Electronic Supplementary Materials for

Rational and Controllable Syntheses of variants of modified N-confused N-fused Porphodimethenes and Porphotrimethene with Adaptive properties

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Materials and Methods:

1.1 Electronic absorption spectra were measured with a PerkinElmer Lambda 950 UV-visible-NIR spectrophotometer. ¹H and ¹³C NMR spectra were recorded on a Bruker AVIII 600 MHz spectrometer, Bruker AVIII 400 MHz, Bruker DPX-300 MHz spectrometer (operating at 300.132/400.20/600.13 MHz for ¹H and 75.47/100.64/150.05 MHz for ¹³C) using the residual solvents as the internal references for ¹H [(CHCl₃ (δ = 7.26 ppm), CH₂Cl₂ (δ = 5.32 ppm). ESI HR-MS data were recorded using Waters QTOF Micro YA263 spectrometer. Fluorescence emission spectra were examined in the Fluoromax-3 instrument (Horiba Jobin Yvon) using a quartz cell of 10 nm path length and slit width of 5 nm for both excitation and emission. All solvents and chemicals were of reagent grade quality, obtained commercially and used without further purification except as noted. For spectral measurements, anhydrous dichloromethane was obtained by refluxing and distillation over CaH₂. Dry THF was obtained by refluxing and distillation over CaH₂. Dry THF was obtained by refluxing and distillation over CaH₂. Bry THF was obtained by refluxing and distillation over CaH₂. Bry THF was obtained by refluxing and distillation over CaH₂. Bry THF was obtained by refluxing and distillation over CaH₂. Bry THF was obtained by refluxing and distillation over CaH₂. Bry THF was obtained by refluxing and distillation over CaH₂. Bry THF was obtained by refluxing and distillation over CaH₂. Bry THF was obtained by refluxing and distillation over CaH₂. Bry THF was obtained by refluxing and distillation over pressed Sodium metal. Thin layer chromatography (TLC) was carried out on alumina sheets coated with silica gel 60 F₂₅₄ (Merck 5554) and gravity column chromatography were performed using Merck Silica Gel 230-400 mesh. Aluminum Oxide (Basic) grade II was purchased from Sigma Aldrich.

1.2 X-Ray structure determination.

A specimen of $C_{99}H_{68}Cl_2F_8N_6S_4$, approximate dimensions 0.100 mm x 0.100 mm x 0.100 mm, was used for the X-ray crystallographic analysis. The X-ray intensity data were measured (λ = 0.71073 Å). The total exposure time was 2.42 hours. The frames were integrated with the Bruker SAINT software package using a narrow-frame algorithm. The integration of the data using a triclinic unit cell yielded a total of 53660 reflections to a maximum θ angle of 26.45° (0.80 Å resolution), of which 18771 were independent (average redundancy 2.859, completeness = 99.1%, R_{int} = 16.23%, R_{sig} =24.49%) and 5816 (30.98%) were greater than $2\sigma(F^2)$. The final cell constants of a = 15.72(3) Å, b = 16.498(18) Å, c = 18.03(2) Å, a =94.031(19)°, β = 100.44(4)°, γ = 90.63(4)°, volume = 4586. (11) Å³, are based upon the refinement of the XYZ-centroids of 4152 reflections above 20 σ (I). The calculated minimum and maximum transmission coefficients (based on crystal size) are 0.9780 and 0.9780. The final anisotropic full-matrix least-squares refinement on F² with 1078 variables converged at R1 = 9.00%, for the observed data and wR2 = 28.39% for all data. The goodness-of-fit was 0.920. The largest peak in the final difference electron density synthesis was 0.414 e⁻/Å³ and the largest hole was -0.349 e⁻/Å³ with an RMS deviation of 0.068 e⁻/Å³. On the basis of the final model, the calculated density was 1.226 g/cm³ and F (000), 1748 e-.

1.3 Determination of Association Constant by UV-vis Absorption Spectroscopic titration method:

For UV-vis titrations, stock solution of **10-12** were prepared in CHCl₃. The solution of the guest was also prepared in CHCl₃. The spectra of these solutions were recorded by means of UV-vis absorption methods. Binding constant was calculated according to the Benesi-Hildebrand equation. K_a was calculated following the equation stated below.

$$1/(A-A_0) = 1/\{K_a(A_{max} - A_0) [G]_n\} + 1/[A_{max} - A_0]$$

Here A_0 is the absorbance of receptor in the absence of guest, A is the absorbance recorded in the presence of added guest, A_{max} is absorbance in presence of added $[G]_{max}$ and K_a is the association constant (M⁻¹). The association constant (K_a) could be determined from the slope of the straight line of the plot of 1/(A-A₀) against 1/[G]_n.

1.4 Job's plot:

The stoichiometry between **10-12** and analyte was evaluated by Job's plot method. A solution of **10-12** and guest (**G**) of same concentration were mixed in different proportions keeping a final volume of 2 mL. The related compositions for **10/11/12**: **G** (v/v) were 2:0,1.8: 0.2,1.6: 0.4, 1.4:0.6, 1.2:0.8, 1.0:1.0, 0.8:1.2, 0.6:1.4, 0.4:1.6, 0.2:1.8. The solutions thus prepared were used as such to record their absorption spectra. The mole fraction of analyte *i.e.*, (X_M) was calculated using the following equation (X_M) = [**G**]/ [**10** or **11** or **12**] + [**G**]. The mole fraction of analytes (X_M) was plotted against absorbance to obtain Job's plot. ^{S1} The mole fraction at which absorbance intensity appeared to be minimum was taken as the stoichiometry of their interaction.

1.5 Theoretical Calculation

Based on the X-ray crystal structure of 10, the geometries for 11 and 12 were modelled. All these macrocycles were fully optimized at the DFT level using B3LYP ^{s2} with 6-31G (d, p) basis set. ^{s3} Further fully optimized stationary points were characterized by harmonic analysis to ensure that all the structures are minima on the potential energy surface. Also, the deprotonated [10]-, [12]- and with Bu₄N⁺ counter ions [10⁻ TBA⁺], [12⁻ TBA⁺] and anion bound complexes of 11 with fluoride and acetate ([11-F]⁻, [11-OAc]⁻, [11-TBAF] and [11-TBOAc]) were optimized with same basis set and ascertained the frequencies to be minima. Also, employed counter poise method ^{S4} for basis set superimposition error for obtaining binding energies for anion bound complexes. Over the years, polarized continuum model (PCM) ^{S5} has been reported to be the most successful and cost-effective model to examine the solvent effect. We have used dichloromethane as solvent. Further, the time dependent density functional theory (TD-DFT) ^{S6} has been used to compute the electronic absorption spectra, singlet vertical excitation energies and oscillator strengths on the ground state optimized geometries of **10,11** and **12**. Further, predicted ¹H NMR Nuclear Independent Chemical Shifts (NICS) values^{7a} with gauge independent atomic orbital (GIAO) method^{7b, c} were obtained at the same level of theory with tetramethylsilane as standard reference. All computations were carried out with Gaussian 16 program package. ^{S8} Electronic structure, excitation analysis was performed using chemcraft, and Multiwfn programs. ^{S9}

References:

S1 P. Job, Ann. Chim. Appl., 1928, 9, 113–203.

S2 (a) A. D. Becke, *J. Chem. Phys.*, 1993, **98**, 1372–1377; (b) A. D. Becke, *J. Chem. Phys.*, 1992, **96**, 2155–2160; (c) C. Lee, W. Yang and R. G. Parr, *Physical review B.*, 1988, **37**, 785–789.

S3 (a) P. J. Hay and W. R. Wadt, *J. Chem. Phys.*, 1985, **82**, 270–283; (b) W. R. Wadt and P. J. Hay, *J. Chem. Phys.*, 1985, **82**, 284–298; (c) T. H. Dunning and P. J. Hay, Gaussian basis sets for molecular calculations. *In Methods of electronic structure theory*. Springer: 1977, 1–27.

S4 S. F. Boys and F. Bernardi, *Mol Phys.*, 1970, **19**, 553–566.

S5 (a) S. Miertus and J. Tomasi, *Chem. Phys.*, 1982, **65**, 239–245; (b) M. Cossi and V. Barone, *Chem. Phys.*, 2000, **112**, 2427–2435.

S6 (a) C. Adamo and D. Jacquemin, *Chem. Soc. Rev.,* 2013, **42**, 845–856; (b) G. Scalmani, M. J. Frisch, B. Mennucci, J. Tomasi, R. Cammi and V. Barone, *J. Chem. Phys.,* 2006, **124**, 1–15.

S7 (a) P. v. R. Schleyer, C. Maerker, A. Dransfeld, H. Jiao and N. J. R. van Eikema Hommes, *J. Am. Chem. Soc.*, 1996, **118**, 6317–6318; (b) K. Wolinski, J. F. Hinton and P. Pulay, *J. Am. Chem. Soc.*, 1990, **112**, 8251–8260; (c) F. London, *J. phys. Radium.*, 1937, **8**, 397–409.

S8 M. J. Frisch, G. W. Trucks, H. B. Schlegel, G. E. Scuseria, M. A. Robb, J. R. Cheeseman, G. Scalmani, V. Barone, G. A. Petersson, H. Nakatsuji, X. Li, M. Caricato, A. V. Marenich, J. Bloino, B. G. Janesko, R. Gomperts, B. Mennucci, H. P. Hratchian, J. V. Ortiz, A. F. Izmaylov, J. L. Sonnenberg, D. Williams-Young, F. Ding, F. Lipparini, F. Egidi, J. Goings, B. Peng, A. Petrone, T. Henderson, D. Ranasinghe, V. G. Zakrzewski, J. Gao, N. Rega, G. Zheng, W. Liang, M. Hada, M. Ehara, K. Toyota, R. Fukuda, J. Hasegawa, M. Ishida, T. Nakajima, Y. Honda, O. Kitao, H. Nakai, T. Vreven, K. Throssell, Jr. J. A. Montgomery, J. E. Peralta, F. Ogliaro, M. J. Bearpark, J. J. Heyd, E. N. Brothers, K. N. Kudin, V. N. Staroverov, T. A. Keith, R. Kobayashi, J. Normand, K. Raghavachari, A. P. Rendell, J. C. Burant, S. S. Iyengar, J. Tomasi, M. Cossi, J. M. Millam, M. Klene, C. Adamo, R. Cammi, J. W. Ochterski, R. L. Martin, K. Morokuma, O. Farkas, J. B. Foresman and D. J. Fox, *Gaussian 16 Rev. C.01*, Wallingford, CT, 2016.

S9 (a) Chemcraft - graphical software for visualization of quantum chemistry computations. Version 1.8, build 654. <u>https://www.chemcraftprog.com</u>.; (b) T. Lu and F. Chen, *J. Comput. Chem.;* 2012, **33**, 580–592; (c) T. Lu and Q. Chen, *Theor. Chem. Acc.*, 2020, **139**, 25.

S10 H. Rath, A. Mallick, T. Ghosh and A. Kalita, Chem. Commun., 2014, 50, 9094–9096.

S11 (a) N. Halder, M. Sangeetha, D. Usharani and H. Rath, *J. Org. Chem.*, **2020**, **85**, 2059–2067; (b) N. Halder, M. Sangeetha, D. Usharani and H. Rath, *J. Org. Chem.*, **2021**, **86**, 8015–8026.

S12 B. Chakraborty, S. Sahoo, R. Naryanasamy, D. Usharani and H. Rath, *Dalton Trans.* 2021, **50**, 14421–14431.



Calix[4]pyrrole

Chart S1. Structural relationship between Calixpyrrole- -calixphyrin -porphyrin



Chart S2. Literature known N-confused calixphyrins

2.0 Synthesis:



Scheme S1. Synthesis of all precursors 2, ^{S10} 6, ^{S11} and 9 ^{S12} used for the macrocycles reported in the manuscript



Scheme S2. Calixphyrins 10-12 as anion receptors [anion-receptor association (deprotonation)]

Synthesis of **10**: Tripyrrane **6** (0.463 g, 1 mmol) and diol **2** (0.380 g, 1 mmol) were taken in a round bottom flask, to it 740 mL of dry DCM was added and stirred for 15 minutes under nitrogen atmosphere to get a clear solution. After that *p*-Toluenesulfonic acid (0.035 g, 0.185 mmol) was added to the reaction mixture and stirred for 90 minutes under dark condition. After that, *p*-chloranil (0.368 g, 1.5 mmol) was added and the resulting mixture was refluxed for 90 minutes in open air. After complete removal of solvent from reaction mixture by rotary evaporator, the compound was filtered through a short pad of basic alumina column. The crude mixture was purified by silica gel (200-400 mesh) column chromatography using 80% dichloromethane/hexane as eluent. The red colored **10** collected from column was evaporated and recrystallized from CH₂Cl₂/Hexane yielding **10** as red crystalline solid.

[**10**] Yield. ~240 mg (~30%). Mp > 350°C. R_f = 0.4 (C₆H₁₄/CH₂Cl₂ = 80:20). HRMS (ESI-TOF) *m/z* calc. for C₄₉H₃₃F₄N₃S₂ [M]⁺, 803.2052; found, 803.2050. Elemental analysis Calc. for C₄₉H₃₃F₄N₃S₂: C, 73.21; H, 4.14; N, 5.23. Found: C, 73.68; H, 4.21; N, 5.18. UV-vis (CH₂Cl₂, λ [nm], (ϵ [M⁻¹cm⁻¹ × 10⁴]), 298K): 330 (2.53), 442 (1.15), 515 (0.84). ¹H NMR (CDCl₃, 400 MHz): δ 8.54 (s, 1H), 7.60 (d, *J* = 7.9 Hz, 2H), 7.28 (s, 1H), 7.23 – 7.15 (m, 3H), 7.14 (s, 1H), 7.07 (d, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 7.0 Hz, 2H), 7.28 (s, 1H), 7.23 – 7.15 (m, 3H), 7.14 (s, 1H), 7.07 (d, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 7.0 Hz, 2H), 7.28 (s, 1H), 7.23 – 7.15 (m, 3H), 7.14 (s, 1H), 7.07 (d, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 7.0 Hz, 2H), 7.28 (s, 1H), 7.23 – 7.15 (m, 3H), 7.14 (s, 1H), 7.07 (d, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 7.0 Hz, 2H), 7.28 (s, 1H), 7.23 – 7.15 (m, 3H), 7.14 (s, 1H), 7.07 (d, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 7.0 Hz, 2H), 7.28 (s, 1H), 7.23 – 7.15 (m, 3H), 7.14 (s, 1H), 7.07 (d, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 7.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.86 (m, 5H), 6.80 (t, *J* = 8.0 Hz, 2H), 6.94 – 6.96 (m, 6H), 6.94 – 6.9

8.6 Hz, 1H), 6.68 (s, 1H), 6.12 (br, 2H), 6.06 (br, 1H), 6.05 (br, 1H), 5.78 (br, 1H), 5.76 (s, 1H, *meso*-CH), 5.7 (s, 1H, *meso*-CH), 3.05 (s, 3H, N-Me), 2.40 (s, 3H, Tol-Me), 2.30 (s, 3H, Tol-Me). ¹³C {¹H} NMR (CDCl₃, 101 MHz): δ 162.54, 160.09, 160.0, 151.02, 141.83, 139.33, 136.98, 136.44, 135.94, 135.81, 134.56, 132.54, 131.50, 129.83, 129.65, 129.44, 129.24, 128.90, 128.79, 128.52, 128.22, 127.69, 126.51, 126.40, 126.25, 125.83, 120.93, 119.79, 118.54, 117.52, 115.75, 112.81, 112.38, 112.35, 112.13, 112.10, 111.68, 111.59, 111.46, 111.40, 109.65, 109.59, 109.31, 107.19, 46.85, 34.42, 33.00, 21.38, 21.10.

