

**Supporting information for:**

**Photoinduced charge separation in Nano-Saturn complexes of fullerene**

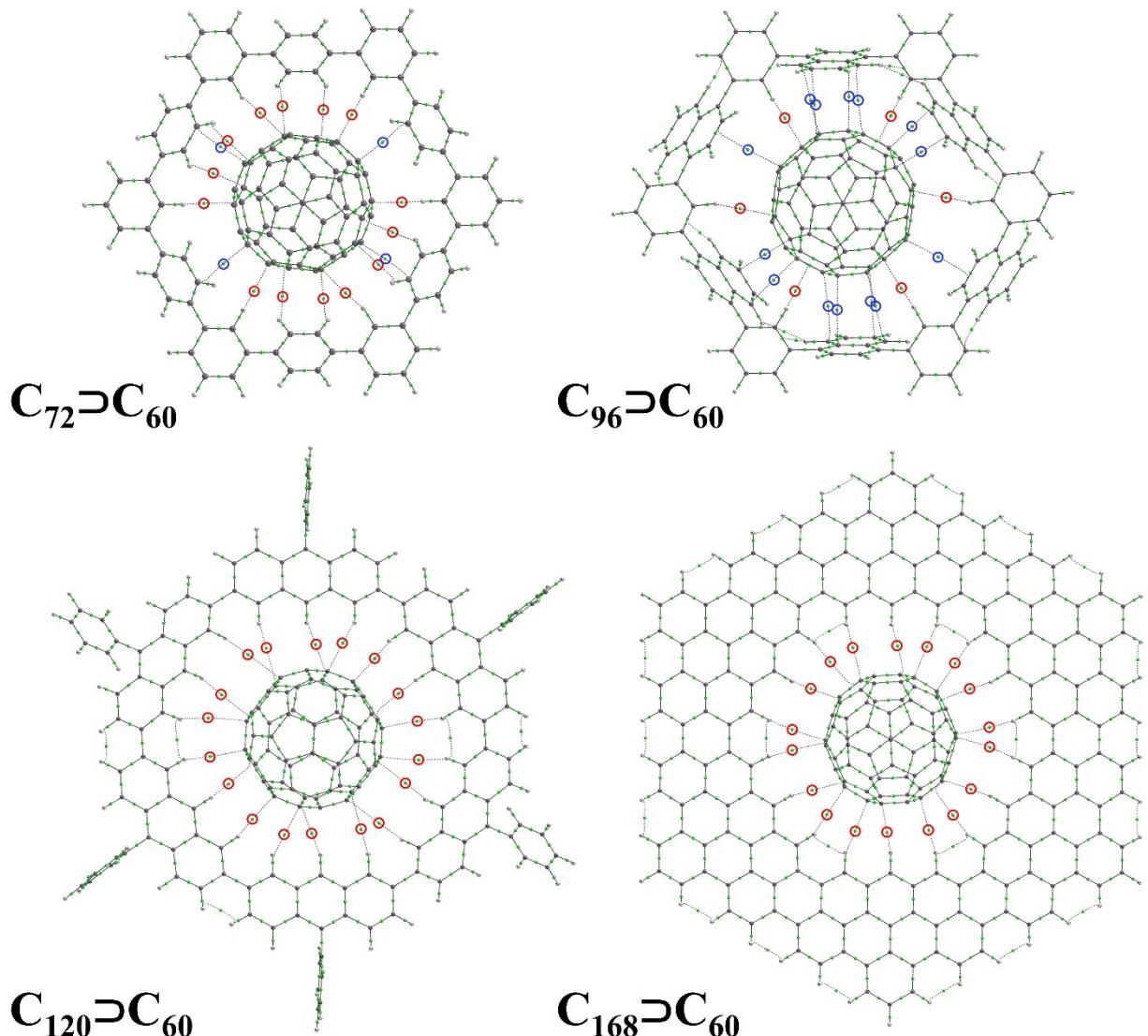
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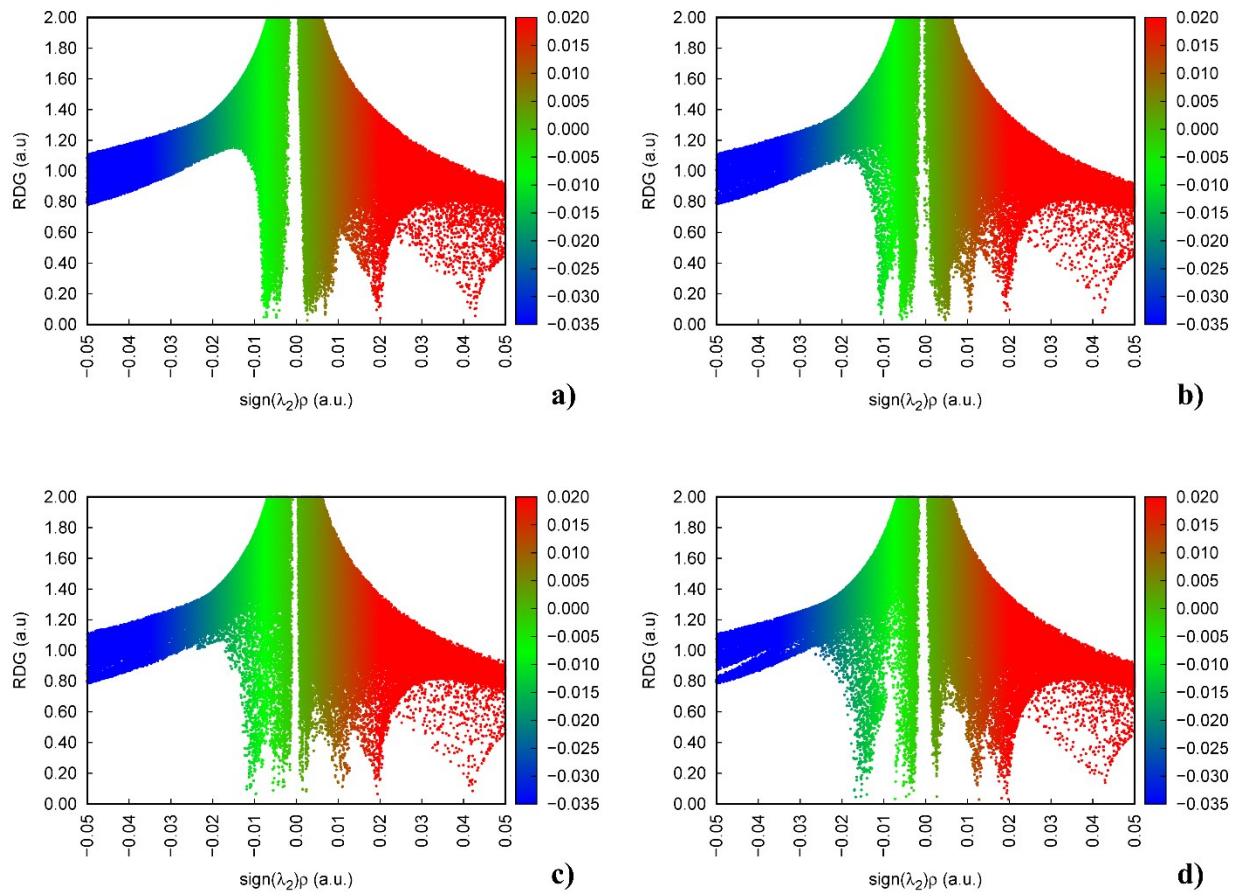
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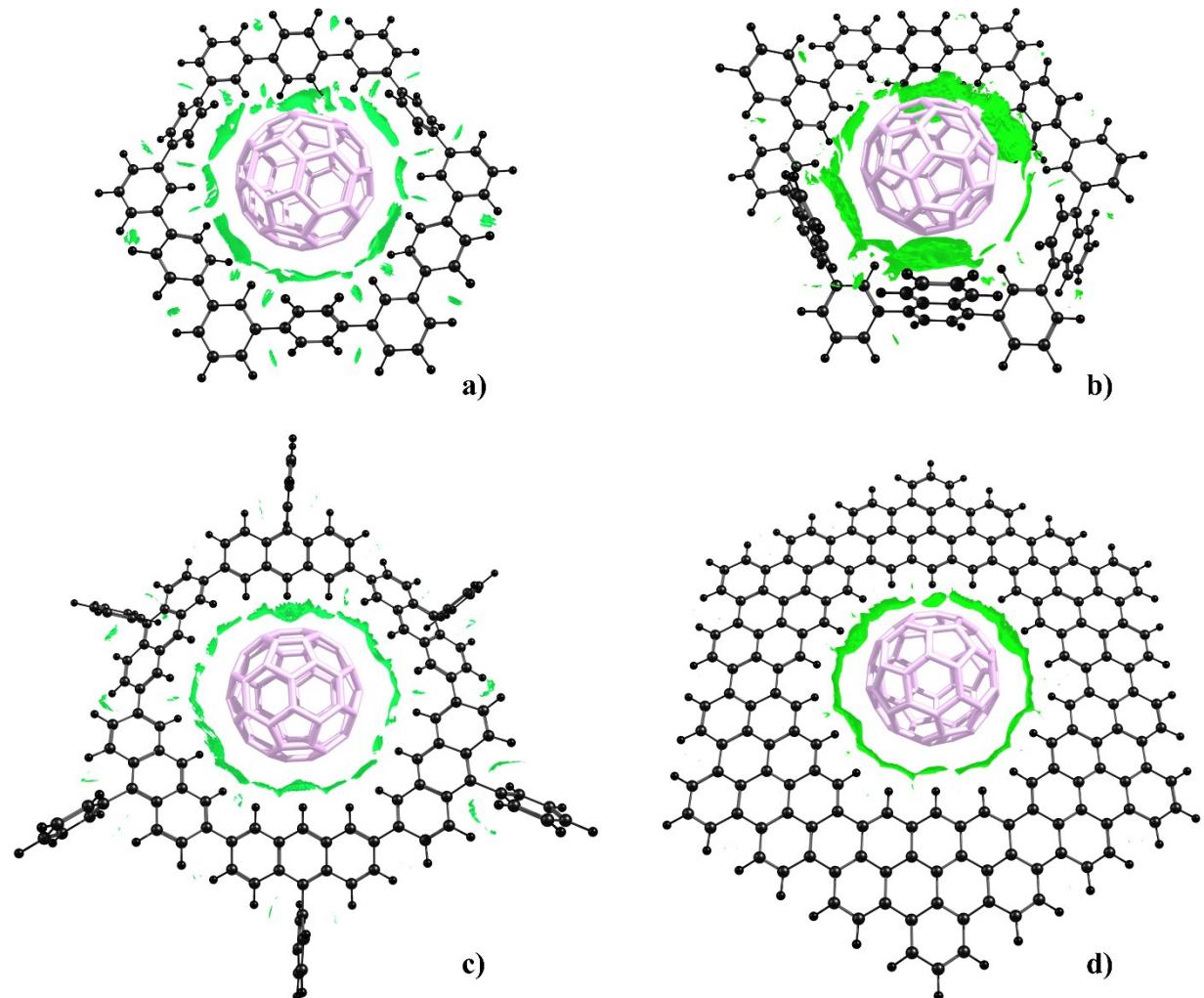
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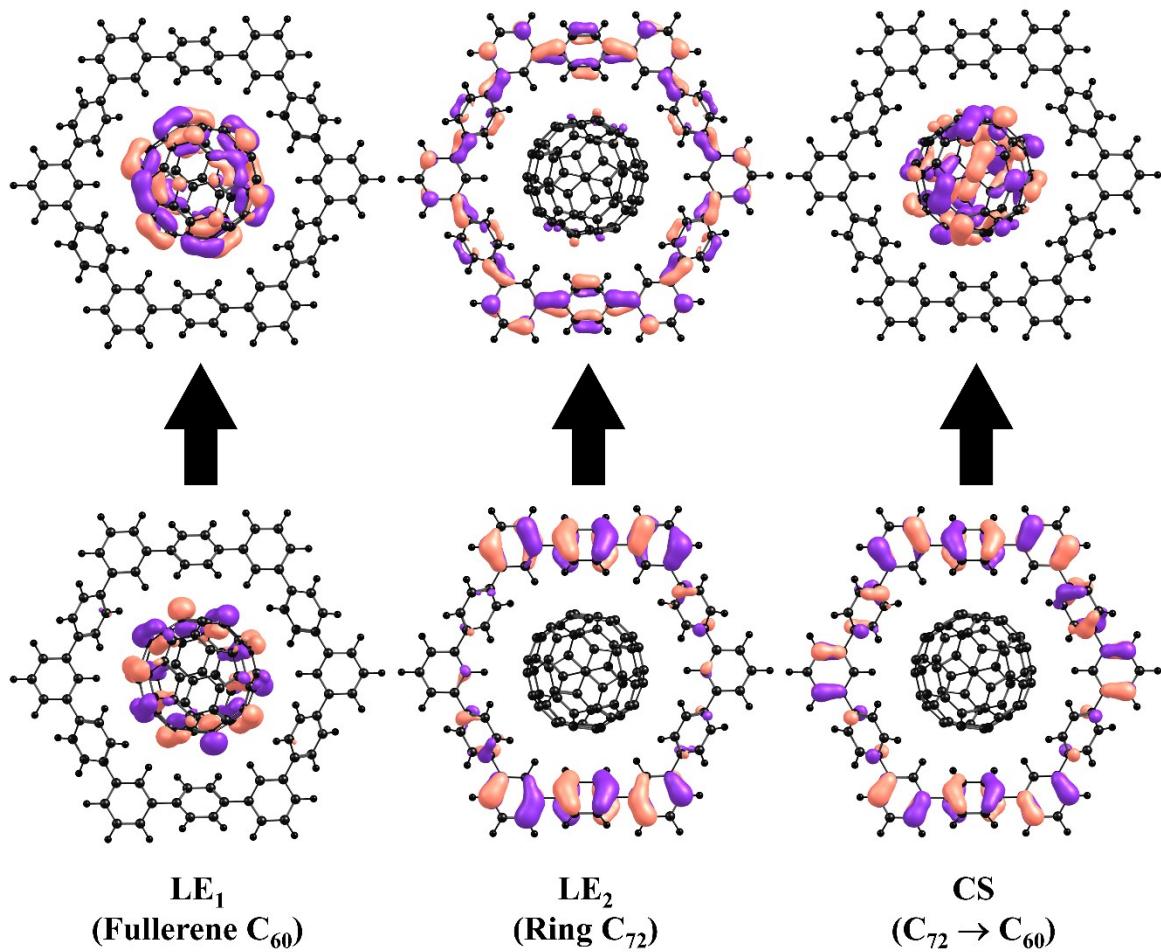
**Figure S1.** QTAIM molecular graph for the complexes **C<sub>72</sub>⊃C<sub>60</sub>**, **C<sub>96</sub>⊃C<sub>60</sub>**, **C<sub>120</sub>⊃C<sub>60</sub>**, and **C<sub>168</sub>⊃C<sub>60</sub>**. The lines connecting the nuclei are the bond paths. The small green dots correspond to BCPs. BCPs for the CH···π interactions are indicated by red circles, while BCPs corresponding to the π···π interactions are shown by blue circles.



