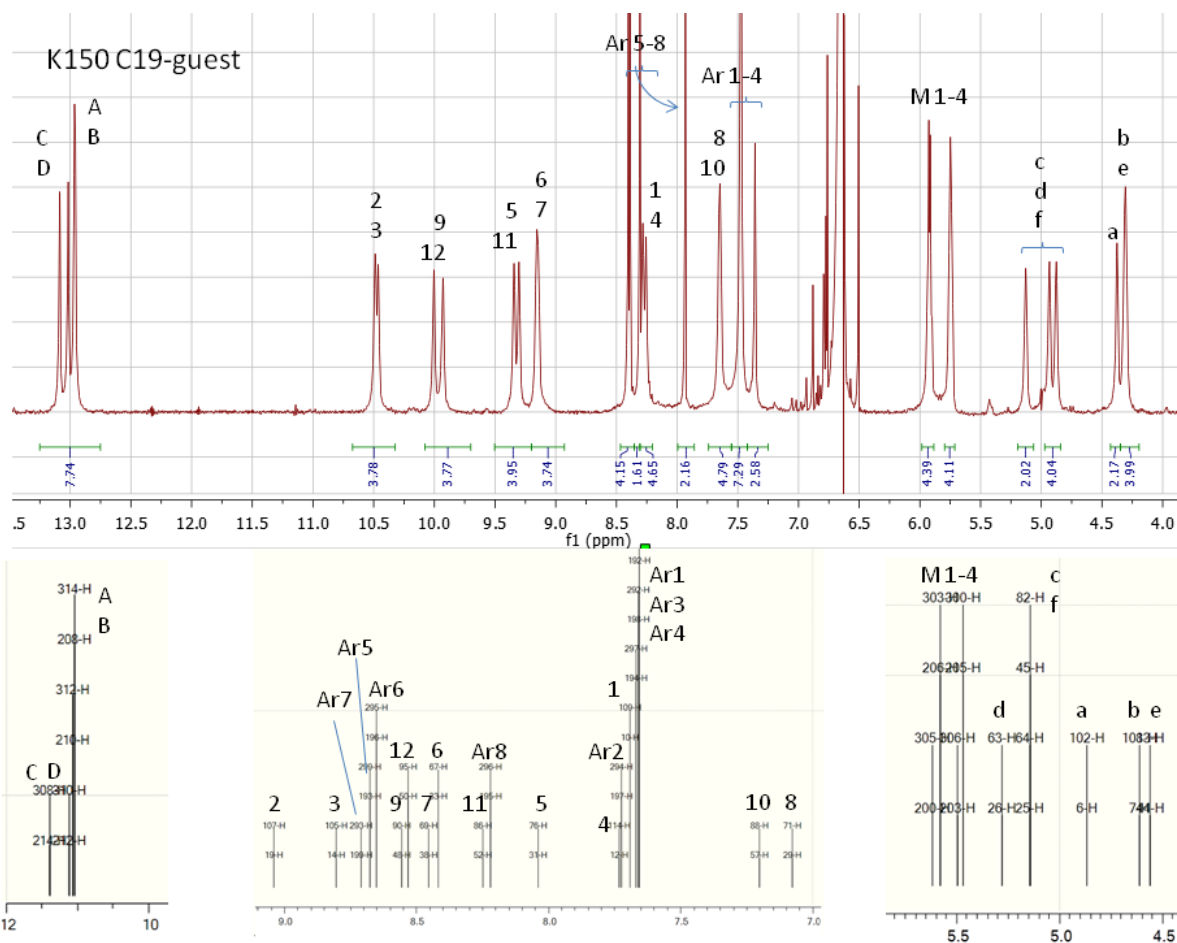


Fig. SI 21: Comparison of the observed NMR spectrum for assembly III encapsulating *n*-nonadecane (top) and the calculated NMR spectrum (bottom; B3LYP/6-31G*, for raw data see appendix-txt-file). To limit the degrees of freedom of the assembly all alkyl feet on cavitaand **1** and on the propanediurea-units **3** had to be removed for the calculation. In addition the calculation was performed on the empty capsule (no guest present) in vacuum (no mesitylene solvent). Therefore the calculated absolute values of the resonances differ significantly from the observed ones. Nevertheless the relative orders of the imide-peaks (A-D), NH-peaks (1-12) as well as the propanediurea-bridgehead-proton signals (a-f) match well. Also the appearance and relative order of two sets of aromatic signals (Ar 5-8 and Ar 1-4) is predicted correctly by the calculation.

Shape selective encapsulation studies

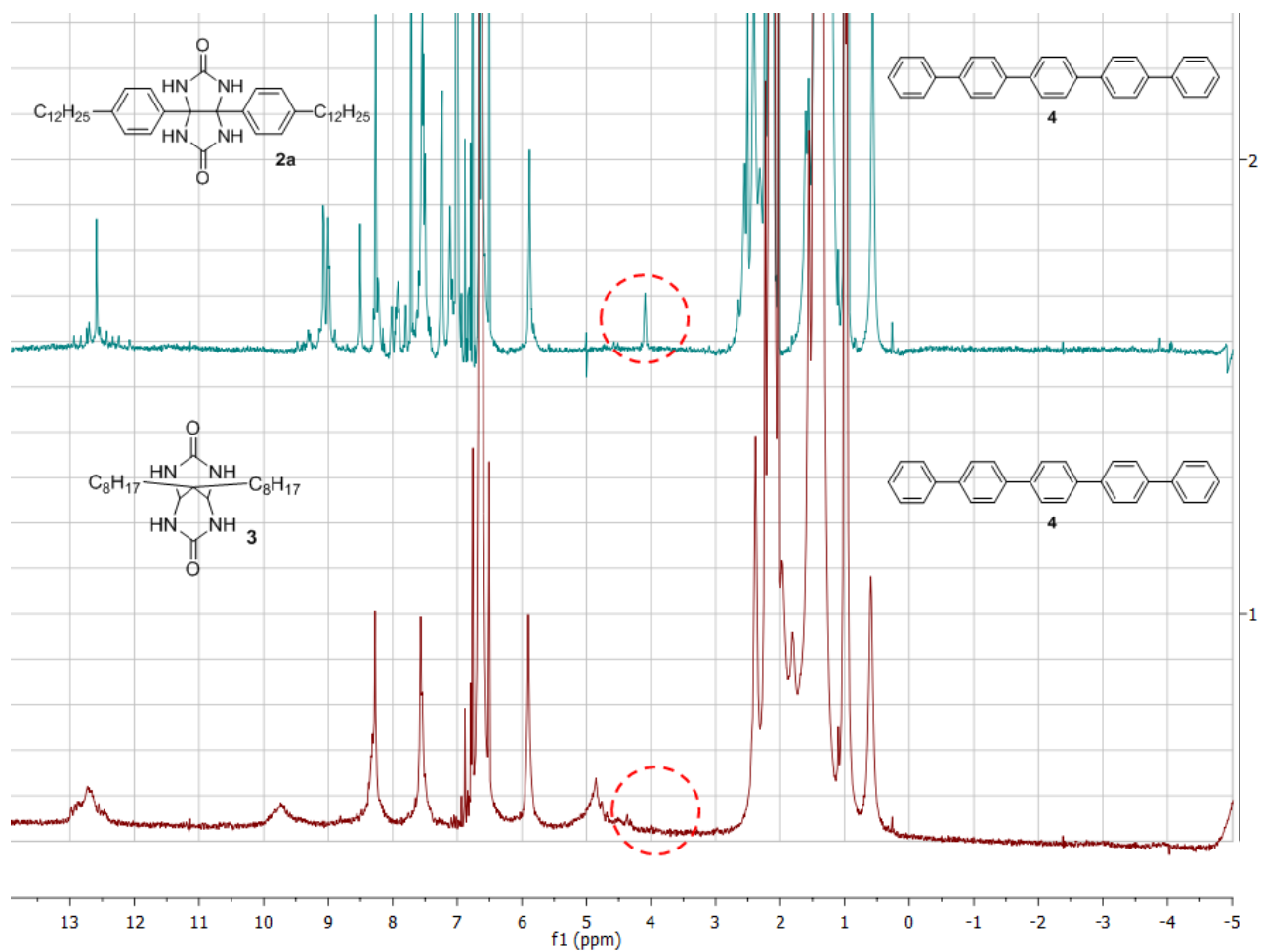


Fig. SI 22: The rigid rectilinear *p*-pentaphenyl (**4**) was accepted in the known doubly extended capsule formed by glycoluril **2a**, but it was rejected by capsule III assembled from propanediurea **3** apparently due to the insurmountable shape incompatibilities. The observed guest peak at ca. 4.0 ppm is indicative of the encapsulation of the aromatic guest.⁵

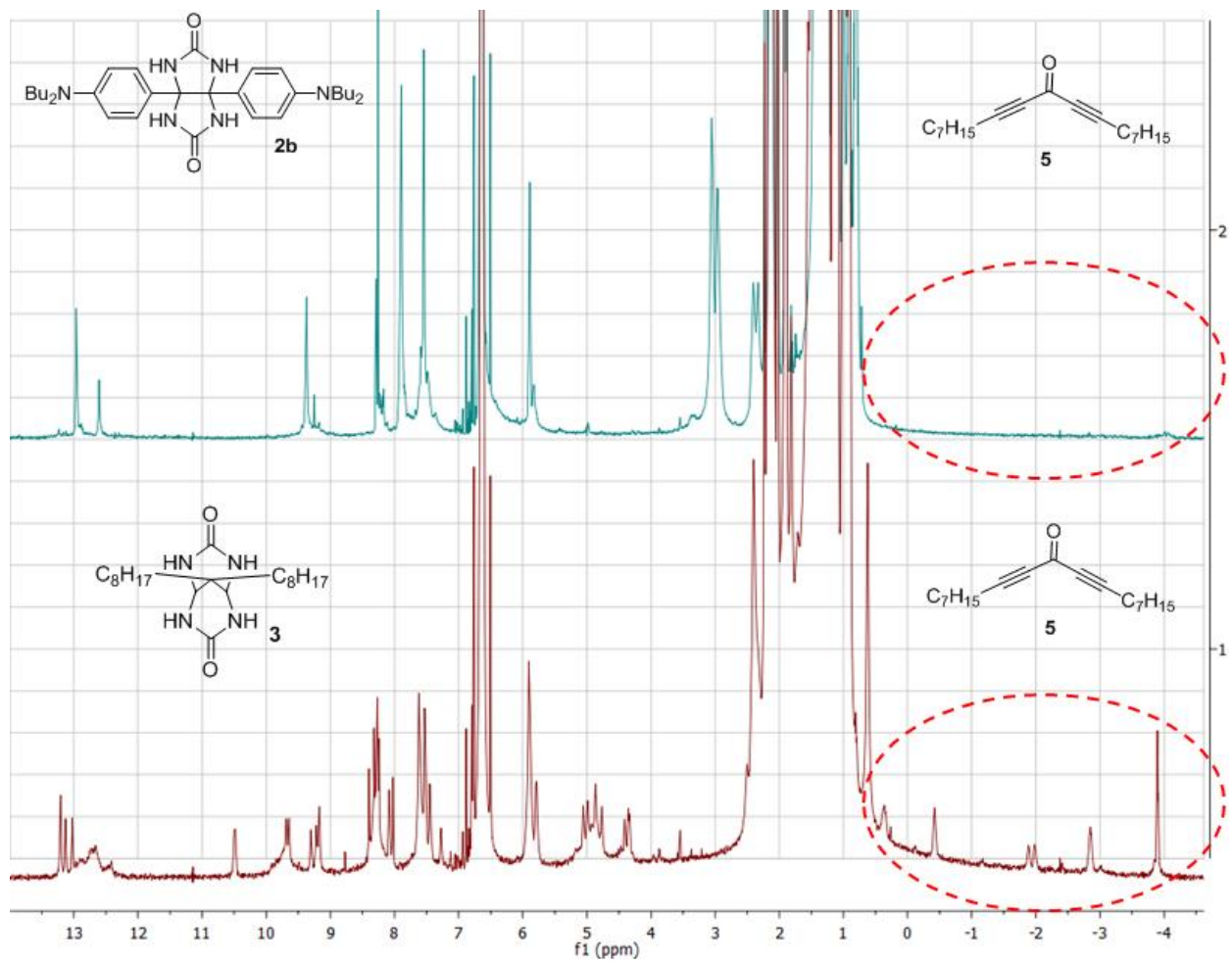


Fig. SI 23: The bent ketone-guest **5** on the other hand was encapsulated in the congruent host **III** formed by propanediurea **3** but not in the linear capsule **1.2₃.1** formed by glycoluril **2b**.

NMR spectra of encapsulated *n*-docosane (*n*-C₂₂H₄₆) in host IV

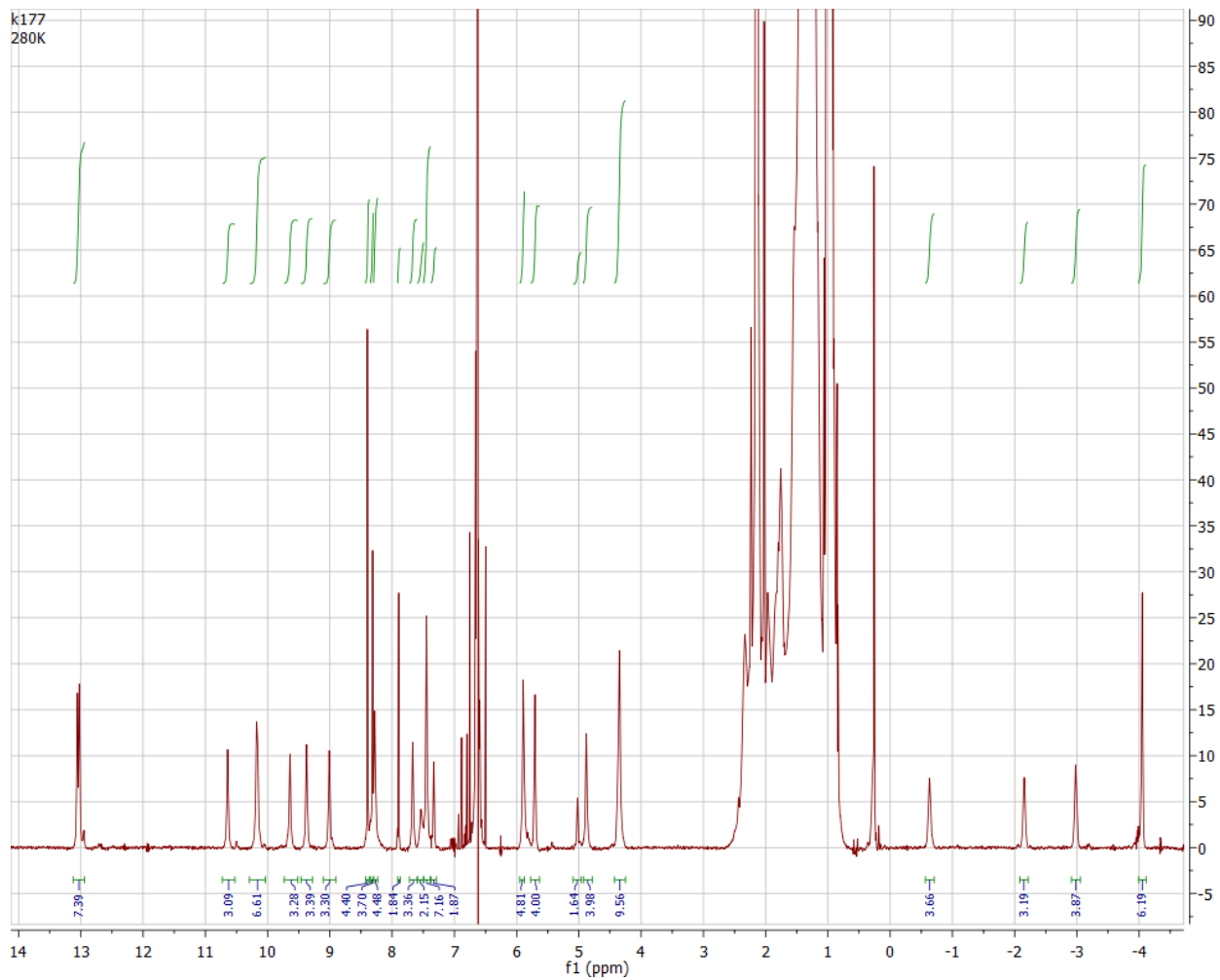


Fig. SI 24: Integrated 1H-NMR spectra of encapsulated *n*-docosane (*n*-C₂₂H₄₆) in host IV

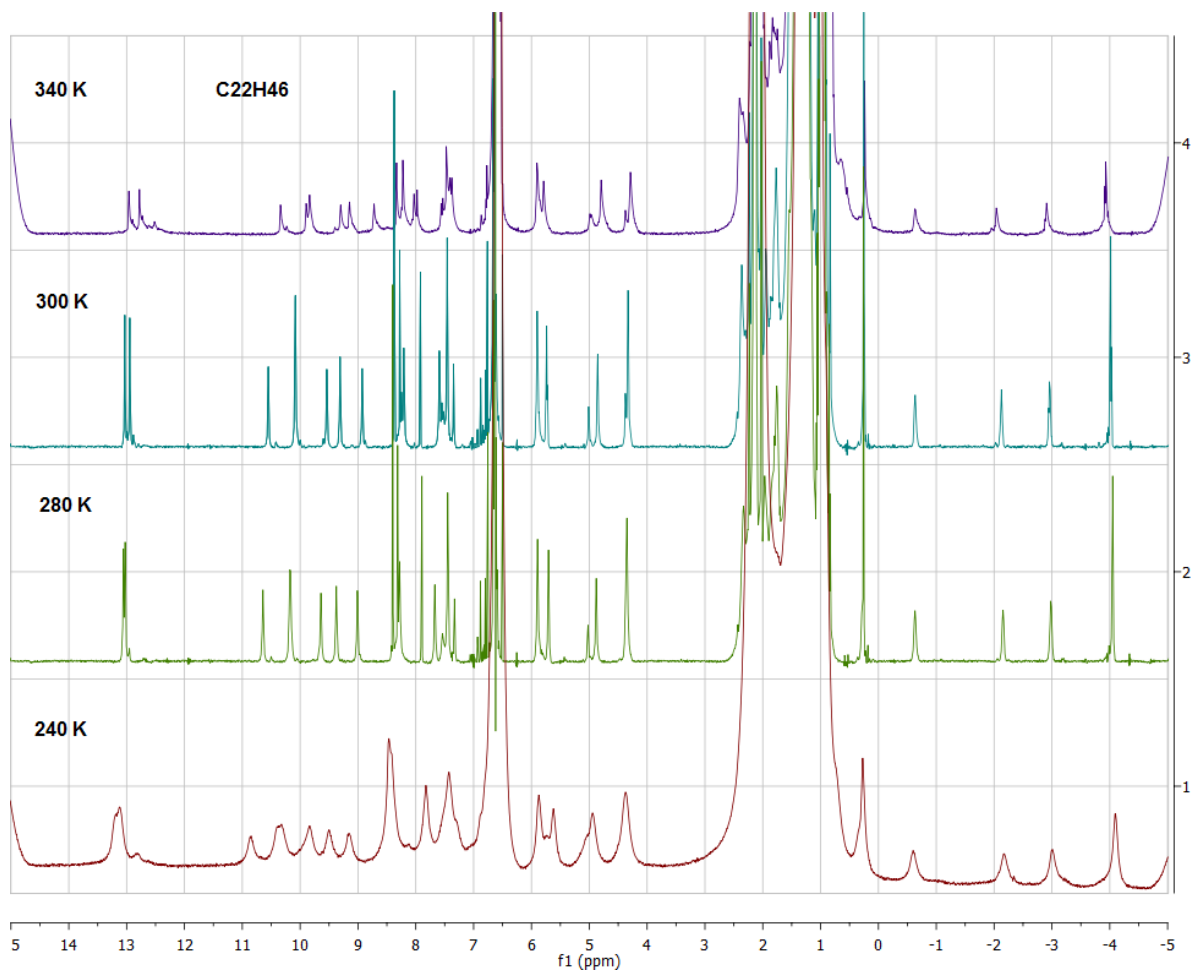


Fig. SI 25: ^1H -NMR of assembly **IV** with encapsulated *n*-docosane at 240 – 340 K. No diastereotopic CH_2 -guest signals are displayed.