Synthesis of **11**: Tripyrrane **9** (0.449 g, 1 mmol) and diol **2** (0.380 g, 1 mmol) were taken in a round bottom flask, to it 740 mL of dry DCM was added and stirred for 15 minutes under nitrogen atmosphere to get a clear solution. After that *p*-Toluenesulfonic acid (0.035 g, 0.185 mmol) was added to the reaction mixture and stirred for 90 minutes under dark condition. After that, *p*-chloranil (0.368 g, 1.5 mmol) was added and the resulting mixture was refluxed for 90 minutes in open air. After complete removal of solvent from reaction mixture by rotary evaporator, the compound was filtered through a short pad of basic alumina column. The crude mixture was purified by silica gel (200-400 mesh) column chromatography using dichloromethane/hexane as eluent. The red colored **11** collected from column were evaporated and recrystallized from CH₂Cl₂/Hexane yielding **11** as red crystalline solid.

[11] Yield. ~198 mg (~25%), Mp> 350°C. R_f = 0.3 (EtOAc/CH₂Cl₂ = 1:9). HRMS (ESI-TOF) *m/z* calc. for C₄₈H₃₁F₄N₃S₂ [M]⁺, 789.1896; found, 789.1895. Elemental analysis Calc. for C₄₈H₃₁F₄N₃S₂: C, 72.99; H, 3.96; N, 5.32. Found: C, 73.11; H, 4.12; N, 5.29. UV-vis (CH₂Cl₂, λ [nm], (ϵ [M⁻¹ cm⁻¹ × 10⁴]), 298K): 333 (1.01), 455 (0.48), 541 (0.32). [**11**] ¹H NMR (CDCl₃,600 MHz): δ 8.63 (s, 1H), 8.46 (s, 1H), 7.58 (d, *J* = 7.9 Hz, 2H), 7.38 – 7.30 (m, 4H), 7.18 (s, 1H), 7.12 (d, *J* = 7.7 Hz, 2H), 7.09 (s, 1H), 7.02 (br, 2H), 6.93 (br, 3H), 6.87 (d, *J* = 5.9 Hz, 1H), 6.84 (s, 1H), 6.06 (d, *J* = 5.4 Hz, 1H), 6.04 (s, 1H), 5.92 (br, 1H), 5.73 (s, 1H, *meso*-CH), 5.66 (s, 1H, *meso*-CH), 5.34 (br, 1H), 2.42 (s, 3H, Tol-Me), 2.35 (s, 3H, Tol-Me). ¹³C {¹H} NMR (CDCl₃, 151 MHz): δ 160.34, 153.50, 141.39, 138.71, 137.81, 137.35, 136.66, 136.57, 134.98, 132.71, 130.90, 130.29, 130.23, 129.91, 129.37, 129.32, 129.13, 128.96, 128.67, 128.58, 128.50, 128.41, 128.33, 128.27, 126.58, 126.25, 124.97, 122.42, 118.92, 117.99, 117.93, 116.50, 114.60, 114.21, 112.20, 112.03, 112.02, 111.89, 111.73, 111.57, 108.70, 108.62, 105.93, 104.19, 46.54, 33.30, 21.42, 21.22.

Synthesis of **12**: **11** (0.078 g, 1 mmol) was taken in a round bottom flask, to it 10 mL of dry CH_2Cl_2 and *p*-chloranil (0.245 g, 1 mmol) [or DDQ, 0.272 g, 1mmol] was added and stirred under reflux for 1 hour in air. The reaction mixture was evaporated in a rotary evaporator and was purified by silica gel column chromatography followed by recrystallization from $CH_2Cl_2/Hexane$ to obtain compounds **12** as air stable brownish black solid Yield. ~71 mg (~90%).

[12] Yield. ~71 mg (~90%), Mp> 350°C. $R_f = 0.4$ ($C_6H_{14}/CH_2CI_2 = 20:80$). HRMS (ESI-TOF) *m/z* calc. for $C_{48}H_{30}F_4N_3S_2$ [M+H]⁺, 788.1817; found, 788.1818. Elemental analysis Calc. for $C_{48}H_{29}F_4N_3S_2$: C, 73.17; H, 3.71; N, 5.33. Found: C, 73.78; H, 3.87; N, 5.29. UV-vis (CH_2CI_2 , λ [nm], (ϵ [M⁻¹ cm⁻¹ × 10⁴]), 298K): 333 (0.80), 445 (1.26), 637 (0.16). ¹H NMR (600 MHz, Chloroform-*d*) δ 8.23 (s, 1H), 7.56 (d, *J* = 8.1 Hz, 1H), 7.38 (d, *J* = 6.6 Hz, 4H), 7.25-7.19 (m, 4H), 7.16 (s, 1H), 6.94 (t, *J* = 8.5 Hz, 3H), 6.89 (t, *J* = 8.0 Hz, 1H), 7.38 (d, *J* = 6.6 Hz, 4H), 7.25-7.19 (m, 4H), 7.16 (s, 1H), 6.94 (t, *J* = 8.5 Hz, 3H), 6.89 (t, *J* = 8.0 Hz, 1H), 7.38 (d, *J* = 6.6 Hz, 4H), 7.25-7.19 (m, 4H), 7.16 (s, 1H), 6.94 (t, *J* = 8.5 Hz, 3H), 6.89 (t, *J* = 8.0 Hz, 1H), 7.38 (d, *J* = 6.6 Hz, 4H), 7.25-7.19 (m, 4H), 7.16 (s, 1H), 6.94 (t, *J* = 8.5 Hz, 3H), 6.89 (t, *J* = 8.0 Hz, 1H), 7.38 (d, *J* = 6.6 Hz, 4H), 7.25-7.19 (m, 4H), 7.16 (s, 1H), 6.94 (t, *J* = 8.5 Hz, 3H), 6.89 (t, *J* = 8.0 Hz, 1H), 7.38 (d, *J* = 6.6 Hz, 4H), 7.25-7.19 (m, 4H), 7.16 (s, 1H), 6.94 (t, *J* = 8.5 Hz, 3H), 6.89 (t, *J* = 8.0 Hz, 1H), 7.38 (d, *J* = 6.6 Hz, 4H), 7.25-7.19 (m, 4H), 7.16 (s, 1H), 6.94 (t, *J* = 8.5 Hz, 3H), 6.89 (t, *J* = 8.0 Hz, 1H), 7.38 (d, *J* = 6.6 Hz, 4H), 7.25-7.19 (m, 4H), 7.16 (s, 1H), 6.94 (t, *J* = 8.5 Hz, 3H), 6.89 (t, *J* = 8.0 Hz), 1H), 7.56 (d, *J* = 8.0 Hz), 1H = 8.5 Hz (s, 1H), 6.89 (t, *J* = 8.0 Hz), 1H = 8.5 Hz (s, 1H), 6.89 (t, *J* = 8.0 Hz), 1H = 8.5 Hz (s, 1H), 1H = 8.5 Hz (s, 1H), 1H = 8.5 Hz (s, 1Hz), 1H = 8.5 Hz (s,

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2H), 6.75 (d, *J* = 6.0 Hz, 1H), 6.53 (br, 1H), 5.95 (br, 2H), 5.87 (s, 1H), 5.85 (s, 1H), 5.68 (s, 1H, *meso*-CH), 2.41 (s, 3H, Tol-Me), 2.40 (s, 3H, Tol-Me). ¹³C {¹H} NMR (CDCl₃, 151 MHz): δ 167.48, 161.81, 161.02, 159.31, 157.15, 152.80, 149.52, 147.21, 144.69, 143.19, 142.33, 140.22, 139.85, 139.39, 138.28, 138.15, 137.97, 137.25, 135.33, 130.93, 130.05, 129.56, 129.46, 129.12, 128.66, 128.14, 128.07, 124.75, 124.60, 124.29, 124.12, 122.30, 121.88, 121.71, 120.47, 119.23, 114.21, 111.82, 111.79, 111.68, 111.65, 111.18, 111.03, 110.18, 95.76, 47.86, 21.44, 21.26.

3. Supplementary Data:

3.1 Mass Spectra







Fig. S2 HRMS Spectra of 11.



Fig.S3 HRMS Spectra of 12.





Fig. S4 UV-vis Spectra of 10.



Fig. S6 UV-vis Spectra of 12.



Fig. S7 UV-vis Spectral change induced upon change of solvent systems for receptor 10.



Fig. S8 UV-vis Spectral change induced upon change of solvent systems for receptor 11.



Fig. S9 UV-vis Spectral change induced upon change of solvent systems for receptor 12.



Fig. S10 Change in absorption spectrum of **10** (4.98 x 10⁻⁵ M) upon addition of TBABr (0.5 M) in CHCl₃ at 298 K.



Fig.S11 Change in absorption spectrum of **11** (9.08 x 10^{-5} M) upon addition of TBABr (0.5 M) in CHCl₃ at 298 K.



Fig. S12 Change in absorption spectrum of 12 (4.1 x 10^{-5} M) upon addition of TBABr (0.5 M) in CHCl₃ at 298 K.



Fig. S13 Change in absorption spectrum of 10 (4.98 x 10^{-5} M) upon addition of TBACI (0.5 M) in CHCl₃ at 298 K.



Fig. S14 Change in absorption spectrum of 11 (9.08 x 10^{-5} M) upon addition of TBACI (0.5 M) in CHCl₃ at 298 K.



Fig. S15 Change in absorption spectrum of 12 (4.10 x 10^{-5} M) upon addition of TBACI (0.5 M) in CHCl₃ at 298 K.



Fig. S16 Change in absorption spectrum of 10 (4.98 x 10^{-5} M) upon addition of TBAI (0.5 M) in CHCl₃ at 298 K.



Fig. S17 Change in absorption spectrum of 11 (9.08 x 10^{-5} M) upon addition of TBAI (0.5 M) in CHCl₃ at 298 K.



Fig. S18 Change in absorption spectrum of **12** (4.1 x 10^{-5} M) upon addition of TBAI (0.5 M) in CHCI₃ at 298 K.



Fig.S19 Change in absorption spectrum of 10 (4.98 x 10^{-5} M) upon addition of TBAH₂PO₄ (0.5 M) in CHCl₃ at 298 K.



Fig. S20 Change in absorption spectrum of **11** (9.08 x 10^{-5} M) upon addition of TBAH₂PO₄ (0.5 M) in CHCl₃ at 298 K.



Fig.S21 Change in absorption spectrum of **12** (4.1 x 10^{-5} M) upon addition of TBAH₂PO₄ (0.5 M) in CHCl₃ at 298 K.



Fig. S22 Change in absorption spectrum of **10** (4.98 x 10^{-5} M) upon addition of (TBA)₃HP₂O₇ (0.5 M) in CHCl₃ at 298 K.



Fig. S23 Change in absorption spectrum of **11** (9.08 x 10^{-5} M) upon addition of (TBA)₃HP₂O₇ (0.5 M) in CHCl₃ at 298 K.



Fig. S24 Change in absorption spectrum of 12 (4.1 x 10^{-5} M) upon addition of (TBA)₃HP₂O₇ (0.5 M) in CHCl₃ at 298 K.



Fig. S25 Color change induced upon addition of anions (excess equiv as the Bu_4N^+ salt) to receptor **10** in CHCl₃ at 298 K.



Fig. S26 Color change induced upon addition of anions (excess equiv as the Bu_4N^+ salt) to receptor **11** in CHCl₃ at 298 K.



Fig. S27 Color change induced upon addition of anions (excess equiv as the Bu_4N^+ salt) to receptor **12** in CHCl₃ at 298 K.



Fig. S28 (a) Change in absorption spectra of **10** (4.98 x 10^{-5} M) upon titration with TBAF (0.05 M) and (b) TBAOAc (0.1 M) in CHCl₃ at 298 K.



Fig. S28A Change in absorption spectra of **10** (4.98×10^{-5} M) upon titration of TBAF (0.05 M) (a) from 0-4.08 equiv of F⁻ addition and (b) 4.25-6.30 equiv F⁻ addition in CHCl₃ at 298 K. (c) and (d) show B-H plots of [**10-F**]⁻ and [**10**]⁻ respectively from UV-vis titration experiment to determine binding constant (Some data points in the figure deviated very marginally from the fitting curve. However, the overall fitting of the data points was reasonably good as clearly evident from the R² value of >0.98).



Fig. S28B Change in absorption spectra of **10** (4.98 x 10^{-5} M) upon titration of TBAOAc (0.1 M) (a) from 0-6.8 equiv of AcO⁻ addition and (b) 7.65-16.15 equiv AcO⁻ addition in CHCl₃ at 298 K. (c) and (d) show B-H plots of [**10-OAc**]⁻ and [**10**]⁻ respectively from UV-vis titration experiment to determine binding constant (Some data points in the figure deviated very marginally from the fitting curve. However, the overall fitting of the data points was reasonably good as clearly evident from the R² value of >0.98).



Fig. S29 (a) Change in absorption spectra of **11** (9.08 x 10⁻⁵ M) upon titration of TBAF (0.05 M) and (b) TBAOAc (0.1 M) in CHCl₃ at 298 K. (c) and (d) show B-H plots of [**11**-F]⁻ and [**11**-OAc]⁻ respectively from UV-vis titration experiment to determine binding constant for the formation of host-guest complex (Some data points in the figure deviated very marginally from the fitting curve. However, the overall fitting of the data points was reasonably good as clearly evident from the R₂ value of >0.98).



Fig. S30 (a) Change in absorption spectra of **12** (4.10 x 10^{-5} M) upon titration of TBAF (0.05 M) and (b) TBAOAc (0.1 M) in CHCl₃ at 298 K.



Fig. S30A Change in absorption spectra of **12** (4.10×10^{-5} M) upon titration of TBAF (0.05 M) (a) 0-1.76 equiv of F⁻ and (b) 1.98-3.52 equiv of F⁻ in CHCl₃ at 298 K. (c) and (d) show B-H plots of [**12**-F]⁻ and [**12**]⁻ respectively from UV-vis titration experiment to determine binding constant (Some data points in the figure deviated very marginally from the fitting curve. However, the overall fitting of the data points was reasonably good as clearly evident from the R² value of >0.98).



