Supporting Information

Evaluation of Charge-Transfer Rates in Fullerene-Based Donor-Acceptor Dyads with Different Density Functional Approximations

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All necessary values to compute k_{CT} for all the systems are summarized in this supporting information, as well as the computed k_{CT} . All tables are ordered from lowest-error DFA to greatesterror DFA. Green marks on the tables highlight the (correct) negative ΔG prediction, and red marks highlight the logarithm of k_{CT} and the relative error of such value. The Cartesian coordinates for the optimized systems, as well as the optimized fragments for the calculation of λ_{int} are given at the end of this document.

Charge transfer data of C60-Az

Table SI1. Marcus' equation parameters computed with different DFAs for C₆₀-Az.

DFA method	$\lambda_{int} (eV)$	$\lambda_{\text{ext}} \left(eV \right)$	$(V_{DA})^2$	ΔG (eV)	$(\lambda + \Delta G)^2$	<i>k_{CT}</i> (S⁻¹)	log k _{CT}	Err log k_{CT} (%)
CAM-B3LYP	0.241	0.368	5.40·10 ⁻³	0.196	0.648	3.55·10 ¹⁰	10.55	2.42
ωB97xD	0.242	0.218	4.97·10 ⁻³	0.349	0.654	1.19·10 ⁸	8.08	-21.61
MN15	0.232	0.100	6.72·10 ⁻³	-0.020	0.097	1.13·10 ¹³	13.05	26.72
M11	0.251	0.206	2.31.10-4	0.466	0.852	1.74·10 ¹⁵	5.24	-49.12
LC-ωhPBE	0.262	0.257	5.24·10 ⁻³	0.888	1.979	9.07·10 ⁻³	-2.04	-119.83
LC-TPSS	0.268	0.243	6.97·10 ⁻³	1.004	2.296	1.69·10 ⁻⁵	-4.77	-146.33
LC-BLYP	0.266	0.108	7.19·10 ⁻³	1.295	2.786	6.46·10 ⁻¹⁸	-17.19	-266.88

Experimental k_{CT} = 2.0·10¹⁰ s⁻¹, experimental ΔG = -0.27 eV.

Charge transfer data of C₆₀-ZnTTP

Table SI2. Marcus' equation parameters computed with different DFAs for C₆₀-ZnTPP.

DFA method	λ _{int} (eV)	$\lambda_{\text{ext}}(\text{eV})$	$(V_{DA})^2$	ΔG (eV)	$(\lambda + \Delta G)^2$	$k_{CT} (s^{-1})$	log k _{CT}	Err log k_{CT} (%)
MN15	0.270	0.298	2.19·10 ⁻⁶	-0.727	0.025	3.16·10 ¹⁰	10.50	0.42
ωB97xD	0.282	0.161	5.84·10 ⁻⁵	-0.092	0.123	9.87·10 ¹⁰	10.99	5.14
CAM-B3LYP	0.280	0.251	9.80·10 ⁻⁶	-0.420	0.012	1.80·10 ¹¹	11.26	7.64
M11	0.290	0.219	9.80·10 ⁻⁶	-0.150	0.129	4.28·10 ⁹	9.63	-7.89
LC-ωhPBE	0.303	0.092	1.45·10 ⁻⁵	0.411	0.649	4.32·10 ⁴	4.64	-55.67
LC-TPSS	0.258	0.061	1.83·10 ⁻⁵	0.513	0.692	3.63·10 ²	2.56	-75.52
LC-BLYP	0.311	0.117	1.69.10-4	0.798	1.503	6.17·10 ³	-2.21	-121.13

Experimental $k_{CT} = 2.86 \cdot 10^{10} \text{ s}^{-1}$

Charge transfer data of C₅₉N-Pc

Table SI3. Marcus' equation parameters computed with different DFAs for C₅₉N-Pc.

DFA method	$\lambda_{int}(eV)$	$\lambda_{\text{ext}}(\text{eV})$	$(V_{DA})^2$	ΔG (eV)	$(\lambda + \Delta G)^2$	k_{CT} (S ⁻¹)	log k _{CT}	Err log k_{CT} (%)
LC-ωhPBE	0.145	0.234	3.81·10 ⁻³	0.031	0.168	1.39·10 ¹²	12.14	0.38
LC-TPSS	0.148	0.242	4.02·10 ⁻³	0.065	0.207	6.13·10 ¹¹	11.79	-2.56
M11	0.139	0.210	9.99·10 ⁻⁴	-0.078	0.073	3.66·10 ¹²	12.56	3.86
MN15	0.126	0.271	2.16·10 ⁻⁴	-0.757	0.129	2.42·10 ¹¹	11.38	-5.89
LC-BLYP	0.148	0.236	4.06·10 ⁻³	0.119	0.253	1.80·10 ¹¹	11.25	-6.96
ωB97xD	0.134	0.105	5.36·10 ⁻³	0.03	0.072	9.69·10 ¹²	12.99	7.35
CAM-B3LYP	0.133	0.209	2.76·10 ⁻³	-0.523	0.033	3.10·10 ¹³	13.49	11.53

Experimental k_{CT} = 1.25·10¹² s⁻¹, experimental ΔG = -0.24 eV

Charge transfer data of C₆₀-TPA

DFA method	$\lambda_{int}(eV)$	$\lambda_{\text{ext}}(\text{eV})$	$(V_{DA})^2$	ΔG (eV)	$(\lambda + \Delta G)^2$	<i>k_{CT}</i> (S ⁻¹)	log k _{CT}	Err log k_{CT} (%)
CAM-B3LYP	0.210	0.94	2.13·10 ⁻⁶	-0.956	0.038	2.43·10 ¹⁰	10.39	-3.64
MN15	0.188	0.968	4.90·10 ⁻⁷	-1.409	0.064	4.47·10 ⁹	9.65	-10.46
ωB97xD	0.219	0.822	6.10·10 ⁻⁶	-0.227	0.663	2.04·10 ⁸	8.31	-22.90
M11	0.213	0.821	1.50·10 ⁻⁵	-0.039	0.992	2.19·10 ⁷	7.34	-31.90
LC-ωhPBE	0.236	0.883	1.51·10 ⁻⁵	0.096	1.476	6.33·10 ⁵	5.80	-46.17
LC-TPSS	0.321	0.891	2.08·10 ⁻⁵	0.206	2.012	3.06·10 ⁴	4.49	-58.38
LC-BLYP	0.262	0.526	4.72·10 ⁻⁵	0.962	3.061	3.30·10 ⁻⁵	-4.48	-141.58