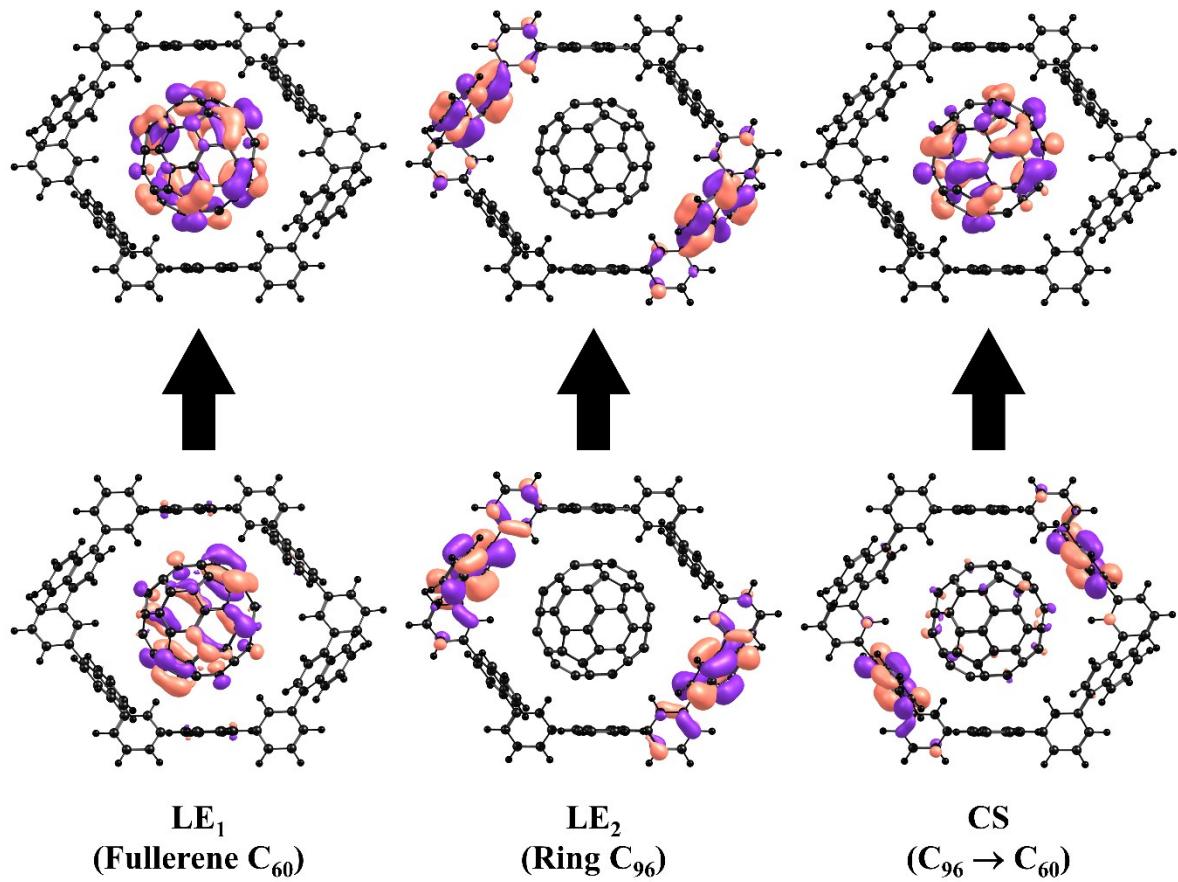
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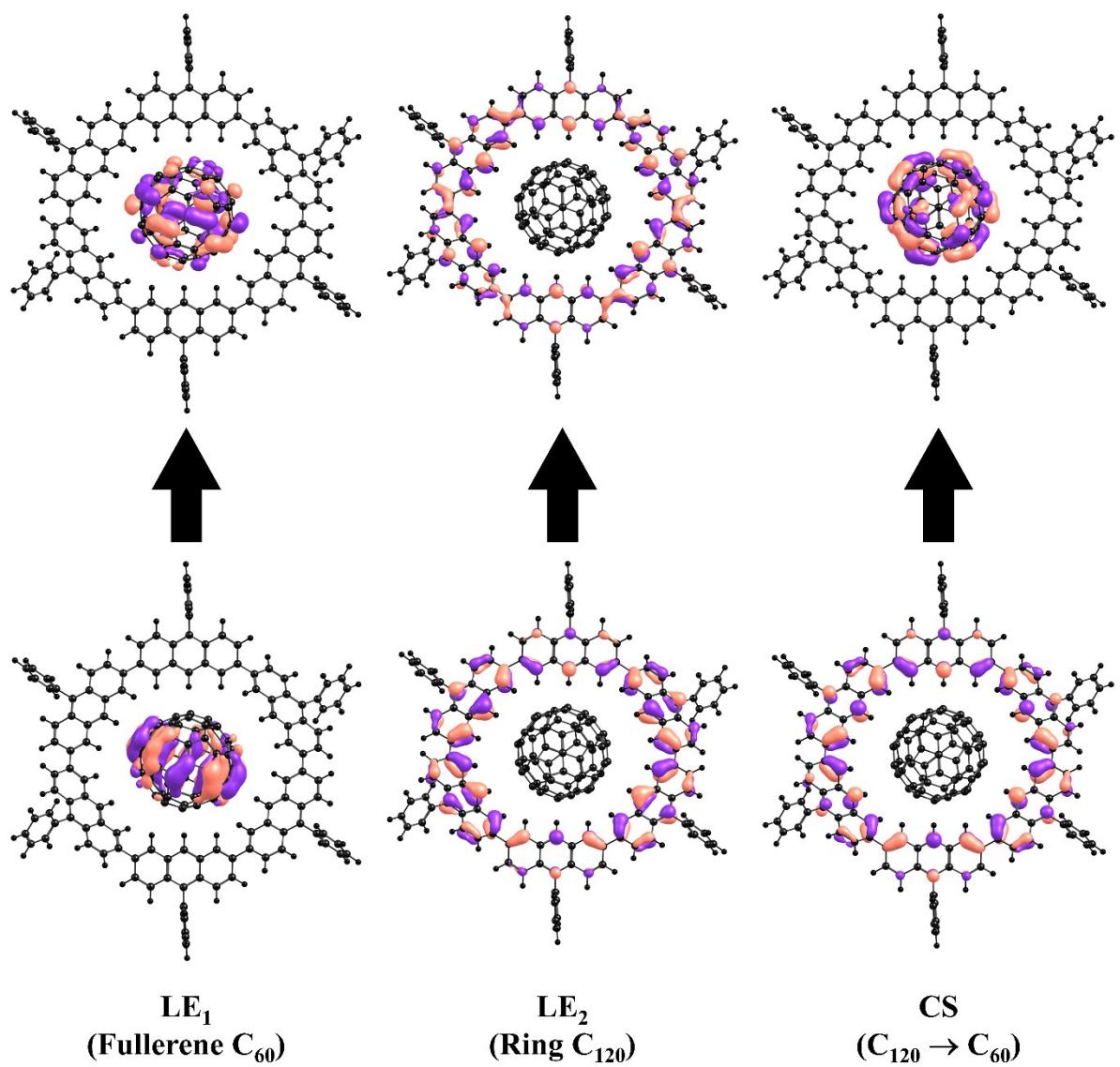
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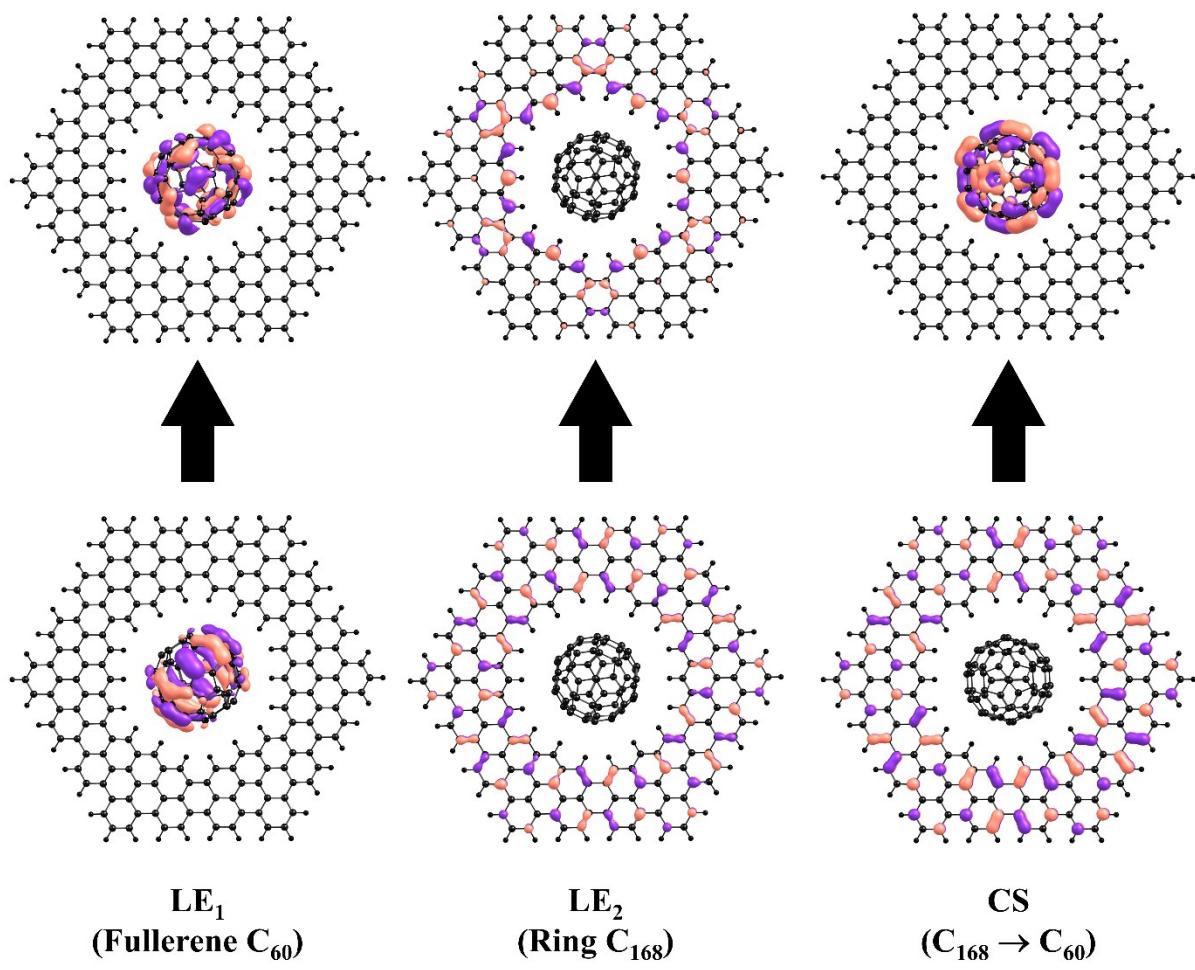
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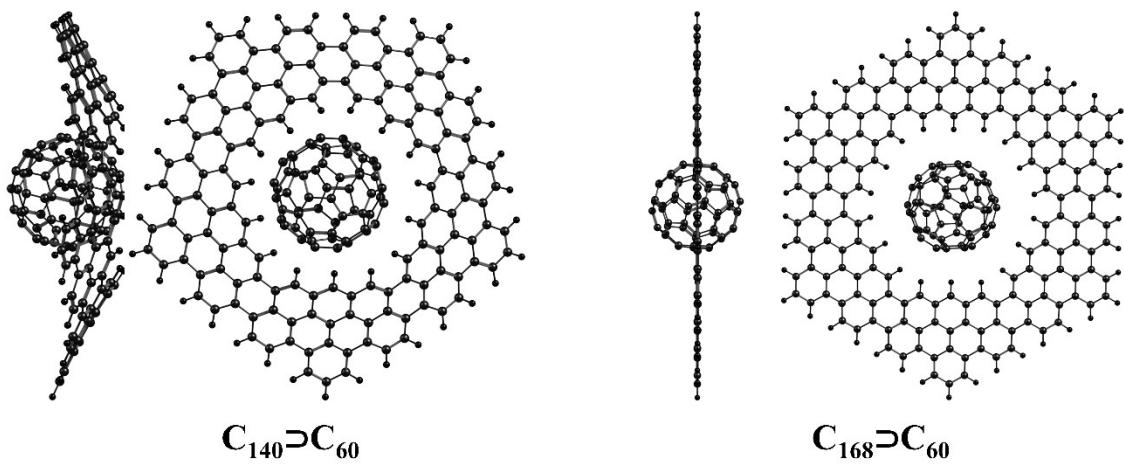
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**Figure S6.** Natural transition molecular orbitals representing the LE1, LE2, and CS states in the  $\text{C}_{120} \supset \text{C}_{60}$  complex.