Fig. S30B Change in absorption spectra of **12** (4.10 x 10^{-5} M) upon titration of TBAOAc (0.1 M) (a) 0-15.6 equiv of AcO⁻ and (b) 16.8 - 25.2 equiv of AcO⁻ in CHCl₃ at 298 K. (c) and (d) show B-H plots of [**12**-OAc]⁻ and [**12**]⁻ respectively from UV-vis titration experiment to determine binding constant (Some data points in the figure deviated very marginally from the fitting curve. However, the overall fitting of the data points was reasonably good as clearly evident from the R² value of >0.98).



Fig. S31 Job Plot obtained for **11** (9.08 x 10⁻⁵ M in CHCl₃) on variation of its absorbance vs mole fraction of (a) F⁻ (1.0 x 10⁻⁵ M in CHCl₃) at λ_{max} = 541 nm; (b) AcO⁻ (1.0 x 10⁻⁵ M in CHCl₃) at λ_{max} = 541 nm.



Fig. S32 Competitive Assay experiments of (a) [**10**-TBAF] in the presence of other anions and (b) [**10**-TBAOAc] in the presence of other anions (Absorbance response upon addition of 10 equivalents of F^{-} , CI^{-} , Br^{-} , I^{-} , AcO^{-} , $H_2PO_4^{-}$ and $HP_2O_7^{3-}$ in the form of their TBA salts).



Fig. S33 Competitive Assay experiments of (a) [**11**-TBAF] in the presence of other anions and (b) [**11**-TBAOAc] in the presence of other anions (Absorbance response upon addition of 15 equivalents of $F_{,}$ CI, Br, I, AcO, H₂PO₄ and HP₂O₇³⁻ in the form of their TBA salts).



Fig. S34 Competitive Assay experiments of (a) [**12**-TBAF] in the presence of other anions and (b) [**12**-TBAOAc] in the presence of other anions (Absorbance response upon addition of 10 equivalents of F^{-} , CI^{-} , Br^{-} , I^{-} , AcO^{-} , $H_2PO_4^{-}$ and $HP_2O_7^{3-}$ in the form of their TBA salts).

3.3 NMR spectra:



Fig. S35 Low VT ¹H NMR spectra of **10** in CDCI_{3.}



S36 ¹H-¹H 2D COSY NMR spectra of **10** in CDCl₃ at 298 K.







Fig. S39 ¹³C-¹H 2D HSQC NMR spectra of **10** in CDCl₃ at 298 K.



Fig. S40 ¹³C-¹H 2D HMBC NMR spectra of **10** in CDCl₃ at 298 K.



Fig. S41 Completely assigned ¹H NMR spectra of **10** in CDCl₃ at 298 K.



Fig. S42 Low VT ¹H NMR spectra of **11** in CDCl₃.



Fig. S44 ¹H-¹H 2D ROESY NMR spectra of **11** in CDCl₃ at 298 K.



Fig. S46 ¹H-¹³C 2D HSQC NMR spectra of **11** in CDCl₃ at 298 K.



8.5 7.5 6.5 5.5 4.5 3.5 2.5 1.5 0.5 -0.5 f2 (ppm)

¹ H (ppm)	¹³ C (ppm)	¹ H (ppm)	¹³ C (ppm)	¹ H (ppm)	¹³ C (ppm)	¹ H (ppm)	¹³ C (ppm)
6.84 (c)	116.50 (7)	5.66 (j)	108.62 (<mark>3</mark>)	7.18 (i)	46.54 (<mark>22</mark>)	5.73 (k)	105.93 (<mark>2</mark>)
	118.92 (<mark>9</mark>)		117.93 (<mark>4</mark>)		126.58(<mark>21</mark>)		117.99 (1)
	136.66 (<mark>8</mark>)		116.50 (7)		136.57(<mark>19</mark>)		128.33(<mark>20</mark>)
	141.39(10)		137.35 (6)	6.07 (<mark>h</mark>)	136.66(<mark>14</mark>)		132.71(<mark>19</mark>)
6.04(<mark>d</mark>)	137.35 (<mark>6</mark>)	6.87(<mark>g</mark>)	136.66 (14)		141.39(<mark>10</mark>)		
	141.39(10)		141.39(10)				

Fig. S47 ¹H-¹³C 2D HMBC NMR spectra of **11** in CDCl₃ at 298 K.



Fig. S48 Completely assigned ¹H NMR spectra of **11** in CDCl₃ at 298 K.


Fig. S50 ¹H-¹H 2D COSY NMR spectra of **12** in CDCl₃ at 298 K.



Fig. S52 ¹³C NMR spectra of **12** in CDCI₃ at 298 K.



7.16 (h)	124.12 (20)	5.85 (b)	110.03 (2)
6.75 (c)	135.33 (9)	5.68 (g)	47.86 (22)
5.95 (a, e)	110.18 (3), 121.88(12)	6.53 (d)	121.71 (7)
2.40-2.41 (j, k)	21.44 (24), 21.26 (23)		

Fig. S53 ¹H-¹³C 2D HSQC NMR spectra of **12** in CDCl₃ at 298 K.



8.5 7.5 6.5 5.5 4.5 3.5 2.5 1.5 0.5 -0.5 f2 (ppm)

¹ H (ppm)	¹³ C (ppm)	¹ H (ppm)	¹³ C (ppm)
7.16 (h)	138.28 (<mark>21</mark>)	5.95 (<mark>a, e</mark>)	139.44 (10)
	142.33 (18)		110.03 (2)
	149.52 (19)		128.14 (1)
6.75 (c)	121.71 (7)	5.68 (g)	124.12 (20)
	139.44 (10)		128.14 (1)
6.53 (<mark>d</mark>)	135.33 (9)		138.28 (<mark>21</mark>)
	139.44 (10)		149.52 (19)

Fig. S54 ¹H-¹³C 2D HMBC NMR spectra of **12** in CDCl₃ at 298 K.



Fig. S55 Completely assigned ¹H NMR spectra of **12** in CDCl₃ at 263 K.



Fig. S56 ¹H NMR spectral pattern of TBAF in CDCl₃ at 298 K.



Fig. S57 ¹H NMR spectral pattern observed upon addition of TBAF (0.5 M) to **10** (1×10^{-2} M) in CDCl₃ at 298 K.



Fig. S58 Low VT ¹H NMR spectral pattern observed upon addition of TBAF (1.07 M) to **10** (1 × 10^{-2} M) in CDCl₃.



Fig. S59 ¹H NMR spectral pattern observed upon addition of TBAF (0.5 M) to **10** (1 × 10⁻² M) in CDCl₃ at 223 K.



Fig. S60 ¹H NMR spectral pattern observed upon addition of TBAF (0.5 M) to **11** (1×10^{-2} M) in CDCl₃ at 298 K.



Fig. S60A ¹H NMR spectral pattern observed upon addition of TBAF (1.07 M) to **11** (1 × 10⁻² M) in CDCl₃ at 298 K in deshielded region.



Fig. S61 ¹H NMR spectral pattern observed upon addition of TBAF (0.5 M) to **12** (1 × 10⁻² M) in CDCl₃ at 298 K.



Fig. S62 Low VT ¹H NMR spectral pattern observed upon addition of TBAF to 12 in CDCI_{3.}



Fig. S63 ¹H NMR spectral pattern observed upon addition of TBAF to **12** in CDCl₃ at 223 K.



Fig. S64 ¹H NMR spectral pattern of TBAOAc in CDCl₃ at 298 K.



Fig. S65 ¹H NMR spectral pattern observed upon addition of TBAOAc (0.9 M) to **10** (1 × 10⁻² M) in $CDCI_3$ at 298 K.



Fig. S66 ¹H NMR spectral pattern observed upon addition of TBAOAc (0.9 M) to **11** (1×10^{-2} M) in CDCl₃ at 298 K.



Fig. S66A ¹H NMR spectral pattern observed upon addition of TBAOAc to **11** in CDCl₃ at 298 K in the deshielded region.



Fig. S67 ¹H NMR spectral pattern observed upon addition of TBAOAc (0.9 M) to **12** (1 × 10^{-2} M) in CDCl₃ at 298 K.



Fig. S68 Comparative ¹⁹F NMR spectra for TBAF, **10** in CDCl₃ at 298 K and after addition of TBAF (0.5 M) to **10** (1×10^{-2} M) in CDCl₃ at 223 K (* at -80 to -40 ppm corresponds to unknown impurities in TBAF).



Fig. S69 Comparative ¹⁹F NMR spectra for TBAF, **11** in CDCI₃ at 298 K and after addition of TBAF (0.5 M) to **11** (1×10^{-2} M) in CDCI₃ at 298 K (* at -80 to -40 ppm corresponds to unknown impurities in TBAF).



Fig. S70 Comparative ¹⁹F NMR spectra for TBAF, **12** in CDCl₃ at 298 K and after addition of TBAF (0.5 M) to **12** (1×10^{-2} M) in CDCl₃ at 223 K (* at -80 to -40 ppm corresponds to unknown impurities in TBAF).

4. 0 Crystallographic Data

Table S1

Parameters	10
Chemical formula	$C_{49}H_{33}F_4N_3S_2$
Formula weight	803.2052
Temperature (K)	100
Crystal system	Triclinic
Space group	P -1
a (Å); α (°)	15.72(3); 94.031(19)
b (Å); β(°)	16.498(18); 100.44(4)
c (Å); γ (°)	18.03(2); 90.63(4)
V (Å3); Z	4586(11); 2
ρ (calc.) g m-3	1.226
μ (Mo K α) mm-1	0.227
2θmax (°)	26.454
R(int)	0.0900
Completeness to θ	0.991
Data / param.	18771/5816
GOF	0.919
R1 [F>4σ(F)]	0.0900
wR2 (all data)	0.2839
max. peak/hole (e.Å ⁻³)	0.414/-0.349
CCDC	2252846



Fig. S71 Crystal structure of **10** (a: top view; b: side view, c: tabulated dihedral angles) Tp ring: [5.5.5.5] tetracyclic ring



Fig. S72 Crystal structure of **10** showing strong π - π stacking interaction.

5. Theoretical Calculation



Fig. S73 DFT optimised geometries and key bond length parameters (Å) of **10-12**, at B3LYP/6-31G** level of theory.



Fig. S74 ¹H NMR chemical shifts of DFT optimised geometries of **10-12**, at B3LYP/6-31G** level of theory.



Fig. S75 DFT optimised geometries and key bond length parameters (Å) of (a) $[10]^{-}$, (b) $[12]^{-}$, (c & d) $[11-F]^{-}$, (e & f) $[11-AcO]^{-}$ at B3LYP/6-31G^{**} level of theory.



Fig. S76 DFT optimised geometries and key bond length parameters (Å) of (a) [**10**]⁻**TBA**⁺ (b) [**12**]⁻**TBA**⁺ at B3LYP/6-31G^{**} level of theory.



Fig. S77 DFT optimised geometries and key bond length parameters (Å) of (a) **11-TBAF** (b) **11-TBOAc** at B3LYP/6-31G** level of theory.



Fig. S78 Steady state absorption spectrum (total) and individual transitions that are predicted from TD-DFT calculation with solvent (dichloromethane using a polarizable continuum model) and at B3LYP/ 6-31G** level of theory for **10-12**.



Fig. S79 Steady state absorption spectrum (total) and individual transitions that are predicted from TD-DFT calculation with solvent (dichloromethane using a polarizable continuum model) and at B3LYP/ 6- $31G^{**}$ level of theory for [10]⁻, [11-F_a]⁻, [11-OAC_a]⁻ and [12]⁻.

	Energy	Wavelength	Oscillator		
No.	(eV)	(nm)	Strength	Symmetry	Major contributions
1	2.2106	560.86	0.36130	Singlet-A	H -> L 97.7%
2	2.7553	449.98	0.25470	Singlet-A	H-1 -> L 90.7%
3	3.0242	409.97	0.02130	Singlet-A	H-2 -> L 92.9%
4	3.4435	360.05	0.23570	Singlet-A	H -> L+1 48.5%, H-3 -> L 38.4%, H-4 -> L 5.4%
5	3.4792	356.36	0.09850	Singlet-A	H-3 -> L 53.4%, H -> L+1 22.7%, H-4 -> L 14.9%
6	3.6480	339.87	0.43420	Singlet-A	H-4 -> L 54.1%, H -> L+1 22.2%, H -> L+3 8.5%, H -> L+2 8.1%
7	3.6645	338.34	0.01380	Singlet-A	H -> L+3 61.6%, H-4 -> L 17.6%, H -> L+2 9.9%, H-5 -> L 7.7%
8	3.6907	335.94	0.15960	Singlet-A	H -> L+2 73.3%, H -> L+3 13.3%, H-5 -> L 5.2%
9	3.8047	325.87	0.01910	Singlet-A	H-5 -> L 71.2%, H -> L+3 13.0%, H -> L+9 5.8%
10	3.9246	315.92	0.01270	Singlet-A	H -> L+5 58.2%, H -> L+7 22.4%, H -> L+6 8.0%
11	3.9703	312.28	0.00660	Singlet-A	H -> L+6 75.7%, H -> L+5 6.9%, H-8 -> L 6.2%
12	4.0223	308.24	0.00800	Singlet-A	H-6 -> L 74.9%, H -> L+4 17.1%
13	4.0284	307.78	0.00340	Singlet-A	H -> L+4 71.8%, H-6 -> L 17.0%
14	4.0770	304.11	0.01140	Singlet-A	H -> L+7 50.6%, H -> L+5 24.1%, H -> L+8 9.2%
15	4.1182	301.06	0.14530	Singlet-A	H-1 -> L+1 62.3%, H-7 -> L 12.4%, H -> L+9 7.9%
16	4.1461	299.04	0.04970	Singlet-A	H-7 -> L 67.1%, H-1 -> L+1 14.7%, H-13 -> L 5.4%
17	4.1501	298.75	0.00090	Singlet-A	H -> L+8 83.5%, H -> L+7 13.8%
18	4.1596	298.07	0.01840	Singlet-A	H-8 -> L 83.7%, H -> L+6 6.5%
19	4.2022	295.05	0.06550	Singlet-A	H -> L+9 56.8%, H-12 -> L 12.7%, H-1 -> L+1 7.3%
20	4.2567	291.27	0.02990	Singlet-A	H-1 -> L+2 77.4%, H-2 -> L+2 11.1%

Table S2: Summary of UV-vis spectral data of **10** that is predicted from TD-DFT calculation in presence of dichloromethane solvent and at B3LYP/ 6-31G (d, p) level of theory.