Table SI4, Marcus'	equation parameter	s computed with	different DEAs for Cea-1	ΓΡΑ
	equation parameter	3 computed with		

Experimental $k_{CT} = 6.00 \cdot 10^{10} \text{ s}^{-1}$, experimental $\Delta G = -0.31 \text{ eV}$

Tuned LC-BLYP data of C₆₀-TPA

The tuning of LC-BLYP was done in two ways, leading to optimally-tuned LC-BLYP version 1 (OT1) and optimally tuned LC-BLYP version 2 (OT2). Both functionals are tuned by changing the parameter that governs the steepness of the transition from short-range to long-range region (*i.e.* ω parameter). In the case of OT1, we computed the ω parameter that enforces the fulfillment of Janak's theorem^[1,2,3] through the minimization of

$$J^{2}(\omega) = \sum_{i=N}^{N+1} \left(IP^{i} + \varepsilon_{HOMO}^{i}(\omega) \right)^{2}, \quad (1)$$

Where IP^i is the vertical ionization potential for the neutral (*i*=*N*) or the anionic (*i*=*N*+1) system and

 ε_{HOMO} is the energy of the Highest Occupied Molecular Orbital for the netural or anionic system. For simplicity, we have computed *IP*^{*i*} at LC-BLYP level of theory (ω =0.47 Bohr⁻¹) and we have checked that this approximation only triggers very small changes on the final result of $J^2(\omega)$, if any.

In the case of OT1,^[4] we computed the ω parameter through

$$\omega_{0T2} = 0.6269 \cdot A^2 - 0.4556 \cdot A + 0.3791 \quad (2)$$

$$A = log\left(\frac{\alpha_{LC-BLYP}}{N}\right)$$
(3)

Where *N* is the number of electrons and $\alpha_{LC-BLYP}$ is the ZZ element of the polarizability tensor computed at LC-BLYP level of theory. Note that this approach requires a pre-alignment of the molecular inertia axis with the Z axis.

The equation used for the computation of ω_{OT2} arises from an empirical correlation (eq. 2) between the indicator *A* (eq. 3) and the ω that is required to reproduce CCSD(T) 2nd hyperpolarizabilities for a set of 60 molecules.

The resulting ω parameters obtained through OT1 and OT2 procedures were used, then, to compute all the variables needed in the Marcus' equation by using the ω -tailored LC-BLYP, summarized in Table SI5.

DFA method	$\lambda_{\text{int}} \left(eV \right)$	$\lambda_{ext}(eV)$	$(V_{DA})^2$	ΔG (eV)	$(\lambda + \Delta G)^2$	$k_{CT} (s^{-1})$	log k _{CT}	Err log k_{CT} (%)
OT2	0.217	0.888	9.36·10 ⁻⁶	-0.148	0.916	4.69·10 ⁻⁷	7.67	-28.82
OT1	0.211	0.558	6.81·10 ⁻⁶	0.214	0.966	6.35·10 ⁻⁵	5.80	-46.16
LC-BLYP	0.262	0.526	4.72·10 ⁻⁵	0.962	1.550	3.30·10 ⁻⁵	-4.48	-141.58

Table SI5. Marcus' equation parameters computed with OT2, OT1 and LC-BLYP for C₆₀-TPA.

Experimental $k_{CT} = 6.00 \cdot 10^{10} \text{ s}^{-1}$, experimental $\Delta G = -0.31 \text{ eV}$.

DFA method	$\lambda_{int} \left(eV \right)$	$\lambda_{\text{ext}}(\text{eV})$	$(V_{DA})^2$	ΔG (eV)	$(\lambda + \Delta G)^2$	k_{CT} (S ⁻¹)	log k _{CT}	Err log k_{CT} (%)
CAM-B3LYP	0.210	0.94	2.13·10 ⁻⁶	-0.956	0.038	2.43·10 ¹⁰	10.39	-3.64
MN15	0.188	0.968	4.90·10 ⁻⁷	-1.409	0.064	4.47·10 ⁹	9.65	-10.46
ωB97xD	0.219	0.822	6.10 [.] 10 ⁻⁶	-0.227	0.663	2.04·10 ⁸	8.31	-22.90
OT2	0.217	0.888	9.36·10 ⁻⁶	-0.148	0.916	4.69·10 ⁷	7.67	-28.82
M11	0.213	0.821	1.50·10 ⁻⁵	-0.039	0.992	2.19·10 ⁷	7.34	-31.90
OT1	0.211	0.558	6.81·10 ⁻⁶	0.214	0.966	6.35·10 ⁵	5.80	-46.16
LC-ωhPBE	0.236	0.883	1.51·10 ⁻⁵	0.096	1.476	6.33·10 ⁵	5.80	-46.17
LC-TPSS	0.321	0.891	2.08·10 ⁻⁵	0.206	2.012	3.06·10 ⁴	4.49	-58.38
LC-BLYP	0.262	0.526	4.72·10 ⁻⁵	0.962	3.061	3.30.10-5	-4.48	-141.58

Table SI6. Summary of all the data recollected for C₆₀-TPA. Ordered from best to worst DFA.