**Figure S7.** Natural transition molecular orbitals representing the LE1, LE2, and CS states in the  $\mathbf{C}_{168} \supset \mathbf{C}_{60}$  complex.



**Figure S8.** Comparison of the  $\mathbf{C}_{168} \supset \mathbf{C}_{60}$  and  $\mathbf{C}_{140} \supset \mathbf{C}_{60}$  complexes.

**Table S1.** Selected bond critical points parameters (electron density [ $\rho(r)$ ], its Laplacian [ $\nabla^2\rho(r)$ ], potential energy density [ $V(r)$ ], kinetic energy density [ $G(r)$ ], and total electron energy density [ $H(r)$ ] related to the non-covalent interactions of the fragments for studied  $\text{C}_{72}\supset\text{C}_{60}$ ,  $\text{C}_{96}\supset\text{C}_{60}$ ,  $\text{C}_{120}\supset\text{C}_{60}$ , and  $\text{C}_{168}\supset\text{C}_{60}$  complexes in the gas phase.

Bond critical points	Interacting atoms	$\rho(r)$ , au	$\nabla^2\rho(r)$ , au	$V(r)$ , au	$G(r)$ , au	$H(r)$ , au
$\text{C}_{72}\supset\text{C}_{60}$						
$\text{C}_{60}\cdots\text{C}_{72}$	C…H	4.16E-03	1.29E-02	-1.95E-03	2.59E-03	6.39E-04
		8.06E-03	2.70E-02	-3.82E-03	5.29E-03	1.47E-03
		5.42E-03	1.61E-02	-2.34E-03	3.18E-03	8.40E-04
		7.14E-03	2.09E-02	-3.56E-03	4.39E-03	8.35E-04
		7.81E-03	2.29E-02	-3.92E-03	4.83E-03	9.07E-04
		4.79E-03	1.60E-02	-2.22E-03	3.11E-03	8.93E-04
		7.18E-03	2.51E-02	-3.25E-03	4.76E-03	1.52E-03
		4.12E-03	1.28E-02	-1.93E-03	2.57E-03	6.34E-04
		8.09E-03	2.71E-02	-3.85E-03	5.31E-03	1.46E-03
		5.41E-03	1.61E-02	-2.34E-03	3.18E-03	8.36E-04
		7.06E-03	2.07E-02	-3.50E-03	4.34E-03	8.33E-04
		7.79E-03	2.29E-02	-3.91E-03	4.82E-03	9.05E-04
	C…C	4.78E-03	1.60E-02	-2.21E-03	3.10E-03	8.92E-04
		7.18E-03	2.51E-02	-3.24E-03	4.76E-03	1.52E-03
		7.55E-03	2.58E-02	-3.25E-03	4.85E-03	1.60E-03
		6.99E-03	2.06E-02	-2.83E-03	3.99E-03	1.16E-03
$\text{C}_{96}\supset\text{C}_{60}$	C…H	5.71E-03	1.84E-02	-2.91E-03	3.76E-03	8.49E-04
		4.45E-03	1.35E-02	-2.04E-03	2.71E-03	6.65E-04
		5.48E-03	1.58E-02	-2.52E-03	3.24E-03	7.20E-04
		5.75E-03	1.86E-02	-2.93E-03	3.79E-03	8.54E-04
		4.51E-03	1.36E-02	-2.07E-03	2.74E-03	6.70E-04
		5.49E-03	1.59E-02	-2.52E-03	3.24E-03	7.22E-04
	C…C	6.23E-03	1.64E-02	-2.60E-03	3.34E-03	7.47E-04
		6.00E-03	1.62E-02	-2.54E-03	3.30E-03	7.55E-04
		3.78E-03	9.20E-03	-1.46E-03	1.88E-03	4.18E-04
		4.76E-03	1.19E-02	-2.01E-03	2.50E-03	4.87E-04
		5.00E-03	1.25E-02	-2.06E-03	2.59E-03	5.30E-04
		5.69E-03	1.58E-02	-2.44E-03	3.19E-03	7.50E-04
		5.91E-03	1.51E-02	-2.44E-03	3.11E-03	6.73E-04
		6.25E-03	1.65E-02	-2.61E-03	3.36E-03	7.53E-04
		5.95E-03	1.61E-02	-2.52E-03	3.27E-03	7.46E-04
		3.80E-03	9.26E-03	-1.47E-03	1.89E-03	4.23E-04

		4.75E-03	1.19E-02	-2.01E-03	2.50E-03	4.87E-04
		5.00E-03	1.25E-02	-2.05E-03	2.58E-03	5.30E-04
		5.69E-03	1.58E-02	-2.44E-03	3.19E-03	7.51E-04
		5.93E-03	1.52E-02	-2.45E-03	3.12E-03	6.76E-04
	<b><math>\mathbf{C}_{120} \supset \mathbf{C}_{60}</math></b>					
$\mathbf{C}_{60} \cdots \mathbf{C}_{120}$	C...H	1.70E-03	5.22E-03	-6.13E-04	9.60E-04	3.47E-04
		2.28E-03	6.71E-03	-8.54E-04	1.27E-03	4.12E-04
		4.29E-03	1.31E-02	-1.91E-03	2.60E-03	6.88E-04
		3.24E-03	1.02E-02	-1.33E-03	1.94E-03	6.16E-04
		5.29E-03	1.56E-02	-2.41E-03	3.16E-03	7.52E-04
		5.72E-03	1.72E-02	-2.67E-03	3.48E-03	8.15E-04
		2.92E-03	8.69E-03	-1.16E-03	1.67E-03	5.05E-04
		1.55E-03	5.06E-03	-5.75E-04	9.20E-04	3.45E-04
		3.15E-03	9.28E-03	-1.30E-03	1.81E-03	5.09E-04
		1.70E-03	5.24E-03	-6.15E-04	9.62E-04	3.47E-04
		2.32E-03	6.82E-03	-8.74E-04	1.29E-03	4.15E-04
		4.38E-03	1.35E-02	-1.96E-03	2.67E-03	7.04E-04
		3.37E-03	1.06E-02	-1.39E-03	2.02E-03	6.37E-04
		5.55E-03	1.64E-02	-2.56E-03	3.33E-03	7.71E-04
		5.75E-03	1.74E-02	-2.70E-03	3.52E-03	8.24E-04
$\mathbf{C}_{60} \cdots \mathbf{C}_{168}$	C...H	2.97E-03	8.85E-03	-1.19E-03	1.70E-03	5.13E-04
		1.57E-03	5.11E-03	-5.83E-04	9.30E-04	3.47E-04
		3.09E-03	9.13E-03	-1.28E-03	1.78E-03	5.04E-04
		<b><math>\mathbf{C}_{168} \supset \mathbf{C}_{60}</math></b>				
		3.44E-03	1.02E-02	-1.41E-03	1.98E-03	5.62E-04
		3.97E-03	1.24E-02	-1.84E-03	2.47E-03	6.34E-04
		3.49E-03	1.05E-02	-1.45E-03	2.03E-03	5.87E-04
		3.37E-03	1.01E-02	-1.39E-03	1.96E-03	5.68E-04
		5.24E-03	1.49E-02	-2.35E-03	3.04E-03	6.89E-04
		3.21E-03	8.79E-03	-1.28E-03	1.74E-03	4.59E-04
		2.61E-03	7.66E-03	-1.04E-03	1.48E-03	4.38E-04
		6.90E-03	1.97E-02	-3.32E-03	4.12E-03	8.00E-04
		3.22E-03	9.36E-03	-1.34E-03	1.84E-03	4.99E-04
		3.63E-03	1.07E-02	-1.52E-03	2.10E-03	5.83E-04
		4.68E-03	1.44E-02	-2.20E-03	2.90E-03	6.98E-04
		3.84E-03	1.16E-02	-1.64E-03	2.26E-03	6.28E-04
		3.78E-03	1.14E-02	-1.60E-03	2.22E-03	6.21E-04
		5.43E-03	1.59E-02	-2.50E-03	3.24E-03	7.33E-04
		3.50E-03	9.49E-03	-1.42E-03	1.90E-03	4.77E-04
		2.84E-03	8.41E-03	-1.15E-03	1.63E-03	4.75E-04
		7.33E-03	2.06E-02	-3.53E-03	4.34E-03	8.06E-04
		3.17E-03	9.19E-03	-1.32E-03	1.81E-03	4.91E-04

**Table S2.** Excitation energies ( $E_x$ , eV) and dipole moments in ground state ( $\mu_0$ , D), change in dipole moments between ground state and state of interest ( $\Delta\mu = \mu_i - \mu_0$ , D) and solvation energies ( $E_{\text{solv}}$ , eV) for  $\mathbf{C}_{72}\supset\mathbf{C}_{60}$ ,  $\mathbf{C}_{96}\supset\mathbf{C}_{60}$ ,  $\mathbf{C}_{120}\supset\mathbf{C}_{60}$ , and  $\mathbf{C}_{168}\supset\mathbf{C}_{60}$  complexes calculated for DCM.

	Supramolecular host-guest systems			
	$\mathbf{C}_{72}\supset\mathbf{C}_{60}$	$\mathbf{C}_{96}\supset\mathbf{C}_{60}$	$\mathbf{C}_{120}\supset\mathbf{C}_{60}$	$\mathbf{C}_{168}\supset\mathbf{C}_{60}$
	Ground state (GS)			
$E_x$	0.000	0.000	0.000	0.000
$\mu_0$	0.075	0.071	0.056	0.104
$E_{\text{solv}}$	-0.074	-0.086	-0.129	-0.141
	$LE_1$ (Fullerene $\mathbf{C}_{60}$ )			
$E_x$	2.540	2.548	2.566	2.558
$\Delta\mu$	0.02	0.05	0.02	0.04
$E_{\text{solv}}$	-0.074	-0.092	-0.132	-0.146
	$LE_2$ (Host)			
$E_x$	4.932	4.283	3.392	2.355
$\Delta\mu$	0.07	0.04	0.04	0.02
$E_{\text{solv}}$	-0.067	-0.085	-0.128	-0.141
	Most absorptive transition			
$E_x$	4.967	4.389	4.146	2.643
$\Delta\mu$	0.25	0.78	0.01	0.14
$E_{\text{solv}}$	-0.067	-0.087	-0.133	-0.144
	CS (Host $\rightarrow$ Fullerene $\mathbf{C}_{60}$ )			
$E_x$	2.799	2.880	1.980	1.524
$\Delta\mu$	22.22	0.65	0.80	11.01
$E_{\text{solv}}$	-0.680	-0.589	-0.419	-0.538

**Table S3.** Computed semi-classical rates ( $k_{CS}$  in  $s^{-1}$ ) and characteristic times ( $\tau$  in ps) for the CS process in  $\mathbf{C}_{168}\supset\mathbf{C}_{60}$  complexes in DCM solution using different effective Huang-Rhys ( $S_{\text{eff}}$ ) factors.