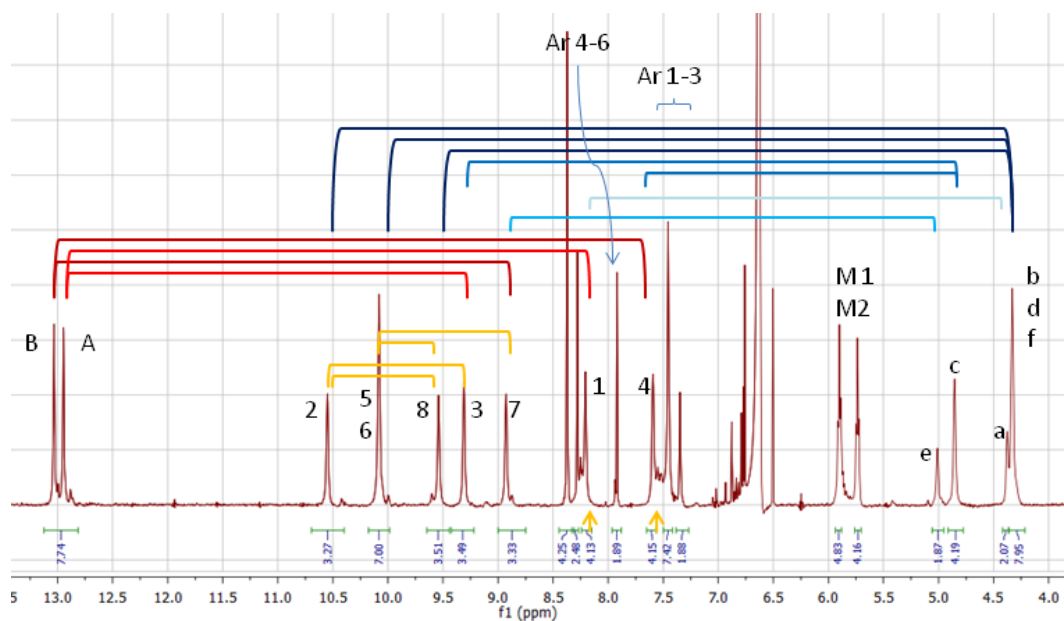


Fig. SI 26: Observed NOE-signals in assembly **IV (1.3'4.34.1)** with *n*-docosane as guest, recorded at 300 K (cf. Fig. SI 28).

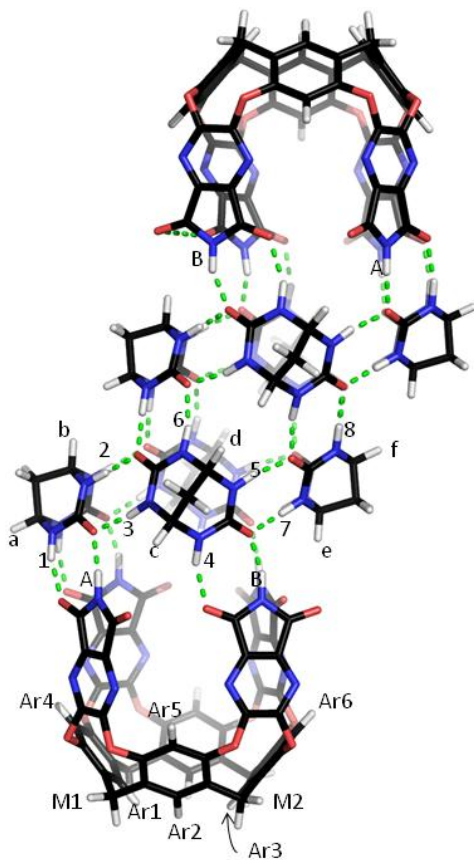


Fig. SI 27: Model of assembly **IV (1.3'4.34.1)**-

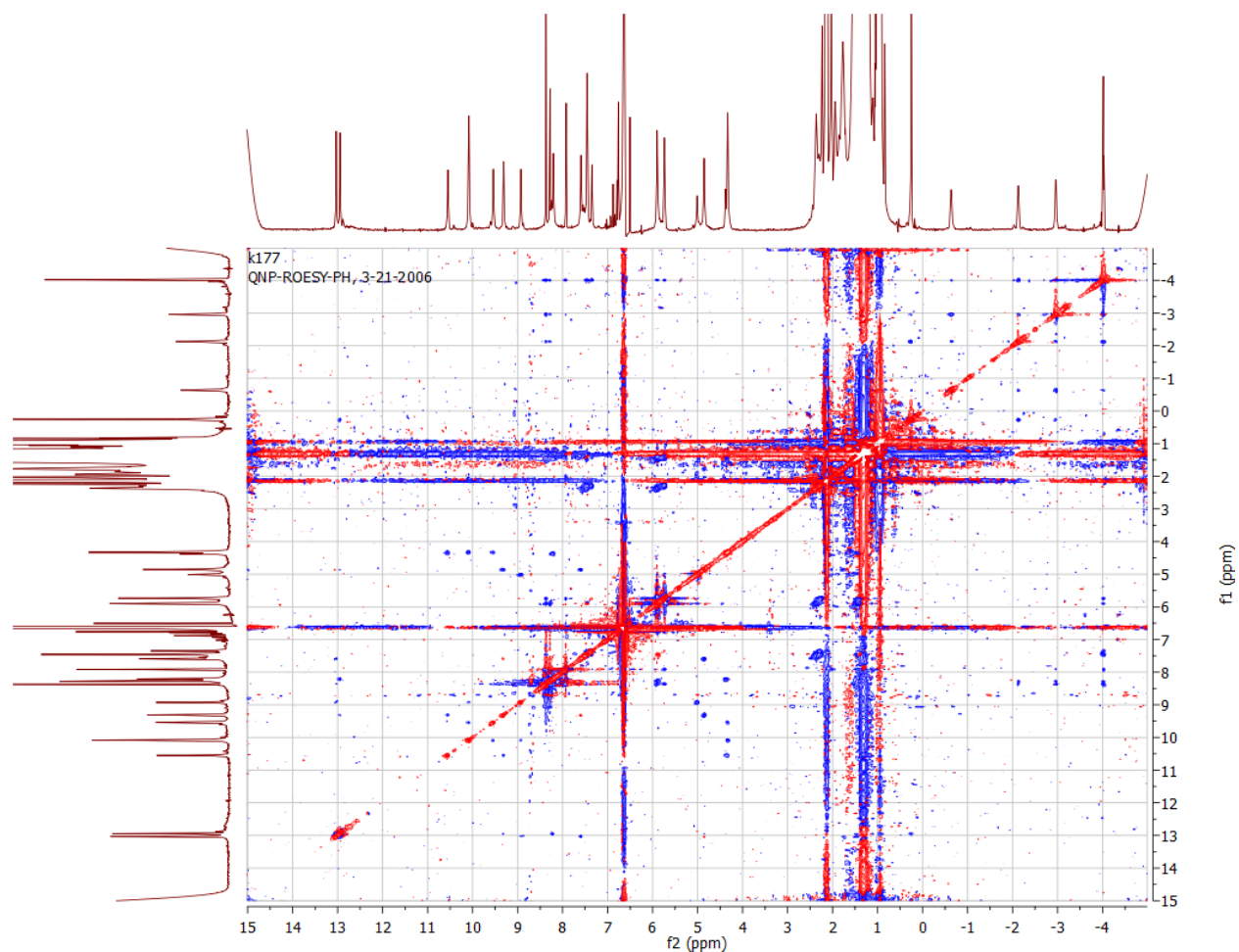


Fig. SI 28: ROESY spectrum of the assembly **IV** with encapsulated *n*-docosane. The observed NOEs were transferred to Fig. SI 26.

References

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raw data (B3LYP/6-31G*) for the calculated NMR spectrum

b3lyp/6-31g*

Calculating GIAO nuclear magnetic shielding tensors.

SCF GIAO Magnetic shielding tensor (ppm):

1	H	Isotropic =	30.0748	Anisotropy =	8.3429		
		XX=	27.4798	YX=	0.4544	ZX=	1.3882
		XY=	0.2179	YY=	27.5810	ZY=	0.2688
		XZ=	2.5127	YZ=	0.0355	ZZ=	35.1636
		Eigenvalues:	26.8892	27.6985	35.6367		
2	C	Isotropic =	161.6254	Anisotropy =	26.7314		
		XX=	167.6179	YX=	-1.6056	ZX=	-11.1907
		XY=	-1.8055	YY=	150.3101	ZY=	4.5296
		XZ=	-11.8891	YZ=	4.1119	ZZ=	166.9483
		Eigenvalues:	149.1517	156.2783	179.4464		
3	C	Isotropic =	131.3838	Anisotropy =	19.4443		
		XX=	140.6856	YX=	-9.1312	ZX=	-1.4960
		XY=	-4.0368	YY=	111.3235	ZY=	3.0451
		XZ=	-2.9361	YZ=	-2.4642	ZZ=	142.1422
		Eigenvalues:	109.9137	139.8909	144.3466		
4	C	Isotropic =	132.1854	Anisotropy =	18.9389		
		XX=	142.8616	YX=	-2.6494	ZX=	-1.2343
		XY=	-8.3305	YY=	109.9078	ZY=	-1.0705
		XZ=	-0.1738	YZ=	4.8462	ZZ=	143.7868
		Eigenvalues:	108.9293	142.8156	144.8114		
5	H	Isotropic =	30.0470	Anisotropy =	8.2669		
		XX=	34.9357	YX=	-1.0388	ZX=	2.5160
		XY=	-1.1038	YY=	27.8475	ZY=	-0.2197
		XZ=	1.4254	YZ=	0.2155	ZZ=	27.3578
		Eigenvalues:	26.8063	27.7764	35.5582		
6	H	Isotropic =	27.7303	Anisotropy =	7.9720		
		XX=	27.6378	YX=	3.5524	ZX=	1.5119
		XY=	3.0301	YY=	29.1539	ZY=	2.2469
		XZ=	1.6177	YZ=	2.6866	ZZ=	26.3993
		Eigenvalues:	24.7819	25.3641	33.0449		
7	H	Isotropic =	27.9865	Anisotropy =	7.4520		
		XX=	25.5037	YX=	-0.5375	ZX=	0.5394
		XY=	-0.5487	YY=	32.3475	ZY=	-1.8917
		XZ=	0.4296	YZ=	-1.9706	ZZ=	26.1084
		Eigenvalues:	25.1814	25.8237	32.9545		
8	N	Isotropic =	145.6124	Anisotropy =	61.7987		
		XX=	170.5029	YX=	-35.9949	ZX=	-4.6342
		XY=	1.2949	YY=	151.7612	ZY=	-27.0725
		XZ=	-6.4310	YZ=	-53.0357	ZZ=	114.5730
		Eigenvalues:	86.6288	163.3968	186.8115		
9	N	Isotropic =	147.6027	Anisotropy =	54.2502		
		XX=	176.6182	YX=	23.6295	ZX=	2.0252
		XY=	-9.8162	YY=	144.1774	ZY=	27.7715
		XZ=	5.4358	YZ=	53.7713	ZZ=	122.0125
		Eigenvalues:	90.8263	168.2123	183.7695		
10	H	Isotropic =	24.9050	Anisotropy =	15.0771		
		XX=	15.6856	YX=	0.9699	ZX=	-0.8185
		XY=	-0.5932	YY=	31.4498	ZY=	-6.0364
		XZ=	-0.2350	YZ=	-4.1127	ZZ=	27.5796
		Eigenvalues:	15.6622	24.0964	34.9564		

11 N Isotropic = 147.0721 Anisotropy = 55.1357
XX= 139.6579 YX= 55.5659 ZX= -6.6536
XY= 29.4925 YY= 129.2329 ZY= -2.0842
XZ= 2.1026 YZ= 31.3984 ZZ= 172.3256
Eigenvalues: 89.6949 167.6923 183.8293

12 H Isotropic = 24.8645 Anisotropy = 15.0363
XX= 25.6543 YX= -2.9743 ZX= -0.0895
XY= -4.9486 YY= 32.7409 ZY= -3.7293
XZ= -0.0642 YZ= -2.1270 ZZ= 16.1985
Eigenvalues: 15.6346 24.0702 34.8887

13 N Isotropic = 145.3835 Anisotropy = 60.8235
XX= 99.7326 YX= -43.8771 ZX= 3.8359
XY= -18.4659 YY= 159.9294 ZY= 5.3242
XZ= -6.7007 YZ= -29.9201 ZZ= 176.4886
Eigenvalues: 86.0790 164.1390 185.9325

14 H Isotropic = 23.7926 Anisotropy = 19.4566
XX= 29.3498 YX= 7.0637 ZX= -1.0472
XY= 7.6758 YY= 29.2534 ZY= -0.1971
XZ= -2.2480 YZ= -0.7016 ZZ= 12.7747
Eigenvalues: 12.6069 22.0073 36.7637

15 C Isotropic = 41.0695 Anisotropy = 103.9982
XX= 23.8298 YX= -8.7727 ZX= 7.7592
XY= -9.9515 YY= -10.9275 ZY= -0.1452
XZ= -3.8928 YZ= 5.5785 ZZ= 110.3062
Eigenvalues: -13.3669 26.1738 110.4016

16 C Isotropic = 41.2857 Anisotropy = 103.2870
XX= 106.1610 YX= -19.9908 ZX= -4.0868
XY= -23.4398 YY= -9.9717 ZY= -1.5229
XZ= 7.6698 YZ= -2.6168 ZZ= 27.6679
Eigenvalues: -13.9703 27.6838 110.1437

17 O Isotropic = 97.2042 Anisotropy = 281.6395
XX= 272.8841 YX= -49.2852 ZX= -21.7183
XY= -62.6773 YY= 21.9073 ZY= 6.5937
XZ= 36.1454 YZ= -3.8815 ZZ= -3.1786
Eigenvalues: -3.9131 10.5620 284.9639

18 O Isotropic = 99.6019 Anisotropy = 276.0413
XX= 3.3594 YX= 4.7758 ZX= 29.4179
XY= 3.2553 YY= 11.8718 ZY= -13.5468
XZ= -22.5823 YZ= 9.6452 ZZ= 283.5744
Eigenvalues: 1.7102 13.4660 283.6294

19 H Isotropic = 23.5569 Anisotropy = 20.3394
XX= 12.7325 YX= 2.5219 ZX= -0.6255
XY= 3.2700 YY= 32.0233 ZY= 7.7514
XZ= 0.2783 YZ= 6.8768 ZZ= 25.9150
Eigenvalues: 12.1708 21.3834 37.1166

20 H Isotropic = 30.0175 Anisotropy = 7.8328
XX= 34.4342 YX= -1.7175 ZX= 2.1049
XY= -1.8306 YY= 28.6098 ZY= -0.3592
XZ= 1.0115 YZ= -0.3069 ZZ= 27.0084
Eigenvalues: 26.6943 28.1188 35.2393

21 C Isotropic = 161.8933 Anisotropy = 32.0137
XX= 167.0350 YX= -4.1537 ZX= -13.9315
XY= -4.6134 YY= 149.2672 ZY= 2.6995
XZ= -14.6083 YZ= 2.5791 ZZ= 169.3777