Experimental $k_{CT} = 6.00 \cdot 10^{10} \text{ s}^{-1}$, experimental $\Delta G = -0.31 \text{ eV}$

Estimation of the geometrical changes in the CS reaction

The geometrical changes arising from the charge separation (CS) can play a key role in the CT reaction. Therefore, in case that the CS geometrical changes are big, they should be taken into account in order to estimate the k_{CT} . On the contrary, if the geometrical changes are not large the CS is assumed to be a purely electronic process, simplifying a lot the calculation of the rate constants.

The evaluation of the geometry changes in donor-acceptor (D-A) dyads is usually challenging because the systems are typically very big. In order to address this problem, a commonly used strategy is to divide the molecule into D and A fragments determined by the orbitals involved in the CS, and compute the geometry differences assuming that the CS occurs locally on these fragments. The charge transfer reaction occurs when the system goes from the lowest local excited state (LES1) to the CT state. For a typical D-A dyad, the fragments would be D* and A (or D and A*) in the LES1 state, and D* and A- CT state. Therefore, the geometrical differences computed are D* (D) with respect to D+ and A (A*) with respect to A-.

The geometric differences have been computed by means of the root mean square deviation (RMSD) of atomic positions, which is computed following equation 4

$$RMSD = \sqrt{\frac{1}{N}\sum_{i=1}^{N}\delta_i^2} \quad (4)$$

were *N* is the number of atoms, and δ_i is the distance between atom *i* in the two compared (and superimposed) structures.

For the four systems studied in this manuscript, Table SI7 summarizes the computed RMSDs

System	C ₆₀ -Az	C ₆₀ -ZnTTP	C ₅₉ N-PC	C ₆₀ -TPA
Reaction	$C_{60}^{S1}+Az \rightarrow C_{60}^{-}+Az^{+}$	C_{60} +ZnTTP ^{S1} → C_{60} ⁻ +ZnTTP ⁺	$(C_{59}N)+PC^{S1} \rightarrow C_{59}+N^{-}PC^{+}$	C_{60}^{S1} +TPA → C_{60}^{-} +TPA ⁺
Donor RMSD (Å)	0.020	0.087	0.062	0.017
Acceptor RMSD (Å)	0.025	0.010	0.010	0.025
Total RMSD (Å)	0.045	0.097	0.072	0.042

Table SI7. RMSD of the four studied systems and summary of the fragments involved. All RMSD in Angstroms.

All RMSDs < 0.1 Å which indicates a very low geometrical change along the CT reaction for all the studied systems. Thus, treating the CT reaction as a purely electronic process is a reliable approach.

State characters of the target excited states

Table SI8. Amount of CS/CT state characters of the target excited states following Eq. 2 of the manuscript for C_{60} -Az and C_{60} -ZnTTP for all DFAs.

C ₆₀ -Az	СТ	CS
CAM-B3LYP	0.463	0.468
MN15	0.488	0.496
wB97XD	0.617	0.619
M11	0.463	0.470
LC-wHPBE	0.700	0.703
LC-TPSS	0.352	0.372
LC-BLYP	0.394	0.405

C ₆₀ -ZnTTP	СТ	CS
CAM-B3LYP	0.795	0.804
MN15	0.856	0.862
wB97XD	0.654	0.669
M11	0.771	0.787
LC-wHPBE	0.484	0.505
LC-TPSS	0.386	0.41
LC-BLYP	0.581	0.594

Table SI9. Amount of CS/CT state characters of the target excited states following Eq. 2 of the manuscript for C_{59} N-Pc and C_{60} -TPA for all DFAs.

C ₅₉ N-Pc	СТ	CS	C ₆₀ -TPA
CAM-B3LYP	0.870	0.873	CAM-B3LY
MN15	0.367	0.383	MN15
wB97XD	0.694	0.701	wB97XD
M11	0.588	0.596	M11
LC-wHPBE	0.927	0.929	LC-wHPBE
LC-TPSS	0.935	0.937	LC-TPSS
LC-BLYP	0.930	0.932	LC-BLYP

C ₆₀ -TPA	СТ	CS
CAM-B3LYP	0.924	0.927
MN15	0.974	0.974
wB97XD	0.866	0.866
M11	0.914	0.921
LC-wHPBE	0.920	0.920
LC-TPSS	0.934	0.934
LC-BLYP	0.717	0.723
OT1	0.930	0.931
OT2	0.982	0.982

Graphical representation of the obtained results

Graphical representation of the error on the $log(k_{CT})$











Figure SI3. Absolute percentage errors in the $log(k_{CT})$ for each DFA and for each system.

Graphical representation of the reorganization energy, $\boldsymbol{\lambda}$

Figure SI4. Internal reorganization energy by DFA and system.





Figure SI5. External reorganization energy by DFA and system.





Graphical representation of the electronic coupling squared, V_{DA}^2 **Figure SI7.** Electronic coupling squared (V_{DA}^2) for **C**₆₀-Az and **C**₅₉N-Pc.







Graphical representation of the ΔG° and $(\lambda + \Delta G^{\circ})^2$

Figure SI9. ΔG° for all methods and systems.



Figure SI10. $(\lambda + \Delta G^{\circ})^2$ for all methods and systems.



Cartesian coordinates of the optimized systems

All systems were optimized at B3LYP-D3(BJ)/6-311G(d,p) level of theory.