$\hbar\omega_{\text{eff}}$	$\Delta G^0$ , eV	$ V $ , eV	$\lambda_i$	$\lambda_s$	$S_{\text{eff}}$	$k_{CS}$ , $s^{-1}$	$\tau$ , ps
	$LE_1 \rightarrow CS$						
1200					0.706	$2.55 \cdot 10^9$	392.0
1400					0.605	$2.68 \cdot 10^9$	373.3
1600					0.529	$2.77 \cdot 10^9$	360.5
1800					0.470	$2.84 \cdot 10^9$	352.4
2000					0.423	$2.89 \cdot 10^9$	346.4

## Cartesian coordinates

### $C_{72} \supset C_{60}$

Gas-phase. B3LYP-D3(BJ)/def2-SVP

Atom	X	Y	Z
6	-0.857701000	3.379779000	-0.672144000
6	0.221713000	3.157544000	-1.623521000
6	-0.287379000	2.309493000	-2.693506000
6	-1.684009000	2.012907000	-2.406324000
6	-2.036583000	2.676949000	-1.157767000
6	1.531493000	2.993551000	-1.164028000
6	2.388308000	1.972981000	-1.753352000
6	1.899716000	1.158088000	-2.779354000
6	0.534403000	1.329728000	-3.258344000
6	-0.006120000	0.011078000	-3.559919000
6	-1.346744000	-0.274632000	-3.283462000
6	-2.202902000	0.747044000	-2.695607000
6	-3.096824000	0.094829000	-1.747772000
6	-2.790794000	-1.329918000	-1.750443000
6	-1.711675000	-1.559536000	-2.701010000
6	-2.833752000	-2.053722000	-0.556908000
6	-3.192679000	-1.392121000	0.688522000
6	-3.483918000	-0.026361000	0.691972000
6	-3.433846000	0.733003000	-0.550721000
6	-2.891992000	2.049210000	-0.249912000
6	-2.976849000	0.822900000	1.761208000
6	-2.607074000	2.103975000	1.177417000
6	-1.481420000	2.787338000	1.643187000
6	-0.671007000	2.213664000	2.709769000
6	-1.022631000	0.980035000	3.267550000
6	-2.200305000	0.271095000	2.784977000
6	0.725241000	2.513336000	2.421871000
6	-0.587558000	3.441716000	0.697542000
6	0.775761000	3.271140000	1.177263000
6	1.811668000	3.048844000	0.264830000
6	0.859005000	-3.376137000	0.673310000
6	-0.220424000	-3.153887000	1.624652000
6	0.288677000	-2.305794000	2.694616000
6	1.685301000	-2.009184000	2.407401000
6	2.037859000	-2.673233000	1.158867000
6	-1.530222000	-2.989891000	1.165126000
6	-2.387032000	-1.969288000	1.754436000
6	-1.898445000	-1.154398000	2.780435000
6	-0.533112000	-1.326023000	3.259403000
6	0.007417000	-0.007377000	3.560944000
6	1.348057000	0.278344000	3.284499000
6	2.204195000	-0.743315000	2.696634000
6	3.098144000	-0.091083000	1.748824000
6	2.792185000	1.333683000	1.751506000
6	1.713019000	1.563238000	2.702058000
6	2.835199000	2.057545000	0.557940000
6	3.194058000	1.395868000	-0.687484000
6	3.485174000	0.030063000	-0.690904000
6	3.435103000	-0.729288000	0.551776000
6	2.893237000	-2.045497000	0.251001000

### $C_{96} \supset C_{60}$

Gas-phase. B3LYP-D3(BJ)/def2-SVP

Atom	X	Y	Z
6	0.352052000	5.245971000	6.400633000
6	1.081944000	5.316818000	7.659449000
6	1.381790000	6.560649000	8.224074000
6	0.965098000	7.785892000	7.553407000
6	0.264075000	7.716066000	6.345372000
6	-0.047801000	6.420086000	5.757408000
6	-1.370226000	6.507018000	5.152397000
6	-2.239770000	5.415742000	5.218100000
6	-1.823405000	4.191679000	5.888663000
6	-0.554376000	4.108357000	6.467849000
6	-0.383245000	3.472983000	7.768665000
6	0.627545000	4.221283000	8.505629000
6	0.491350000	4.414611000	9.884505000
6	0.801785000	5.712701000	10.472846000
6	1.238834000	6.763534000	9.660146000
6	0.734702000	8.114548000	9.876749000
6	0.564023000	8.745141000	8.573381000
6	-0.521067000	9.598303000	8.343207000
6	-1.251097000	9.525457000	7.083770000
6	-0.865045000	8.603715000	6.104585000
6	-1.875067000	7.856669000	5.367124000
6	-3.231587000	8.061551000	5.637686000
6	-4.138549000	6.922236000	5.705358000
6	-3.652486000	5.626397000	5.498848000
6	-1.492381000	2.946954000	8.437767000
6	-1.637378000	3.150770000	9.873338000
6	-0.667344000	3.869429000	10.581853000
6	-0.189953000	8.361868000	10.896572000
6	-1.321153000	9.250672000	10.655862000
6	-1.484361000	9.856167000	9.405824000
6	-4.653924000	7.645726000	10.838118000
6	-5.383771000	7.574883000	9.579292000
6	-5.683647000	6.331086000	9.014687000
6	-5.266991000	5.105833000	9.685381000
6	-4.565905000	5.175664000	10.893400000
6	-4.254011000	6.471604000	11.481341000
6	-2.931597000	6.384655000	12.086412000
6	-2.062083000	7.475907000	12.020697000
6	-2.478469000	8.699977000	11.350178000
6	-3.747430000	8.783278000	10.770870000
6	-3.918425000	9.418632000	9.470062000
6	-4.929291000	8.670426000	8.733186000
6	-4.793171000	8.477163000	7.354276000
6	-5.103585000	7.179048000	6.765961000
6	-5.540645000	6.128193000	7.578622000
6	-5.036551000	4.777146000	7.362073000
6	-4.865859000	4.146608000	8.665458000
6	-3.780734000	3.293388000	8.895650000
6	-3.050712000	3.366248000	10.155051000
6	-3.436832000	4.287941000	11.134274000

6	2.978099000	-0.819204000	-1.760116000	6	-2.426799000	5.035010000	11.871698000
6	2.608330000	-2.100287000	-1.176322000	6	-1.070246000	4.830106000	11.601138000
6	1.482699000	-2.783679000	-1.642087000	6	-0.163292000	5.969433000	11.533449000
6	0.672297000	-2.210000000	-2.708670000	6	-0.649342000	7.265251000	11.739969000
6	1.023906000	-0.976351000	-3.266471000	6	-2.809442000	9.944978000	8.801003000
6	2.201548000	-0.267396000	-2.783872000	6	-2.664458000	9.740972000	7.365495000
6	-0.723925000	-2.509665000	-2.420790000	6	-3.634457000	9.022350000	6.656897000
6	0.588872000	-3.438105000	-0.696427000	6	-4.111929000	4.529823000	6.342245000
6	-0.774447000	-3.267479000	-1.176165000	6	-2.980744000	3.641060000	6.582956000
6	-1.810343000	-3.045149000	-0.263743000	6	-2.817437000	3.035692000	7.833003000
6	3.551135000	-8.775029000	-0.000373000	6	-6.810600000	4.601134000	3.259201000
6	4.945833000	-8.754526000	0.040956000	1	-6.107703000	5.055188000	3.960206000
6	5.634511000	-7.541186000	0.057230000	6	-7.939015000	5.330515000	2.856896000
6	4.933092000	-6.323399000	0.016953000	6	-8.844308000	4.740928000	1.957339000
6	3.530088000	-6.359066000	-0.022821000	1	-9.733841000	5.292450000	1.644914000
6	2.821777000	-7.573156000	-0.021744000	6	-8.617576000	3.449423000	1.479313000
1	3.018789000	-9.728469000	0.015649000	1	-9.328728000	2.993871000	0.785574000
1	5.503193000	-9.694326000	0.065427000	6	-7.487351000	2.735860000	1.885090000
1	6.726697000	-7.530981000	0.074909000	1	-7.301703000	1.731047000	1.498987000
1	2.976065000	-5.418983000	-0.052400000	6	-6.567520000	3.306703000	2.779516000
6	1.338051000	-7.581672000	-0.017403000	6	-5.382041000	2.525245000	3.219482000
6	0.618988000	-6.657266000	0.759509000	6	-5.584631000	1.315960000	3.861466000
6	0.602135000	-8.507041000	-0.779583000	1	-6.605112000	0.989689000	4.076554000
6	-0.773024000	-6.640635000	0.759446000	6	-4.501896000	0.509198000	4.262218000
1	1.161929000	-5.955769000	1.393935000	1	-4.695490000	-0.426531000	4.791480000
6	-0.792067000	-8.497191000	-0.773568000	6	-3.192382000	0.884187000	4.018115000
1	1.131394000	-9.223972000	-1.411150000	6	-2.934323000	2.121875000	3.339819000
6	-1.509778000	-7.558371000	-0.009845000	6	-1.615376000	2.530745000	2.989447000
1	-1.298352000	-5.919426000	1.388146000	1	-0.780325000	1.879021000	3.244669000
1	-1.336103000	-9.208042000	-1.399294000	6	-1.383229000	3.716134000	2.325251000
6	-2.993507000	-7.537191000	0.001697000	1	-0.363156000	4.011779000	2.066419000
6	-3.690349000	-6.317633000	0.014411000	6	-2.467024000	4.550270000	1.966282000
6	-3.734604000	-8.731877000	0.029383000	1	-2.279453000	5.488562000	1.439180000
6	-5.091955000	-6.266726000	0.074106000	6	-3.759642000	4.173236000	2.262104000
1	-3.127251000	-5.383827000	-0.019634000	1	-4.590127000	4.807520000	1.953625000
6	-5.128510000	-8.697024000	0.089417000	6	-4.039091000	2.958587000	2.951514000
1	-3.212346000	-9.690984000	0.036921000	6	-2.102324000	-0.025545000	4.455910000
6	-5.805540000	-7.477055000	0.118815000	6	-2.063966000	-1.349249000	3.986182000
1	-5.694519000	-9.631526000	0.117912000	1	-2.806691000	-1.678414000	3.255733000
1	-6.897233000	-7.456529000	0.152628000	6	-1.083627000	-2.230657000	4.443889000
6	-5.802900000	-4.963932000	0.086720000	1	-1.052609000	-3.254783000	4.063288000
6	-5.412337000	-3.915267000	-0.763973000	6	-0.138473000	-1.806224000	5.378791000
6	-6.887835000	-4.737110000	0.953351000	1	0.632350000	-2.493915000	5.733939000
6	-6.072528000	-2.688059000	-0.744675000	6	-0.157442000	-0.486826000	5.863610000
1	-4.593282000	-4.071921000	-1.467686000	6	-1.142701000	0.391806000	5.388752000
6	-7.552634000	-3.512566000	0.967872000	1	-1.192263000	1.406894000	5.780734000
1	-7.197041000	-5.525444000	1.643879000	6	0.818894000	-0.074153000	6.905287000
6	-7.156065000	-2.461337000	0.120701000	6	0.885136000	-0.811205000	8.076360000
1	-5.756644000	-1.897875000	-1.428957000	1	0.196888000	-1.647376000	8.218184000
1	-8.376477000	-3.354993000	1.667963000	6	1.801071000	-0.490761000	9.098148000
6	-7.875540000	-1.163424000	0.119109000	1	1.810719000	-1.082575000	10.016306000
6	-9.280736000	-1.126979000	0.136039000	6	2.669802000	0.578237000	8.972922000
6	-7.172860000	0.051713000	0.073417000	6	2.641227000	1.368303000	7.775327000
6	-9.956180000	0.092818000	0.085933000	6	3.537209000	2.457721000	7.572727000
1	-9.843179000	-2.063239000	0.158821000	1	4.244850000	2.711237000	8.362311000
6	-7.839431000	1.286749000	0.030132000	6	3.527604000	3.186211000	6.402591000
1	-6.082618000	0.035910000	0.070822000	1	4.220965000	4.020157000	6.269897000