Eigenvalues: 148.2020 154.2421 183.2358
 22 C Isotropic = 132.5075 Anisotropy = 19.2598
 XX= 142.1375 YX= -10.8208 ZX= -1.1942
 XY= -6.3126 YY= 111.4855 ZY= -0.6553
 XZ= -2.5763 YZ= -5.5370 ZZ= 143.8996
 Eigenvalues: 108.9090 143.2662 145.3474
 23 C Isotropic = 133.4167 Anisotropy = 20.2245
 XX= 144.3014 YX= -4.0864 ZX= -1.8817
 XY= -8.8243 YY= 111.0399 ZY= -1.4021
 XZ= -1.0888 YZ= 3.5371 ZZ= 144.9087
 Eigenvalues: 109.8138 143.5365 146.8997
 24 H Isotropic = 30.0891 Anisotropy = 7.3960
 XX= 27.1362 YX= -0.2958 ZX= 0.9810
 XY= -0.2627 YY= 28.5357 ZY= -0.2621
 XZ= 2.5144 YZ= -0.5913 ZZ= 34.5954
 Eigenvalues: 26.7289 28.5187 35.0198
 25 H Isotropic = 27.4527 Anisotropy = 7.9851
 XX= 26.3591 YX= 3.5183 ZX= 0.7256
 XY= 2.6159 YY= 30.0388 ZY= 2.2878
 XZ= 1.1509 YZ= 2.6433 ZZ= 25.9602
 Eigenvalues: 24.3815 25.2005 32.7761
 26 H Isotropic = 27.3174 Anisotropy = 9.4011
 XX= 24.4728 YX= -2.1358 ZX= 0.0416
 XY= -1.4029 YY= 32.2374 ZY= -2.5004
 XZ= -0.0305 YZ= -3.2854 ZZ= 25.2421
 Eigenvalues: 23.5992 24.7683 33.5849
 27 N Isotropic = 146.1511 Anisotropy = 63.0311
 XX= 101.6927 YX= -43.7312 ZX= 5.9608
 XY= -19.5672 YY= 161.2907 ZY= 5.3595
 XZ= -1.9275 YZ= -31.7114 ZZ= 175.4698
 Eigenvalues: 87.8887 162.3927 188.1718
 28 N Isotropic = 150.4020 Anisotropy = 64.0132
 XX= 149.1241 YX= 54.9299 ZX= 7.3569
 XY= 29.4785 YY= 127.5493 ZY= -12.4526
 XZ= 14.5846 YZ= 31.1446 ZZ= 174.5326
 Eigenvalues: 94.7702 163.3583 193.0775
 29 H Isotropic = 25.5201 Anisotropy = 15.7879
 XX= 24.9475 YX= -1.0491 ZX= -3.3615
 XY= -3.0146 YY= 33.0402 ZY= 5.0033
 XZ= -4.4007 YZ= 6.6038 ZZ= 18.5725
 Eigenvalues: 15.5287 24.9862 36.0453
 30 N Isotropic = 148.4378 Anisotropy = 56.3780
 XX= 179.1578 YX= 23.1504 ZX= 7.1402
 XY= -13.6515 YY= 142.8781 ZY= 28.1270
 XZ= 11.2285 YZ= 48.8596 ZZ= 123.2774
 Eigenvalues: 93.1350 166.1552 186.0231
 31 H Isotropic = 24.5577 Anisotropy = 19.1074
 XX= 14.6404 YX= 5.4783 ZX= -3.1923
 XY= 4.0225 YY= 31.7239 ZY= -6.2787
 XZ= -2.1293 YZ= -5.9129 ZZ= 27.3089
 Eigenvalues: 13.3157 23.0614 37.2960
 32 N Isotropic = 147.7825 Anisotropy = 62.4105
 XX= 170.6461 YX= -37.8439 ZX= -5.1870
 XY= 1.3306 YY= 154.9392 ZY= -27.8043

	XZ=	-5.1293	YZ=	-50.6606	ZZ=	117.7622
	Eigenvalues:	90.3958	163.5623	189.3895		
33	H	Isotropic =	24.1798	Anisotropy =	19.5897	
	XX=	13.0730	YX=	0.1394	ZX=	-0.8620
	XY=	1.4874	YY=	32.2987	ZY=	7.6118
	XZ=	0.3279	YZ=	6.4738	ZZ=	27.1678
	Eigenvalues:	13.0112	22.2886	37.2396		
34	C	Isotropic =	41.8601	Anisotropy =	103.7644	
	XX=	106.0749	YX=	-22.9937	ZX=	-1.0451
	XY=	-24.5279	YY=	-7.3748	ZY=	-1.9804
	XZ=	7.9234	YZ=	-3.9495	ZZ=	26.8803
	Eigenvalues:	-12.2776	26.8216	111.0364		
35	C	Isotropic =	42.9548	Anisotropy =	102.6525	
	XX=	24.8030	YX=	-10.5722	ZX=	13.1012
	XY=	-9.5225	YY=	-5.3937	ZY=	-8.6892
	XZ=	5.0618	YZ=	-10.5164	ZZ=	109.4551
	Eigenvalues:	-8.8069	26.2815	111.3898		
36	O	Isotropic =	113.6744	Anisotropy =	258.7396	
	XX=	27.1159	YX=	-0.9709	ZX=	54.2319
	XY=	3.0523	YY=	29.4976	ZY=	-19.0642
	XZ=	-18.4851	YZ=	-4.2865	ZZ=	284.4097
	Eigenvalues:	25.0223	29.8334	286.1674		
37	O	Isotropic =	111.5501	Anisotropy =	274.3942	
	XX=	283.2734	YX=	-50.9530	ZX=	-30.1504
	XY=	-56.9572	YY=	33.1804	ZY=	4.8874
	XZ=	38.0774	YZ=	-7.5854	ZZ=	18.1966
	Eigenvalues:	18.0662	22.1046	294.4796		
38	H	Isotropic =	24.1429	Anisotropy =	18.7700	
	XX=	30.1100	YX=	6.3170	ZX=	-1.9018
	XY=	7.1921	YY=	28.7346	ZY=	-1.3657
	XZ=	-3.2430	YZ=	-2.4911	ZZ=	13.5839
	Eigenvalues:	13.1308	22.6416	36.6562		
39	H	Isotropic =	30.1638	Anisotropy =	8.0576	
	XX=	27.2900	YX=	-0.0707	ZX=	-0.9025
	XY=	-0.1916	YY=	27.9043	ZY=	0.0976
	XZ=	-1.8458	YZ=	0.3932	ZZ=	35.2972
	Eigenvalues:	27.0513	27.9046	35.5355		
40	C	Isotropic =	161.3276	Anisotropy =	30.9131	
	XX=	168.8867	YX=	-4.3288	ZX=	13.4103
	XY=	-4.2472	YY=	148.8359	ZY=	-3.4193
	XZ=	13.5190	YZ=	-2.7672	ZZ=	166.2602
	Eigenvalues:	147.9461	154.1003	181.9363		
41	C	Isotropic =	132.4058	Anisotropy =	18.1411	
	XX=	141.4883	YX=	-10.2514	ZX=	0.6201
	XY=	-5.1630	YY=	111.8317	ZY=	-1.8430
	XZ=	1.4670	YZ=	3.6530	ZZ=	143.8975
	Eigenvalues:	109.9110	142.8066	144.4999		
42	C	Isotropic =	132.7569	Anisotropy =	19.5506	
	XX=	144.0216	YX=	-2.3851	ZX=	1.6931
	XY=	-7.4887	YY=	109.6262	ZY=	1.5726
	XZ=	0.2874	YZ=	-3.4568	ZZ=	144.6230
	Eigenvalues:	108.9139	143.5662	145.7906		
43	H	Isotropic =	30.2171	Anisotropy =	7.7940	
	XX=	34.4485	YX=	-1.6324	ZX=	-2.7480

	XY=	-1.6933	YY=	28.4309	ZY=	0.3013
	XZ=	-1.3324	YZ=	0.0628	ZZ=	27.7717
	Eigenvalues:	27.1194	28.1188	35.4131		
44	H	Isotropic =	28.0374	Anisotropy =	7.7987	
	XX=	27.0269	YX=	3.0786	ZX=	-1.2190
	XY=	2.7080	YY=	30.8690	ZY=	-1.9218
	XZ=	-1.1882	YZ=	-2.2177	ZZ=	26.2164
	Eigenvalues:	25.3516	25.5241	33.2366		
45	H	Isotropic =	27.4554	Anisotropy =	8.0185	
	XX=	25.1677	YX=	-1.5609	ZX=	-0.0974
	XY=	-1.0870	YY=	31.9507	ZY=	1.7747
	XZ=	0.3585	YZ=	2.6007	ZZ=	25.2478
	Eigenvalues:	24.2526	25.3126	32.8011		
46	N	Isotropic =	150.0519	Anisotropy =	64.2426	
	XX=	168.6279	YX=	-36.3554	ZX=	-1.9954
	XY=	6.0465	YY=	152.9037	ZY=	30.5325
	XZ=	1.2795	YZ=	57.5663	ZZ=	128.6239
	Eigenvalues:	93.9878	163.2875	192.8802		
47	N	Isotropic =	146.5642	Anisotropy =	59.6109	
	XX=	177.0722	YX=	21.4138	ZX=	-11.6747
	XY=	-14.0672	YY=	143.3027	ZY=	-26.6961
	XZ=	-15.1863	YZ=	-51.4106	ZZ=	119.3175
	Eigenvalues:	89.5936	163.7942	186.3047		
48	H	Isotropic =	24.0409	Anisotropy =	18.9016	
	XX=	14.4016	YX=	4.9811	ZX=	3.8886
	XY=	3.8148	YY=	31.1912	ZY=	6.2296
	XZ=	2.9368	YZ=	5.6760	ZZ=	26.5299
	Eigenvalues:	13.0019	22.4788	36.6420		
49	N	Isotropic =	148.0340	Anisotropy =	59.3702	
	XX=	136.8360	YX=	51.6604	ZX=	-0.1503
	XY=	30.7585	YY=	131.1223	ZY=	5.0572
	XZ=	-6.2253	YZ=	-32.1169	ZZ=	176.1437
	Eigenvalues:	91.9496	164.5383	187.6141		
50	H	Isotropic =	24.0655	Anisotropy =	19.5909	
	XX=	24.2403	YX=	-4.6989	ZX=	0.6655
	XY=	-5.4318	YY=	35.0574	ZY=	-0.3636
	XZ=	1.4875	YZ=	-1.5264	ZZ=	12.8988
	Eigenvalues:	12.7866	22.2838	37.1261		
51	N	Isotropic =	148.1389	Anisotropy =	57.5130	
	XX=	106.3543	YX=	-40.1982	ZX=	-0.3267
	XY=	-19.7177	YY=	162.4447	ZY=	-5.1567
	XZ=	7.6037	YZ=	31.3135	ZZ=	175.6176
	Eigenvalues:	92.4709	165.4649	186.4808		
52	H	Isotropic =	24.3485	Anisotropy =	19.1149	
	XX=	30.2700	YX=	6.7306	ZX=	0.7342
	XY=	7.3555	YY=	29.6452	ZY=	-0.0184
	XZ=	2.0109	YZ=	1.2570	ZZ=	13.1303
	Eigenvalues:	13.0209	22.9329	37.0918		
53	C	Isotropic =	42.1137	Anisotropy =	103.1256	
	XX=	27.2546	YX=	-8.7764	ZX=	-5.5474
	XY=	-8.0180	YY=	-11.7190	ZY=	3.3650
	XZ=	4.5609	YZ=	1.7449	ZZ=	110.8054
	Eigenvalues:	-13.4977	28.9747	110.8641		
54	C	Isotropic =	43.3399	Anisotropy =	102.2552	

	XX=	106.7831	YX=	-16.1249	ZX=	-8.0450	
	XY=	-20.6273	YY=	-7.0340	ZY=	0.8124	
	XZ=	-16.2167	YZ=	2.0404	ZZ=	30.2708	
	Eigenvalues:	-9.9332	28.4430	111.5101			
55	O	Isotropic =	108.8461	Anisotropy =	268.2230		
	XX=	275.1916	YX=	-46.9501	ZX=	8.3839	
	XY=	-50.8543	YY=	33.0914	ZY=	1.9736	
	XZ=	-63.2662	YZ=	11.9248	ZZ=	18.2552	
	Eigenvalues:	15.0005	23.8764	287.6614			
56	O	Isotropic =	106.9825	Anisotropy =	283.5864		
	XX=	9.0726	YX=	1.0911	ZX=	-28.1246	
	XY=	1.8298	YY=	15.9725	ZY=	10.8830	
	XZ=	36.6075	YZ=	-1.7566	ZZ=	295.9023	
	Eigenvalues:	8.7390	16.1684	296.0401			
57	H	Isotropic =	25.3957	Anisotropy =	15.7407		
	XX=	17.2614	YX=	-2.3860	ZX=	4.8472	
	XY=	-1.1782	YY=	33.0652	ZY=	-5.6439	
	XZ=	3.9775	YZ=	-3.2774	ZZ=	25.8605	
	Eigenvalues:	15.3997	24.8980	35.8895			
58	H	Isotropic =	30.0891	Anisotropy =	7.3960		
	XX=	27.1362	YX=	-0.2958	ZX=	-0.9810	
	XY=	-0.2627	YY=	28.5357	ZY=	0.2621	
	XZ=	-2.5144	YZ=	0.5913	ZZ=	34.5954	
	Eigenvalues:	26.7289	28.5187	35.0198			
59	C	Isotropic =	161.8933	Anisotropy =	32.0137		
	XX=	167.0350	YX=	-4.1537	ZX=	13.9315	
	XY=	-4.6134	YY=	149.2672	ZY=	-2.6995	
	XZ=	14.6083	YZ=	-2.5791	ZZ=	169.3777	
	Eigenvalues:	148.2020	154.2421	183.2358			
60	C	Isotropic =	133.4167	Anisotropy =	20.2245		
	XX=	144.3014	YX=	-4.0864	ZX=	1.8817	
	XY=	-8.8243	YY=	111.0399	ZY=	1.4021	
	XZ=	1.0888	YZ=	-3.5371	ZZ=	144.9087	
	Eigenvalues:	109.8138	143.5365	146.8997			
61	C	Isotropic =	132.5075	Anisotropy =	19.2598		
	XX=	142.1375	YX=	-10.8208	ZX=	1.1942	
	XY=	-6.3126	YY=	111.4855	ZY=	0.6553	
	XZ=	2.5763	YZ=	5.5370	ZZ=	143.8996	
	Eigenvalues:	108.9090	143.2662	145.3474			
62	H	Isotropic =	30.0175	Anisotropy =	7.8328		
	XX=	34.4342	YX=	-1.7175	ZX=	-2.1049	
	XY=	-1.8306	YY=	28.6098	ZY=	0.3592	
	XZ=	-1.0115	YZ=	0.3069	ZZ=	27.0084	
	Eigenvalues:	26.6943	28.1188	35.2393			
63	H	Isotropic =	27.3174	Anisotropy =	9.4011		
	XX=	24.4728	YX=	-2.1358	ZX=	-0.0416	
	XY=	-1.4029	YY=	32.2374	ZY=	2.5004	
	XZ=	0.0305	YZ=	3.2854	ZZ=	25.2421	
	Eigenvalues:	23.5992	24.7683	33.5849			
64	H	Isotropic =	27.4527	Anisotropy =	7.9851		
	XX=	26.3591	YX=	3.5183	ZX=	-0.7256	
	XY=	2.6159	YY=	30.0388	ZY=	-2.2878	
	XZ=	-1.1509	YZ=	-2.6433	ZZ=	25.9602	
	Eigenvalues:	24.3815	25.2005	32.7761			

65 N Isotropic = 148.4378 Anisotropy = 56.3780
 XX= 179.1578 YX= 23.1504 ZX= -7.1402
 XY= -13.6515 YY= 142.8781 ZY= -28.1270
 XZ= -11.2285 YZ= -48.8596 ZZ= 123.2774
 Eigenvalues: 93.1350 166.1552 186.0231

66 N Isotropic = 147.7825 Anisotropy = 62.4105
 XX= 170.6461 YX= -37.8439 ZX= 5.1870
 XY= 1.3306 YY= 154.9392 ZY= 27.8043
 XZ= 5.1293 YZ= 50.6606 ZZ= 117.7622
 Eigenvalues: 90.3958 163.5623 189.3895

67 H Isotropic = 24.1798 Anisotropy = 19.5897
 XX= 13.0730 YX= 0.1394 ZX= 0.8620
 XY= 1.4874 YY= 32.2987 ZY= -7.6118
 XZ= -0.3279 YZ= -6.4738 ZZ= 27.1678
 Eigenvalues: 13.0112 22.2886 37.2396

68 N Isotropic = 146.1511 Anisotropy = 63.0311
 XX= 101.6927 YX= -43.7312 ZX= -5.9608
 XY= -19.5672 YY= 161.2907 ZY= -5.3595
 XZ= 1.9275 YZ= 31.7114 ZZ= 175.4698
 Eigenvalues: 87.8887 162.3927 188.1718

69 H Isotropic = 24.1429 Anisotropy = 18.7700
 XX= 30.1100 YX= 6.3170 ZX= 1.9018
 XY= 7.1921 YY= 28.7346 ZY= 1.3657
 XZ= 3.2430 YZ= 2.4911 ZZ= 13.5839
 Eigenvalues: 13.1308 22.6416 36.6562

70 N Isotropic = 150.4020 Anisotropy = 64.0132
 XX= 149.1241 YX= 54.9299 ZX= -7.3569
 XY= 29.4785 YY= 127.5493 ZY= 12.4526
 XZ= -14.5846 YZ= -31.1446 ZZ= 174.5326
 Eigenvalues: 94.7702 163.3583 193.0775

71 H Isotropic = 25.5201 Anisotropy = 15.7879
 XX= 24.9475 YX= -1.0491 ZX= 3.3615
 XY= -3.0146 YY= 33.0402 ZY= -5.0033
 XZ= 4.4007 YZ= -6.6038 ZZ= 18.5725
 Eigenvalues: 15.5287 24.9862 36.0453