C ₆₀	-Az			6		1.760833000	-0.464273000	3.427079000
				7		2.390083000	-1.728822000	3.137198000
6	-5.308103000	1.577832000	0.945578000	6		3.611446000	-2.008152000	3.865585000
6	-4.617818000	2.686958000	0.307047000	1		3.412095000	-1.955050000	4.938736000
6	-4.666759000	2.478076000	-1.129059000	1		3.952743000	-3.019216000	3.633691000
6	-5.388576000	1.242009000	-1.379525000	1		4.428443000	-1.310184000	3.623145000
6	-5.783561000	0.685596000	-0.096774000	6		5.591067000	2.455257000	-0.031623000
6	-5.756991000	-0.692663000	0.101550000	6		4.500627000	2.084491000	0.770803000
6	-5.253638000	-1.237544000	1.347071000	6		3.969584000	0.834484000	1.053051000
6	-4.799261000	-0.384095000	2.349608000	6		6.408961000	1.559040000	-0.720262000
6	-4.827060000	1.055270000	2.143159000	6		4.325194000	-0.435215000	0.619024000
6	-3.633211000	1.616361000	2.751225000	6		6.351583000	0.164637000	-0.821023000
6	-2.973507000	2.677544000	2.141272000	6		5.470525000	-0.760423000	-0.283046000
6	-3.475992000	3.226677000	0.893638000	1		3.965151000	2.898203000	1.244288000
6	-2.332178000	3.579516000	0.067705000	1		3.111249000	0.872386000	1.706657000
6	-2.380943000	3.374901000	-1.309367000	1		7.219736000	1.994049000	-1.286756000
6	-3.571332000	2.816601000	-1.919766000	1		7.129467000	-0.250019000	-1.449751000
6	-3.153192000	1.934243000	-2.999988000	6		3.666493000	-1.647188000	0.903829000
6	-3.849377000	0.752411000	-3.241715000	6		4.369998000	-2.667078000	0.227511000
6	-4.988551000	0.398345000	-2.411896000	1		4.074024000	-3.706515000	0.264817000
6	-4.966380000	-1.040355000	-2.209318000	6		5.462421000	-2.168395000	-0.492755000
6	-5.339192000	-1.575163000	-0.978475000	6		6.413420000	-3.007009000	-1.338040000
6	-4.578363000	-2.664759000	-0.399321000	6		6.021768000	-4.494546000	-1.267215000
6	-4.518375000	-2.453621000	1.038218000	1		6.066980000	-4.871943000	-0.242445000
6	-3.352535000	-2.754999000	1,735655000	1		5.012455000	-4.661575000	-1.651551000
6	-2.875142000	-1.865738000	2.779702000	1		6.712107000	-5.086852000	-1.872889000
6	-3.590799000	-0.707186000	3.085517000	6		7.862327000	-2.885365000	-0.816166000
6	-2.872465000	0.519991000	3.329447000	1		8.530305000	-3.521528000	-1.404694000
6	-1 478073000	0 522590000	3 252710000	1		8.241481000	-1.864436000	-0.869339000
6	-0.789074000	1.631719000	2.618742000	1		7.918423000	-3.204218000	0.227548000
6	-1 520952000	2 692720000	2 080087000	6		6.342273000	-2.581291000	-2.821793000
6	-1 127916000	3 248366000	0 807827000	1		6.993318000	-3.217545000	-3.428963000
6	-0.023839000	2 713749000	0 141621000	1		5.320658000	-2.680544000	-3.196444000
6	-0.077219000	2 503896000	-1 294354000	1		6 649801000	-1 546388000	-2 974512000
6	-1 225180000	2 833546000	-2 007422000	6		5.859336000	3.973717000	-0.139631000
6	-1 704783000	1 948251000	-3.056768000	6		6 140338000	4 546510000	1 267217000
6	-1 006181000	0 780768000	-3 356765000	1		6.339049000	5.619613000	1,199525000
6	-1 732726000	-0 453452000	-3 609871000	1		5.297536000	4.406097000	1.945586000
6	-3 124046000	-0 466478000	-3 552504000	1		7.014512000	4.064783000	1.712536000
6	-3 815107000	-1 575382000	-2 914161000	6		4.613590000	4.660320000	-0.744467000
6	-3 084852000	-2 623388000	-2 359923000	1		4.790052000	5.735221000	-0.839978000
6	-3 474312000	-3 180893000	-1 073998000	1		4.396843000	4.259627000	-1.737816000
6	-2 264578000	-3 508927000	-0.343074000	1		3 724734000	4 520917000	-0 127427000
6	-2 200392000	-3 292156000	1 034558000	6		7 061888000	4 321055000	-1 032052000
6	-1 005532000	-2 741544000	1 637198000	1		6 920690000	3 979633000	-2 060288000
6	-1 428880000	-1 845329000	2 734147000	1		7 183268000	5 406291000	-1 060054000
6	-0 744275000	-0.681958000	2 978042000	1		7 992772000	3 895988000	-0 648784000
6	0.622940000	-0.336589000	2 375951000	1		2 300781000	-3 058541000	1 564772000
6	0.372923000	1 114237000	1 951692000	1		1 354440000	-0 464045000	4 442094000
6	0.731161000	1 628868000	0 729626000	1		2 443136000	0.398692000	3 360202000
6	1 154898000	0 731374000	-0.366867000			2.110100000	0.000002000	0.000202000
6	0.650797000	1 285905000	-0.0000070000					
6	0.200621000	0 446713000	-2 623027000	C	•	7nTTD		
6	0.200021000	-0.981632000	-2.023027000	, c	• 60'	-211115		
6	-0.972410000	-1 546043000	-3.027950000	6		-0 659508000	1 087065000	-3 178859000
6	-1 633588000	-2 606675000	-2 418017000	6		0.067829000	2 320657000	-3 423926000
6	-1 133935000	-3 151968000	-1 166193000	6		1 331570000	2 250506000	-2 718130000
6	-0 002060000	-2 504540000	-0 568370000	6		1 37908000	0 9502050000	-2 024501000
6	0.067844000	-2 405410000	0.853553000	6		0 144556000	0 250148000	-2 321115000
6	1 080530000	-1 308335000	1 189564000	6		-0 485885000	-0 516751000	-1 342226000
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1	3 730208000	7.5055666666	4 215742000	6	0.140001000	-0 705007000	-0.67/1/3000
1	4 250036000	7.013604000	2 615806000	6	1 621820000	-0.795997000	-0.219653000
1	3 438762000	8 576541000	2.013000000	6	1.021020000	2 760556000	0.263017000
6	7 425014000	4 038173000	2.012070000	0	0.416308000	2.700330000	0.203017000
1	7 525900000	4.930173000 5 760922000	2 000116000	0	0.410308000	-3.477100000	1 4251020000
1	-7.525699000	J.709033000	-3.000110000	0	0.007 145000	-4.321204000	2 405929000
1	-0.423902000	4.095510000	-2.01000000	0	0.966991000	-4.413332000	2.493636000
I C	-0.01/0//000	3.205572000	-2.340014000	0	0.400911000	-4.364319000	4.064197000
0	-7.073007000	3.320301000	-5.079506000	0	-0.692626000	-4.200171000	4.004167000
1	-7.818575000	4.168884000	-5.762442000	0	-1.391/56000	-3.407689000	5.108358000
1	-7.233203000	2.504302000	-5.64/1/4000	6	-0.515471000	-2.693106000	5.927963000
1	-8.654406000	3.000675000	-4.722897000	0	-0.825154000	-1.333054000	6.286960000
6	-5.398097000	4.196236000	-4.433360000	6	0.413232000	-0.576273000	6.260853000
1	-4.890290000	3.398076000	-4.977259000	6	0.425012000	0.734154000	5.790720000
1	-5.522646000	5.042265000	-5.115524000	6	1.506661000	1.1904/1000	4.938129000
1	-4.744630000	4 507663000	-3.616193000	6	0.947576000	2.090863000	3.940915000
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-	-8.792315000 -9.407935000	1.923272000 1.180626000	0.732811000 0.218745000	6 6	1.443235000 2.519942000	2.081872000 1.174203000	2.639258000 2.275409000
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1 1 6 1 1 6 1 1 6 1 1 6 1 1 6 1 1 8 6 8 6	-8.792315000 -9.407935000 -9.125688000 -8.977855000 -7.129870000 -7.490336000 -7.699108000 -6.082227000 -6.455346000 -6.748181000 -5.393240000 -6.587754000 -2.536671000 -3.137262000 -1.914910000 -3.443861000 -2.830157000 -4.158238000 -4.176613000 -4.98289000 -3.503746000 -4.98343000 -4.959380000 -4.987914000 -5.090904000 -5.655274000	1.923272000 1.984251000 1.984451000 2.892836000 0.200564000 0.305992000 -0.602968000 -0.097732000 2.605550000 2.684792000 2.354893000 -7.09738000 -7.316973000 -5.846597000 -4.953531000 -6.097928000 -6.811579000 -6.459956000 -4.816304000 -4.659700000 -5.557663000 -3.189798000 -2.663584000 -2.663584000	0.732811000 0.218745000 1.772768000 0.267002000 1.422539000 2.448774000 0.947192000 1.473803000 1.392011000 2.443178000 1.349686000 0.930051000 -1.595635000 -1.595635000 -1.61867000 -1.61867000 -1.954458000 0.142530000 0.922639000 0.564389000 1.876803000 2.677971000 2.216872000 1.445909000	6 6 6 6 6 6 6 6 6 6 6 7 C 60 7 C 60 7 C 60 7	1.443235000 2.519942000 2.263495000 2.549934000 3.108126000 2.536690000 2.226254000 2.485334000 1.400640000 0.915323000 1.491766000 2.527139000 2.538287000 3.051607000 3.05360000 -2.873067000 - TPA (proper culation) 1.086332756 2.342476559 2.519159381 3.176481999	2.081872000 1.174203000 0.692513000 -0.628660000 -1.528762000 -2.848275000 -3.652725000 -3.625823000 -2.802396000 -1.484733000 -1.045902000 0.322068000 0.310176000 -1.066854000 -1.905877000 -3.307972000 'Iy oriented fo 3.175907430 2.440163624 1.346270265 0.148809288	2.639258000 2.275409000 0.929474000 0.592901000 1.588453000 2.474025000 3.823937000 4.677138000 5.690977000 5.898884000 5.079207000 4.590149000 3.230325000 2.878679000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 3.334767000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.019998000 5.0199998000 5.0199998000 5.0199998000 5.01999999999999999999999999999999999999