	Energy	Wavelength	Oscillator		
No.	(eV)	(nm)	Strength	Symmetry	Major contributions
1	2.2455	552.15	0.35390	Singlet-A	H -> L 97.2%
2	2.7682	447.89	0.26960	Singlet-A	H-1 -> L 91.2%
3	3.0816	402.34	0.03150	Singlet-A	H-2 -> L 93.8%
4	3.4763	356.66	0.04350	Singlet-A	H-3 -> L 91.5%
5	3.4848	355.79	0.31330	Singlet A	H -> L+1 64.4%, H-4 -> L 16.9%, H -> L+2
5				Singlet-A	12.3%
6	3.6744	337.43	0.29610		H-4 -> L 43.7%, H -> L+1 29.4%, H ->
0				Singlet-A	L+2 16.7%, H -> L+3 6.0%
7	3.6930	335.73	0.07190		H -> L+3 33.5%, H -> L+2 31.6%, H-4 -> L
/				Singlet-A	29.1%
8	3.7105	334.14	0.21630	Singlet-A	H -> L+3 49.9%, H -> L+2 37.1%
0	3.8702	320.36	0.01320		H-5 -> L 69.3%, H -> L+9 8.0%, H -> L+3
9				Singlet-A	7.5%
10	3.9488	313.98	0.01010	Singlet-A	H -> L+5 51.8%, H -> L+7 35.2%
11	4.0041	309.64	0.00510	Singlet-A	H -> L+6 76.6%, H-8 -> L 7.5%
12	4.0512	306.04	0.00070	Singlet-A	H -> L+4 95.7%
13	4.0659	304.94	0.00240	Singlet-A	H-6 -> L 90.9%, H-5 -> L 5.2%
1.4	4.0970	302.62	0.04100		H -> L+7 36.5%, H -> L+5 26.3%, H-1 ->
14				Singlet-A	L+1 18.2%
1.5	4.1248	300.58	0.10640	C : 1 / 1	H-1 -> L+1 58.2%, H -> L+7 13.9%, H ->
15				Singlet-A	L+5 10.6%, H -> L+9 5.9%
16	4.1650	297.68	0.01340	Singlet-A	H-8 -> L 83.0%, H -> L+6 7.7%
	4.1783	296.73	0.00060		H -> L+8 75.1%, H-7 -> L 7.6%, H -> L+7
17				Singlet-A	5.4%
10	4.1808	296.56	0.00800		H-7 -> L 37.8%, H -> L+9 15.0%, H -> L+8
18				Singlet-A	14.3%, H-12 -> L 12.3%,
	4.2306	293.07	0.00130		H-1 -> L+2 72.6%, H-7 -> L 6.9%, H-2 ->
19		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Singlet-A	L+2 6.7%
	4.2778	289.83	0.06650		H -> L+9 41.1%, H-7 -> L 29.3%, H-1 ->
20				Singlet-A	L+2 10.3%

Table S3: Summary of UV-vis spectral data of **11** that is predicted from TD-DFT calculation in presence of dichloromethane solvent and at B3LYP/ 6-31G (d, p) level of theory.

	Energy	Wavelength	Oscillator		
No.	(eV)	(nm)	Strength	Symmetry	Major contributions
1	1.6299	760.69	0.19980	Singlet-A	H -> L 97.9%
2	2.1838	567.75	0.26260	Singlet-A	H-1 -> L 66.9%, H -> L+1 30.7%
3	2.3249	533.29	0.14940	Singlet-A	H -> L+1 58.5%, H-1 -> L 27.1%, H-2 -> L 12.6%
4	2.8489	435.20	0.27900	Singlet-A	H-1 -> L+1 55.5%, H-2 -> L 37.6%
5	2.9109	425.93	0.17170	Singlet-A	H-3 -> L 33.5%, H-2 -> L 30.5%, H-1 -> L+1 25.4%
6	3.0391	407.96	0.19600	Singlet-A	H-3 -> L 61.8%, H-2 -> L 17.1%, H-1 -> L+1 11.1%
7	3.2383	382.87	0.04890	Singlet-A	H-4 -> L 90.0%
8	3.3404	371.17	0.02760	Singlet-A	H-2 -> L+1 91.2%
9	3.4460	359.79	0.05060	Singlet-A	H-5 -> L 82.0%, H -> L+2 8.9%
10	3.4645	357.87	0.43570	Singlet-A	H -> L+2 75.2%, H-5 -> L 11.7%
11	3.6234	342.18	0.00310	Singlet-A	H-9 -> L 97.2%
12	3.6564	339.09	0.00240	Singlet-A	H-6 -> L 93.5%
13	3.6661	338.19	0.00290	Singlet-A	H -> L+3 87.5%
14	3.6916	335.85	0.05910	Singlet A	H-10 -> L 33.1%, H-11 -> L 18.6%, H-14 -> L
14				Singlet-A	11.0%, H -> L+4 7.8%, H-8 -> L 7.6%,
15	3.7092	334.26	0.26540	Singlet A	H-3 -> L+1 48.4%, H -> L+4 17.5%, H-4 ->
15				Singlet-A	L+1 8.8%, H-10 -> L 6.8%
16	3.7175	333.51	0.07150	Singlet A	H-8 -> L 35.7%, H-12 -> L 30.9%, H -> L+4
10				Singlet-A	11.2%, H-3 -> L+1 10.2%
17	3.7359	331.87	0.06030	Singlet A	H-3 -> L+1 24.1%, H -> L+4 21.9%, H-11 ->
1 /				Singlet-A	L 18.9%, H-8 -> L 14.4%, H-10 -> L 8.0%
18	3.7820	327.83	0.04560	Singlet A	H-11 -> L 31.0%, H -> L+4 22.9%, H-8 -> L
10				Singlet-A	20.1%, H-10 -> L 13.8%
10	3.8060	325.76	0.01150	Singlet_A	H-12 -> L 40.4%, H-8 -> L 18.5%, H-11 -> L
19				Singlet-A	12.9%, H -> L+4 10.7%, H-10 -> L 7.6%
20	3.8394	322.93	0.00060	Singlet-A	H-7 -> L 89.0%

Table S4: Summary of UV-vis spectral data of **12** that is predicted from TD-DFT calculation in presence of dichloromethane solvent and at B3LYP/ 6-31G (d, p) level of theory.

	Energy	Wavelength	Oscillator		
No.	(eV)	(nm)	Strength	Symmetry	Major contributions
1	1.6749	740.25	0.01600	Singlet-A	H -> L 99.7%
2	2.0600	601.87	0.32760	Singlet-A	H-1 -> L 98.5%
3	2.2941	540.45	0.06570	Singlet-A	H-2 -> L 97.2%
4	2.7367	453.04	0.20840	Singlet-A	H-3 -> L 94.4%
5	3.1105	398.60	0.06460	Singlet-A	H-5 -> L 63.1%, H-4 -> L 33.1%
6	3.1481	393.84	0.02630	Singlet-A	H-4 -> L 45.8%, H-5 -> L 24.1%, H -> L+2 15.0%, H -> L+3 10.6%
7	3.1633	391.95	0.08210	Singlet-A	H -> L+3 42.1%, H -> L+2 28.6%, H-4 -> L 18.7%, H-5 -> L 7.9%
8	3.1952	388.03	0.00640	Singlet-A	H -> L+1 71.0%, H -> L+3 16.1%, H -> L+2 8.5%
9	3.2453	382.04	0.01070	Singlet-A	H -> L+2 38.7%, H -> L+3 26.7%, H -> L+1 25.0%
10	3.3531	369.76	0.08170	Singlet-A	H-6 -> L 74.6%, H-1 -> L+1 13.4%, H-1 -> L+2 6.9%
11	3.3988	364.79	0.02130	Singlet-A	H-1 -> L+1 82.5%, H-6 -> L 13.4%
12	3.4795	356.33	0.03150	Singlet-A	H -> L+6 66.9%, H -> L+5 25.8%
13	3.4890	355.36	0.01620	Singlet-A	H -> L+5 55.2%, H -> L+6 31.5%, H-1 -> L+2 5.2%
14	3.5016	354.08	0.40200	Singlet-A	H-1 -> L+2 77.9%, H -> L+5 7.6%, H-6 -> L 5.7%
15	3.5521	349.04	0.00700	Singlet-A	H -> L+4 80.3%, H-1 -> L+4 8.4%, H -> L+5 5.3%
16	3.6082	343.62	0.00280	Singlet-A	H -> L+7 85.5%, H -> L+8 8.8%
17	3.6443	340.21	0.02010	Singlet-A	H-1 -> L+4 78.6%, H -> L+8 8.5%, H -> L+4 6.3%
18	3.6562	339.11	0.00380	Singlet-A	H-1 -> L+5 63.5%, H-1 -> L+3 26.8%
19	3.6632	338.46	0.00250	Singlet-A	H -> L+8 64.6%, H -> L+9 16.4%, H-1 -> L+4 6.0%
20	3.6949	335.55	0.00860	Singlet-A	H-1 -> L+3 55.3%, H-1 -> L+5 30.6%, H-2 -> L+3 9.4%

Table S5: Summary of UV-vis spectral data of [**10**]⁻ that is predicted from TD-DFT calculation in presence of dichloromethane solvent and at B3LYP/ 6-31G (d, p) level of theory.

	Energy	Wavelength	Oscillator		
No.	(eV)	(nm)	Strength	Symmetry	Major contributions
1	2.0549	603.36	0.41210	Singlet-A	H -> L 99.0%
2	2.5708	482.28	0.12190	Singlet-A	H-1 -> L 94.4%
3	2.9575	419.22	0.04610	Singlet-A	H-2 -> L 54.9%, H-3 -> L 36.0%
4	3.0619	404.93	0.00690	Singlet-A	H-3 -> L 55.4%, H-2 -> L 39.7%
5	3.1605	392.29	0.30250	Singlet_A	H -> L+1 64.1%, H -> L+3 14.3%, H -> L+2
5				Singlet-A	10.5%, H-3 -> L 5.3%
6	3.2474	381.80	0.34270	Singlet-A	H -> L+3 82.8%, H -> L+1 12.8%
7	3.2712	379.02	0.10260	Singlet-A	H -> L+2 83.2%, H -> L+1 14.1%
8	3.4688	357.43	0.00570	Singlet-A	H -> L+7 91.2%, H-4 -> L 6.1%
0	3.4902	355.24	0.00490	Singlet A	H -> L+8 54.9%, H -> L+4 19.2%, H -> L+6
7				Singlet-A	9.9%, H-4 -> L 8.9%
10	3.5209	352.14	0.04180	Singlet-A	H-4 -> L 70.5%, H -> L+8 8.7%, H -> L+9 6.5%
11	3.5476	349.49	0.00040	Singlet-A	H -> L+4 73.6%, H -> L+8 25.2%
12	3.5697	347.32	0.00240	Singlet-A	H -> L+5 95.8%
13	3.5767	346.64	0.00080	Singlet-A	H -> L+6 88.2%, H -> L+8 8.1%
14	3.7438	331.17	0.13400	Singlet A	H-1 -> L+1 67.0%, H -> L+9 16.4%, H-1 -> L+2
14				Singlet-A	8.0%
15	3.8190	324.65	0.05590	Singlet A	H-1 -> L+2 42.5%, H-1 -> L+1 23.0%, H-5 -> L
15				Singlet-A	20.1%, H -> L+9 8.8%
16	3.8471	322.28	0.20460	Singlet A	H-5 -> L 66.0%, H-1 -> L+2 20.1%, H-1 -> L+3
10				Singlet-A	8.9%
17	3.9093	317.15	0.04640	Singlet A	H-1 -> L+3 37.6%, H -> L+9 30.1%, H-1 -> L+2
1 /				Singlet-A	21.8%
18	3.9722	312.13	0.13300	Singlet A	H-1 -> L+3 47.8%, H -> L+9 29.1%, H-5 -> L
10				Singlet-A	6.6%, H-4 -> L 5.1%
19	4.0723	304.46	0.02060	Singlet-A	H-6 -> L 92.4%
20	4.0838	303.60	0.00510	Singlet-A	H -> L+10 77.5%, H-1 -> L+4 10.6%

Table S6: Summary of UV-vis spectral data of $[11-F_a]^-$ that is predicted from TD-DFT calculation inpresence of dichloromethane solvent and at B3LYP/ 6-31G (d, p) level of theory.

	Energy	Wavelength	Oscillator		
No.	(eV)	(nm)	Strength	Symmetry	Major contributions
1	2.1618	573.52	0.38340	Singlet-A	H -> L 98.3%
2	2.5850	479.63	0.17170	Singlet-A	H-1 -> L 95.6%
3	2.8277	438.46	0.00050	Singlet-A	H-2 -> L 98.9%
4	2.8770	430.95	0.05820	Singlet-A	H-3 -> L 92.0%
5	3.1394	394.93	0.03200	Singlet-A	H-4 -> L 76.1%, H-5 -> L 17.9%
6	3.2120	386.00	0.03720	Singlet-A	H-5 -> L 70.4%, H-4 -> L 22.2%
7	3.3878	365.97	0.24240	Singlet-A	H -> L+1 70.2%, H-7 -> L 14.1%, H-6 -> L 7.1%
8	3.4259	361.90	0.06940	Singlet-A	H-6 -> L 84.1%, H -> L+1 8.7%, H-5 -> L 5.7%
9	3.5118	353.05	0.23170	Singlet-A	H -> L+2 48.7%, H -> L+3 41.7%
10	3.5818	346.15	0.20840	Singlet-A	H-7 -> L 76.6%, H -> L+1 11.2%
11	3.6439	340.25	0.00940	Singlet-A	H -> L+3 52.2%, H -> L+2 42.8%
12	3.7527	330.39	0.03550	Singlet-A	H -> L+4 77.2%, H -> L+6 10.0%
13	3.7714	328.75	0.02530	Singlet-A	H -> L+5 57.9%, H-8 -> L 27.5%, H-9 -> L 5.7%
14	3.7994	326.33	0.06510	Singlet A	H-8 -> L 40.0%, H -> L+5 38.1%, H-9 -> L 6.9%, H ->
14				Singlet-A	L+9 5.3%
15	3.8783	319.69	0.10200	Singlet-A	H-9 -> L 74.5%, H-8 -> L 11.5%, H-1 -> L+1 9.0%
16	3.8963	318.21	0.07800	Singlet-A	H-1 -> L+1 66.8%, H -> L+6 10.5%, H-9 -> L 5.7%
17	3.9163	316.59	0.01550	Singlet A	H -> L+6 39.0%, H -> L+8 19.0%, H-1 -> L+1 15.5%,
1 /				Singlet-A	H -> L+4 12.6%, H -> L+7 8.7%
18	3.9465	314.16	0.00060	Singlet-A	H -> L+8 69.2%, H -> L+6 29.5%
19	3.9707	312.25	0.00260	Singlet-A	H -> L+7 88.7%, H -> L+6 5.7%
20	4.0056	309.53	0.00400	Singlet-A	H-1 -> L+2 50.0%, H-1 -> L+3 40.9%

Table S7: Summary of UV-vis spectral data of $[11-OAc_a]^-$ that is predicted from TD-DFT calculation in presence of dichloromethane solvent and at B3LYP/ 6-31G (d, p) level of theory.