72 C Isotropic = 42.9548 Anisotropy = 102.6525
 XX= 24.8030 YX= -10.5722 ZX= -13.1012
 XY= -9.5225 YY= -5.3937 ZY= 8.6892
 XZ= -5.0618 YZ= 10.5164 ZZ= 109.4551
 Eigenvalues: -8.8069 26.2815 111.3898

73 C Isotropic = 41.8601 Anisotropy = 103.7644
 XX= 106.0749 YX= -22.9938 ZX= 1.0451
 XY= -24.5279 YY= -7.3748 ZY= 1.9804
 XZ= -7.9234 YZ= 3.9495 ZZ= 26.8803
 Eigenvalues: -12.2776 26.8216 111.0364

74 O Isotropic = 111.5501 Anisotropy = 274.3942
 XX= 283.2734 YX= -50.9530 ZX= 30.1504
 XY= -56.9572 YY= 33.1804 ZY= -4.8874
 XZ= -38.0774 YZ= 7.5854 ZZ= 18.1966
 Eigenvalues: 18.0662 22.1046 294.4796

75 O Isotropic = 113.6744 Anisotropy = 258.7396
 XX= 27.1159 YX= -0.9709 ZX= -54.2319
 XY= 3.0523 YY= 29.4976 ZY= 19.0642
 XZ= 18.4851 YZ= 4.2865 ZZ= 284.4097

	Eigenvalues:	25.0223	29.8334	286.1674	
76	H	Isotropic =	24.5577	Anisotropy =	19.1074
		XX=	14.6404	YX=	5.4783
				ZX=	3.1923
		XY=	4.0225	YY=	31.7239
				ZY=	6.2787
		XZ=	2.1293	YZ=	5.9129
				ZZ=	27.3089
	Eigenvalues:	13.3157	23.0614	37.2960	
77	H	Isotropic =	30.2171	Anisotropy =	7.7940
		XX=	34.4485	YX=	-1.6324
				ZX=	2.7480
		XY=	-1.6933	YY=	28.4309
				ZY=	-0.3013
		XZ=	1.3324	YZ=	-0.0628
				ZZ=	27.7717
	Eigenvalues:	27.1194	28.1188	35.4131	
78	C	Isotropic =	161.3276	Anisotropy =	30.9131
		XX=	168.8867	YX=	-4.3288
				ZX=	-13.4103
		XY=	-4.2472	YY=	148.8359
				ZY=	3.4193
		XZ=	-13.5190	YZ=	2.7672
				ZZ=	166.2602
	Eigenvalues:	147.9461	154.1003	181.9363	
79	C	Isotropic =	132.7569	Anisotropy =	19.5506
		XX=	144.0216	YX=	-2.3851
				ZX=	-1.6931
		XY=	-7.4887	YY=	109.6262
				ZY=	-1.5726
		XZ=	-0.2874	YZ=	3.4568
				ZZ=	144.6230
	Eigenvalues:	108.9139	143.5662	145.7906	
80	C	Isotropic =	132.4058	Anisotropy =	18.1411
		XX=	141.4883	YX=	-10.2514
				ZX=	-0.6201
		XY=	-5.1630	YY=	111.8317
				ZY=	1.8430
		XZ=	-1.4670	YZ=	-3.6530
				ZZ=	143.8975
	Eigenvalues:	109.9110	142.8066	144.4999	
81	H	Isotropic =	30.1638	Anisotropy =	8.0576
		XX=	27.2900	YX=	-0.0707
				ZX=	0.9025
		XY=	-0.1916	YY=	27.9043
				ZY=	-0.0976
		XZ=	1.8458	YZ=	-0.3932
				ZZ=	35.2972
	Eigenvalues:	27.0513	27.9046	35.5355	
82	H	Isotropic =	27.4554	Anisotropy =	8.0185
		XX=	25.1677	YX=	-1.5609
				ZX=	0.0974
		XY=	-1.0870	YY=	31.9507
				ZY=	-1.7747
		XZ=	-0.3585	YZ=	-2.6007
				ZZ=	25.2478
	Eigenvalues:	24.2526	25.3126	32.8011	
83	H	Isotropic =	28.0374	Anisotropy =	7.7987
		XX=	27.0269	YX=	3.0786
				ZX=	1.2190
		XY=	2.7080	YY=	30.8690
				ZY=	1.9218
		XZ=	1.1882	YZ=	2.2177
				ZZ=	26.2164
	Eigenvalues:	25.3516	25.5241	33.2366	
84	N	Isotropic =	148.0340	Anisotropy =	59.3702
		XX=	136.8360	YX=	51.6604
				ZX=	0.1503
		XY=	30.7585	YY=	131.1223
				ZY=	-5.0572
		XZ=	6.2253	YZ=	32.1169
				ZZ=	176.1437
	Eigenvalues:	91.9496	164.5383	187.6141	
85	N	Isotropic =	148.1389	Anisotropy =	57.5130
		XX=	106.3543	YX=	-40.1982
				ZX=	0.3267
		XY=	-19.7177	YY=	162.4447
				ZY=	5.1567
		XZ=	-7.6037	YZ=	-31.3135
				ZZ=	175.6176
	Eigenvalues:	92.4709	165.4649	186.4808	
86	H	Isotropic =	24.3485	Anisotropy =	19.1149
		XX=	30.2700	YX=	6.7306
				ZX=	-0.7342
		XY=	7.3555	YY=	29.6452
				ZY=	0.0184

	XZ=	-2.0109	YZ=	-1.2570	ZZ=	13.1303
	Eigenvalues:	13.0209	22.9329	37.0918		
87	N	Isotropic =	150.0519	Anisotropy =	64.2426	
	XX=	168.6279	YX=	-36.3554	ZX=	1.9954
	XY=	6.0465	YY=	152.9037	ZY=	-30.5325
	XZ=	-1.2795	YZ=	-57.5663	ZZ=	128.6239
	Eigenvalues:	93.9878	163.2875	192.8802		
88	H	Isotropic =	25.3957	Anisotropy =	15.7407	
	XX=	17.2614	YX=	-2.3860	ZX=	-4.8472
	XY=	-1.1782	YY=	33.0652	ZY=	5.6439
	XZ=	-3.9775	YZ=	3.2774	ZZ=	25.8605
	Eigenvalues:	15.3997	24.8980	35.8895		
89	N	Isotropic =	146.5642	Anisotropy =	59.6109	
	XX=	177.0722	YX=	21.4138	ZX=	11.6747
	XY=	-14.0672	YY=	143.3027	ZY=	26.6961
	XZ=	15.1863	YZ=	51.4106	ZZ=	119.3175
	Eigenvalues:	89.5936	163.7942	186.3047		
90	H	Isotropic =	24.0409	Anisotropy =	18.9016	
	XX=	14.4016	YX=	4.9811	ZX=	-3.8886
	XY=	3.8148	YY=	31.1912	ZY=	-6.2296
	XZ=	-2.9368	YZ=	-5.6760	ZZ=	26.5299
	Eigenvalues:	13.0019	22.4788	36.6420		
91	C	Isotropic =	43.3399	Anisotropy =	102.2552	
	XX=	106.7831	YX=	-16.1249	ZX=	8.0450
	XY=	-20.6273	YY=	-7.0340	ZY=	-0.8124
	XZ=	16.2167	YZ=	-2.0404	ZZ=	30.2708
	Eigenvalues:	-9.9332	28.4430	111.5101		
92	C	Isotropic =	42.1137	Anisotropy =	103.1256	
	XX=	27.2546	YX=	-8.7764	ZX=	5.5474
	XY=	-8.0180	YY=	-11.7190	ZY=	-3.3650
	XZ=	-4.5609	YZ=	-1.7449	ZZ=	110.8054
	Eigenvalues:	-13.4977	28.9747	110.8641		
93	O	Isotropic =	106.9825	Anisotropy =	283.5864	
	XX=	9.0726	YX=	1.0911	ZX=	28.1246
	XY=	1.8298	YY=	15.9725	ZY=	-10.8830
	XZ=	-36.6075	YZ=	1.7566	ZZ=	295.9023
	Eigenvalues:	8.7390	16.1684	296.0401		
94	O	Isotropic =	108.8461	Anisotropy =	268.2230	
	XX=	275.1916	YX=	-46.9501	ZX=	-8.3839
	XY=	-50.8543	YY=	33.0914	ZY=	-1.9736
	XZ=	63.2662	YZ=	-11.9248	ZZ=	18.2552
	Eigenvalues:	15.0005	23.8764	287.6614		
95	H	Isotropic =	24.0655	Anisotropy =	19.5909	
	XX=	24.2403	YX=	-4.6989	ZX=	-0.6655
	XY=	-5.4318	YY=	35.0574	ZY=	0.3636
	XZ=	-1.4875	YZ=	1.5264	ZZ=	12.8988
	Eigenvalues:	12.7866	22.2838	37.1261		
96	H	Isotropic =	30.0470	Anisotropy =	8.2669	
	XX=	34.9357	YX=	-1.0388	ZX=	-2.5160
	XY=	-1.1038	YY=	27.8475	ZY=	0.2197
	XZ=	-1.4254	YZ=	-0.2155	ZZ=	27.3578
	Eigenvalues:	26.8063	27.7764	35.5582		
97	C	Isotropic =	161.6254	Anisotropy =	26.7314	
	XX=	167.6179	YX=	-1.6056	ZX=	11.1907

	XY=	-1.8055	YY=	150.3101	ZY=	-4.5296
	XZ=	11.8891	YZ=	-4.1119	ZZ=	166.9483
	Eigenvalues:	149.1517	156.2783	179.4464		
98	C	Isotropic =	132.1854	Anisotropy =	18.9389	
	XX=	142.8616	YX=	-2.6494	ZX=	1.2343
	XY=	-8.3305	YY=	109.9078	ZY=	1.0705
	XZ=	0.1738	YZ=	-4.8462	ZZ=	143.7868
	Eigenvalues:	108.9293	142.8156	144.8114		
99	C	Isotropic =	131.3838	Anisotropy =	19.4443	
	XX=	140.6856	YX=	-9.1312	ZX=	1.4960
	XY=	-4.0368	YY=	111.3235	ZY=	-3.0451
	XZ=	2.9361	YZ=	2.4642	ZZ=	142.1422
	Eigenvalues:	109.9137	139.8909	144.3466		
100	H	Isotropic =	30.0748	Anisotropy =	8.3429	
	XX=	27.4798	YX=	0.4544	ZX=	-1.3882
	XY=	0.2179	YY=	27.5810	ZY=	-0.2688
	XZ=	-2.5127	YZ=	-0.0355	ZZ=	35.1636
	Eigenvalues:	26.8892	27.6985	35.6367		
101	H	Isotropic =	27.9865	Anisotropy =	7.4520	
	XX=	25.5037	YX=	-0.5375	ZX=	-0.5394
	XY=	-0.5487	YY=	32.3475	ZY=	1.8917
	XZ=	-0.4296	YZ=	1.9706	ZZ=	26.1084
	Eigenvalues:	25.1814	25.8237	32.9545		
102	H	Isotropic =	27.7303	Anisotropy =	7.9720	
	XX=	27.6378	YX=	3.5524	ZX=	-1.5119
	XY=	3.0301	YY=	29.1539	ZY=	-2.2469
	XZ=	-1.6177	YZ=	-2.6866	ZZ=	26.3993
	Eigenvalues:	24.7819	25.3641	33.0449		
103	N	Isotropic =	147.0721	Anisotropy =	55.1357	
	XX=	139.6579	YX=	55.5659	ZX=	6.6536
	XY=	29.4925	YY=	129.2329	ZY=	2.0842
	XZ=	-2.1026	YZ=	-31.3984	ZZ=	172.3256
	Eigenvalues:	89.6949	167.6923	183.8293		
104	N	Isotropic =	145.3835	Anisotropy =	60.8235	
	XX=	99.7326	YX=	-43.8771	ZX=	-3.8359
	XY=	-18.4659	YY=	159.9294	ZY=	-5.3242
	XZ=	6.7007	YZ=	29.9201	ZZ=	176.4886
	Eigenvalues:	86.0790	164.1390	185.9325		
105	H	Isotropic =	23.7926	Anisotropy =	19.4566	
	XX=	29.3498	YX=	7.0637	ZX=	1.0472
	XY=	7.6758	YY=	29.2534	ZY=	0.1971
	XZ=	2.2480	YZ=	0.7016	ZZ=	12.7747
	Eigenvalues:	12.6069	22.0073	36.7637		
106	N	Isotropic =	145.6124	Anisotropy =	61.7987	
	XX=	170.5029	YX=	-35.9949	ZX=	4.6342
	XY=	1.2949	YY=	151.7612	ZY=	27.0725
	XZ=	6.4310	YZ=	53.0357	ZZ=	114.5730
	Eigenvalues:	86.6288	163.3968	186.8115		
107	H	Isotropic =	23.5569	Anisotropy =	20.3394	
	XX=	12.7325	YX=	2.5219	ZX=	0.6255
	XY=	3.2700	YY=	32.0233	ZY=	-7.7514
	XZ=	-0.2783	YZ=	-6.8768	ZZ=	25.9150
	Eigenvalues:	12.1708	21.3834	37.1166		
108	N	Isotropic =	147.6027	Anisotropy =	54.2502	

	XX=	176.6182	YX=	23.6295	ZX=	-2.0252
	XY=	-9.8162	YY=	144.1774	ZY=	-27.7715
	XZ=	-5.4358	YZ=	-53.7713	ZZ=	122.0125
	Eigenvalues:	90.8263	168.2123	183.7695		
109	H	Isotropic =	24.9050	Anisotropy =	15.0771	
	XX=	15.6856	YX=	0.9699	ZX=	0.8185
	XY=	-0.5932	YY=	31.4498	ZY=	6.0364
	XZ=	0.2350	YZ=	4.1127	ZZ=	27.5796
	Eigenvalues:	15.6622	24.0964	34.9564		
110	C	Isotropic =	41.2857	Anisotropy =	103.2870	
	XX=	106.1610	YX=	-19.9908	ZX=	4.0868
	XY=	-23.4398	YY=	-9.9717	ZY=	1.5229
	XZ=	-7.6698	YZ=	2.6168	ZZ=	27.6679
	Eigenvalues:	-13.9703	27.6838	110.1437		
111	C	Isotropic =	41.0695	Anisotropy =	103.9982	
	XX=	23.8298	YX=	-8.7727	ZX=	-7.7592
	XY=	-9.9515	YY=	-10.9275	ZY=	0.1452
	XZ=	3.8928	YZ=	-5.5785	ZZ=	110.3062
	Eigenvalues:	-13.3669	26.1738	110.4016		
112	O	Isotropic =	99.6019	Anisotropy =	276.0413	
	XX=	3.3594	YX=	4.7758	ZX=	-29.4179
	XY=	3.2553	YY=	11.8718	ZY=	13.5468
	XZ=	22.5823	YZ=	-9.6452	ZZ=	283.5744
	Eigenvalues:	1.7102	13.4660	283.6294		
113	O	Isotropic =	97.2042	Anisotropy =	281.6395	
	XX=	272.8841	YX=	-49.2852	ZX=	21.7183
	XY=	-62.6773	YY=	21.9073	ZY=	-6.5937
	XZ=	-36.1454	YZ=	3.8815	ZZ=	-3.1786
	Eigenvalues:	-3.9131	10.5620	284.9639		
114	H	Isotropic =	24.8645	Anisotropy =	15.0363	
	XX=	25.6543	YX=	-2.9743	ZX=	0.0895
	XY=	-4.9486	YY=	32.7409	ZY=	3.7293
	XZ=	0.0642	YZ=	2.1270	ZZ=	16.1985
	Eigenvalues:	15.6346	24.0702	34.8887		
115	C	Isotropic =	65.1561	Anisotropy =	126.0875	
	XX=	102.7067	YX=	-49.3099	ZX=	-8.6504
	XY=	-47.0411	YY=	62.8914	ZY=	53.6315
	XZ=	-10.0234	YZ=	57.8415	ZZ=	29.8702
	Eigenvalues:	-16.1847	62.4386	149.2144		
116	C	Isotropic =	62.0648	Anisotropy =	152.6754	
	XX=	79.7222	YX=	-79.5710	ZX=	-35.3881
	XY=	-69.0788	YY=	62.4805	ZY=	32.8698
	XZ=	-42.2197	YZ=	19.2316	ZZ=	43.9917
	Eigenvalues:	-4.8875	27.2335	163.8485		
117	C	Isotropic =	42.5346	Anisotropy =	95.2229	
	XX=	59.5912	YX=	-29.0395	ZX=	-47.9885
	XY=	-23.7985	YY=	73.5624	ZY=	8.3674
	XZ=	-41.6524	YZ=	9.6054	ZZ=	-5.5500
	Eigenvalues:	-28.5511	50.1383	106.0165		
118	C	Isotropic =	74.9658	Anisotropy =	130.9378	
	XX=	104.9210	YX=	-58.5779	ZX=	-13.2413
	XY=	-51.6960	YY=	81.9948	ZY=	40.1984
	XZ=	-17.0965	YZ=	45.1026	ZZ=	37.9815
	Eigenvalues:	8.2630	54.3766	162.2577		

119 C Isotropic = 42.0999 Anisotropy = 97.0281
XX= 45.4977 YX= -65.6673 ZX= -16.0832
XY= -64.8797 YY= 26.5999 ZY= 2.4957
XZ= -20.7808 YZ= 3.0435 ZZ= 54.2022
Eigenvalues: -31.0963 50.6108 106.7854

120 C Isotropic = 61.1818 Anisotropy = 151.7790
XX= 89.5552 YX= -52.7894 ZX= -50.5405
XY= -64.2630 YY= 74.6471 ZY= 18.4590
XZ= -50.0016 YZ= 33.4828 ZZ= 19.3432
Eigenvalues: -7.2001 28.3778 162.3678