6	3.444912732	1.236962977	-2.473974631	6	-3.229309290	-1.036843811	-3.290861303
6	2.811970405	2.383212362	-2.948308782	6	-2.919761055	-0.544475564	-4.620562963
6	1.843572882	3.077296598	-2.114453278	6	-1.992777251	-1.216041719	-5.413885435
6	0.780843515	3.573092552	-2.974543395	6	-1.335192549	-2.411293003	-4.910208396
6	-0.537412309	3.569663111	-2.525395058	6	-1.622627122	-2.873855608	-3.629688947
6	-1.607454641	3.163086250	-3.422667762	6	-0.557502757	-3.363934875	-2.773361632
6	-1.312905041	2.778242352	-4.727985828	6	-0.852903707	-2.974888032	-1.411031517
6	0.062199202	2.785454389	-5.194150255	6	0.159071201	-2.595772731	-0.566128157
6	0.246196102	1.640208111	-6.069529486	6	-0.001570923	-1.601719368	0.586092016
6	1.447243815	0.936691199	-6.053849767	6	-0.036439723	-2.307528146	1.968817161
6	1.441158358	-0.515107225	-6.110749382	1	0.469542041	-3.274620192	1.947057510
6	2,509450841	-1.002664239	-5.256478853	1	0.468644750	-1.667822759	2.710107177
6	2 325130971	-2 158772020	-4 502802341	7	-1 455744899	-2 459614091	2 231268531
6	2 796814400	-2 211781293	-3 129934401	6	-1 815424510	-3 044980237	3 529290240
6	3 435740406	-1 111235664	-2 569552418	1	-1 377958095	-4 046550588	3 562341793
6	3 128747849	-0 707639963	-1 206568376	1	-2 902095031	-3 167900522	3 536186392
6	3 136768141	0 733941870	-1 147665341	6	-1 375050511	-2 242806913	4 734603071
6	2 195764629	1 390001133	-0.352081155	6	-0 116510777	-2 435561561	5 311318017
6	1 530303814	2 585707109	-0.848975353	6	0 334821834	-1 633146030	6 351279525
6	0 165952255	2 579011430	-0.378152466	1	1 317604706	-1 701101780	6 776424151
6	-0.850006201	3 060830604	-1 100056518	1	0.520303045	-3 221542677	1 033533066
6	-2 103068100	2 356825004	-1 27/150185	6	-2 183207618	-1 228008155	5 257833570
6	2 578831080	2.00020004	2 647255520	1	3 175766025	1 072450216	4 847070061
6	2.376001009	2.411003090	2 207695192	6	1 752731640	-1.072439210	6 307571455
6	-3.210001200	0.000110054	4 570527494	1	2 206200971	-0.429270570	6 705011202
6	-2.912009040	1 626745429	-4.370327404 5.214415957	1	-2.390209071	0.343076093	6 950702259
6	1.979793237	0.020740436	-5.514415657	0	-0.470090004	-0.013129043	7 000220010
0	-1.010004900	0.924004105	-0.142010/00	1	-0.020711079	0.217291900	7.909329010
6	-1.023992022	-0.407903470	-0.190920032	0	1 952900964	-0.323263710	0.907030217
0	0.232100700	-1.203034302	-0.1/4000040	0	1.002000004	0.309040090	9.404911770
0	0.036409132	-2.405764400	-3.36//44391	0	2.399049371	-0.101003079	10.510110000
0	1.062049348	-2.8/0813248	-4.509177730	6	2.200057045	-1.396854405	11.062323079
0	0.758408746	-3.372609630	-3.239293373	6	1.168064440	-2.093424522	10.562458758
0	1.821398981	-2.961790600	-2.354651207	6	0.404499010	-1.501328050	9.529886405
6	1.510556443	-2.562565015	-1.053578869	1	-0.456119873	-2.09///5/32	9.150751570
6	2.178950934	-1.415176688	-0.467782723	1	0.893035107	-3.051644916	10.988084732
6	1.242214608	-0.737818902	0.385125469	1	2.854987079	-1.81091/1/2	11.8/2153216
6	1.238319552	0.635123412	0.427812820	1	3.455114725	0.388176754	10.885402980
6	-0.039295469	1.383338722	0.411288467	1	2.118464048	1.325101423	9.030300469
6	-1.237862009	0./14/31/96	0.353231644	6	-0.321410526	1.604317878	7.889718591
6	-1.386997421	-0.790523252	0.567591865	6	-0.697642061	2.263353743	9.065542421
6	-2.014540729	-1.151939623	1.941103830	1	-0.764554783	1.702595946	9.989224753
1	-3.104731018	-1.186746245	1.896143493	6	-0.976696053	3.625105786	9.044539759
1	-1.721873522	-0.389042693	2.680068501	1	-1.266505281	4.122798362	9.962816736
6	-2.309558065	-1.149125247	-0.598872955	6	-0.903021630	4.344945418	7.853594928
6	-2.129663843	-2.227071689	-1.427684522	1	-1.128117303	5.404443651	7.839699149
6	-2.587095062	-2.174900898	-2.799704146	6	-0.535715336	3.688010322	6.680819754
6	-2.270153509	1.190766154	-0.525187963	1	-0.466439929	4.237517087	5.749061400
6	-2.932824260	0.040068118	-1.111063657	6	-0.237005016	2.330415082	6.695963776
6	-3.408153230	0.101186668	-2.422275011	1	0.060263665	1.824097711	5.786324857