Table S8: Total complexation energy (△Ecom(corr), kcal/mol), basis set superposition error (BSSE), total energy of complex and fragments (in a.u) and complex energy (raw, kcal/mol) for anion binding of **11**

B1/B3LYP/6-	-				_	
<u>31G**</u>	31G** Ecorr		Efrag	Ecom(raw)	Ecom_corr	
[11- F _a] ⁻	-3307.620716	0.050144587	-3307.420166	-157.31	-125.85	
$[11-OAc_a]^-$	-3436.306027	0.0133508	-3436.255947	-39.8	-31.43	
[11- TBAF]	-3993.750091	0.028606406	-3993.717755	-38.24	-20.29	
[11-TBOAc]	-4122.426704	0.012694878	-4122.405635	-21.19	-13.22	

	Energy	Wavelength	Oscillator		
No.	(eV)	(nm)	Strength	Symmetry	Major contributions
1	1.9073	650.05	0.46460	Singlet-A	H -> L 96.3%
2	2.1826	568.06	0.04870	Singlet-A	H-1 -> L 65.9%, H -> L+1 31.9%
3	2.4532	505.40	0.36120	Singlet-A	H -> L+1 63.8%, H-1 -> L 27.9%
4	2.6453	468.70	0.03290	Singlet-A	H-1 -> L+1 88.3%, H-2 -> L 6.7%
5	2.9007	427.43	0.20970	Singlet-A	H-2 -> L 80.6%
6	3.1093	398.75	0.05460	Singlet-A	H-3 -> L 82.2%
7	3.2385	382.84	0.03980	Singlet-A	H -> L+2 90.6%
8	3.3233	373.08	0.16000	Singlet-A	H -> L+3 85.8%
0	3.3807	366.74	0.09220	Simplet A	H-4 -> L 55.5%, H-2 -> L+1 20.8%, H -> L+4
9				Singlet-A	5.4%,
10	3.4113	363.45	0.06640	Singlet-A	H -> L+4 60.0%, H-2 -> L+1 27.7%
11	3.4253	361.97	0.04040		H-2 -> L+1 39.8%, H -> L+4 22.8%, H-4 -> L
11				Singlet-A	20.8%, H-3 -> L 5.2%, H-3 -> L+1 5.0%
12	3.5353	350.70	0.01580	Singlet-A	H -> L+5 95.0%
13	3.5481	349.44	0.00940	Singlet-A	H -> L+6 86.6%
14	3.5780	346.52	0.18330	Singlet-A	H-3 -> L+1 44.2%, H-1 -> L+2 34.7%
15	3.6322	341.35	0.15760		H-1 -> L+2 31.3%, H-3 -> L+1 21.5%, H-5 -> L
15				Singlet-A	16.7%, H-1 -> L+3 11.2%
16	3.6677	338.04	0.04020		H-1 -> L+3 63.2%, H-1 -> L+2 12.1%, H-3 -> L+1
10				Singlet-A	6.7%, H-5 -> L 6.0%
17	3.7329	332.14	0.11690		H-5 -> L 43.4%, H-1 -> L+3 10.0%, H-6 -> L 8.9%,
1/				Singlet-A	H-3 -> L+1 7.1%, H -> L+7 6.4%
18	3.7517	330.47	0.01390	Singlet-A	H -> L+7 83.1%, H-1 -> L+7 5.2%, H-5 -> L 5.1%
10	3.7580	329.92	0.05030		H-6 -> L 47.1%, H-7 -> L 13.6%, H-5 -> L 9.4%,
19				Singlet-A	H-1 -> L+3 9.3%
20	3.7960	326.62	0.01500	C ¹ 1 4	H-1 -> L+4 76.5%, H-4 -> L+1 6.2%, H -> L+4
20				Singlet-A	5.1%

Table S9: Summary of UV-vis spectral data of [**12**]⁻ that is predicted from TD-DFT calculation in presence of dichloromethane solvent and at B3LYP/ 6-31G (d, p) level of theory.



Fig. S80 HOMO-LUMO orbitals for DFT optimized structures of **10** (a), **11** (b), **12** (c) at B3LYP/6-31G** level of theory.

Table S10: Total energies, zero-point energies and free energy for macrocycles **10**,**11**,**12**, anion bound and deprotonated forms of **10-12**.

B1	Е	E+ZPE	G ΔE		$\Delta E + ZPE$	ΔG
10	-3247.070329	-3246.378544	-3246.463106			
11	-3207.761193	-3207.097103	-3207.181404			
12	-3205.82910	-3205.87527	-3205.96000			
gas phase						
[10]-	-3246.502322	-3245.826012	-3245.910866			
[11- F _a] ⁻	-3307.671551	-3307.009426	-3307.094097	0.00	0.00	0.00
[11- F _b] ⁻	-3307.654529	-3306.992622	-3307.07889	10.68	10.54	9.54
[11- OAc _a] ⁻	-3436.321352	-3435.608912	-3435.702436	0.00	0.00	0.00
[11- OAC _b] ⁻	-3436.300086	-3435.587352	-3435.679639	13.34	13.53	14.31
[12] ⁻	-3205.28853	-3205.33485	-3205.42028			
Solvent						
[11- F _a] ⁻	-3307.72619	-3307.064318	-3307.150118	0.00	0.00	0.00
[11- F _b] ⁻	-3307.711883	-3307.049555	-3307.134134	8.98	9.26	10.03
[11- OAc _a]-	-3436.382922	-3435.66994	-3435.763045	0.00	0.00	0.00
[11- OAC _b] ⁻	-3436.361337	-3435.6476	-3435.737134	13.54	14.02	16.26
[11- TBAF]	-3993.778698	-3992.606406	-3992.725182			
[11-TBOAC]	-4122.439399	-4121.217368	-4121.344117			

6. Cartesian Coordinates

All structures have zero imaginary frequencies, total energies are given in table S10

16	2 672158000	2 687226000	0.021021000
10	0.020026000	2.08/320000	-0.951021000
10	-0.220050000	1.555540000	-0.039230000
9	-0.542690000	-4./5/126000	-0.365510000
9	0.895093000	-2.262672000	3.383230000
9	-4.077108000	-0.272673000	0.846984000
9	-5.377748000	-2.494861000	-3.120839000
7	2.747848000	-0.915151000	0.105664000
7	-1.036365000	-1.177788000	-2.429533000
7	-2.975130000	1.538981000	-1.043663000
1	-2.863104000	1.190812000	-0.104495000
6	6.276439000	0.212299000	-0.274764000
6	6.872854000	1.472829000	-0.089634000
1	6.250684000	2.331668000	0.142896000
6	8 254111000	1 631141000	-0 160322000
1	8 683538000	2 617964000	-0.004560000
6	0.101315000	0.545405000	0.416410000
6	9.101313000	0.343493000	-0.410419000
1	0.129411000	-0./11241000	-0.399910000
I	9.138411000	-1.5/3361000	-0.806502000
6	7.128467000	-0.876550000	-0.538892000
1	6.698391000	-1.856123000	-0.723312000
6	4.825552000	0.038765000	-0.196078000
6	3.797087000	0.999925000	-0.439342000
6	2.540088000	0.423979000	-0.205748000
6	4.131623000	-1.118500000	0.188175000
6	10.596284000	0.727253000	-0.523927000
1	11.133948000	-0.164895000	-0.188074000
1	10.940302000	1.575107000	0.076008000
1	10.901994000	0.918216000	-1.560660000
6	1 485558000	1 356229000	-0 330158000
6	1 921016000	2 622675000	-0 726721000
6	2.056180000	2.022075000	0.720721000
6	2.030180000	2 803786000	1 168602000
1	2.018276000	-2.893780000	1.108092000
I	2.918376000	-3.83/80/000	1.010028000
6	4.332/34000	-2.3/62/4000	0.848924000
I	5.295538000	-2.820469000	1.05/800000
6	0.723925000	-2.370382000	0.540918000
6	-0.210035000	-1.847945000	-0.453363000
6	0.106006000	-1.515378000	-1.764730000
1	1.056439000	-1.545218000	-2.276046000
6	-2.121786000	-1.271055000	-1.561591000
6	-1.633951000	-1.705261000	-0.345714000
1	-2.215415000	-1.858621000	0.550174000
6	0.867821000	3.573005000	-0.863160000
1	1 002237000	4 595627000	-1 197870000
6	-0.360214000	3 042043000	-0 542543000
6	0.209434000	-3 434275000	1 444107000
6	0.207454000	4 584160000	0.065501000
6	-0.441223000	-4.384100000	1 701752000
1	-0.900313000	-3.309273000	1.791752000
I	-1.445036000	-6.4324/9000	1.343949000
0	-0.847821000	-5.420834000	3.1/3/29000
1	-1.250494000	-6.181338000	3.834858000
6	-0.211807000	-4.302121000	3.709535000
1	-0.108704000	-4.154559000	4.778349000
6	0.298617000	-3.342204000	2.843291000
6	-1.073429000	-0.818297000	-3.839646000
1	-0.069373000	-0.931598000	-4.250108000

1	-1.401656000	0.215041000	-3.970600000
1	-1.747423000	-1.481444000	-4.391153000
6	-3.489821000	-0.748285000	-1.990220000
1	-3.663807000	-1.080122000	-3.017030000
6	-4.651470000	-1.337796000	-1.193214000
6	-4.923657000	-1.079162000	0.151953000
6	-6.005271000	-1.606972000	0.844082000
1	-6.138186000	-1.352706000	1.889134000
6	-6 885324000	-2.448955000	0 165763000
1	-7 738226000	-2.871976000	0.685957000
6	-6 670494000	-2 749498000	-1 177827000
1	-7 332481000	-3 400503000	-1 736775000
6	-5 569295000	-2 192203000	-1 815763000
6	-1 743688000	3 682758000	-0.630264000
1	-1 606679000	4 615866000	-1 192823000
6	-2 638410000	2 799971000	-1 477336000
6	-3 448353000	0.770933000	-2 079303000
6	-3 501187000	1 594755000	-3 192381000
1	-3.83//88000	1.208813000	-4.178225000
6	-2.088068000	2 860012000	-4.178223000
1	2.988908000	2.809912000	2.813389000
6	-2.843030000	<i>4</i> 050660000	0 733/11000
6	-2.333278000	4.050009000	1 862806000
1	-1.558195000	4.203798000	1.802890000
6	-0.484077000	4.123770000	2 072758000
1	-2.120423000	4.001122000	3.073738000
6	-1.482730000	4.820422000	3.935508000
6	-3.300787000	4.855014000	2.065184000
1	-4.300070000	4.040122000	2.003184000
6	3 736020000	4.793177000	2.129241000
1	-3.730929000	4.249331000	0.033741000
6	-4.122077000	5 248650000	4 522105000
1	-4.122777000	<i>1</i> 365087000	5 110526000
1	-5.031601000	5 841595000	4 379714000
1	-3.427189000	5 835568000	5 129177000
1	-5.42/10/000	5.055500000	5.127177000
11		• • • • • • • • • • • •	
16	-3.582589000	-2.809046000	-0.796203000
16	0.299312000	-1.324824000	-0.126534000
9	0.269950000	4.82/826000	-0.8/6460000
9	-0.9349/6000	2.656/24000	3.143298000
9	3.866460000	0.333800000	0.892490000
9	5.604795000	2.4/140/000	-2.954028000
7	-2.761368000	0.874117000	0.029010000
7	1.097742000	1.014490000	-2.441299000
7	3.089464000	-1.499343000	-1.130599000
1	3.061189000	-1.209654000	-0.164755000
6	-6.250737000	-0.409125000	-0.215338000
6	-6.795337000	-1.673509000	0.072885000
l	-6.137188000	-2.489515000	0.355290000
6	-8.169977000	-1.889913000	0.030665000
l	-8.558425000	-2.8/9387000	0.259780000
6	-9.061520000	-0.859317000	-0.293081000
6	-8.519569000	0.399461000	-0.586935000
l	-9.184023000	1.215632000	-0.860996000
6	-/.146630000	0.621969000	-0.554912000