121 C Isotropic = 62.5296 Anisotropy = 153.7000
XX= 66.5899 YX= -34.8934 ZX= 82.9051
XY= -18.3036 YY= 31.3006 ZY= -23.4596
XZ= 76.3261 YZ= -7.7179 ZZ= 89.6983
Eigenvalues: -5.4223 28.0147 164.9963

122 C Isotropic = 62.5010 Anisotropy = 131.0571
XX= 91.6746 YX= -38.8559 ZX= 41.5316
XY= -35.5432 YY= -8.1997 ZY= -20.1043
XZ= 40.3266 YZ= -23.3020 ZZ= 104.0282
Eigenvalues: -21.0822 58.7127 149.8724

123 C Isotropic = 62.8259 Anisotropy = 153.4143
XX= 86.5027 YX= -4.8419 ZX= 72.8384
XY= -19.5699 YY= 24.5453 ZY= -25.4320
XZ= 78.1088 YZ= -42.9465 ZZ= 77.4297
Eigenvalues: -5.2964 28.6720 165.1021

124 C Isotropic = 41.3883 Anisotropy = 96.3946
XX= 35.3885 YX= -35.1490 ZX= 56.0293
XY= -29.1971 YY= 40.2031 ZY= 5.1106
XZ= 61.3219 YZ= 8.1401 ZZ= 48.5732
Eigenvalues: -29.0712 47.5846 105.6513

125 C Isotropic = 74.2387 Anisotropy = 131.2398
XX= 97.2202 YX= -29.8477 ZX= 49.7282
XY= -30.2579 YY= 17.5007 ZY= -21.7318
XZ= 49.6667 YZ= -21.6819 ZZ= 107.9953
Eigenvalues: 7.1185 53.8657 161.7319

126 C Isotropic = 41.2940 Anisotropy = 96.7713
XX= 54.3125 YX= 15.2680 ZX= 50.4049
XY= 11.6291 YY= 18.3247 ZY= -38.5317
XZ= 45.5382 YZ= -44.1160 ZZ= 51.2449
Eigenvalues: -29.2551 47.3290 105.8082

127 C Isotropic = 75.9951 Anisotropy = 130.3573
XX= 54.1189 YX= 51.6115 ZX= -13.0892
XY= 45.2759 YY= 136.3979 ZY= 26.9425
XZ= -11.1727 YZ= 33.3205 ZZ= 37.4686
Eigenvalues: 9.2362 55.8492 162.9000

128 C Isotropic = 42.2216 Anisotropy = 94.9645
XX= 51.5254 YX= 17.7379 ZX= 27.7442
XY= 14.5945 YY= 94.4264 ZY= 19.2716
XZ= 22.4131 YZ= 18.9717 ZZ= -19.2871
Eigenvalues: -28.7710 49.9044 105.5312

129 C Isotropic = 61.8068 Anisotropy = 152.5349
XX= 25.2521 YX= 64.0283 ZX= 15.5701
XY= 54.3293 YY= 129.2041 ZY= 30.6786
XZ= 28.2533 YZ= 18.5722 ZZ= 30.9642

Eigenvalues: -4.7855 26.7091 163.4967
 130 C Isotropic = 63.7200 Anisotropy = 129.2133
 XX= 45.8627 YX= 54.0662 ZX= -24.3764
 XY= 50.6533 YY= 117.3625 ZY= 37.2095
 XZ= -24.0255 YZ= 40.5965 ZZ= 27.9347
 Eigenvalues: -18.2588 59.5565 149.8622
 131 C Isotropic = 61.5844 Anisotropy = 153.2047
 XX= 49.0443 YX= 46.4350 ZX= 29.1247
 XY= 55.4389 YY= 131.6895 ZY= 21.3257
 XZ= 16.9610 YZ= 34.5884 ZZ= 4.0194
 Eigenvalues: -6.1000 27.1324 163.7209
 132 C Isotropic = 41.9773 Anisotropy = 95.9046
 XX= -4.7467 YX= 46.5793 ZX= 18.3244
 XY= 47.6394 YY= 83.8504 ZY= 0.4796
 XZ= 25.1094 YZ= 2.0157 ZZ= 46.8280
 Eigenvalues: -30.0732 50.0913 105.9137
 133 C Isotropic = 42.4112 Anisotropy = 95.9156
 XX= -3.8349 YX= 14.3085 ZX= -46.6164
 XY= 11.2872 YY= 59.1194 ZY= -15.0060
 XZ= -54.1659 YZ= -18.8858 ZZ= 71.9490
 Eigenvalues: -29.1687 50.0473 106.3549
 134 C Isotropic = 62.0884 Anisotropy = 152.8635
 XX= 49.9487 YX= 5.2869 ZX= -56.2684
 XY= 20.1219 YY= 25.5134 ZY= -48.1468
 XZ= -54.6308 YZ= -59.4332 ZZ= 110.8033
 Eigenvalues: -5.2811 27.5490 163.9975
 135 C Isotropic = 64.8843 Anisotropy = 126.2637
 XX= 51.0707 YX= 52.4301 ZX= -28.4131
 XY= 48.9370 YY= 22.1148 ZY= -29.2462
 XZ= -26.3946 YZ= -32.0143 ZZ= 121.4674
 Eigenvalues: -16.6330 62.2258 149.0601
 136 C Isotropic = 61.2066 Anisotropy = 151.1178
 XX= 26.1234 YX= 26.6085 ZX= -65.6610
 XY= 11.5067 YY= 43.5547 ZY= -43.2479
 XZ= -60.5987 YZ= -31.9976 ZZ= 113.9417
 Eigenvalues: -6.8734 28.5414 161.9518
 137 C Isotropic = 42.0449 Anisotropy = 96.6865
 XX= 50.8782 YX= -12.9550 ZX= -31.5813
 XY= -12.4429 YY= 2.7011 ZY= -48.7298
 XZ= -27.3994 YZ= -50.7066 ZZ= 72.5552
 Eigenvalues: -30.9905 50.6225 106.5025
 138 C Isotropic = 74.8693 Anisotropy = 131.0618
 XX= 53.8060 YX= 40.7375 ZX= -34.0506
 XY= 37.4727 YY= 43.0099 ZY= -35.5040
 XZ= -30.7943 YZ= -43.1472 ZZ= 127.7918
 Eigenvalues: 8.1399 54.2241 162.2438
 139 C Isotropic = 156.1850 Anisotropy = 12.9896
 XX= 164.6248 YX= 0.8000 ZX= 0.0666
 XY= 0.1584 YY= 161.3894 ZY= -9.6662
 XZ= -2.5607 YZ= 2.9759 ZZ= 142.5409
 Eigenvalues: 141.9068 161.8035 164.8448
 140 C Isotropic = 155.9048 Anisotropy = 12.8845
 XX= 145.2979 YX= -12.4896 ZX= 6.7090
 XY= -2.7319 YY= 158.8412 ZY= 2.1979

XZ= 0.8780 YZ= 2.1474 ZZ= 163.5752
 Eigenvalues: 141.0421 162.1777 164.4944
 141 C Isotropic = 156.2676 Anisotropy = 12.4244
 XX= 164.4700 YX= 0.6043 ZX= -0.9414
 XY= 1.1054 YY= 154.5346 ZY= -4.3563
 XZ= 2.1769 YZ= -14.9003 ZZ= 149.7983
 Eigenvalues: 142.2050 162.0473 164.5506
 142 C Isotropic = 155.8452 Anisotropy = 13.1005
 XX= 140.9147 YX= 4.8547 ZX= -2.2378
 XY= -5.0863 YY= 162.5458 ZY= 1.2577
 XZ= 2.2352 YZ= 0.7659 ZZ= 164.0752
 Eigenvalues: 140.9141 162.0427 164.5789
 143 O Isotropic = 189.1599 Anisotropy = 143.5725
 XX= 169.2079 YX= -35.4809 ZX= -39.2182
 XY= -56.9575 YY= 170.9229 ZY= 56.2614
 XZ= -15.6953 YZ= 61.3730 ZZ= 227.3490
 Eigenvalues: 117.3636 165.2412 284.8749
 144 O Isotropic = 186.3435 Anisotropy = 143.2516
 XX= 253.1358 YX= -14.0542 ZX= -53.7303
 XY= -7.6156 YY= 167.0744 ZY= 26.5666
 XZ= -71.2518 YZ= -18.0725 ZZ= 138.8204
 Eigenvalues: 111.2854 165.9006 281.8446
 145 O Isotropic = 190.5531 Anisotropy = 120.1996
 XX= 263.8493 YX= 11.3873 ZX= 28.8560
 XY= 6.6066 YY= 128.8297 ZY= -34.1792
 XZ= 20.9583 YZ= -8.9376 ZZ= 178.9804
 Eigenvalues: 118.7358 182.2374 270.6862
 146 O Isotropic = 190.5245 Anisotropy = 121.7121
 XX= 168.1939 YX= -9.9858 ZX= 30.9856
 XY= -34.1718 YY= 149.9301 ZY= 30.8938
 XZ= 44.0851 YZ= 31.5287 ZZ= 253.4494
 Eigenvalues: 118.5590 181.3485 271.6659
 147 O Isotropic = 189.8282 Anisotropy = 139.6033
 XX= 135.3647 YX= 26.9296 ZX= 20.8176
 XY= 47.4869 YY= 215.2204 ZY= 59.2230
 XZ= -1.3144 YZ= 57.3986 ZZ= 218.8995
 Eigenvalues: 118.5668 168.0207 282.8971
 148 O Isotropic = 190.2185 Anisotropy = 139.8592
 XX= 243.9510 YX= 51.9908 ZX= -7.4301
 XY= 59.0052 YY= 203.1832 ZY= 29.6116
 XZ= 10.0243 YZ= 5.2050 ZZ= 123.5211
 Eigenvalues: 118.7699 168.4275 283.4579
 149 O Isotropic = 189.3976 Anisotropy = 143.3257
 XX= 244.6135 YX= 36.9092 ZX= -39.6073
 XY= 26.9539 YY= 134.2250 ZY= -45.5419
 XZ= -55.6695 YZ= -19.5097 ZZ= 189.3543
 Eigenvalues: 118.2568 164.9880 284.9481
 150 O Isotropic = 186.9439 Anisotropy = 142.7615
 XX= 135.0586 YX= -25.4617 ZX= -59.9053
 XY= 21.1248 YY= 170.5568 ZY= 26.0618
 XZ= -54.2196 YZ= 18.3390 ZZ= 255.2163
 Eigenvalues: 111.5909 167.1225 282.1182
 151 C Isotropic = 49.4963 Anisotropy = 135.8777
 XX= 130.0187 YX= 35.9364 ZX= -17.5532

	XY=	42.0556	YY=	-35.3038	ZY=	26.7168
	XZ=	-11.6494	YZ=	6.9488	ZZ=	53.7741
	Eigenvalues:	-47.8499	56.2575	140.0815		
152	C	Isotropic =	49.9599	Anisotropy =	134.4942	
	XX=	129.5226	YX=	34.6484	ZX=	-18.8454
	XY=	34.6544	YY=	4.4874	ZY=	37.1924
	XZ=	-26.5754	YZ=	49.8925	ZZ=	15.8697
	Eigenvalues:	-43.4813	53.7383	139.6227		
153	N	Isotropic =	-54.1085	Anisotropy =	474.2049	
	XX=	221.2904	YX=	145.4126	ZX=	-66.7309
	XY=	131.0232	YY=	-283.3881	ZY=	62.2577
	XZ=	-52.2625	YZ=	51.2714	ZZ=	-100.2278
	Eigenvalues:	-339.3769	-84.9768	262.0281		
154	C	Isotropic =	38.3722	Anisotropy =	95.9357	
	XX=	94.3661	YX=	33.7994	ZX=	0.4925
	XY=	23.4157	YY=	-15.4356	ZY=	-37.4187
	XZ=	-5.0738	YZ=	-8.7911	ZZ=	36.1861
	Eigenvalues:	-29.7627	42.5500	102.3293		
155	C	Isotropic =	37.7549	Anisotropy =	97.1625	
	XX=	93.9299	YX=	20.7595	ZX=	-28.6303
	XY=	19.0263	YY=	37.6209	ZY=	34.3929
	XZ=	-17.3549	YZ=	5.0056	ZZ=	-18.2861
	Eigenvalues:	-30.8778	41.6126	102.5299		
156	N	Isotropic =	-56.9030	Anisotropy =	477.8121	
	XX=	220.3835	YX=	143.0703	ZX=	-79.2812
	XY=	120.3592	YY=	-236.0163	ZY=	97.1710
	XZ=	-75.1418	YZ=	106.0621	ZZ=	-155.0761
	Eigenvalues:	-345.9369	-86.4104	261.6385		
157	N	Isotropic =	-54.2843	Anisotropy =	474.7054	
	XX=	-86.8211	YX=	13.7771	ZX=	-14.1148
	XY=	21.6862	YY=	-220.0599	ZY=	229.7308
	XZ=	-26.6067	YZ=	246.9027	ZZ=	144.0283
	Eigenvalues:	-340.3584	-84.6804	262.1860		
158	C	Isotropic =	49.7370	Anisotropy =	134.3832	
	XX=	31.5388	YX=	41.7856	ZX=	-23.8498
	XY=	31.1213	YY=	7.8040	ZY=	63.3812
	XZ=	-14.4898	YZ=	61.0263	ZZ=	109.8683
	Eigenvalues:	-44.0338	53.9190	139.3258		
159	C	Isotropic =	49.6838	Anisotropy =	135.7745	
	XX=	56.8791	YX=	-10.3440	ZX=	2.0564
	XY=	7.2157	YY=	-15.4289	ZY=	72.7859
	XZ=	-8.0941	YZ=	69.3030	ZZ=	107.6012
	Eigenvalues:	-47.8897	56.7409	140.2001		
160	N	Isotropic =	-56.6271	Anisotropy =	477.1083	
	XX=	-121.0834	YX=	78.8639	ZX=	-52.9712
	XY=	69.7744	YY=	-197.1703	ZY=	215.4305
	XZ=	-49.8078	YZ=	238.8545	ZZ=	148.3724
	Eigenvalues:	-345.4568	-85.8696	261.4451		
161	C	Isotropic =	37.9717	Anisotropy =	96.9328	
	XX=	-9.0469	YX=	13.6104	ZX=	-11.3307
	XY=	39.7767	YY=	39.3534	ZY=	31.6321
	XZ=	-27.6563	YZ=	37.2182	ZZ=	83.6087
	Eigenvalues:	-30.3023	41.6239	102.5936		
162	C	Isotropic =	38.2140	Anisotropy =	96.3491	

	XX=	24.4883	YX=	-15.2478	ZX=	5.6199
	XY=	-41.5249	YY=	11.8444	ZY=	43.1460
	XZ=	18.4823	YZ=	50.1972	ZZ=	78.3092
	Eigenvalues:	-29.6873	41.8825	102.4467		
163	N	Isotropic =	-45.8561	Anisotropy =	470.3946	
	XX=	188.5192	YX=	112.5208	ZX=	-107.1507
	XY=	161.6462	YY=	-279.9030	ZY=	25.6847
	XZ=	-140.6376	YZ=	16.8021	ZZ=	-46.1845
	Eigenvalues:	-327.9173	-77.3912	267.7403		
164	C	Isotropic =	39.2760	Anisotropy =	97.9365	
	XX=	98.5393	YX=	3.3621	ZX=	-8.0779
	XY=	19.0081	YY=	-17.8884	ZY=	-45.1365
	XZ=	-22.3614	YZ=	-6.9228	ZZ=	37.1772
	Eigenvalues:	-28.4302	41.6913	104.5671		
165	C	Isotropic =	38.4799	Anisotropy =	96.5537	
	XX=	91.4581	YX=	14.5573	ZX=	-36.4158
	XY=	20.1193	YY=	35.5620	ZY=	34.6780
	XZ=	-28.7407	YZ=	5.5307	ZZ=	-11.5804
	Eigenvalues:	-30.0258	42.6164	102.8490		
166	N	Isotropic =	-57.2289	Anisotropy =	477.2527	
	XX=	192.1431	YX=	144.6305	ZX=	-128.7980
	XY=	118.3042	YY=	-249.9276	ZY=	82.5786
	XZ=	-138.2853	YZ=	81.2808	ZZ=	-113.9021
	Eigenvalues:	-347.3537	-85.2724	260.9396		
167	C	Isotropic =	50.6868	Anisotropy =	134.4348	
	XX=	119.0413	YX=	44.4966	ZX=	-31.8922
	XY=	38.9565	YY=	-32.8844	ZY=	18.5098
	XZ=	-28.7729	YZ=	-6.1643	ZZ=	65.9035
	Eigenvalues:	-45.3015	57.0519	140.3100		
168	C	Isotropic =	50.4828	Anisotropy =	134.2493	
	XX=	106.6563	YX=	51.2833	ZX=	-45.5082
	XY=	44.4466	YY=	5.0810	ZY=	24.7356
	XZ=	-54.3341	YZ=	36.5334	ZZ=	39.7110
	Eigenvalues:	-43.0566	54.5226	139.9824		
169	N	Isotropic =	-46.9632	Anisotropy =	470.8809	
	XX=	-59.5575	YX=	-42.6190	ZX=	-78.8726
	XY=	-26.5112	YY=	-183.3171	ZY=	277.1619
	XZ=	-62.0720	YZ=	225.1645	ZZ=	101.9852
	Eigenvalues:	-329.6324	-78.2145	266.9575		
170	C	Isotropic =	39.2218	Anisotropy =	98.0219	
	XX=	22.8684	YX=	-18.4196	ZX=	-9.2177
	XY=	-51.5547	YY=	7.8610	ZY=	47.7261
	XZ=	9.8042	YZ=	28.4475	ZZ=	86.9360
	Eigenvalues:	-28.6063	41.7020	104.5697		
171	C	Isotropic =	38.4740	Anisotropy =	96.3127	
	XX=	-4.2472	YX=	10.0579	ZX=	-21.2847
	XY=	37.1159	YY=	38.6381	ZY=	36.9489
	XZ=	-35.6473	YZ=	33.1629	ZZ=	81.0310
	Eigenvalues:	-29.9846	42.7241	102.6824		
172	N	Isotropic =	-56.8696	Anisotropy =	476.6778	
	XX=	-98.1861	YX=	35.2930	ZX=	-100.6784
	XY=	36.5023	YY=	-181.3283	ZY=	236.0192
	XZ=	-86.8375	YZ=	255.7672	ZZ=	108.9056
	Eigenvalues:	-346.6870	-84.8374	260.9156		