Cartesian coordinates of the optimized fragments for the calculation of λ_{int}

All systems were optimized at B3LYP-D3(BJ)/6-311G(d,p) level of theory.

C₆₀-Az Donor N electron system

6	-2.216215000	-0.006471000	-0.000169000
6	-2.014938000	1.385836000	-0.000127000
6	-0.839589000	2.123023000	-0.000104000
6	-1.201698000	-0.963840000	-0.000384000
6	0.487072000	1.705708000	-0.000056000
6	0.193047000	-0.826962000	-0.000411000
6	0.995789000	0.300506000	-0.000102000
1	-2.913768000	1,990188000	-0.000103000
1	-0.972894000	3.202814000	-0.000125000
1	-1.524656000	-1,994840000	-0.000569000
1	0.716098000	-1.775506000	-0.000678000
6	1.605972000	2,540798000	0.000024000
6	2.756740000	1.735062000	0.000055000
1	3.766181000	2.120120000	0.000101000
6	2.418410000	0.370335000	-0.000002000
6	3.416208000	-0.781511000	0.000069000
6	4.859035000	-0.243981000	0.000492000
1	5.059719000	0.363671000	-0.885468000
1	5.059209000	0.363569000	0.886635000
1	5.564061000	-1.079239000	0.000628000
6	3.247106000	-1.650154000	-1.266540000
1	3.991195000	-2.452681000	-1.277585000
1	2.259711000	-2.108619000	-1.327860000
1	3.385202000	-1.042977000	-2.164484000
6	3.246543000	-1.650554000	1.266309000
1	3.990686000	-2.453030000	1.277435000
1	3.384188000	-1.043662000	2.164518000
1	2.259157000	-2.109112000	1.327050000
6	-3.693531000	-0.468568000	0.000071000
6	-4.397800000	0.074556000	-1.263224000
1	-5.440970000	-0.253578000	-1.279582000
1	-4.389987000	1.164745000	-1.303090000
1	-3.908213000	-0.297494000	-2.166730000
6	-4.397163000	0.074380000	1.263826000
1	-5.440333000	-0.253729000	1.280666000
1	-3.907112000	-0.297824000	2.167016000
1	-4.389261000	1.164562000	1.303827000
6	-3.859808000	-1.997232000	-0.000005000
1	-3.417691000	-2.457391000	0.886906000
1	-4.925140000	-2.239568000	0.000246000
1	-3.418142000	-2.457247000	-0.887218000
1	1.581679000	3.621250000	0.000123000