1	-6.756123000	1.596945000	-0.829438000	1	4.505693000	-4.126212000
6	-4.806102000	-0.176005000	-0.173803000	6	4.559931000	-5.195384000
6	-3.745631000	-1.108312000	-0.379310000	1	4.953623000	-4.315351000
6	-2.504021000	-0.475555000	-0.209397000	1	5.406918000	-5.860156000
6	-4.152302000	1.026527000	0.121883000	1	3.880934000	-5.706159000
6	-10.553628000	-1.089520000	-0.305104000	1	1.200026000	0.440796000
1	-11.000147000	-0.863416000	0.671751000			
1	-10.796644000	-2.130429000	-0.538742000	12		
1	-11.051450000	-0.452380000	-1.042613000	16	3.398107000	2.771267000
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16	2 622254000	2 710741000	0 977942000	1	-5.972300000	2 474610000	0.563441000
10	3.023334000	/ / ! ! ! ! ! ! ! ! ! ! ! ! ! !	-0.0 / / 04.0000	0		_ / # /#///////////////////////////////	11 11 144 11 11
17	0.20000/000	2.710741000	0.00770120000	1	7 600496000	2 970974000	1 127447000
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16 9 9 9 9	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000	1.255262000 -4.891803000 -2.440979000 -0.399829000 -2.572426000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000	1 6 1 6 6	-7.699486000 -6.745002000 -7.458915000 -5.665898000 -1.799541000	-2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000	1.137447000 -0.790791000 -1.310810000 -1.493223000 -0.770142000
16 9 9 9 9 7	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000	1.255262000 -4.891803000 -2.440979000 -0.399829000 -2.572426000 -0.942916000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000	1 6 6 1	-7.699486000 -6.745002000 -7.458915000 -5.665898000 -1.799541000 -1.649515000	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000	1.137447000 -0.790791000 -1.310810000 -1.493223000 -0.770142000 -1.428158000
16 9 9 9 9 7 7 7	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000	1.255262000 -4.891803000 -2.440979000 -0.399829000 -2.572426000 -0.942916000 -1.159292000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000	1 6 6 1 6	-7.699486000 -6.745002000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000 2.672568000	1.137447000 -0.790791000 -1.310810000 -1.493223000 -0.770142000 -1.428158000 -1.457352000
16 9 9 9 7 7 7 7	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000 \end{array}$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000	1 6 6 1 6 6	-7.699486000 -6.745002000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000	$\begin{array}{c} -2.474010000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000 \end{array}$	1.137447000 -0.790791000 -1.310810000 -1.493223000 -0.770142000 -1.428158000 -1.457352000 -1.875667000
16 9 9 9 7 7 7 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000 \end{array}$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000	$ \begin{array}{c} 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ $	-7.699486000 -6.745002000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000 -4.030098000	$\begin{array}{c} -2.474010000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000 \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ \end{array}$
16 9 9 9 7 7 7 6 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000 \end{array}$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.086361000	$ \begin{array}{c} 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 1 \\ 1 \\ 6 \\ 6 \\ 1 \\ 1 1 1 1 1 $	-7.699486000 -7.458915000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000 -4.030098000 -4.651253000	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000 2.672568000 0.697398000 1.524803000 1.232891000	1.137447000 -0.790791000 -1.310810000 -1.493223000 -0.770142000 -1.428158000 -1.457352000 -1.875667000 -2.916455000 -3.757837000
16 9 9 9 7 7 7 6 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000 \end{array}$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.086361000 0.122461000	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 7 \\ 6 \\ $	-7.699486000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000 -4.030098000 -4.651253000 -3.505817000	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000 2.672568000 0.697398000 1.524803000 1.232891000 2.813696000	1.137447000 -0.790791000 -1.310810000 -1.493223000 -0.770142000 -1.428158000 -1.457352000 -1.875667000 -2.916455000 -3.757837000 -2.643426000
16 9 9 9 7 7 7 6 6 1	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8 209491000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000\\ 1.739912000 \end{array}$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.086361000 0.122461000 -0.140234000	1 6 1 6 1 6 6 1 6	-7.699486000 -7.699486000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000 -4.030098000 -4.651253000 -3.505817000 -3.633555000	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000 2.672568000 0.697398000 1.524803000 1.232891000 2.813696000 3.713075000	1.137447000 -0.790791000 -1.310810000 -1.493223000 -0.770142000 -1.428158000 -1.428158000 -1.457352000 -1.875667000 -2.916455000 -3.757837000 -2.643426000 -3.237436000
16 9 9 9 7 7 7 6 6 1 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000\\ 1.739912000\\ 2.740046000 \end{array}$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.086361000 0.122461000 -0.140234000 0.008304000	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 1 \\ $	-7.699486000 -7.699486000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000 -4.030098000 -4.651253000 -3.505817000 -3.633555000 -2.319655000	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000 2.672568000 0.697398000 1.524803000 1.232891000 2.813696000 3.713075000 4.181416000	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.428158000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ \end{array}$
16 9 9 9 7 7 7 6 6 1 6 1	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 0.987080000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000\\ 1.739912000\\ 2.740046000\\ 0.6746000000\end{array}$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.086361000 0.122461000 -0.140234000 0.008304000 0.274208000	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 1 \\ 6 \\ $	$\begin{array}{c} -7.699486000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ 1.456972000\\ \end{array}$	$\begin{array}{c} -2.870874000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.428158000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ \end{array}$
16 9 9 9 7 7 7 6 6 1 6 1 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000\\ 1.739912000\\ 2.740046000\\ 0.674609000\\ 0.57609000\\ \end{array}$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.986361000 0.122461000 -0.140234000 0.008304000 -0.374208000	$ \begin{array}{c} 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ $	$\begin{array}{c} -7.699486000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -2.319655000\\ -1.456972000\\ 0.282681000\end{array}$	$\begin{array}{c} -2.870874000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.650941000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.428158000\\ -1.428158000\\ -1.457352000\\ -2.916455000\\ -3.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ \end{array}$
16 9 9 9 7 7 7 6 6 1 6 1 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.986361000 0.122461000 -0.140234000 0.008304000 -0.374208000 -0.566898000	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{c} -7.699486000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -0.52026000\end{array}$	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000 2.672568000 0.697398000 1.524803000 1.524803000 1.232891000 2.813696000 3.713075000 4.181416000 4.650941000 4.563107000	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741020000\\ \end{array}$
16 9 9 9 7 7 7 6 6 1 6 1 6 1 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000\\ 1.739912000\\ 2.740046000\\ 0.674609000\\ -0.594998000\\ -1.441940000\\ -1.441940000\\ \end{array}$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.988818000 -0.271502000 -0.086361000 0.122461000 -0.140234000 0.008304000 -0.374208000 -0.566898000 -0.770923000	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 1 \\ 6 \\ 1 \\ $	$\begin{array}{c} -7.699486000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ \end{array}$	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000 2.672568000 0.697398000 1.524803000 1.524803000 1.232891000 2.813696000 3.713075000 4.181416000 4.650941000 4.563107000 5.221530000	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 2.741039000\\ \end{array}$
16 9 9 9 7 7 7 6 6 1 6 1 6 1 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000\\ 1.739912000\\ 2.740046000\\ 0.674609000\\ -0.594998000\\ -1.441940000\\ -0.793237000\\ -0.793237000\\ -0.59499800\\ -0.59499800\\ -0.59499800\\ -0.59499800\\ -0.59499800\\ -0.59499800\\ -0.59499800\\ -0.59499800\\ -0.59499800\\ -0.59499800\\ -0.59499800\\ -0.5949980\\ -0.59480\\ -0.59480$	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.988818000 -0.271502000 -0.086361000 0.122461000 -0.140234000 0.008304000 -0.374208000 -0.566898000 -0.770923000 -0.523340000	$ \begin{array}{c} 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	$\begin{array}{c} -7.699486000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ -1.255874000\\ \end{array}$	$\begin{array}{c} -2.870874000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.457352000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ \end{array}$
16 9 9 9 7 7 7 6 6 1 6 1 6 1 6 1 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000\\ 1.739912000\\ 2.740046000\\ 0.674609000\\ -0.594998000\\ -1.441940000\\ -0.793237000\\ -1.781085000 \end{array}$	$\begin{array}{l} -0.203520000\\ -0.533499000\\ 3.275507000\\ 1.067742000\\ -2.810914000\\ 0.030611000\\ -2.383899000\\ -0.988818000\\ -0.271502000\\ -0.988818000\\ -0.271502000\\ -0.086361000\\ 0.122461000\\ -0.140234000\\ 0.08304000\\ -0.374208000\\ -0.566898000\\ -0.566898000\\ -0.523340000\\ -0.523340000\\ -0.720633000\\ \end{array}$	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	$\begin{array}{r} -7.699486000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ -1.255874000\\ -3.328890000\\ \end{array}$	$\begin{array}{c} -2.870874000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.345073000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ \end{array}$
16 9 9 9 7 7 7 6 6 1 6 1 6 1 6 1 6	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000\\ 1.739912000\\ 2.740046000\\ 0.674609000\\ -0.594998000\\ -1.441940000\\ -0.793237000\\ -1.781085000\\ 0.067893000\\ \end{array}$	$\begin{array}{c} -0.203520000\\ -0.533499000\\ 3.275507000\\ 1.067742000\\ -2.810914000\\ 0.030611000\\ -2.383899000\\ -0.988818000\\ -0.271502000\\ -0.988818000\\ -0.271502000\\ -0.086361000\\ 0.122461000\\ -0.140234000\\ 0.08304000\\ -0.374208000\\ -0.566898000\\ -0.566898000\\ -0.523340000\\ -0.523340000\\ -0.720633000\\ -0.216630000\\ \end{array}$	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 1 \\ 6 \\ 1 \\ 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{r} -7.699486000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ -1.255874000\\ -3.328890000\\ -4.190554000\\ \end{array}$	$\begin{array}{r} -2.474010000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.345073000\\ 4.879260000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ \end{array}$
$ \begin{array}{c} 16 \\ 9 \\ 9 \\ 9 \\ 7 \\ 7 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 6 \\ 6 \\ 1 \\ 1 \\ 6 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000	$\begin{array}{c} 1.255262000\\ -4.891803000\\ -2.440979000\\ -0.399829000\\ -2.572426000\\ -0.942916000\\ -1.159292000\\ 1.405529000\\ 0.273484000\\ 1.548900000\\ 2.394992000\\ 1.739912000\\ 2.740046000\\ 0.674609000\\ -0.594998000\\ -1.441940000\\ -0.793237000\\ -1.781085000\\ 0.067893000\\ 1.013882000 \end{array}$	$\begin{array}{l} -0.203520000\\ -0.533499000\\ 3.275507000\\ 1.067742000\\ -2.810914000\\ 0.030611000\\ -2.383899000\\ -0.988818000\\ -0.271502000\\ -0.988818000\\ -0.271502000\\ -0.086361000\\ 0.122461000\\ -0.140234000\\ 0.08304000\\ -0.374208000\\ -0.566898000\\ -0.566898000\\ -0.523340000\\ -0.523340000\\ -0.720633000\\ -0.216630000\\ -0.426767000\\ \end{array}$	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 1 \\ 6 \\ 1 \\ 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{r} -7.699486000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ -1.255874000\\ -3.328890000\\ -4.190554000\\ -5.267025000\end{array}$	$\begin{array}{c} -2.870874000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.345073000\\ 4.879260000\\ 4.960360000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ 2.102252000 \end{array}$
$ \begin{array}{c} 16 \\ 9 \\ 9 \\ 9 \\ 7 \\ 7 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6$	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000 2.520316000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000 - 1.441940000 - 0.793237000 - 1.781085000 0.067893000 1.013882000 0.408199000	$\begin{array}{l} -0.203520000\\ -0.533499000\\ 3.275507000\\ 1.067742000\\ -2.810914000\\ 0.030611000\\ -2.383899000\\ -0.988818000\\ -0.271502000\\ -0.988818000\\ -0.271502000\\ -0.086361000\\ 0.122461000\\ -0.140234000\\ 0.08304000\\ -0.374208000\\ -0.566898000\\ -0.566898000\\ -0.523340000\\ -0.523340000\\ -0.523340000\\ -0.720633000\\ -0.216630000\\ -0.232298000\\ \end{array}$	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{l} -7.699486000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.633555000\\ -3.633555000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ -1.255874000\\ -3.328890000\\ -4.190554000\\ -5.267025000\\ -3.697369000\\ \end{array}$	$\begin{array}{r} -2.474010000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.345073000\\ 4.879260000\\ 4.960360000\\ 4.304944000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ 2.102252000\\ 0.790354000\\ \end{array}$
$ \begin{array}{c} 16\\9\\9\\9\\7\\7\\7\\6\\6\\1\\6\\1\\6\\1\\6\\6\\6\\6\\6\\6\\6\\6\\6\end{array} $	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000 2.520316000 4.148257000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000 - 1.441940000 - 0.793237000 - 1.781085000 0.067893000 1.013882000 0.408199000 - 1.123722000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.988818000 -0.271502000 -0.086361000 0.122461000 -0.140234000 -0.140234000 -0.374208000 -0.566898000 -0.566898000 -0.523340000 -0.523340000 -0.523340000 -0.216630000 -0.216630000 -0.232298000 0.109827000	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{r} -0.30733000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.633555000\\ -3.633555000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ -1.255874000\\ -3.328890000\\ -4.190554000\\ -5.267025000\\ -3.697369000\\ -4.377334000\end{array}$	$\begin{array}{r} -2.474010000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.345073000\\ 4.879260000\\ 4.960360000\\ 4.304944000\\ 3.934529000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ 2.102252000\\ 0.790354000\\ 0.029348000\\ \end{array}$
$ \begin{array}{c} 16\\9\\9\\9\\7\\7\\7\\6\\6\\1\\6\\1\\6\\1\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6$	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000 2.520316000 4.148257000 10.584224000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000 - 1.441940000 - 0.793237000 - 1.781085000 0.067893000 1.013882000 0.408199000 - 1.123722000 0.879994000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.086361000 0.122461000 -0.140234000 0.08304000 -0.374208000 -0.566898000 -0.523340000 -0.523340000 -0.523340000 -0.216630000 -0.216630000 -0.232298000 0.109827000 -0.397414000	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{array}{r} -0.30733000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ -1.255874000\\ -3.328890000\\ -4.190554000\\ -5.267025000\\ -3.697369000\\ -4.377334000\\ -3.867647000\\ \end{array}$	$\begin{array}{r} -2.474010000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.345073000\\ 4.879260000\\ 4.960360000\\ 4.304944000\\ 3.934529000\\ 5.926800000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ 2.102252000\\ 0.790354000\\ 0.029348000\\ 4.248704000\\ \end{array}$
$ \begin{array}{c} 16\\9\\9\\9\\7\\7\\7\\6\\6\\1\\6\\1\\6\\1\\6\\6\\6\\6\\6\\6\\1\end{array} \end{array} $	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.831469000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000 2.520316000 4.148257000 10.584224000 11.034041000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000 - 1.441940000 - 0.793237000 - 1.781085000 0.067893000 1.013882000 0.408199000 - 1.123722000 0.879994000 0.695061000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.086361000 0.122461000 -0.140234000 0.08304000 -0.374208000 -0.566898000 -0.566898000 -0.770923000 -0.523340000 -0.523340000 -0.523340000 -0.216630000 -0.216630000 -0.232298000 0.109827000 -0.397414000 0.587397000	$ \begin{array}{c} 1\\ 6\\ 1\\ 1\\ 6\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{r} -0.30733000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.633555000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ -1.255874000\\ -3.328890000\\ -4.190554000\\ -5.267025000\\ -3.697369000\\ -4.377334000\\ -3.867647000\\ -4.079040000\end{array}$	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000 2.672568000 0.697398000 1.524803000 1.524803000 1.232891000 2.813696000 3.713075000 4.181416000 4.650941000 4.563107000 5.221530000 5.572910000 5.572910000 5.345073000 4.879260000 4.304944000 3.934529000 5.926800000 5.143754000	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.237436000\\ 0.570567000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ 2.102252000\\ 0.790354000\\ 0.029348000\\ 4.248704000\\ 4.989131000\\ \end{array}$
$ \begin{array}{c} 16\\9\\9\\9\\7\\7\\7\\6\\6\\1\\6\\1\\6\\1\\6\\6\\6\\6\\6\\1\\1\end{array} \end{array} $	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.831469000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000 2.520316000 4.148257000 10.584224000 11.034041000 10.843413000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000 - 1.441940000 - 0.793237000 - 1.781085000 0.067893000 1.013882000 0.408199000 - 1.123722000 0.879994000 0.695061000 1.904629000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.086361000 0.122461000 -0.140234000 0.08304000 -0.374208000 -0.566898000 -0.523340000 -0.523340000 -0.523340000 -0.523340000 -0.216630000 -0.216630000 -0.232298000 0.109827000 -0.397414000 0.587397000 -0.682704000	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	-7.699486000 -7.699486000 -6.745002000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000 -4.030098000 -4.651253000 -3.505817000 -3.633555000 -2.319655000 -1.456972000 -0.383681000 -1.953036000 -1.255874000 -3.28890000 -4.190554000 -5.267025000 -3.697369000 -4.377334000 -3.867647000 -4.079040000 -4.803530000	$\begin{array}{c} -2.870874000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.572910000\\ 5.572910000\\ 5.572910000\\ 5.572910000\\ 5.345073000\\ 4.879260000\\ 4.960360000\\ 4.304944000\\ 3.934529000\\ 5.926800000\\ 5.143754000\\ 6.471612000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -2.916455000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ 2.961765000\\ 1.960433000\\ 2.102252000\\ 0.790354000\\ 0.029348000\\ 4.248704000\\ 4.989131000\\ 4.082779000\\ \end{array}$
$ \begin{array}{c} 16\\9\\9\\9\\7\\7\\7\\6\\6\\1\\6\\1\\6\\1\\6\\1\\6\\6\\6\\6\\1\\1\\1\\1$	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.831469000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000 2.520316000 4.148257000 10.584224000 11.034041000 10.843413000 11.071885000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000 - 1.441940000 - 0.793237000 - 1.781085000 0.067893000 1.013882000 0.408199000 - 1.123722000 0.879994000 0.695061000 1.904629000 0.200938000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.988318000 -0.271502000 -0.86361000 0.122461000 -0.140234000 -0.374208000 -0.566898000 -0.523340000 -0.523340000 -0.523340000 -0.523340000 -0.216630000 -0.216630000 -0.232298000 0.109827000 -0.397414000 0.587397000 -0.682704000 -1.105015000	1 6 1 6 6 1 6 6 1 6 6 1 6 1 6 1 6 1 6 1 6 1 1 1	$\begin{array}{l} -0.30733000\\ -7.699486000\\ -6.745002000\\ -7.458915000\\ -5.665898000\\ -1.799541000\\ -1.649515000\\ -2.766349000\\ -3.565531000\\ -4.030098000\\ -4.651253000\\ -3.505817000\\ -3.633555000\\ -2.319655000\\ -1.456972000\\ -0.383681000\\ -1.953036000\\ -1.255874000\\ -3.328890000\\ -4.190554000\\ -5.267025000\\ -3.697369000\\ -4.377334000\\ -3.867647000\\ -4.079040000\\ -4.803530000\end{array}$	$\begin{array}{c} -2.870874000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.345073000\\ 4.879260000\\ 4.304944000\\ 3.934529000\\ 5.926800000\\ 5.143754000\\ 6.471612000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -2.916455000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ 2.961765000\\ 1.960433000\\ 2.102252000\\ 0.790354000\\ 0.029348000\\ 4.248704000\\ 4.989131000\\ 4.082779000\\ \end{array}$
$ \begin{array}{c} 16\\9\\9\\9\\7\\7\\7\\6\\6\\1\\6\\1\\6\\1\\6\\6\\6\\6\\1\\1\\1\\6\end{array} \end{array} $	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.831469000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000 2.520316000 4.148257000 10.584224000 11.034041000 10.843413000 11.071885000 1 437012000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000 - 1.441940000 - 0.793237000 - 1.781085000 0.067893000 1.013882000 0.408199000 - 1.123722000 0.879994000 0.695061000 1.904629000 0.200938000 1.318395000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.988318000 -0.271502000 -0.086361000 0.122461000 -0.140234000 -0.140234000 -0.374208000 -0.566898000 -0.566898000 -0.523340000 -0.523340000 -0.523340000 -0.523340000 -0.216630000 -0.216630000 -0.232298000 0.109827000 -0.397414000 0.587397000 -0.682704000 -1.105015000 -0.349904000	$ \begin{array}{c} 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 1 1 1 1 $	-7.699486000 -7.699486000 -6.745002000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000 -4.030098000 -4.651253000 -3.633555000 -3.633555000 -2.319655000 -1.456972000 -0.383681000 -1.255874000 -3.328890000 -4.190554000 -5.267025000 -3.697369000 -4.377334000 -3.867647000 -4.079040000 -4.803530000	-2.870874000 -2.870874000 -2.778347000 -3.407391000 -2.252767000 3.618101000 4.487331000 2.672568000 0.697398000 1.524803000 1.524803000 1.524803000 2.813696000 3.713075000 4.181416000 4.563107000 5.221530000 5.572910000 5.345073000 4.879260000 4.304944000 3.934529000 5.926800000 5.143754000 6.471612000 6.618520000	1.137447000 -0.790791000 -1.310810000 -1.493223000 -0.770142000 -1.428158000 -1.457352000 -1.457352000 -1.457352000 -1.457352000 -1.875667000 -2.916455000 -3.757837000 -2.643426000 -3.237436000 0.570567000 1.567736000 1.428061000 2.741039000 3.499840000 2.961765000 1.960433000 2.102252000 0.790354000 0.029348000 4.248704000 4.989131000 4.082779000
$ \begin{array}{c} 16\\9\\9\\9\\7\\7\\7\\6\\6\\1\\6\\1\\6\\1\\6\\6\\6\\6\\1\\1\\1\\6\\6\\6\\6$	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.831469000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000 2.520316000 4.148257000 10.584224000 11.034041000 10.843413000 1.437012000 1.437012000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000 - 1.441940000 - 0.793237000 - 1.781085000 0.067893000 1.013882000 0.408199000 - 1.123722000 0.879994000 0.695061000 1.904629000 0.200938000 1.318395000 2.597928000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.988318000 -0.271502000 -0.86361000 0.122461000 -0.140234000 -0.140234000 -0.374208000 -0.566898000 -0.770923000 -0.523340000 -0.720633000 -0.216630000 -0.232298000 0.109827000 -0.397414000 0.587397000 -0.682704000 -1.105015000 -0.349904000 -0.709204000	1 6 1 6 6 1 6 6 1 6 1 6 1 6 1 6 1 6 1 6 1 1 1	-7.699486000 -7.699486000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000 -4.030098000 -4.651253000 -3.505817000 -3.633555000 -2.319655000 -1.456972000 -0.383681000 -1.953036000 -1.255874000 -3.328890000 -4.190554000 -5.267025000 -3.697369000 -4.377334000 -3.867647000 -4.079040000 -4.803530000 -3.152658000	$\begin{array}{r} -2.474010000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.572910000\\ 5.345073000\\ 4.879260000\\ 4.304944000\\ 3.934529000\\ 5.926800000\\ 5.143754000\\ 6.471612000\\ \end{array}$	$\begin{array}{c} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.237436000\\ -2.916455000\\ -3.237436000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ 2.961765000\\ 1.960433000\\ 2.102252000\\ 0.790354000\\ 0.029348000\\ 4.248704000\\ 4.989131000\\ 4.082779000\\ 4.706636000\\ \end{array}$
$ \begin{array}{c} 16\\9\\9\\9\\7\\7\\7\\6\\6\\1\\6\\1\\6\\1\\6\\6\\6\\6\\1\\1\\1\\6\\6\\6\\6$	-0.300986000 -0.400413000 0.959023000 -3.956935000 -5.574849000 2.759924000 -1.150318000 -2.823543000 6.262932000 6.831469000 6.184390000 8.209491000 8.611503000 9.087980000 8.525840000 9.178201000 7.149774000 6.745779000 4.818329000 3.772101000 2.520316000 4.148257000 10.584224000 11.034041000 10.843413000 1.437012000 1.865129000 2.995420000	1.255262000 - 4.891803000 - 2.440979000 - 0.399829000 - 2.572426000 - 0.942916000 - 1.159292000 1.405529000 0.273484000 1.548900000 2.394992000 1.739912000 2.740046000 0.674609000 - 0.594998000 - 1.441940000 - 0.793237000 - 1.781085000 0.067893000 1.013882000 0.408199000 - 1.123722000 0.879994000 0.695061000 1.904629000 0.200938000 1.318395000 2.597928000 - 2.103401000	-0.203520000 -0.533499000 3.275507000 1.067742000 -2.810914000 0.030611000 -2.383899000 -0.988818000 -0.271502000 -0.988318000 -0.271502000 -0.86361000 0.122461000 -0.140234000 -0.140234000 -0.374208000 -0.566898000 -0.770923000 -0.523340000 -0.216630000 -0.216630000 -0.232298000 0.109827000 -0.397414000 0.587397000 -0.682704000 -1.105015000 -0.349904000 -0.709204000 0.525466000	1 6 6 1 6 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	-7.699486000 -7.699486000 -7.458915000 -5.665898000 -1.799541000 -1.649515000 -2.766349000 -3.565531000 -4.030098000 -4.651253000 -3.505817000 -3.633555000 -2.319655000 -1.456972000 -0.383681000 -1.953036000 -1.255874000 -3.328890000 -4.190554000 -5.267025000 -3.697369000 -4.377334000 -3.867647000 -4.079040000 -4.803530000 -3.152658000	$\begin{array}{c} -2.870874000\\ -2.870874000\\ -2.778347000\\ -3.407391000\\ -2.252767000\\ 3.618101000\\ 4.487331000\\ 2.672568000\\ 0.697398000\\ 1.524803000\\ 1.524803000\\ 1.524803000\\ 1.232891000\\ 2.813696000\\ 3.713075000\\ 4.181416000\\ 4.650941000\\ 4.563107000\\ 5.221530000\\ 5.572910000\\ 5.572910000\\ 5.345073000\\ 4.879260000\\ 4.304944000\\ 3.934529000\\ 5.926800000\\ 5.143754000\\ 6.471612000\\ \end{array}$	$\begin{array}{l} 1.137447000\\ -0.790791000\\ -1.310810000\\ -1.493223000\\ -0.770142000\\ -1.428158000\\ -1.457352000\\ -1.457352000\\ -1.457352000\\ -1.875667000\\ -2.916455000\\ -3.757837000\\ -2.643426000\\ -3.237436000\\ 0.570567000\\ 1.567736000\\ 1.567736000\\ 1.428061000\\ 2.741039000\\ 3.499840000\\ 2.961765000\\ 1.960433000\\ 2.961765000\\ 1.960433000\\ 2.102252000\\ 0.790354000\\ 0.029348000\\ 4.248704000\\ 4.989131000\\ 4.082779000\\ 4.706636000\\ \end{array}$