173 C Isotropic = 50.6126 Anisotropy = 134.6876
XX= 61.3872 YX= -26.6845 ZX= -9.7380
XY= -4.3033 YY= -0.6363 ZY= 73.7581
XZ= -18.5893 YZ= 81.3803 ZZ= 91.0871
Eigenvalues: -45.2842 56.7178 140.4043

174 C Isotropic = 50.3152 Anisotropy = 134.6666
XX= 45.4338 YX= 20.9090 ZX= -45.1435
XY= 11.4135 YY= 25.0821 ZY= 74.1578
XZ= -32.3794 YZ= 79.3007 ZZ= 80.4296
Eigenvalues: -43.4581 54.3107 140.0929

175 C Isotropic = 34.8090 Anisotropy = 81.8639
XX= 82.3550 YX= 22.2495 ZX= -18.7748
XY= 21.3901 YY= 15.6848 ZY= 41.7531
XZ= -21.2986 YZ= 57.7511 ZZ= 6.3873
Eigenvalues: -45.7332 60.7753 89.3850

176 C Isotropic = 30.6091 Anisotropy = 97.5870
XX= 88.4296 YX= 28.5795 ZX= -9.7435
XY= 28.6505 YY= -33.2185 ZY= 14.9197
XZ= -9.1913 YZ= 5.7197 ZZ= 36.6162
Eigenvalues: -41.5073 37.6675 95.6671

177 C Isotropic = 30.7094 Anisotropy = 97.5748
XX= 37.7890 YX= -8.5724 ZX= 0.6357
XY= 0.7033 YY= -17.9513 ZY= 51.4323
XZ= -2.0441 YZ= 51.6498 ZZ= 72.2905
Eigenvalues: -41.4681 37.8370 95.7592

178 C Isotropic = 34.3308 Anisotropy = 83.0802
XX= 24.6116 YX= 51.6321 ZX= -24.8880
XY= 36.5895 YY= 7.4651 ZY= 39.3202
XZ= -19.0634 YZ= 39.2905 ZZ= 70.9157
Eigenvalues: -45.8047 59.0795 89.7176

179 C Isotropic = 35.7387 Anisotropy = 82.1765
XX= 65.4070 YX= 36.4544 ZX= -38.4689
XY= 29.4538 YY= 15.1250 ZY= 35.6173
XZ= -40.0405 YZ= 49.5085 ZZ= 26.6841
Eigenvalues: -45.3290 62.0221 90.5231

180 C Isotropic = 30.8939 Anisotropy = 95.2522
XX= 75.2799 YX= 25.2284 ZX= -24.7125
XY= 31.9058 YY= -33.2072 ZY= 5.7520
XZ= -23.5608 YZ= -0.8442 ZZ= 50.6090
Eigenvalues: -41.0344 39.3206 94.3953

181 C Isotropic = 35.3905 Anisotropy = 82.9317
XX= 39.0942 YX= 36.9286 ZX= -40.1521
XY= 24.0568 YY= 17.6503 ZY= 48.0862
XZ= -33.8667 YZ= 52.5354 ZZ= 49.4271
Eigenvalues: -45.1764 60.6697 90.6783

182 C Isotropic = 31.0393 Anisotropy = 94.9890
XX= 45.8473 YX= -19.2013 ZX= -9.7311
XY= -12.5505 YY= -9.5235 ZY= 57.8941
XZ= -13.3342 YZ= 51.8190 ZZ= 56.7941
Eigenvalues: -41.2514 40.0041 94.3653

183 O Isotropic = -142.9333 Anisotropy = 770.6682
XX= 236.3814 YX= 22.9916 ZX= -270.9574
XY= 26.0514 YY= -385.6826 ZY= -214.6665
XZ= -275.6706 YZ= -219.6737 ZZ= -279.4987

Eigenvalues: -587.4839 -212.1615 370.8455
 184 O Isotropic = -83.4660 Anisotropy = 675.9819
 XX= 179.9668 YX= 68.0941 ZX= -328.7595
 XY= 69.1624 YY= -139.8068 ZY= -96.1978
 XZ= -322.5341 YZ= -84.6135 ZZ= -290.5580
 Eigenvalues: -464.8086 -152.7779 367.1886
 185 O Isotropic = -134.1912 Anisotropy = 756.2705
 XX= -455.3811 YX= -163.0514 ZX= 52.0152
 XY= -158.6548 YY= -199.9095 ZY= 257.7067
 XZ= 52.8196 YZ= 258.1599 ZZ= 252.7171
 Eigenvalues: -568.1947 -204.3679 369.9891
 186 N Isotropic = 88.7035 Anisotropy = 103.6433
 XX= 62.8231 YX= 9.5283 ZX= -6.9242
 XY= 6.2455 YY= 63.8309 ZY= 40.1349
 XZ= -6.8779 YZ= 42.6153 ZZ= 139.4565
 Eigenvalues: 40.9937 67.3178 157.7991
 187 O Isotropic = -82.6022 Anisotropy = 671.7886
 XX= -457.2549 YX= 10.9952 ZX= -37.5588
 XY= 0.8112 YY= -63.6325 ZY= 197.1655
 XZ= -35.3345 YZ= 197.4990 ZZ= 273.0807
 Eigenvalues: -459.7876 -153.2759 365.2568
 188 O Isotropic = -137.9553 Anisotropy = 761.3251
 XX= 334.8147 YX= 138.2357 ZX= -41.5685
 XY= 137.8340 YY= -363.8817 ZY= -193.9845
 XZ= -41.9583 YZ= -197.6683 ZZ= -384.7991
 Eigenvalues: -575.2611 -208.1996 369.5947
 189 O Isotropic = -80.9428 Anisotropy = 669.3700
 XX= 332.7108 YX= 100.7254 ZX= -88.7750
 XY= 99.9564 YY= -135.8123 ZY= -62.3946
 XZ= -88.0490 YZ= -52.4372 ZZ= -439.7269
 Eigenvalues: -456.5537 -151.5786 365.3039
 190 O Isotropic = -139.9314 Anisotropy = 767.3270
 XX= -411.7741 YX= -256.2667 ZX= -152.2171
 XY= -250.6581 YY= -206.8955 ZY= 220.4670
 XZ= -149.3407 YZ= 216.2330 ZZ= 198.8755
 Eigenvalues: -582.7285 -208.6855 371.6200
 191 O Isotropic = -86.6867 Anisotropy = 681.3161
 XX= -369.8426 YX= -93.6219 ZX= -246.7676
 XY= -107.0130 YY= -31.9111 ZY= 200.9121
 XZ= -250.5372 YZ= 199.5088 ZZ= 141.6936
 Eigenvalues: -471.6302 -155.9540 367.5240
 192 H Isotropic = 24.9405 Anisotropy = 8.2717
 XX= 25.9405 YX= 2.5024 ZX= 3.3007
 XY= 3.6020 YY= 23.4785 ZY= 1.4103
 XZ= 2.6299 YZ= 2.3912 ZZ= 25.4026
 Eigenvalues: 21.4151 22.9515 30.4550
 193 H Isotropic = 23.9207 Anisotropy = 7.4630
 XX= 23.1704 YX= 2.6479 ZX= 3.3961
 XY= 3.3065 YY= 23.8608 ZY= 0.2563
 XZ= 4.6776 YZ= -0.1652 ZZ= 24.7307
 Eigenvalues: 18.7483 24.1178 28.8960
 194 H Isotropic = 24.9287 Anisotropy = 8.9545
 XX= 26.2487 YX= -0.7938 ZX= -4.4615
 XY= 0.4574 YY= 22.4715 ZY= 2.3506

	XZ=	-4.6009	YZ=	1.0680	ZZ=	26.0659	
	Eigenvalues:	20.8077	23.0800	30.8984			
195	H	Isotropic =	24.3773	Anisotropy =	7.4822		
	XX=	24.4089	YX=	-0.0767	ZX=	-5.0016	
	XY=	-1.1280	YY=	24.1741	ZY=	0.0595	
	XZ=	-4.5109	YZ=	1.0580	ZZ=	24.5489	
	Eigenvalues:	19.7218	24.0446	29.3654			
196	H	Isotropic =	23.9456	Anisotropy =	7.6642		
	XX=	25.0039	YX=	-2.9967	ZX=	-3.2276	
	XY=	-2.4997	YY=	20.7826	ZY=	-0.6607	
	XZ=	-3.4669	YZ=	-1.4049	ZZ=	26.0502	
	Eigenvalues:	18.5588	24.2229	29.0550			
197	H	Isotropic =	24.8728	Anisotropy =	8.7524		
	XX=	26.5136	YX=	-0.5927	ZX=	-3.9909	
	XY=	-1.6654	YY=	21.3455	ZY=	0.4184	
	XZ=	-3.6939	YZ=	1.4526	ZZ=	26.7593	
	Eigenvalues:	21.1038	22.8068	30.7078			
198	H	Isotropic =	24.9377	Anisotropy =	8.3789		
	XX=	26.4488	YX=	2.5823	ZX=	2.8453	
	XY=	1.7720	YY=	23.8367	ZY=	3.4384	
	XZ=	3.4833	YZ=	2.0230	ZZ=	24.5278	
	Eigenvalues:	21.3455	22.9440	30.5237			
199	H	Isotropic =	23.8875	Anisotropy =	7.4513		
	XX=	25.0930	YX=	0.8854	ZX=	5.0903	
	XY=	0.9362	YY=	24.7979	ZY=	1.8314	
	XZ=	3.6455	YZ=	1.6104	ZZ=	21.7716	
	Eigenvalues:	18.6213	24.1862	28.8550			
200	H	Isotropic =	26.9797	Anisotropy =	3.5669		
	XX=	24.6201	YX=	-0.7685	ZX=	0.2786	
	XY=	-0.5022	YY=	27.2039	ZY=	1.1571	
	XZ=	0.6166	YZ=	0.2500	ZZ=	29.1152	
	Eigenvalues:	24.3954	27.1862	29.3577			
201	H	Isotropic =	28.9167	Anisotropy =	6.6700		
	XX=	27.5069	YX=	-1.1548	ZX=	1.0428	
	XY=	-1.5432	YY=	31.8802	ZY=	-4.1255	
	XZ=	0.2928	YZ=	-0.8378	ZZ=	27.3630	
	Eigenvalues:	26.2613	27.1254	33.3633			
202	H	Isotropic =	28.9018	Anisotropy =	6.8614		
	XX=	26.5692	YX=	-2.9725	ZX=	1.5245	
	XY=	0.1454	YY=	32.2830	ZY=	-1.9176	
	XZ=	0.1455	YZ=	-2.2087	ZZ=	27.8534	
	Eigenvalues:	26.1195	27.1099	33.4761			
203	H	Isotropic =	27.1016	Anisotropy =	3.5995		
	XX=	29.2651	YX=	1.3612	ZX=	-0.0595	
	XY=	0.0823	YY=	27.0888	ZY=	-0.7349	
	XZ=	-0.1096	YZ=	-0.6771	ZZ=	24.9508	
	Eigenvalues:	24.7350	27.0685	29.5012			
204	H	Isotropic =	28.9237	Anisotropy =	6.8514		
	XX=	27.3882	YX=	-1.1932	ZX=	0.3643	
	XY=	-0.6363	YY=	32.0120	ZY=	-1.0665	
	XZ=	1.0587	YZ=	-4.4136	ZZ=	27.3709	
	Eigenvalues:	26.0426	27.2371	33.4913			
205	H	Isotropic =	27.1287	Anisotropy =	3.6014		
	XX=	24.8562	YX=	-0.2153	ZX=	0.1668	

	XY=	-0.1643	YY=	27.6712	ZY=	0.5433	
	XZ=	0.4816	YZ=	1.6741	ZZ=	28.8586	
	Eigenvalues:	24.8001	27.0563	29.5296			
206	H	Isotropic =	27.0176	Anisotropy =	3.3986		
	XX=	29.2635	YX=	-0.1920	ZX=	0.1479	
	XY=	0.5947	YY=	26.6685	ZY=	-0.9882	
	XZ=	-0.2419	YZ=	-1.1142	ZZ=	25.1208	
	Eigenvalues:	24.5888	27.1806	29.2834			
207	H	Isotropic =	28.9315	Anisotropy =	6.7024		
	XX=	26.6142	YX=	0.1378	ZX=	0.0103	
	XY=	-2.9201	YY=	31.9227	ZY=	-2.3493	
	XZ=	1.4145	YZ=	-2.2736	ZZ=	28.2575	
	Eigenvalues:	26.2530	27.1417	33.3997			
208	H	Isotropic =	21.5550	Anisotropy =	16.7545		
	XX=	21.9560	YX=	-4.8075	ZX=	1.0473	
	XY=	-4.3130	YY=	29.5998	ZY=	-4.5082	
	XZ=	1.1980	YZ=	-4.1900	ZZ=	13.1092	
	Eigenvalues:	12.0325	19.9079	32.7247			
209	N	Isotropic =	88.5141	Anisotropy =	104.0504		
	XX=	152.0435	YX=	22.6097	ZX=	-13.9547	
	XY=	20.4442	YY=	54.8132	ZY=	8.3337	
	XZ=	-13.1625	YZ=	11.5796	ZZ=	58.6856	
	Eigenvalues:	40.8581	66.8033	157.8810			
210	H	Isotropic =	21.5288	Anisotropy =	16.6425		
	XX=	12.0988	YX=	-0.8264	ZX=	0.9825	
	XY=	-1.0578	YY=	28.4099	ZY=	-5.7072	
	XZ=	0.6670	YZ=	-6.1342	ZZ=	24.0777	
	Eigenvalues:	12.0210	19.9416	32.6238			
211	N	Isotropic =	88.0061	Anisotropy =	106.8567		
	XX=	134.5168	YX=	22.1129	ZX=	-44.1321	
	XY=	19.6468	YY=	54.7520	ZY=	0.0337	
	XZ=	-39.8988	YZ=	3.4507	ZZ=	74.7496	
	Eigenvalues:	41.4055	63.3689	159.2439			
212	H	Isotropic =	21.4802	Anisotropy =	18.9652		
	XX=	13.4599	YX=	-5.3926	ZX=	5.0021	
	XY=	-4.3161	YY=	28.9132	ZY=	-5.3092	
	XZ=	4.5497	YZ=	-5.8001	ZZ=	22.0674	
	Eigenvalues:	10.9997	19.3171	34.1236			
213	N	Isotropic =	87.3043	Anisotropy =	109.1620		
	XX=	67.5882	YX=	-7.3373	ZX=	-29.1407	
	XY=	-10.3546	YY=	72.0343	ZY=	44.0811	
	XZ=	-32.1195	YZ=	48.2554	ZZ=	122.2904	
	Eigenvalues:	40.9767	60.8573	160.0789			
214	H	Isotropic =	21.2049	Anisotropy =	19.5911		
	XX=	20.2427	YX=	-3.8737	ZX=	3.9333	
	XY=	-3.2427	YY=	28.0988	ZY=	-8.1065	
	XZ=	3.9753	YZ=	-9.2884	ZZ=	15.2732	
	Eigenvalues:	10.4527	18.8964	34.2656			
215	C	Isotropic =	64.8843	Anisotropy =	126.2637		
	XX=	51.0707	YX=	52.4301	ZX=	28.4131	
	XY=	48.9370	YY=	22.1148	ZY=	29.2462	
	XZ=	26.3946	YZ=	32.0143	ZZ=	121.4674	
	Eigenvalues:	-16.6330	62.2258	149.0601			
216	C	Isotropic =	61.2066	Anisotropy =	151.1178		