6	-9.245320000	1.291965000	0.027058000	6	2.624495000	2.850385000	5.367124000
1	-11.049091000	0.109264000	0.090975000	1	2.630498000	3.421213000	4.435773000
1	-9.780045000	2.244411000	0.006592000	6	1.743208000	1.802600000	5.528142000
6	-7.083060000	2.563751000	0.005456000	1	1.058164000	1.544375000	4.721531000
6	-5.989530000	2.778728000	0.861541000	6	1.711781000	1.035974000	6.728200000
6	-7.454229000	3.606568000	-0.863103000	6	3.624677000	0.881919000	10.071649000
6	-5.296100000	3.988086000	0.851312000	6	4.645451000	-0.019653000	10.410659000
1	-5.693522000	1.994288000	1.561679000	1	4.749826000	-0.949236000	9.846485000
6	-6.758305000	4.813466000	-0.875922000	6	5.536140000	0.284747000	11.444394000
1	-8.285126000	3.455966000	-1.556295000	1	6.343222000	-0.410526000	11.689198000
6	-5.665082000	5.029478000	-0.017349000	6	5.407016000	1.475518000	12.160776000
1	-4.467901000	4.138055000	1.546035000	1	6.117607000	1.715967000	12.954456000
1	-7.051619000	5.596668000	-1.579093000	6	4.374781000	2.381404000	11.853873000
6	-4.932491000	6.320439000	-0.025520000	6	3.500157000	2.070387000	10.802269000
6	-3.529523000	6.356454000	0.014913000	1	2.690115000	2.761150000	10.559231000
6	-5.634211000	7.537972000	-0.067536000	6	4.199680000	3.669908000	12.568235000
6	-2.821643000	7.570766000	0.013414000	6	4.058945000	4.825800000	11.817311000
1	-2.975162000	5.416571000	0.045326000	1	4.104440000	4.762497000	10.728193000
6	-4.945910000	8.751547000	-0.052100000	6	3.882663000	6.081959000	12.425736000
1	-6.726380000	7.527305000	-0.086425000	1	3.779963000	6.970535000	11.799278000
6	-3.551246000	8.772447000	-0.009555000	6	3.978104000	5.046960000	14.623683000
1	-5.503551000	9.691151000	-0.077607000	6	3.860016000	6.218612000	13.803200000
1	-3.019009000	9.725949000	-0.025666000	6	3.887752000	5.109542000	16.043930000
6	-1.337889000	7.579746000	0.010830000	1	3.758061000	6.080092000	16.522212000
6	-0.617418000	6.658293000	-0.768280000	6	3.934579000	3.969973000	16.817447000
6	-0.603552000	8.501984000	0.778280000	1	3.857472000	4.046506000	17.904997000
6	0.774637000	6.641422000	-0.765119000	6	4.049488000	2.701061000	16.204603000
1	-1.159323000	5.959376000	-1.406417000	1	4.051921000	1.796858000	16.818160000
6	0.790649000	8.492087000	0.775148000	6	4.137260000	2.601091000	14.832804000
1	-1.134201000	9.216048000	1.411924000	1	4.194476000	1.616884000	14.369506000
6	1.509748000	7.556025000	0.009418000	6	4.127948000	3.757539000	14.000499000
1	1.301411000	5.922653000	-1.395444000	6	2.515405000	8.299126000	13.978814000
1	1.333585000	9.200319000	1.404801000	1	1.812040000	7.845041000	13.278296000
6	2.993511000	7.534599000	0.001221000	6	3.645023000	7.570447000	14.379064000
6	3.690129000	6.314904000	-0.010477000	6	4.551171000	8.160151000	15.277594000
6	3.734792000	8.729192000	-0.023404000	1	5.441393000	7.608955000	15.588658000
6	5.091814000	6.263959000	-0.066969000	6	4.323964000	9.451058000	15.757064000
1	3.126882000	5.381127000	0.022177000	1	5.035659000	9.906632000	16.450230000
6	5.128853000	8.694221000	-0.080220000	6	3.192226000	10.163642000	15.353967000
1	3.212545000	9.688319000	-0.030603000	1	3.005972000	11.167726000	15.741650000
6	5.805727000	7.474152000	-0.109529000	6	2.271445000	9.592708000	14.460432000
1	5.695043000	9.628663000	-0.107036000	6	1.083991000	10.373213000	14.024300000
1	6.897502000	7.453255000	-0.140708000	6	1.283637000	11.586152000	13.388209000
6	5.802687000	4.961055000	-0.079562000	1	2.303347000	11.915883000	13.174790000
6	5.415547000	3.914109000	0.774859000	6	0.199056000	12.391888000	12.990350000
6	6.884123000	4.733096000	-0.950184000	1	0.390551000	13.330235000	12.464952000
6	6.076109000	2.687035000	0.755269000	6	-1.109600000	12.012366000	13.232028000
1	4.599175000	4.072351000	1.481371000	6	-1.364610000	10.771466000	13.905508000
6	7.548781000	3.508483000	-0.965555000	6	-2.682671000	10.358411000	14.254299000
1	7.190258000	5.520522000	-1.643127000	1	-3.518992000	11.009846000	14.002422000
6	7.155570000	2.458892000	-0.114852000	6	-2.912451000	9.169551000	14.913026000
1	5.764234000	1.897609000	1.442337000	1	-3.932026000	8.870911000	15.170362000
1	8.369896000	3.349497000	-1.668537000	6	-1.826907000	8.336040000	15.267996000
6	7.875250000	1.161001000	-0.114618000	1	-2.012209000	7.394615000	15.790289000
6	7.172745000	-0.054235000	-0.070396000	6	-0.535074000	8.717403000	14.974357000
6	9.280435000	1.124979000	-0.132016000	1	0.296564000	8.083543000	15.280494000
6	7.839555000	-1.289270000	-0.029846000	6	-0.258016000	9.935593000	14.290332000

1	6.082526000	-0.038310000	-0.067155000	6	-2.202327000	12.919599000	12.795831000
6	9.956107000	-0.094786000	-0.083862000	6	-2.246872000	14.241475000	13.270038000
1	9.842493000	2.061514000	-0.153287000	1	-1.506677000	14.571113000	14.002846000
6	9.245444000	-1.294143000	-0.026968000	6	-3.230287000	15.120337000	12.813991000
1	11.049017000	-0.111109000	-0.089404000	1	-3.266469000	16.142942000	13.198196000
1	9.780450000	-2.246473000	-0.008669000	6	-4.172022000	14.695254000	11.875950000
6	5.665806000	-5.032532000	0.010799000	1	-4.945005000	15.380973000	11.521699000
6	5.295586000	-3.988891000	-0.854582000	6	-4.146530000	13.377744000	11.386350000
6	6.760598000	-4.818806000	0.867995000	6	-3.158603000	12.501456000	11.859828000
6	5.988767000	-2.779364000	-0.862434000	1	-3.104040000	11.487949000	11.464278000
1	4.465695000	-4.136423000	-1.547812000	6	-5.119595000	12.965290000	10.341441000
6	7.456225000	-3.611743000	0.857599000	6	-5.183794000	13.704429000	9.171599000
1	7.054647000	-5.603574000	1.569096000	1	-4.495677000	14.541215000	9.032767000
6	7.083440000	-2.566431000	-0.007281000	6	-6.097825000	13.385638000	8.147580000
1	5.692002000	-1.993439000	-1.560564000	1	-6.105721000	13.978906000	7.230339000
1	8.288523000	-3.463208000	1.549553000	6	-6.967244000	12.316871000	8.269803000
				6	-6.940907000	11.524819000	9.466155000
				6	-7.838327000	10.436097000	9.666018000
				1	-8.545618000	10.184854000	8.875387000
				6	-7.830689000	9.705586000	10.834928000
				1	-8.525486000	8.872537000	10.965753000
				6	-6.927300000	10.037767000	11.871332000
				1	-6.933995000	9.464562000	12.801215000
				6	-6.044742000	11.084901000	11.713025000
				1	-5.358972000	11.340039000	12.520012000
				6	-6.012357000	11.854532000	10.514901000
				6	-7.920545000	12.015451000	7.169140000
				6	-8.940175000	12.918148000	6.829640000
				1	-9.044812000	13.847133000	7.394750000
				6	-9.829450000	12.615567000	5.794145000
				1	-10.635692000	13.311657000	5.548890000
				6	-9.700019000	11.425531000	5.076565000
				1	-10.409653000	11.186465000	4.281615000
				6	-8.668832000	10.518600000	5.383970000
				6	-7.795600000	10.827878000	6.437213000
				1	-6.986483000	10.136245000	6.680830000
				6	-8.493599000	9.230591000	4.668794000
				6	-8.353951000	8.074193000	5.419150000
				1	-8.400464000	8.137029000	6.508245000
				6	-8.177504000	6.818335000	4.810237000
				1	-8.075884000	5.929492000	5.436471000
				6	-8.271126000	7.854500000	2.612789000
				6	-8.153938000	6.682348000	3.432705000
				6	-8.180041000	7.792554000	1.192580000
				1	-8.050253000	6.822181000	0.713973000
				6	-8.225795000	8.932522000	0.419567000
				1	-8.147923000	8.856460000	-0.667961000
				6	-8.340317000	10.201185000	1.032977000
				1	-8.341646000	11.105745000	0.419943000
				6	-8.429043000	10.300504000	2.404775000
				1	-8.485736000	11.284550000	2.868482000
				6	-8.421050000	9.143660000	3.236524000