C₆₀-Az Donor N-1 electron system

6	-2.229941000	-0.009223000	-0.000071000
6	-2.007828000	1.381178000	-0.000087000
6	-0.823421000	2.112812000	-0.000067000
6	-1.210090000	-0.966160000	-0.000192000
6	0.487029000	1.660375000	-0.000026000
6	0.186137000	-0.835956000	-0.000175000
6	0.971198000	0.302377000	-0.000027000
1	-2.900670000	1.993234000	-0.000104000
1	-0.944283000	3.192063000	-0.00088000
1	-1.539866000	-1.995305000	-0.000347000
1	0.712770000	-1.780068000	-0.000336000
6	1.645876000	2.520726000	-0.000022000
6	2.788278000	1.738139000	0.000028000
1	3.796752000	2.119139000	0.000030000
6	2.442288000	0.369749000	-0.000025000
6	3.419297000	-0.778390000	0.000033000
6	4.868479000	-0.258820000	0.000110000

1	5.083909000	0.339595000	-0.888025000
1	5.083726000	0.339828000	0.888132000
1	5.555244000	-1.106466000	0.000289000
6	3.219564000	-1.639424000	-1.274183000
1	3.962962000	-2.439151000	-1.279535000
1	2.234778000	-2.102918000	-1.329988000
1	3.362486000	-1.038720000	-2.174712000
6	3.219402000	-1.639390000	1.274234000
1	3.962730000	-2.439181000	1.279657000
1	3.362311000	-1.038677000	2.174761000
1	2.234562000	-2.102779000	1.329988000
6	-3.702850000	-0.460439000	0.000040000
6	-4.393558000	0.096526000	-1.267416000
1	-5.435990000	-0.227338000	-1.281166000
1	-4.389942000	1.187369000	-1.303576000
1	-3.911175000	-0.276699000	-2.173784000
6	-4.393407000	0.097291000	1.267245000
1	-5.435887000	-0.226410000	1.281229000
1	-3.911018000	-0.275515000	2.173782000
1	-4.389589000	1.188157000	1.302797000
6	-3.869013000	-1.988155000	0.000479000
1	-3.435824000	-2.452058000	0.890266000
1	-4.933551000	-2.225906000	0.000459000
1	-3.435659000	-2.452576000	-0.888959000
1	1.606573000	3.601074000	-0.000038000

C₆₀-Az Acceptor N electron system

6	-2.765922000	2.601535000	0.860106000
6	-2.849063000	2.601546000	-0.591667000
6	-3.594771000	1.423725000	-0.997969000
6	-3.974222000	0.695956000	0.201236000
6	-3.460856000	1.423895000	1.349082000
6	-2.962239000	0.727963000	2.447630000
6	-1.749576000	1.177217000	3.102926000
6	-1.082376000	2.307572000	2.637415000
6	-1.602852000	3.035272000	1.490733000
6	-0.472339000	3.484470000	0.696862000
6	-0.552150000	3.485337000	-0.691291000
6	-1.765644000	3.035912000	-1.350952000
6	-1.379357000	2.307767000	-2.549268000
6	-2.094923000	1.176984000	-2.935017000
6	-3.225377000	0.727852000	-2.146423000
6	-3.225363000	-0.728068000	-2.146373000
6	-3.594738000	-1.423864000	-0.997867000
6	-3.974205000	-0.696019000	0.201285000
6	-3.460823000	-1.423864000	1.349183000
6	-2.962222000	-0.727839000	2.447682000
6	-1.749548000	-1.177020000	3.103005000
6	-0.994682000	0.000122000	3.502146000
6	0.393252000	0.000136000	3.404174000
6	1.091513000	1.176294000	2.917580000
6	0.366380000	2.311016000	2.549893000
6	0.741393000	3.030764000	1.357130000
6	1.819487000	2.575408000	0.595944000
6	1.737420000	2.578794000	-0.852980000
6	0.578389000	3.031661000	-1.485504000
6	0.070196000	2.310638000	-2.627209000
6	0.748789000	1.176107000	-3.075247000
6	-0.000455000	-0.000124000	-3.478224000
6	-1.390260000	-0.000136000	-3.417478000
6	-2.094899000	-1.177233000	-2.934936000
6	-1.379301000	-2.307967000	-2.549096000
6	-1.765578000	-3.036037000	-1.350732000

6	-2.849006000	-2.601641000	-0.591479000
6	-2.765866000	-2.601525000	0.860295000
6	-1.602780000	-3.035186000	1.490951000
6	-1.082326000	-2.307394000	2.637581000
6	0.366436000	-2.310816000	2.550056000
6	1.091538000	-1.176040000	2.917646000
6	2.224237000	-0.739784000	2.129675000
6	2.224239000	0.740002000	2.129644000
6	2.587944000	1.431208000	1.002196000
6	3.268293000	0.803284000	-0.216577000
6	2.458643000	1.438056000	-1.346055000
6	1.963932000	0.740197000	-2.420842000
6	1.963961000	-0.740321000	-2.420808000
6	0.748815000	-1.176308000	-3.075177000
6	0.070246000	-2.310817000	-2.627044000
6	0.578455000	-3.031747000	-1.485283000
6	-0.552076000	-3.485389000	-0.691040000
6	-0.472256000	-3.484419000	0.697111000
6	0.741465000	-3.030641000	1.357350000
6	1.819558000	-2.575311000	0.596147000
6	2.588021000	-1.431075000	1.002310000
6	3.268338000	-0.803231000	-0.216537000
6	2.458649000	-1.438088000	-1.345943000
6	1.737470000	-2.578805000	-0.852778000
6	4.781403000	-1.143030000	-0.278364000
6	4.781393000	1.143025000	-0.278336000
7	5.416751000	-0.000007000	0.350058000
6	6.865990000	0.000025000	0.266374000
1	7.263056000	0.883196000	0.771126000
1	7.262940000	-0.884062000	0.769602000
1	7.230984000	0.000883000	-0.776531000
1	5.014109000	-2.070301000	0.247441000
1	5.014102000	2.070404000	0.247298000
1	5.085428000	1.257242000	-1.335215000
1	5.085382000	-1.257325000	-1.335240000