	XX=	26.1234	YX=	26.6085	ZX=	65.6610
	XY=	11.5067	YY=	43.5547	ZY=	43.2479
	XZ=	60.5987	YZ=	31.9976	ZZ=	113.9417
	Eigenvalues:	-6.8734	28.5414	161.9518		
217	C	Isotropic =	42.0449	Anisotropy =	96.6865	
	XX=	50.8782	YX=	-12.9550	ZX=	31.5813
	XY=	-12.4429	YY=	2.7011	ZY=	48.7298
	XZ=	27.3994	YZ=	50.7066	ZZ=	72.5552
	Eigenvalues:	-30.9905	50.6225	106.5025		
218	C	Isotropic =	74.8693	Anisotropy =	131.0618	
	XX=	53.8060	YX=	40.7375	ZX=	34.0506
	XY=	37.4727	YY=	43.0099	ZY=	35.5040
	XZ=	30.7943	YZ=	43.1472	ZZ=	127.7918
	Eigenvalues:	8.1399	54.2241	162.2438		
219	C	Isotropic =	42.4112	Anisotropy =	95.9156	
	XX=	-3.8349	YX=	14.3085	ZX=	46.6164
	XY=	11.2872	YY=	59.1194	ZY=	15.0060
	XZ=	54.1659	YZ=	18.8858	ZZ=	71.9490
	Eigenvalues:	-29.1687	50.0473	106.3549		
220	C	Isotropic =	62.0884	Anisotropy =	152.8635	
	XX=	49.9487	YX=	5.2869	ZX=	56.2684
	XY=	20.1219	YY=	25.5134	ZY=	48.1468
	XZ=	54.6308	YZ=	59.4332	ZZ=	110.8033
	Eigenvalues:	-5.2811	27.5490	163.9975		
221	C	Isotropic =	61.8068	Anisotropy =	152.5349	
	XX=	25.2521	YX=	64.0283	ZX=	-15.5701
	XY=	54.3293	YY=	129.2041	ZY=	-30.6786
	XZ=	-28.2533	YZ=	-18.5722	ZZ=	30.9642
	Eigenvalues:	-4.7855	26.7091	163.4967		
222	C	Isotropic =	63.7200	Anisotropy =	129.2133	
	XX=	45.8627	YX=	54.0662	ZX=	24.3764
	XY=	50.6533	YY=	117.3625	ZY=	-37.2095
	XZ=	24.0255	YZ=	-40.5965	ZZ=	27.9347
	Eigenvalues:	-18.2588	59.5565	149.8622		
223	C	Isotropic =	61.5844	Anisotropy =	153.2047	
	XX=	49.0443	YX=	46.4350	ZX=	-29.1247
	XY=	55.4389	YY=	131.6895	ZY=	-21.3257
	XZ=	-16.9610	YZ=	-34.5884	ZZ=	4.0194
	Eigenvalues:	-6.1000	27.1324	163.7209		
224	C	Isotropic =	41.9773	Anisotropy =	95.9046	
	XX=	-4.7467	YX=	46.5793	ZX=	-18.3244
	XY=	47.6394	YY=	83.8504	ZY=	-0.4796
	XZ=	-25.1094	YZ=	-2.0157	ZZ=	46.8280
	Eigenvalues:	-30.0732	50.0913	105.9137		
225	C	Isotropic =	75.9951	Anisotropy =	130.3573	
	XX=	54.1189	YX=	51.6115	ZX=	13.0892
	XY=	45.2759	YY=	136.3979	ZY=	-26.9425
	XZ=	11.1727	YZ=	-33.3205	ZZ=	37.4686
	Eigenvalues:	9.2362	55.8492	162.9000		
226	C	Isotropic =	42.2216	Anisotropy =	94.9645	
	XX=	51.5254	YX=	17.7379	ZX=	-27.7442
	XY=	14.5945	YY=	94.4264	ZY=	-19.2716
	XZ=	-22.4131	YZ=	-18.9717	ZZ=	-19.2871
	Eigenvalues:	-28.7710	49.9044	105.5312		

227 C Isotropic = 74.2387 Anisotropy = 131.2398
 XX= 97.2202 YX= -29.8477 ZX= -49.7282
 XY= -30.2579 YY= 17.5007 ZY= 21.7318
 XZ= -49.6667 YZ= 21.6819 ZZ= 107.9953
 Eigenvalues: 7.1185 53.8657 161.7319

228 C Isotropic = 41.2940 Anisotropy = 96.7713
 XX= 54.3125 YX= 15.2680 ZX= -50.4049
 XY= 11.6291 YY= 18.3247 ZY= 38.5317
 XZ= -45.5382 YZ= 44.1160 ZZ= 51.2449
 Eigenvalues: -29.2551 47.3290 105.8082

229 C Isotropic = 62.5296 Anisotropy = 153.7000
 XX= 66.5899 YX= -34.8934 ZX= -82.9051
 XY= -18.3036 YY= 31.3006 ZY= 23.4596
 XZ= -76.3261 YZ= 7.7179 ZZ= 89.6983
 Eigenvalues: -5.4223 28.0147 164.9963

230 C Isotropic = 62.5010 Anisotropy = 131.0571
 XX= 91.6746 YX= -38.8559 ZX= -41.5316
 XY= -35.5432 YY= -8.1997 ZY= 20.1043
 XZ= -40.3266 YZ= 23.3020 ZZ= 104.0282
 Eigenvalues: -21.0822 58.7127 149.8724

231 C Isotropic = 62.8259 Anisotropy = 153.4143
 XX= 86.5027 YX= -4.8419 ZX= -72.8384
 XY= -19.5699 YY= 24.5453 ZY= 25.4320
 XZ= -78.1088 YZ= 42.9465 ZZ= 77.4297
 Eigenvalues: -5.2964 28.6720 165.1021

232 C Isotropic = 41.3883 Anisotropy = 96.3946
 XX= 35.3885 YX= -35.1490 ZX= -56.0293
 XY= -29.1971 YY= 40.2031 ZY= -5.1106
 XZ= -61.3219 YZ= -8.1401 ZZ= 48.5732
 Eigenvalues: -29.0712 47.5846 105.6513

233 C Isotropic = 42.0999 Anisotropy = 97.0281
 XX= 45.4977 YX= -65.6673 ZX= 16.0832
 XY= -64.8797 YY= 26.5999 ZY= -2.4957
 XZ= 20.7808 YZ= -3.0435 ZZ= 54.2022
 Eigenvalues: -31.0963 50.6108 106.7854

234 C Isotropic = 61.1818 Anisotropy = 151.7790
 XX= 89.5552 YX= -52.7894 ZX= 50.5405
 XY= -64.2630 YY= 74.6471 ZY= -18.4590
 XZ= 50.0016 YZ= -33.4828 ZZ= 19.3432
 Eigenvalues: -7.2001 28.3778 162.3678

235 C Isotropic = 65.1561 Anisotropy = 126.0875
 XX= 102.7067 YX= -49.3099 ZX= 8.6504
 XY= -47.0411 YY= 62.8914 ZY= -53.6315
 XZ= 10.0234 YZ= -57.8415 ZZ= 29.8702
 Eigenvalues: -16.1847 62.4386 149.2144

236 C Isotropic = 62.0648 Anisotropy = 152.6754
 XX= 79.7222 YX= -79.5710 ZX= 35.3881
 XY= -69.0788 YY= 62.4805 ZY= -32.8698
 XZ= 42.2197 YZ= -19.2316 ZZ= 43.9917
 Eigenvalues: -4.8875 27.2335 163.8485

237 C Isotropic = 42.5346 Anisotropy = 95.2229
 XX= 59.5912 YX= -29.0395 ZX= 47.9885
 XY= -23.7985 YY= 73.5624 ZY= -8.3674
 XZ= 41.6524 YZ= -9.6054 ZZ= -5.5500

Eigenvalues: -28.5511 50.1383 106.0165
 238 C Isotropic = 74.9658 Anisotropy = 130.9378
 XX= 104.9210 YX= -58.5779 ZX= 13.2413
 XY= -51.6960 YY= 81.9948 ZY= -40.1984
 XZ= 17.0965 YZ= -45.1026 ZZ= 37.9815
 Eigenvalues: 8.2630 54.3766 162.2577
 239 C Isotropic = 156.2676 Anisotropy = 12.4244
 XX= 164.4700 YX= 0.6043 ZX= 0.9414
 XY= 1.1054 YY= 154.5346 ZY= 4.3563
 XZ= -2.1769 YZ= 14.9003 ZZ= 149.7983
 Eigenvalues: 142.2050 162.0473 164.5506
 240 C Isotropic = 155.8452 Anisotropy = 13.1005
 XX= 140.9147 YX= 4.8547 ZX= 2.2378
 XY= -5.0863 YY= 162.5458 ZY= -1.2577
 XZ= -2.2352 YZ= -0.7659 ZZ= 164.0752
 Eigenvalues: 140.9141 162.0427 164.5789
 241 C Isotropic = 156.1850 Anisotropy = 12.9896
 XX= 164.6248 YX= 0.8000 ZX= -0.0666
 XY= 0.1584 YY= 161.3894 ZY= 9.6662
 XZ= 2.5607 YZ= -2.9759 ZZ= 142.5409
 Eigenvalues: 141.9068 161.8035 164.8448
 242 C Isotropic = 155.9048 Anisotropy = 12.8845
 XX= 145.2979 YX= -12.4896 ZX= -6.7090
 XY= -2.7319 YY= 158.8412 ZY= -2.1979
 XZ= -0.8780 YZ= -2.1474 ZZ= 163.5752
 Eigenvalues: 141.0421 162.1777 164.4944
 243 O Isotropic = 186.9439 Anisotropy = 142.7615
 XX= 135.0586 YX= -25.4617 ZX= 59.9053
 XY= 21.1248 YY= 170.5568 ZY= -26.0618
 XZ= 54.2196 YZ= -18.3390 ZZ= 255.2163
 Eigenvalues: 111.5909 167.1225 282.1182
 244 O Isotropic = 189.3976 Anisotropy = 143.3257
 XX= 244.6135 YX= 36.9092 ZX= 39.6073
 XY= 26.9539 YY= 134.2250 ZY= 45.5419
 XZ= 55.6695 YZ= 19.5097 ZZ= 189.3543
 Eigenvalues: 118.2568 164.9880 284.9481
 245 O Isotropic = 190.2185 Anisotropy = 139.8592
 XX= 243.9510 YX= 51.9908 ZX= 7.4301
 XY= 59.0052 YY= 203.1832 ZY= -29.6116
 XZ= -10.0243 YZ= -5.2050 ZZ= 123.5211
 Eigenvalues: 118.7699 168.4276 283.4579
 246 O Isotropic = 189.8282 Anisotropy = 139.6033
 XX= 135.3647 YX= 26.9296 ZX= -20.8176
 XY= 47.4869 YY= 215.2204 ZY= -59.2230
 XZ= 1.3144 YZ= -57.3986 ZZ= 218.8995
 Eigenvalues: 118.5668 168.0207 282.8971
 247 O Isotropic = 190.5245 Anisotropy = 121.7121
 XX= 168.1939 YX= -9.9858 ZX= -30.9856
 XY= -34.1718 YY= 149.9301 ZY= -30.8938
 XZ= -44.0851 YZ= -31.5287 ZZ= 253.4494
 Eigenvalues: 118.5590 181.3485 271.6659
 248 O Isotropic = 190.5531 Anisotropy = 120.1996
 XX= 263.8493 YX= 11.3873 ZX= -28.8560
 XY= 6.6066 YY= 128.8297 ZY= 34.1792

XZ= -20.9583 YZ= 8.9376 ZZ= 178.9804
 Eigenvalues: 118.7358 182.2374 270.6862
 249 O Isotropic = 186.3435 Anisotropy = 143.2516
 XX= 253.1358 YX= -14.0542 ZX= 53.7303
 XY= -7.6156 YY= 167.0744 ZY= -26.5666
 XZ= 71.2518 YZ= 18.0725 ZZ= 138.8204
 Eigenvalues: 111.2854 165.9006 281.8446
 250 O Isotropic = 189.1599 Anisotropy = 143.5725
 XX= 169.2079 YX= -35.4809 ZX= 39.2182
 XY= -56.9575 YY= 170.9229 ZY= -56.2614
 XZ= 15.6953 YZ= -61.3730 ZZ= 227.3490
 Eigenvalues: 117.3636 165.2412 284.8749
 251 C Isotropic = 50.4828 Anisotropy = 134.2493
 XX= 106.6563 YX= 51.2833 ZX= 45.5082
 XY= 44.4466 YY= 5.0810 ZY= -24.7356
 XZ= 54.3341 YZ= -36.5334 ZZ= 39.7110
 Eigenvalues: -43.0566 54.5226 139.9824
 252 C Isotropic = 50.6868 Anisotropy = 134.4348
 XX= 119.0413 YX= 44.4966 ZX= 31.8922
 XY= 38.9565 YY= -32.8844 ZY= -18.5098
 XZ= 28.7729 YZ= 6.1643 ZZ= 65.9035
 Eigenvalues: -45.3015 57.0519 140.3100
 253 N Isotropic = -57.2289 Anisotropy = 477.2527
 XX= 192.1431 YX= 144.6305 ZX= 128.7980
 XY= 118.3042 YY= -249.9276 ZY= -82.5786
 XZ= 138.2853 YZ= -81.2808 ZZ= -113.9021
 Eigenvalues: -347.3537 -85.2724 260.9396
 254 C Isotropic = 38.4799 Anisotropy = 96.5537
 XX= 91.4581 YX= 14.5573 ZX= 36.4158
 XY= 20.1193 YY= 35.5620 ZY= -34.6780
 XZ= 28.7407 YZ= -5.5307 ZZ= -11.5804
 Eigenvalues: -30.0258 42.6164 102.8490
 255 C Isotropic = 39.2760 Anisotropy = 97.9365
 XX= 98.5393 YX= 3.3621 ZX= 8.0779
 XY= 19.0081 YY= -17.8884 ZY= 45.1365
 XZ= 22.3614 YZ= 6.9228 ZZ= 37.1772
 Eigenvalues: -28.4302 41.6913 104.5671
 256 N Isotropic = -45.8561 Anisotropy = 470.3946
 XX= 188.5192 YX= 112.5208 ZX= 107.1507
 XY= 161.6462 YY= -279.9030 ZY= -25.6847
 XZ= 140.6376 YZ= -16.8021 ZZ= -46.1845
 Eigenvalues: -327.9173 -77.3912 267.7403
 257 N Isotropic = -56.8696 Anisotropy = 476.6778
 XX= -98.1861 YX= 35.2930 ZX= 100.6784
 XY= 36.5023 YY= -181.3283 ZY= -236.0192
 XZ= 86.8375 YZ= -255.7672 ZZ= 108.9056
 Eigenvalues: -346.6870 -84.8374 260.9156
 258 C Isotropic = 50.6126 Anisotropy = 134.6876
 XX= 61.3872 YX= -26.6845 ZX= 9.7380
 XY= -4.3033 YY= -0.6363 ZY= -73.7581
 XZ= 18.5893 YZ= -81.3803 ZZ= 91.0871
 Eigenvalues: -45.2842 56.7178 140.4043
 259 C Isotropic = 50.3152 Anisotropy = 134.6666
 XX= 45.4338 YX= 20.9090 ZX= 45.1435

	XY=	11.4135	YY=	25.0821	ZY=	-74.1578
	XZ=	32.3794	YZ=	-79.3007	ZZ=	80.4296
	Eigenvalues:	-43.4581	54.3107	140.0929		
260	N	Isotropic =	-46.9632	Anisotropy =	470.8809	
	XX=	-59.5575	YX=	-42.6190	ZX=	78.8726
	XY=	-26.5112	YY=	-183.3171	ZY=	-277.1619
	XZ=	62.0720	YZ=	-225.1645	ZZ=	101.9852
	Eigenvalues:	-329.6324	-78.2145	266.9575		
261	C	Isotropic =	39.2218	Anisotropy =	98.0219	
	XX=	22.8684	YX=	-18.4196	ZX=	9.2177
	XY=	-51.5547	YY=	7.8610	ZY=	-47.7261
	XZ=	-9.8042	YZ=	-28.4475	ZZ=	86.9360
	Eigenvalues:	-28.6063	41.7020	104.5697		
262	C	Isotropic =	38.4740	Anisotropy =	96.3127	
	XX=	-4.2472	YX=	10.0579	ZX=	21.2847
	XY=	37.1159	YY=	38.6381	ZY=	-36.9489
	XZ=	35.6473	YZ=	-33.1629	ZZ=	81.0310
	Eigenvalues:	-29.9846	42.7241	102.6824		
263	N	Isotropic =	-56.9030	Anisotropy =	477.8121	
	XX=	220.3835	YX=	143.0703	ZX=	79.2812
	XY=	120.3592	YY=	-236.0163	ZY=	-97.1710
	XZ=	75.1418	YZ=	-106.0621	ZZ=	-155.0761
	Eigenvalues:	-345.9369	-86.4104	261.6385		
264	C	Isotropic =	37.7549	Anisotropy =	97.1625	
	XX=	93.9299	YX=	20.7595	ZX=	28.6303
	XY=	19.0263	YY=	37.6209	ZY=	-34.3929
	XZ=	17.3549	YZ=	-5.0056	ZZ=	-18.2861
	Eigenvalues:	-30.8778	41.6126	102.5299		
265	C	Isotropic =	38.3722	Anisotropy =	95.9357	
	XX=	94.3661	YX=	33.7994	ZX=	-0.4925
	XY=	23.4157	YY=	-15.4356	ZY=	37.4187
	XZ=	5.0738	YZ=	8.7911	ZZ=	36.1861
	Eigenvalues:	-29.7627	42.5500	102.3293		
266	N	Isotropic =	-54.1085	Anisotropy =	474.2049	
	XX=	221.2904	YX=	145.4126	ZX=	66.7309
	XY=	131.0232	YY=	-283.3881	ZY=	-62.2577
	XZ=	52.2625	YZ=	-51.2714	ZZ=	-100.2278
	Eigenvalues:	-339.3769	-84.9768	262.0281		
267	C	Isotropic =	49.9599	Anisotropy =	134.4942	
	XX=	129.5226	YX=	34.6484	ZX=	18.8454
	XY=	34.6544	YY=	4.4874	ZY=	-37.1924
	XZ=	26.5754	YZ=	-49.8925	ZZ=	15.8697
	Eigenvalues:	-43.4813	53.7383	139.6227		
268	C	Isotropic =	49.4963	Anisotropy =	135.8777	
	XX=	130.0187	YX=	35.9364	ZX=	17.5532
	XY=	42.0556	YY=	-35.3038	ZY=	-26.7168
	XZ=	11.6494	YZ=	-6.9488	ZZ=	53.7741
	Eigenvalues:	-47.8499	56.2575	140.0815		
269	N	Isotropic =	-56.6271	Anisotropy =	477.1083	
	XX=	-121.0834	YX=	78.8639	ZX=	52.9712
	XY=	69.7744	YY=	-197.1703	ZY=	-215.4305
	XZ=	49.8078	YZ=	-238.8545	ZZ=	148.3724
	Eigenvalues:	-345.4568	-85.8696	261.4451		
270	C	Isotropic =	37.9717	Anisotropy =	96.9328	