**C<sub>120</sub>⊃C<sub>60</sub>**

Gas-phase. B3LYP-D3(BJ)/def2-SVP

Atom	X	Y	Z
6	11.584348000	7.762391000	11.461188000
6	12.598726000	7.187830000	10.587340000
6	11.918807000	6.542214000	9.471789000
6	10.483810000	6.718819000	9.654995000
6	10.277086000	7.473120000	10.885442000
6	13.746125000	6.607774000	11.136574000
6	14.265027000	5.360782000	10.592128000
6	13.613869000	4.741048000	9.521760000
6	12.416927000	5.344234000	8.949411000
6	11.500284000	4.270213000	8.589952000
6	10.123693000	4.438135000	8.765928000
6	9.603964000	5.687051000	9.308900000
6	8.482538000	5.365636000	10.182444000
6	8.307641000	3.918925000	10.177216000
6	9.322880000	3.345790000	9.303402000
6	7.941811000	3.254860000	11.351981000
6	7.735554000	4.008025000	12.581364000
6	7.902902000	5.396066000	12.586929000
6	8.284562000	6.089558000	11.362888000
6	9.199674000	7.165588000	11.722260000
6	8.582674000	6.041359000	13.701436000
6	9.382780000	7.136076000	13.168728000
6	10.637869000	7.413951000	13.720403000
6	11.141624000	6.614491000	14.830207000
6	10.372022000	5.565204000	15.342279000
6	9.066442000	5.273168000	14.765447000
6	12.575995000	6.438752000	14.644464000
6	11.760328000	7.733280000	12.848370000
6	12.957149000	7.129661000	13.419933000
6	13.930715000	6.579631000	12.581239000
6	10.919845000	0.806827000	12.820588000
6	9.905489000	1.381271000	13.694497000
6	10.585378000	2.026923000	14.810022000
6	12.020203000	1.850399000	14.626813000
6	12.227183000	1.095955000	13.396458000
6	8.758060000	1.961255000	13.145321000
6	8.239249000	3.208260000	13.689732000
6	8.890470000	3.827917000	14.760143000
6	10.087452000	3.224891000	15.332609000
6	11.003972000	4.298840000	15.692155000
6	12.380573000	4.131042000	15.515995000
6	12.900103000	2.882123000	14.972998000
6	14.021840000	3.203389000	14.099598000
6	14.196689000	4.650116000	14.104778000
6	13.181493000	5.223289000	14.978646000
6	14.562450000	5.314164000	12.929912000
6	14.768718000	4.560942000	11.700598000
6	14.601541000	3.172892000	11.694979000
6	14.219862000	2.479481000	12.919122000
6	13.304425000	1.403718000	12.559666000
6	13.921786000	2.527574000	10.580483000
6	13.121460000	1.432950000	11.113220000
6	11.866373000	1.155010000	10.561516000

**C<sub>168</sub>⊃C<sub>60</sub>**

Gas-phase. B3LYP-D3(BJ)/def2-SVP

Atom	X	Y	Z
6	-1.341822000	3.158461000	4.867422000
6	-1.310732000	2.446174000	6.136856000
6	-2.177034000	1.371300000	6.357283000
6	-3.111123000	0.961525000	5.315599000
6	-3.143974000	1.646576000	4.095694000
6	-2.236619000	2.765508000	3.867112000
6	0.025954000	3.524269000	4.521034000
6	0.444475000	3.477763000	3.186775000
6	1.757662000	2.939139000	2.854464000
6	2.599145000	2.470589000	3.869059000
6	2.163552000	2.519676000	5.258495000
6	0.903171000	3.035229000	5.577504000
6	0.076263000	2.369546000	6.575138000
6	2.650602000	1.318582000	5.924722000
6	0.543115000	1.217151000	7.213754000
6	1.856226000	0.680871000	6.882371000
6	1.767081000	-0.772795000	6.905117000
6	0.398975000	-1.134646000	7.251438000
6	-0.357824000	0.095681000	7.442353000
6	-1.689510000	0.170828000	7.023198000
6	-2.321071000	-0.981515000	6.393757000
6	-1.594265000	-2.162085000	6.210129000
6	-0.206577000	-2.241221000	6.648354000
6	-3.198790000	-0.492728000	5.338025000
6	-3.315820000	-1.205426000	4.140041000
6	-2.556633000	-2.435904000	3.948647000
6	-1.714987000	-2.904467000	4.963117000
6	-3.346328000	-0.492825000	2.869277000
6	-2.607801000	-1.283654000	1.893384000
6	-1.813258000	-0.646149000	0.935821000
6	-1.724224000	0.807484000	0.912962000
6	-2.434015000	1.567376000	1.847762000
6	-3.262661000	0.903738000	2.846806000
6	-0.356110000	1.169340000	0.566445000
6	0.249438000	2.276039000	1.169293000
6	-0.488562000	3.068255000	2.144356000
6	-1.801349000	2.719180000	2.477872000
6	1.637114000	2.196788000	1.607546000
6	2.363748000	1.016218000	1.423970000
6	1.732203000	-0.136279000	0.794421000
6	0.400576000	-0.061045000	0.375482000
6	-0.500244000	-1.182486000	0.604279000
6	-0.033330000	-2.334805000	1.242882000
6	1.353833000	-2.411945000	1.680931000
6	2.219877000	-1.336786000	1.460395000
6	3.241045000	0.527395000	2.479707000
6	3.153976000	-0.926738000	2.502005000
6	3.186755000	-1.611754000	3.721808000
6	3.305020000	-0.869143000	4.970998000
6	3.388100000	0.527409000	4.948484000
6	3.357594000	1.239973000	3.677646000
6	2.476683000	-1.532777000	5.970179000
6	1.844305000	-2.684526000	5.339854000

6	11.362612000	1.954527000	9.451717000	6	2.280085000	-2.731132000	3.950449000
6	12.132122000	3.004008000	8.940140000	6	0.531373000	-3.033606000	5.673431000
6	13.438093000	3.295623000	9.516217000	6	-0.401561000	-3.443472000	4.631092000
6	9.928275000	2.130309000	9.637521000	6	0.017232000	-3.489104000	3.297008000
6	10.743867000	0.835688000	11.433499000	6	1.385256000	-3.124437000	2.950353000
6	9.547019000	1.439417000	10.862034000	6	-0.860073000	-3.000418000	2.240687000
6	8.573387000	1.989321000	11.700595000	6	-2.120544000	-2.484712000	2.559503000
6	8.381240000	6.857390000	18.427901000	6	3.614330000	-6.293035000	4.043533000
1	9.095211000	6.464736000	17.700916000	6	2.897953000	-7.499009000	4.045310000
6	8.458063000	6.475236000	19.751486000	6	5.016830000	-6.270634000	4.043035000
6	7.520116000	7.043908000	20.678017000	6	3.609367000	-8.739130000	4.048436000
1	7.542947000	6.716563000	21.719252000	6	5.737092000	-7.506359000	4.045338000
6	6.585898000	7.964605000	20.283520000	6	5.029948000	-8.738820000	4.049055000
1	5.887833000	8.377146000	21.012774000	6	-3.622919000	-6.285096000	4.017126000
6	6.499071000	8.397024000	18.921482000	6	-2.907103000	-7.492063000	4.022855000
6	7.417492000	7.807920000	17.972847000	6	-5.025845000	-6.262257000	4.014007000
6	7.367977000	8.212060000	16.633789000	6	-3.620342000	-8.731758000	4.025460000
1	8.067532000	7.777720000	15.917760000	6	-5.747052000	-7.497323000	4.016716000
6	6.444194000	9.169625000	16.194917000	6	-5.041048000	-8.730399000	4.022252000
6	5.527112000	9.766707000	17.137860000	6	-7.239970000	0.001668000	3.982591000
6	5.572848000	9.376141000	18.493693000	6	-7.925320000	1.226641000	3.975654000
6	4.611119000	10.750314000	16.641624000	6	-7.924627000	-1.223711000	3.988461000
1	3.903803000	11.202484000	17.338578000	6	-9.356034000	1.230662000	3.974476000
6	4.608810000	11.124017000	15.321675000	6	-9.355171000	-1.228218000	3.987873000
1	3.884506000	11.865103000	14.978324000	6	-10.067545000	0.001013000	3.981368000
6	5.524074000	10.545558000	14.378218000	6	-3.627379000	6.284063000	3.943117000
6	6.412185000	9.591323000	14.835929000	6	-5.029762000	6.262760000	3.941447000
1	7.149470000	9.158496000	14.157570000	6	-2.909930000	7.489321000	3.941448000
6	6.006313000	10.118980000	11.974481000	6	-5.749709000	7.498238000	3.935266000
1	6.266846000	9.087587000	12.218314000	6	-3.621175000	8.729777000	3.936425000
6	5.552842000	10.971215000	12.960773000	6	-5.041889000	8.730223000	3.932651000
6	5.157635000	12.293620000	12.568514000	6	3.611597000	6.275324000	3.991604000
1	4.767421000	12.980815000	13.321509000	6	2.895595000	7.482119000	3.982005000
6	5.286219000	12.728917000	11.273990000	6	5.014586000	6.252259000	3.994955000
1	4.976529000	13.741735000	11.016239000	6	3.608903000	8.721804000	3.980482000
6	5.834572000	11.890498000	10.249773000	6	5.735957000	7.487490000	3.992730000
6	6.172982000	10.536553000	10.623788000	6	5.029700000	8.720467000	3.986640000
6	6.685081000	9.661150000	9.660428000	6	7.230127000	-0.010302000	4.010677000
1	6.933542000	8.635555000	9.945304000	6	7.915713000	-1.235117000	4.014114000
6	6.926511000	10.085373000	8.350266000	6	7.914305000	1.215125000	4.006021000
6	7.509681000	9.204569000	7.394206000	6	9.346039000	-1.239373000	4.011207000
1	7.720930000	8.178022000	7.702615000	6	9.344919000	1.219479000	4.004427000
6	7.796176000	9.606924000	6.107674000	6	10.057380000	-0.009671000	4.006513000
6	7.476266000	10.951801000	5.727955000	6	7.217748000	-2.482094000	4.021453000
1	7.727747000	11.290696000	4.719951000	6	7.859418000	-3.701328000	4.024346000
6	6.916420000	11.831025000	6.619864000	6	5.744710000	-5.041000000	4.037718000
1	6.718326000	12.857713000	6.310633000	6	7.120946000	-4.984326000	4.032075000
6	6.607284000	11.441222000	7.964662000	6	1.469879000	-7.517100000	4.042500000
6	6.047036000	12.326452000	8.918659000	6	0.734415000	-8.681424000	4.041156000
6	9.448283000	7.833118000	5.578459000	6	-1.478916000	-7.513391000	4.027793000
1	9.852327000	7.935176000	6.588468000	6	-0.745663000	-8.679578000	4.035194000
6	8.425938000	8.660362000	5.161600000	6	-5.753190000	-5.031753000	4.008957000
6	7.955019000	8.543598000	3.811728000	6	-7.129487000	-4.973863000	4.006787000
1	7.156052000	9.206602000	3.471366000	6	-7.226587000	-2.471080000	3.995047000
6	8.454273000	7.585813000	2.966711000	6	-7.868064000	-3.690399000	4.000438000
1	8.058507000	7.491236000	1.954421000	6	-7.228418000	2.474233000	3.969634000
6	9.478101000	6.677806000	3.390820000	6	-5.757330000	5.033139000	3.948969000