16	-3.699764000	-2.706820000	-0.868910000
16	0.183360000	-1.308786000	-0.022788000
9	0.474341000	4.832875000	-0.096551000
9	-0.949171000	1.978416000	3.394566000
9	4.101528000	0.313940000	0.886901000
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.	0.10000	<u></u> ,	1.207720000

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6	-2.564158000	-0.476396000	-0.131612000
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6	7 044812000	-1 575939000	1 533335000
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6	-5 408352000	4 332401000	-0 104536000	6	-2 605664000	-4 359268000	-2 828300000
6	-6 422442000	4 319588000	-1 080340000	6	-3 923188000	-4 380107000	-2 359134000
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6 1 6 6	5.076905000 5.342490000 5.521248000 6.259550000 3.164937000 1.794990000	0.419011000 2.076045000 2.717508000 -0.677679000 -0.813580000	-3.777733000 -2.359471000 -2.819227000 -2.270653000 -1.789107000
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1 6 1 6 6 6 1 6 6	5.078905000 5.342490000 5.521248000 6.259550000 3.164937000 1.794990000 0.890457000 1.033372000 -0.251258000 1.042953000	$\begin{array}{c} 0.375101000\\ 0.419011000\\ 2.076045000\\ 2.717508000\\ -0.677679000\\ -0.813580000\\ 0.237289000\\ 1.296663000\\ -1.654324000\\ -2.020192000\\ \end{array}$	-3.777733000 -3.777733000 -2.359471000 -2.819227000 -2.270653000 -1.789107000 -1.620717000 -1.774979000 -1.253993000 -1.568217000
1 6 1 6 6 1 6 1 6 1	5.078905000 5.342490000 5.521248000 6.259550000 3.164937000 1.794990000 0.890457000 1.033372000 -0.251258000 1.042953000 1.440079000	0.419011000 2.076045000 2.717508000 -0.677679000 -0.813580000 0.237289000 1.296663000 -1.654324000 -2.020192000 -3.023937000	-2.833023000 -3.777733000 -2.359471000 -2.819227000 -2.270653000 -1.789107000 -1.620717000 -1.774979000 -1.253993000 -1.568217000 -1.583374000
1 6 1 6 6 1 6 1 6	5.078905000 5.342490000 5.521248000 6.259550000 3.164937000 1.794990000 0.890457000 1.033372000 -0.251258000 1.042953000 1.042953000 1.440079000 2.041121000	$\begin{array}{c} 0.375101000\\ 0.419011000\\ 2.076045000\\ 2.717508000\\ -0.677679000\\ -0.813580000\\ 0.237289000\\ 1.296663000\\ -1.654324000\\ -2.020192000\\ -3.023937000\\ 0.443692000 \end{array}$	$\begin{array}{c} -3.777733000\\ -3.777733000\\ -2.359471000\\ -2.819227000\\ -2.270653000\\ -1.789107000\\ -1.620717000\\ -1.620717000\\ -1.253993000\\ -1.568217000\\ -1.583374000\\ 3.595768000\end{array}$
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1 6 1 6 6 6 1 6 1 6 1 6	5.076905000 5.342490000 5.521248000 6.259550000 3.164937000 1.794990000 0.890457000 1.033372000 -0.251258000 1.042953000 1.440079000 2.041121000 1.835356000 1.586620000	$\begin{array}{c} 0.375101000\\ 0.419011000\\ 2.076045000\\ 2.717508000\\ -0.677679000\\ -0.813580000\\ 0.237289000\\ 1.296663000\\ -1.654324000\\ -2.020192000\\ -3.023937000\\ 0.443692000\\ 0.773211000\\ -0.751695000 \end{array}$	$\begin{array}{c} -3.777733000\\ -2.359471000\\ -2.819227000\\ -2.270653000\\ -1.789107000\\ -1.620717000\\ -1.620717000\\ -1.253993000\\ -1.568217000\\ -1.583374000\\ 3.595768000\\ 4.608263000\\ 3.085732000\end{array}$
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6	2.0434330000	-3.314303000 5.463778000	4.927823000
1	0.665507000	6 362034000	4.00940000
1 6	0.644416000	-0.302034000	4.821321000
1	0.044410000	4 271415000	4.283973000
6	3 320270000	6 803607000	5 320016000
1	3.664212000	-7 363681000	4 451124000
1	2 640212000	-7.303081000	5 884724000
1	<i>1</i> 107273000	6 616700000	5 057123000
1	-1 23/1561000	0.237100000	-1 307821000
8	-2.826719000	0.237109000	-1.507821000
6	-2.820719000	0.869/80000	-2 663915000
8	-3.394738000	1 / 30883000	-2.003913000
6	-7.705124000	0 143662000	-3 822801000
1	-2.703124000	0.143002000	-3.822801000
1	-1 625494000	0.436720000	-3 817574000
1	-2 861485000	-0.935072000	-3 708900000
7	-5 599492000	2 398236000	0 349858000
6	-5.483621000	0.856382000	0.242859000
6	-6 555727000	0.107955000	-0 552054000
1	-5 446593000	0.107999000	1 275141000
1	-4 516594000	0.470707000	-0 238576000
6	-6 318557000	-1 408197000	-0 433890000
1	-7 571487000	0.335801000	-0 208431000
î	-6.478487000	0.388628000	-1.605611000
6	-7.352539000	-2.220563000	-1.219169000
1	-5 316154000	-1 65026000	-0.805407000
1	-6.342298000	-1.708244000	0.622936000
1	-7.158476000	-3.293610000	-1.128974000
1	-8.369800000	-2.033623000	-0.855944000
1	-7.325865000	-1.965579000	-2.283756000
6	-6.249708000	2.951776000	-0.921710000