	XX=	-9.0470	YX=	13.6104	ZX=	11.3307
	XY=	39.7767	YY=	39.3534	ZY=	-31.6321
	XZ=	27.6563	YZ=	-37.2182	ZZ=	83.6087
	Eigenvalues:	-30.3023	41.6239	102.5936		
271	C	Isotropic =	38.2140	Anisotropy =	96.3491	
	XX=	24.4883	YX=	-15.2478	ZX=	-5.6199
	XY=	-41.5249	YY=	11.8444	ZY=	-43.1460
	XZ=	-18.4823	YZ=	-50.1972	ZZ=	78.3092
	Eigenvalues:	-29.6873	41.8825	102.4467		
272	N	Isotropic =	-54.2843	Anisotropy =	474.7054	
	XX=	-86.8211	YX=	13.7771	ZX=	14.1148
	XY=	21.6862	YY=	-220.0599	ZY=	-229.7308
	XZ=	26.6067	YZ=	-246.9027	ZZ=	144.0283
	Eigenvalues:	-340.3584	-84.6804	262.1860		
273	C	Isotropic =	49.7370	Anisotropy =	134.3832	
	XX=	31.5388	YX=	41.7856	ZX=	23.8498
	XY=	31.1213	YY=	7.8040	ZY=	-63.3812
	XZ=	14.4898	YZ=	-61.0263	ZZ=	109.8683
	Eigenvalues:	-44.0338	53.9190	139.3258		
274	C	Isotropic =	49.6838	Anisotropy =	135.7745	
	XX=	56.8791	YX=	-10.3440	ZX=	-2.0564
	XY=	7.2157	YY=	-15.4289	ZY=	-72.7859
	XZ=	8.0941	YZ=	-69.3030	ZZ=	107.6012
	Eigenvalues:	-47.8897	56.7409	140.2001		
275	C	Isotropic =	30.8939	Anisotropy =	95.2522	
	XX=	75.2799	YX=	25.2284	ZX=	24.7125
	XY=	31.9058	YY=	-33.2072	ZY=	-5.7520
	XZ=	23.5608	YZ=	0.8442	ZZ=	50.6090
	Eigenvalues:	-41.0344	39.3206	94.3953		
276	C	Isotropic =	35.7387	Anisotropy =	82.1765	
	XX=	65.4070	YX=	36.4544	ZX=	38.4689
	XY=	29.4538	YY=	15.1250	ZY=	-35.6173
	XZ=	40.0405	YZ=	-49.5085	ZZ=	26.6841
	Eigenvalues:	-45.3290	62.0221	90.5231		
277	C	Isotropic =	35.3905	Anisotropy =	82.9317	
	XX=	39.0942	YX=	36.9286	ZX=	40.1521
	XY=	24.0568	YY=	17.6503	ZY=	-48.0862
	XZ=	33.8667	YZ=	-52.5354	ZZ=	49.4271
	Eigenvalues:	-45.1764	60.6697	90.6783		
278	C	Isotropic =	31.0393	Anisotropy =	94.9890	
	XX=	45.8473	YX=	-19.2013	ZX=	9.7311
	XY=	-12.5505	YY=	-9.5235	ZY=	-57.8941
	XZ=	13.3342	YZ=	-51.8190	ZZ=	56.7941
	Eigenvalues:	-41.2514	40.0041	94.3653		
279	C	Isotropic =	30.6091	Anisotropy =	97.5870	
	XX=	88.4296	YX=	28.5795	ZX=	9.7435
	XY=	28.6505	YY=	-33.2185	ZY=	-14.9197
	XZ=	9.1913	YZ=	-5.7197	ZZ=	36.6162
	Eigenvalues:	-41.5073	37.6675	95.6671		
280	C	Isotropic =	34.8090	Anisotropy =	81.8639	
	XX=	82.3550	YX=	22.2495	ZX=	18.7748
	XY=	21.3901	YY=	15.6848	ZY=	-41.7531
	XZ=	21.2986	YZ=	-57.7511	ZZ=	6.3873
	Eigenvalues:	-45.7332	60.7753	89.3850		

281 C Isotropic = 30.7094 Anisotropy = 97.5748
XX= 37.7890 YX= -8.5724 ZX= -0.6357
XY= 0.7033 YY= -17.9513 ZY= -51.4323
XZ= 2.0441 YZ= -51.6498 ZZ= 72.2905
Eigenvalues: -41.4681 37.8370 95.7592
282 C Isotropic = 34.3308 Anisotropy = 83.0802
XX= 24.6116 YX= 51.6321 ZX= 24.8880
XY= 36.5895 YY= 7.4651 ZY= -39.3202
XZ= 19.0634 YZ= -39.2905 ZZ= 70.9157
Eigenvalues: -45.8047 59.0795 89.7176
283 O Isotropic = -80.9428 Anisotropy = 669.3700
XX= 332.7108 YX= 100.7254 ZX= 88.7750
XY= 99.9564 YY= -135.8123 ZY= 62.3946
XZ= 88.0490 YZ= 52.4372 ZZ= -439.7269
Eigenvalues: -456.5537 -151.5786 365.3039
284 O Isotropic = -137.9553 Anisotropy = 761.3251
XX= 334.8147 YX= 138.2357 ZX= 41.5685
XY= 137.8340 YY= -363.8817 ZY= 193.9844
XZ= 41.9583 YZ= 197.6683 ZZ= -384.7991
Eigenvalues: -575.2611 -208.1996 369.5947
285 O Isotropic = -86.6867 Anisotropy = 681.3161
XX= -369.8426 YX= -93.6219 ZX= 246.7676
XY= -107.0130 YY= -31.9111 ZY= -200.9121
XZ= 250.5372 YZ= -199.5088 ZZ= 141.6936
Eigenvalues: -471.6302 -155.9540 367.5240
286 N Isotropic = 87.3043 Anisotropy = 109.1620
XX= 67.5882 YX= -7.3373 ZX= 29.1407
XY= -10.3546 YY= 72.0343 ZY= -44.0811
XZ= 32.1195 YZ= -48.2554 ZZ= 122.2904
Eigenvalues: 40.9767 60.8573 160.0789
287 O Isotropic = -139.9314 Anisotropy = 767.3270
XX= -411.7741 YX= -256.2667 ZX= 152.2171
XY= -250.6581 YY= -206.8955 ZY= -220.4670
XZ= 149.3407 YZ= -216.2330 ZZ= 198.8755
Eigenvalues: -582.7285 -208.6855 371.6200
288 O Isotropic = -83.4660 Anisotropy = 675.9819
XX= 179.9668 YX= 68.0941 ZX= 328.7595
XY= 69.1624 YY= -139.8068 ZY= 96.1978
XZ= 322.5341 YZ= 84.6135 ZZ= -290.5580
Eigenvalues: -464.8086 -152.7779 367.1886
289 O Isotropic = -142.9333 Anisotropy = 770.6682
XX= 236.3814 YX= 22.9916 ZX= 270.9574
XY= 26.0514 YY= -385.6826 ZY= 214.6665
XZ= 275.6706 YZ= 219.6737 ZZ= -279.4987
Eigenvalues: -587.4839 -212.1615 370.8455
290 O Isotropic = -82.6022 Anisotropy = 671.7886
XX= -457.2549 YX= 10.9952 ZX= 37.5588
XY= 0.8112 YY= -63.6325 ZY= -197.1655
XZ= 35.3345 YZ= -197.4990 ZZ= 273.0807
Eigenvalues: -459.7876 -153.2759 365.2568
291 O Isotropic = -134.1912 Anisotropy = 756.2705
XX= -455.3811 YX= -163.0514 ZX= -52.0152
XY= -158.6548 YY= -199.9095 ZY= -257.7067
XZ= -52.8196 YZ= -258.1599 ZZ= 252.7171

	Eigenvalues:	-568.1947	-204.3679	369.9891	
292	H	Isotropic =	24.9377	Anisotropy =	8.3789
		XX=	26.4488	YX=	2.5823
				ZX=	-2.8453
		XY=	1.7720	YY=	23.8367
				ZY=	-3.4384
		XZ=	-3.4833	YZ=	-2.0230
				ZZ=	24.5278
	Eigenvalues:	21.3455	22.9440	30.5237	
293	H	Isotropic =	23.8875	Anisotropy =	7.4513
		XX=	25.0930	YX=	0.8854
				ZX=	-5.0903
		XY=	0.9362	YY=	24.7979
				ZY=	-1.8314
		XZ=	-3.6455	YZ=	-1.6104
				ZZ=	21.7716
	Eigenvalues:	18.6213	24.1862	28.8550	
294	H	Isotropic =	24.8728	Anisotropy =	8.7524
		XX=	26.5136	YX=	-0.5927
				ZX=	3.9909
		XY=	-1.6654	YY=	21.3455
				ZY=	-0.4184
		XZ=	3.6939	YZ=	-1.4526
				ZZ=	26.7593
	Eigenvalues:	21.1038	22.8068	30.7078	
295	H	Isotropic =	23.9456	Anisotropy =	7.6642
		XX=	25.0039	YX=	-2.9967
				ZX=	3.2276
		XY=	-2.4997	YY=	20.7826
				ZY=	0.6607
		XZ=	3.4669	YZ=	1.4049
				ZZ=	26.0502
	Eigenvalues:	18.5588	24.2229	29.0550	
296	H	Isotropic =	24.3773	Anisotropy =	7.4822
		XX=	24.4089	YX=	-0.0767
				ZX=	5.0016
		XY=	-1.1280	YY=	24.1741
				ZY=	-0.0595
		XZ=	4.5109	YZ=	-1.0580
				ZZ=	24.5489
	Eigenvalues:	19.7218	24.0446	29.3654	
297	H	Isotropic =	24.9287	Anisotropy =	8.9545
		XX=	26.2487	YX=	-0.7938
				ZX=	4.4615
		XY=	0.4574	YY=	22.4715
				ZY=	-2.3506
		XZ=	4.6009	YZ=	-1.0680
				ZZ=	26.0659
	Eigenvalues:	20.8077	23.0800	30.8984	
298	H	Isotropic =	24.9405	Anisotropy =	8.2717
		XX=	25.9405	YX=	2.5024
				ZX=	-3.3007
		XY=	3.6020	YY=	23.4785
				ZY=	-1.4103
		XZ=	-2.6299	YZ=	-2.3912
				ZZ=	25.4026
	Eigenvalues:	21.4151	22.9515	30.4550	
299	H	Isotropic =	23.9207	Anisotropy =	7.4630
		XX=	23.1704	YX=	2.6479
				ZX=	-3.3961
		XY=	3.3065	YY=	23.8608
				ZY=	-0.2563
		XZ=	-4.6776	YZ=	0.1652
				ZZ=	24.7307
	Eigenvalues:	18.7483	24.1178	28.8960	
300	H	Isotropic =	27.1287	Anisotropy =	3.6014
		XX=	24.8562	YX=	-0.2153
				ZX=	-0.1668
		XY=	-0.1643	YY=	27.6712
				ZY=	-0.5433
		XZ=	-0.4816	YZ=	-1.6741
				ZZ=	28.8586
	Eigenvalues:	24.8001	27.0563	29.5296	
301	H	Isotropic =	28.9237	Anisotropy =	6.8514
		XX=	27.3882	YX=	-1.1932
				ZX=	-0.3643
		XY=	-0.6363	YY=	32.0120
				ZY=	1.0665
		XZ=	-1.0587	YZ=	4.4136
				ZZ=	27.3709
	Eigenvalues:	26.0426	27.2371	33.4913	
302	H	Isotropic =	28.9315	Anisotropy =	6.7024
		XX=	26.6142	YX=	0.1378
				ZX=	-0.0103
		XY=	-2.9201	YY=	31.9227
				ZY=	2.3493

	XZ=	-1.4145	YZ=	2.2736	ZZ=	28.2575	
	Eigenvalues:	26.2530	27.1417	33.3997			
303	H	Isotropic =	27.0176	Anisotropy =	3.3986		
	XX=	29.2635	YX=	-0.1920	ZX=	-0.1479	
	XY=	0.5947	YY=	26.6685	ZY=	0.9882	
	XZ=	0.2419	YZ=	1.1142	ZZ=	25.1208	
	Eigenvalues:	24.5888	27.1806	29.2834			
304	H	Isotropic =	28.9167	Anisotropy =	6.6700		
	XX=	27.5069	YX=	-1.1548	ZX=	-1.0428	
	XY=	-1.5432	YY=	31.8802	ZY=	4.1255	
	XZ=	-0.2928	YZ=	0.8378	ZZ=	27.3630	
	Eigenvalues:	26.2613	27.1254	33.3633			
305	H	Isotropic =	26.9797	Anisotropy =	3.5669		
	XX=	24.6201	YX=	-0.7685	ZX=	-0.2786	
	XY=	-0.5022	YY=	27.2039	ZY=	-1.1571	
	XZ=	-0.6166	YZ=	-0.2500	ZZ=	29.1152	
	Eigenvalues:	24.3954	27.1862	29.3577			
306	H	Isotropic =	27.1016	Anisotropy =	3.5995		
	XX=	29.2651	YX=	1.3612	ZX=	0.0595	
	XY=	0.0823	YY=	27.0888	ZY=	0.7349	
	XZ=	0.1096	YZ=	0.6771	ZZ=	24.9508	
	Eigenvalues:	24.7350	27.0685	29.5012			
307	H	Isotropic =	28.9018	Anisotropy =	6.8614		
	XX=	26.5692	YX=	-2.9725	ZX=	-1.5245	
	XY=	0.1454	YY=	32.2830	ZY=	1.9176	
	XZ=	-0.1455	YZ=	2.2087	ZZ=	27.8534	
	Eigenvalues:	26.1195	27.1099	33.4761			
308	H	Isotropic =	21.2049	Anisotropy =	19.5911		
	XX=	20.2427	YX=	-3.8737	ZX=	-3.9333	
	XY=	-3.2427	YY=	28.0988	ZY=	8.1065	
	XZ=	-3.9753	YZ=	9.2884	ZZ=	15.2732	
	Eigenvalues:	10.4527	18.8964	34.2656			
309	N	Isotropic =	88.0061	Anisotropy =	106.8567		
	XX=	134.5168	YX=	22.1129	ZX=	44.1321	
	XY=	19.6468	YY=	54.7520	ZY=	-0.0337	
	XZ=	39.8988	YZ=	-3.4507	ZZ=	74.7496	
	Eigenvalues:	41.4055	63.3689	159.2439			
310	H	Isotropic =	21.4802	Anisotropy =	18.9652		
	XX=	13.4599	YX=	-5.3926	ZX=	-5.0021	
	XY=	-4.3161	YY=	28.9132	ZY=	5.3092	
	XZ=	-4.5497	YZ=	5.8001	ZZ=	22.0674	
	Eigenvalues:	10.9997	19.3171	34.1236			
311	N	Isotropic =	88.5141	Anisotropy =	104.0504		
	XX=	152.0435	YX=	22.6097	ZX=	13.9547	
	XY=	20.4442	YY=	54.8132	ZY=	-8.3337	
	XZ=	13.1625	YZ=	-11.5796	ZZ=	58.6856	
	Eigenvalues:	40.8581	66.8033	157.8810			
312	H	Isotropic =	21.5288	Anisotropy =	16.6425		
	XX=	12.0988	YX=	-0.8264	ZX=	-0.9825	
	XY=	-1.0578	YY=	28.4099	ZY=	5.7072	
	XZ=	-0.6670	YZ=	6.1342	ZZ=	24.0777	
	Eigenvalues:	12.0210	19.9416	32.6238			
313	N	Isotropic =	88.7035	Anisotropy =	103.6433		
	XX=	62.8231	YX=	9.5283	ZX=	6.9242	

	XY=	6.2455	YY=	63.8309	ZY=	-40.1349
	XZ=	6.8779	YZ=	-42.6153	ZZ=	139.4565
	Eigenvalues:	40.9937	67.3178	157.7991		
314	H	Isotropic =	21.5550	Anisotropy =	16.7545	
	XX=	21.9560	YX=	-4.8075	ZX=	-1.0473
	XY=	-4.3130	YY=	29.5998	ZY=	4.5082
	XZ=	-1.1980	YZ=	4.1900	ZZ=	13.1092
	Eigenvalues:	12.0325	19.9079	32.7247		

cartesians coordinates

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H		4.71253100	4.56614900	6.72987500
C		4.90157000	4.52230100	5.65491600
C		4.50707000	5.83817400	4.98914400
C		4.01119100	3.47231800	4.99109500
H		5.95624200	4.30351400	5.47374600
H		5.08009000	6.68156800	5.38048700
H		4.19741300	2.47152500	5.38660200
N		4.32629000	3.44675200	3.56568700
N		4.80077500	5.73216800	3.56316700
H		4.77844600	6.59323200	3.01494700
N		3.09890100	6.09184200	5.28457900
H		2.73862700	7.02572900	5.08328800
N		2.61950100	3.80873900	5.28693100
H		1.90091800	3.07383400	5.28129000
C		2.16573200	5.09087200	5.30998300
C		4.59527100	4.57634700	2.85651600
O		4.69480700	4.55536700	1.60726800
O		0.94119500	5.34933400	5.39646100
H		4.16533600	2.58999300	3.01785300
H		-5.23286600	-0.64028300	-1.77136900
C		-4.18509500	-0.87146600	-1.97530500
C		-3.79462800	-2.21514100	-1.35929200
C		-3.27457600	0.14959200	-1.29195400
H		-4.01520200	-0.87975400	-3.05427400
H		-4.37601600	-3.04773400	-1.76055800
H		-3.44931900	1.16259300	-1.66103600
N		-1.88584800	-0.20293400	-1.59002200
N		-2.39168900	-2.47044500	-1.68617100
H		-2.08509600	-3.41507900	-1.90786700
N		-4.04585500	-2.14608800	0.07787600
H		-4.21635300	-3.00640400	0.60363900
N		-3.57456700	0.13145300	0.13628600
H		-3.45346000	0.97823100	0.69824700
C		-3.85802900	-1.01295000	0.81445600
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C	-3.20898800	2.49723200	2.95894500
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