6	10.005041000	6.832850000	4.728150000	6	-7.871084000	3.692987000	3.958574000
6	11.028906000	5.985690000	5.171944000	6	-7.133432000	4.976374000	3.949081000
1	11.438098000	6.122286000	6.176125000	6	-1.481839000	7.507107000	3.948123000
6	11.527285000	4.957138000	4.361477000	6	-0.746175000	8.671420000	3.951650000
6	12.555628000	4.076696000	4.815359000	6	1.467299000	7.503295000	3.972765000
1	12.974309000	4.246021000	5.809648000	6	0.733995000	8.669462000	3.962994000
6	13.036744000	3.047689000	4.030749000	6	5.742804000	5.022467000	3.998992000
6	12.487804000	2.882016000	2.715071000	6	7.119238000	4.965490000	4.000420000
1	12.842830000	2.060466000	2.090508000	6	7.216250000	2.462497000	4.004615000
6	11.505965000	3.709076000	2.239346000	6	7.857596000	3.681841000	4.002283000
1	11.101575000	3.549870000	1.239208000	6	5.750744000	-9.984782000	4.052447000
6	10.982928000	4.778294000	3.034363000	6	5.038518000	-11.220314000	4.055126000
6	9.971641000	5.645877000	2.563458000	6	7.176510000	-9.982158000	4.053218000
6	4.687189000	10.027093000	19.504379000	6	5.768131000	-12.421715000	4.059522000
6	5.101490000	11.215821000	20.125487000	6	7.856070000	-11.212257000	4.057436000
6	4.327950000	11.802979000	21.129659000	6	7.158981000	-12.415351000	4.061373000
1	4.671940000	12.720442000	21.614463000	1	5.250502000	-13.379367000	4.062416000
6	3.124035000	11.210520000	21.522271000	1	8.944825000	-11.239357000	4.060505000
6	2.694535000	10.035265000	20.898720000	1	7.707391000	-13.360293000	4.063823000
1	1.755539000	9.566489000	21.204926000	6	-5.763177000	-9.975698000	4.025759000
6	3.470368000	9.448260000	19.894565000	6	-7.188910000	-9.971743000	4.023345000
6	5.689801000	13.719262000	8.526205000	6	-5.052761000	-11.212032000	4.031702000
6	4.651920000	13.960538000	7.610556000	6	-7.869980000	-11.200996000	4.026742000
6	4.308688000	15.264477000	7.245410000	6	-5.783642000	-12.412707000	4.033738000
1	3.497259000	15.435074000	6.533156000	6	-7.174316000	-12.404959000	4.031629000
6	4.994624000	16.351483000	7.796046000	1	-8.958726000	-11.227071000	4.025382000
6	6.029136000	16.124410000	8.709716000	1	-5.267435000	-13.371105000	4.038494000
1	6.573840000	16.965808000	9.145857000	1	-7.723977000	-13.349171000	4.033541000
6	6.376130000	14.819203000	9.067793000	6	-11.507377000	0.000704000	3.981864000
6	9.434327000	5.446515000	1.184600000	6	-12.220719000	1.234904000	3.976365000
6	9.972133000	6.154122000	0.098299000	6	-12.219773000	-1.233993000	3.989089000
6	9.520362000	5.911226000	-1.202058000	6	-13.625743000	1.205901000	3.979666000
1	9.955623000	6.465676000	-2.037549000	6	-13.624863000	-1.206022000	3.990985000
6	8.522120000	4.958916000	-1.432361000	6	-14.317003000	-0.000276000	3.986466000
6	7.968053000	4.261235000	-0.354581000	1	-14.195823000	2.133408000	3.976225000
1	7.183630000	3.520224000	-0.528937000	1	-14.194150000	-2.133987000	3.995706000
6	8.421011000	4.504729000	0.944804000	1	-15.409561000	-0.000759000	3.988918000
6	14.148810000	1.725347000	5.835068000	6	-5.762502000	9.976334000	3.928419000
1	13.424119000	2.106830000	6.557459000	6	-5.049916000	11.211496000	3.927708000
6	14.075274000	2.110006000	4.511885000	6	-7.188362000	9.973928000	3.926129000
6	15.019049000	1.547595000	3.587633000	6	-5.779223000	12.413114000	3.923560000
1	14.997963000	1.876818000	2.546930000	6	-7.867561000	11.204185000	3.921317000
6	15.955338000	0.629724000	3.983973000	6	-7.170021000	12.407172000	3.920329000
1	16.657426000	0.220579000	3.256618000	1	-5.261595000	13.370783000	3.923136000
6	16.040650000	0.196864000	5.345922000	1	-8.956314000	11.231800000	3.919818000
6	15.116992000	0.780938000	6.292559000	1	-7.718329000	13.352162000	3.916490000
6	15.166478000	0.378321000	7.631962000	6	5.751641000	9.966028000	3.986259000
1	14.465925000	0.811244000	8.347879000	6	7.177374000	9.962540000	3.991506000
6	16.092963000	-0.575788000	8.072707000	6	5.041062000	11.202205000	3.981433000
6	17.013401000	-1.169990000	7.131210000	6	7.858192000	11.191927000	3.992553000
6	16.968996000	-0.779375000	5.775208000	6	5.771693000	12.403076000	3.983385000
6	17.932027000	-2.150260000	7.629397000	6	7.162331000	12.395770000	3.988465000
1	18.642614000	-2.600748000	6.934706000	1	8.946928000	11.218112000	3.996043000
6	17.933106000	-2.523427000	8.949539000	1	5.255121000	13.361266000	3.979255000
1	18.659552000	-3.261945000	9.293936000	1	7.711712000	13.340141000	3.990704000
6	17.013783000	-1.948670000	9.891326000	6	11.497136000	-0.009587000	4.005916000
6	16.123484000	-0.997456000	9.431849000	6	12.210168000	-1.244032000	4.007878000

1	15.381888000	-0.567964000	10.107634000	6	12.209559000	1.225118000	4.003720000
6	16.524024000	-1.526249000	12.294714000	6	13.615188000	-1.215176000	4.007276000
1	16.260646000	-0.495697000	12.050247000	6	13.614673000	1.196908000	4.002895000
6	16.983211000	-2.375589000	11.308424000	6	14.306583000	-0.008988000	4.004734000
6	17.383756000	-3.696508000	11.700039000	1	14.185207000	-2.142736000	4.008695000
1	17.777711000	-4.381625000	10.947101000	1	14.184174000	2.124767000	4.001494000
6	17.255227000	-4.133439000	12.994016000	1	15.399145000	-0.008658000	4.004186000
1	17.568842000	-5.145134000	13.251438000	6	10.043472000	-2.490384000	4.014542000
6	16.701909000	-3.298243000	14.018155000	6	11.469277000	-2.499870000	4.011862000
6	16.357346000	-1.945515000	13.644860000	6	9.311151000	-3.722073000	4.020175000
6	15.840886000	-1.073490000	14.609081000	6	12.125093000	-3.739259000	4.014622000
1	15.582637000	-0.049989000	14.325482000	6	10.013192000	-4.952087000	4.023692000
6	15.602727000	-1.499632000	15.919241000	6	11.417971000	-4.926312000	4.020285000
6	15.017715000	-0.621813000	16.876836000	1	13.212984000	-3.787218000	4.012466000
1	14.803671000	0.405247000	16.571995000	1	11.984905000	-5.855094000	4.021781000
6	14.733160000	-1.026638000	18.163098000	6	7.866785000	-6.230203000	4.035121000
6	15.056998000	-2.370965000	18.541217000	6	9.282844000	-6.220226000	4.032039000
1	14.807049000	-2.711657000	19.548996000	6	7.169036000	-7.482052000	4.042859000
6	15.619496000	-3.247169000	17.648033000	6	9.965450000	-7.448175000	4.036739000
1	15.821434000	-4.273513000	17.955918000	6	7.891965000	-8.711057000	4.046454000
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1	14.465413000	1.086960000	22.317472000	6	11.416523000	4.906730000	4.001088000
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6	9.971410000	4.501330000	19.451094000	6	2.831335000	-12.394589000	4.053798000
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