6	-6.397997000	4.470156000	-1.013570000	6	10.557315000	0.722346000	-0.544684000
1	-7.234655000	2.490031000	-0.984529000	1	11.025060000	0.536548000	0.431923000
1	-5.629503000	2.556062000	-1.737253000	1	10.828144000	1.740761000	-0.842093000
6	-7.110481000	4.836570000	-2.327734000	1	11.019706000	0.031027000	-1.257533000
1	-6.974431000	4.877766000	-0.172633000	6	1.435004000	1.336877000	-0.288996000
1	-5.421523000	4,964879000	-1.002699000	6	1.870767000	2.608064000	-0.672724000
6	-7 266223000	6 348251000	-2.513383000	ő	2.026121000	-2 158264000	0 429452000
1	-6 546548000	4 414501000	-3 167969000	6	3 088019000	-3.058121000	0.818971000
1	-8 099476000	4 359816000	-2 351120000	1	2 907132000	-4 070399000	1 150839000
1	-7.776744000	6 578333000	-3.453336000	6	4 310265000	-7.497803000	0.554271000
1	7 850/10000	6 703 401 000	1 600800000	0	5 277280000	2.497803000	0.707250000
1	-7.830410000	6.793491000	-1.099899000		0.682721000	-2.934838000	0.707339000
1	-0.29155/000	0.84/80/000	-2.534622000	0	0.083/31000	-2.555854000	0.340313000
I	-3./0/214000	2.646940000	-0.526995000	6	-0.356593000	-2.013894000	-0.486904000
6	-6.3418//000	2.816597000	1.6040/5000	6	-0.232881000	-1.346495000	-1./65950000
6	-/.8169/9000	2.432895000	1.703399000	l	0.690601000	-1.219134000	-2.322734000
1	-6.231448000	3.901410000	1.678536000	6	-2.350457000	-1.358991000	-1.322885000
1	-5.794690000	2.377631000	2.439748000	6	-1.758105000	-2.088842000	-0.273863000
6	-8.423233000	2.959365000	3.015033000	1	-2.256161000	-2.462466000	0.612113000
1	-8.384426000	2.840700000	0.859671000	6	0.808949000	3.510884000	-0.938650000
1	-7.931046000	1.344700000	1.669690000	1	0.941749000	4.533222000	-1.276588000
1	-7.855412000	2.559578000	3.865388000	6	-0.433083000	2.933349000	-0.751411000
1	-8.309417000	4.050663000	3.056896000	6	0.293227000	-3.682800000	1.222496000
1	-10.043686000	1.506307000	3.167966000	6	-0.185025000	-4.895923000	0.705414000
6	-9.901808000	2.592435000	3.169580000	6	-0.591551000	-5.962690000	1.499757000
1	-10.306982000	2.979321000	4.109167000	1	-0.940800000	-6.870993000	1.021779000
1	-10.501737000	3.007288000	2.352287000	6	-0.531281000	-5.830218000	2.886867000
6	-4.166108000	2.954829000	0.415854000	1	-0.847349000	-6.651369000	3.523026000
1	-4.264904000	4.040888000	0.453722000	6	-0.065325000	-4.647814000	3.458915000
6	-3 294593000	2 475281000	1 574635000	1	-0.010940000	-4 508547000	4 532740000
1	-3 703062000	2 784965000	2 544796000	6	0 335248000	-3 610436000	2 622072000
1	-3 214709000	1 384635000	1 578278000	6	-3 669242000	-0.765852000	-1 291009000
6	-1 878849000	3 059601000	1 422787000	6	-4 843807000	-1 601456000	-0.954495000
1	-1 938155000	4 154431000	1 347903000	6	-5 763233000	-1 281378000	0.059790000
1	1 456813000	2 702028000	0.476017000	6	6 853822000	2 070501000	0.039790000
6	-1.450815000	2.702028000	2 581071000	0	-0.855822000	-2.079501000	1 1051/7000
1	1 242284000	2.0/1181000	2.381971000		-7.307832000	-1.703382000	0.215424000
1	-1.343264000	2.092709000	2 441224000	0	-7.001331000	-3.203/02000	-0.313424000
1	0.045251000	5.082798000	2.441334000	I	-/.908003000	-3.89/481000	-0.0/1080000
1	-0.860/82000	1.583982000	2.659985000	0	-6.1826/2000	-3.63/598000	-1.330919000
				I	-6.316045000	-4.548506000	-1.903356000
[12]				6	-5.102143000	-2.812404000	-1.622309000
16	3.632348000	2.687504000	-0.842359000	6	-1.785129000	3.6115/9000	-0.983430000
16	-0.287792000	1.263942000	-0.215121000	1	-1.646706000	4.270697000	-1.852949000
9	-0.229736000	-5.057192000	-0.628871000	6	-2.894640000	2.617993000	-1.310113000
9	0.769767000	-2.474729000	3.200250000	6	-3.770565000	0.617431000	-1.453090000
9	-5.577407000	-0.164172000	0.786449000	6	-4.863339000	1.550397000	-1.632846000
9	-4.289299000	-3.187087000	-2.623506000	1	-5.899788000	1.299784000	-1.823078000
7	2.702048000	-0.973336000	0.003379000	6	-4.315784000	2.812599000	-1.556510000
7	-1.392018000	-0.963249000	-2.258894000	1	-4.840460000	3.758067000	-1.628636000
7	-2.604799000	1.346882000	-1.276931000	6	-2.185904000	4.517096000	0.186476000
6	6.226367000	0.187324000	-0.329393000	6	-2.279054000	5.900996000	0.026133000
6	6.823774000	1.450869000	-0.143565000	1	-2.064779000	6.342048000	-0.944889000
1	6.197489000	2.306277000	0.089644000	6	-2.643001000	6.728817000	1.092774000
6	8.203032000	1.619156000	-0.226528000	1	-2.707205000	7.804060000	0.938619000
1	8.625007000	2.611056000	-0.076337000	6	-2.924911000	6.196880000	2.352630000
6	9.058544000	0.542189000	-0.491275000	6	-2.834326000	4.804124000	2,509845000
6	8.469179000	-0.715007000	-0.684568000	1	-3.051737000	4.361147000	3.479615000
1	9 101811000	-1 571018000	-0.912518000	6	-2.473892000	3,979465000	1.450393000
6	7 091455000	-0.890994000	-0 612024000	1	-2 410996000	2,905039000	1 595876000
1	6 667062000	-1 860706000	-0.812/02/000	6	-3 306767000	7 083011000	3 515644000
1 6	4 78182000	-1.009/00000	-0.012400000	1	-2 544252000	7 062925000	4 304257000
6	T. /01020000	0.000949000	0.404464000	1	-2.5++252000	6760010000	3 075177000
6	2 402442000	0.201244000	-0.404404000	1	-4.240/23000	8 12/012000	3.773177000
0	2.493443000	0.394041000	-0.20333/000	1	-3.42023/000	0.124012000	5.201010000
0	4.089036000	-1.182908000	0.040034000				

[10]- TBA+

Energy = -3932.568036, NImag =0.0 S, -0.135017, -4.857869, -1.370432 S, 2.330705, -1.596891, -0.247561 F, -0.956353, 3.160932, 1.862577 F, 0.250605, -0.751489, 4.246120 F, 4.771277, 1.820019, 1.052864 F, 2.850930, 5.279644, -1.535206 N, -1.259319, -1.901603, 0.846393 N, 1.061074, 1.118951, -1.544776 N, 4.051578, 0.158377, -1.287626 C, -3.443558, -4.840806, 0.166166 C, -3.142268, -6.181426, -0.143754 H, -2.107160, -6.478977, -0.277895 C, -4.146376, -7.137948, -0.251581 H, -3.876290, -8.163924, -0.490502 C, -5.494753, -6.810662, -0.051568 C, -5.798277, -5.477295, 0.251654 H, -6.836457, -5.187696, 0.399107 C, -4.800023, -4.512418, 0.353957 H, -5.073094, -3.481220, 0.557338 C, -2.391658, -3.831594, 0.277411 C, -1.087700, -3.837453, -0.293237 C, -0.377136, -2.689460, 0.102528 C, -2.446044, -2.635541, 1.021350 C, -6.574324, -7.862553, -0.139192 H, -6.644099, -8.442221, 0.790146 H, -6.376449, -8.574635, -0.946873 H, -7.556614, -7.414783, -0.317540 C, 0.958403, -2.667893, -0.363286 C, 1.239070, -3.754726, -1.199773 C, -1.239265, -0.789564, 1.731988 C, -2.431321, -0.946093, 2.540854 H, -2.716334, -0.249598, 3.316928 C, -3.165673, -2.017017, 2.087220 H, -4.108045, -2.367413, 2.485777 C, -0.414214, 0.328274, 1.705557 C, 0.360841, 0.786914, 0.568621 C, 0.143932, 0.466851, -0.775349 H, -0.549422, -0.226301, -1.224417 C, 1.918654, 1.846794, -0.725651 C, 1.481418, 1.687256, 0.569991 H, 1.951887, 2.114310, 1.442404 C, 2.537920, -3.709710, -1.765508 H, 2.935537, -4.442055, -2.458844 C, 3.250405, -2.596203, -1.360507 C, -0.353575, 1.137949, 2.953179 C, -0.572719, 2.523062, 3.002910 C, -0.458268, 3.296105, 4.149026 H, -0.646664, 4.362042, 4.091031 C, -0.099708, 2.669485, 5.342796 H, 0.001513, 3.253200, 6.251746 C, 0.129587, 1.295421, 5.367958 H, 0.420536, 0.777213, 6.274369 C, 0.003040, 0.566899, 4.190411 C, 3.166101, 2.485279, -1.305982 H, 2.857991, 3.100578, -2.158960 C, 3.804779, 3.474995, -0.333484 C, 4.602083, 3.120174, 0.761865 C, 5.219948, 4.050635, 1.593045 H, 5.827188, 3.691967, 2.416429 C, 5.039730, 5.410354, 1.344746 H, 5.519669, 6.146297, 1.982018

C, 4.238728, 5.825274, 0.281788 H, 4.068214, 6.872523, 0.059301 C, 3.645928, 4.852180, -0.513011 C, 4.646826, -2.168904, -1.810096 H, 4.848310, -2.738433, -2.726082 C, 4.645340, -0.690614, -2.155995 C, 4.060070, 1.386602, -1.870702 C, 4.688529, 1.335894, -3.127497 H, 4.826580, 2.156332, -3.824342 C, 5.069720, -0.014224, -3.314518 H, 5.586377, -0.436274, -4.169621 C, 5.712075, -2.592490, -0.784466 C, 6.311784, -3.852058, -0.878600 H, 6.027307, -4.521725, -1.687869 C, 7.275293, -4.264991, 0.043449 H, 7.731504, -5.247371, -0.059945 C, 7.666928, -3.430967, 1.095103 C. 7.064203, -2.167934, 1.184893 H, 7.356175, -1.495213, 1.989121 C, 6.105861, -1.750055, 0.264305 H, 5.658715, -0.763675, 0.339811 C, 8.697095, -3.873654, 2.108401 H, 8.243306, -4.053033, 3.091339 H, 9.474655, -3.114361, 2.250041 H, 9.188448, -4.801358, 1.799855 N, -4.237257, 2.237474, -0.766952 C, -5.062641, 3.513959, -0.966754 C, -5.026573, 4.198721, -2.335466 H, -4.730908, 4.205397, -0.190873 H, -6.096491, 3.235345, -0.744186 C, -5.817630, 5.517573, -2.277706 H, -4.002613, 4.410906, -2.650950 H, -5.474018, 3.554745, -3.099269 C, -5.870639, 6.226626, -3.633901 H, -6.839070, 5.317259, -1.927601 H, -5.361853, 6.182465, -1.532692 H, -6.434165, 7.161228, -3.564114 H, -4.865644, 6.469955, -3.994328 H, -6.355150, 5.601309, -4.391404 C, -4.321852, 1.378935, -2.030477 C, -3.704156, -0.017410, -1.971384 H, -3.846536, 1.955912, -2.823181 H, -5.388978, 1.309775, -2.263293 C, -3.860841, -0.719122, -3.333231 H, -2.641121, 0.043530, -1.723094 H, -4.175196, -0.635583, -1.201623 C, -3.290967, -2.140883, -3.325076 H, -4.924598, -0.750250, -3.606293 H, -3.361605, -0.123416, -4.109140 H, -3.412710, -2.611628, -4.304781 H, -2.223740, -2.145149, -3.083437 H, -3.795147, -2.769434, -2.584685 H, -5.829534, 1.085854, -0.000976 C, -2.781461, 2.532492, -0.369215 C, -1.895542, 3.364886, -1.308336 H, -2.330040, 1.555435, -0.204613 H, -2.839213, 3.020339, 0.600560 C, -1.798510, 4.861698, -0.968407 H, -0.894353, 2.935419, -1.202180 H, -2.159732, 3.217672, -2.362210 H, -2.774188, 5.355985, -1.068590 H, -1.513415, 4.950847, 0.086300 H, -1.005073, 5.501685, -2.902161

C, -0.767111, 5.590875, -1.835563 H, -0.737833, 6.657424, -1.592786 H, 0.239895, 5.191074, -1.682083 C, -4.869622, 1.441097, 0.386387 H, -4.227063, 0.576163, 0.555349 C, -5.076263, 2.175446, 1.712112 H, -4.114203, 2.464661, 2.146925 H, -5.663788, 3.090266, 1.581400 C, -5.807481, 1.253332, 2.704938 H, -5.239095, 0.322079, 2.812170 H, -6.785866, 0.975772, 2.290820 C, -5.996071, 1.906351, 4.076835 H, -5.032330, 2.157178, 4.532436 H, -6.521246, 1.233154, 4.760216 H, -6.581562, 2.829523, 4.003319 C, 1.254382, 0.848031, -2.964699 H, 0.331886, 0.412595, -3.358045 H, 1.465023, 1.773743, -3.503530 H, 2.089612, 0.159911, -3.114671

[12]- TBA+

Energy = -3892.050026, NImag =0 S, 4.815218, 0.754643, -1.794704 S, 1.089721, 1.973214, -0.244359 F, -1.044998, -2.788590, 3.396961 F, 1.854700, 0.646357, 4.862839 F, -2.992081, 3.974945, 1.966494 F, -4.959911, -0.224098, 1.014189 N, 3.080624, -0.849934, 1.270600 N, -1.288366, -0.264789, -0.282231 N, -1.321077, 2.390579, -1.222237 C, 6.476318, -1.851456, 0.101207 C, 7.491502, -1.121952, -0.546171 H, 7.303258, -0.096065, -0.847225 C, 8.743519, -1.682919, -0.781808 H, 9.504239, -1.089078, -1.283559 C, 9.046562, -2.990076, -0.379681 C, 8.035652, -3.721085, 0.258847 H, 8.232344, -4.745577, 0.567554 C, 6.778786, -3.170879, 0.490323 H, 6.005910, -3.779089, 0.949612 C, 5.159125, -1.266059, 0.347613 C, 4.502798, -0.219374, -0.360981 C, 3.260267, 0.067452, 0.227701 C, 4.263873, -1.599485, 1.374458 C, 10.417671, -3.581432, -0.605087 H, 11.087093, -3.376719, 0.240645 H, 10.891946, -3.165161, -1.499368 H, 10.371016, -4.668684, -0.723194 C, 2.600447, 1.151409, -0.413546 C, 3.285563, 1.602880, -1.546882 C, 2.241764, -1.132359, 2.394545 C, 3.039835, -2.013053, 3.230858 H, 2.672837, -2.437784, 4.153584 C, 4.213897, -2.321779, 2.607207 H, 4.986107, -2.984090, 2.971573 C, 0.906460, -0.849992, 2.629119 C, -0.112316, -0.446212, 1.688065 C, -0.220871, -0.799154, 0.304548 H, 0.449981, -1.465441, -0.230401 C, -1.927665, 0.480420, 0.703820 C, -1.274402, 0.317814, 1.944981 H, -1.521342, 0.820678, 2.871107

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