C₆₀-Az Acceptor N+1 electron system

6	-2.785993000	2.605734000	0.844128000
6	-2.859082000	2.604795000	-0.600020000
6	-3.598250000	1.425232000	-1.014425000
6	-3.986329000	0.696023000	0.181719000
6	-3.476667000	1.426675000	1.330780000
6	-2.983963000	0.725577000	2.431325000
6	-1.766849000	1.170102000	3.094863000
6	-1.100270000	2.304408000	2.625859000
6	-1.614623000	3.035830000	1.487212000
6	-0.477890000	3.473347000	0.697318000
6	-0.548330000	3.473681000	-0.691845000
6	-1.762668000	3.033823000	-1.360669000
6	-1.369506000	2.305023000	-2.547431000
6	-2.081252000	1.170127000	-2.945741000
6	-3.222298000	0.726379000	-2.159726000
6	-3.222298000	-0.726513000	-2.159685000
6	-3.598245000	-1.425299000	-1.014342000
6	-3.986326000	-0.696023000	0.181759000
6	-3.476662000	-1.426606000	1.330862000
6	-2.983961000	-0.725442000	2.431367000
6	-1.766845000	-1.169924000	3.094928000
6	-1.022312000	0.000102000	3.508692000
6	0.383666000	0.000102000	3.418887000
6	1.075689000	1.169536000	2.927982000
6	0.355097000	2.307955000	2.547725000
6	0.738978000	3.031579000	1.367888000
6	1.827662000	2.578434000	0.605563000
6	1.755147000	2.582064000	-0.837926000
6	0.590496000	3.034846000	-1.483719000
6	0.086627000	2.306925000	-2.615599000
6	0.763757000	1.168765000	-3.067573000

6	0.024533000	-0.000102000	-3.486277000
6	-1.383625000	-0.000102000	-3.432551000
6	-2.081251000	-1.170303000	-2.945676000
6	-1.369498000	-2.305171000	-2.547295000
6	-1.762660000	-3.033905000	-1.360493000
6	-2.859076000	-2.604837000	-0.599869000
6	-2.785986000	-2.605692000	0.844279000
6	-1.614612000	-3.035744000	1.487386000
6	-1.100264000	-2.304256000	2.625991000
6	0.355105000	-2.307805000	2.547857000
6	1.075689000	-1.169357000	2.928040000
6	2.219687000	-0.737817000	2.143776000
6	2.219703000	0.737953000	2.143752000
6	2.590077000	1.433904000	1.020311000
6	3.275278000	0.803195000	-0.195294000
6	2.471233000	1.441118000	-1.328140000
6	1.983819000	0.736521000	-2.405548000
6	1.983831000	-0.736658000	-2.405521000
6	0.763763000	-1.168944000	-3.067513000
6	0.086634000	-2.307077000	-2.615465000
6	0.590501000	-3.034928000	-1.483542000
6	-0.548323000	-3.473723000	-0.691645000
6	-0.477877000	-3.473305000	0.697517000
6	0.738991000	-3.031500000	1.368064000
6	1.827672000	-2.578392000	0.605721000
6	2.590112000	-1.433845000	1.020405000
6	3.275289000	-0.803197000	-0.195257000
6	2.471216000	-1.441184000	-1.328047000
6	1.755153000	-2.582105000	-0.837769000
6	4.786238000	-1.143792000	-0.258245000
6	4.786232000	1.143773000	-0.258251000
7	5.437590000	-0.000006000	0.357829000
6	6.879212000	0.000020000	0.228380000
1	7.295151000	0.884485000	0.717815000
1	7.295156000	-0.884585000	0.717556000
1	7.213216000	0.000175000	-0.827528000
1	5.018084000	-2.069364000	0.271823000
1	5.018102000	2.069364000	0.271776000
1	5.088686000	1.263397000	-1.315837000
1	5.088694000	-1.263438000	-1.315828000

C₆₀-ZnTTP Donor N electron system

6	2.574046000	-0.577469000	1.894857000
6	1.729656000	-0.473299000	3.145410000
8	1.486257000	0.551815000	3.741114000
8	1.282269000	-1.674517000	3.543809000
6	0.525467000	-1.681296000	4.773341000
1	1.096966000	-1.207515000	5.570998000
1	-0.418001000	-1.152073000	4.639385000
1	0.351916000	-2.731187000	4.996139000
6	3.953506000	-1.155172000	2.189783000
8	4.263542000	-2.279689000	1.907032000
8	4.862490000	-0.378456000	2.829654000
6	4.652237000	1.009122000	3.150328000
1	3.597090000	1.252522000	3.259439000
1	5.141088000	1.151895000	4.115332000
6	5.310686000	1.904965000	2.128517000
1	5.379371000	2.922769000	2.532781000
1	6.319392000	1.538115000	1.911085000
8	4.512707000	1.897245000	0.951411000
6	4.078075000	2.630880000	-1.243053000
6	4.447827000	3.377439000	-2.360067000
6	4.925692000	2.638009000	-0.121014000
1	3.790736000	3.367398000	-3.221483000
6	5.627592000	4.118518000	-2.384888000
6	6.109256000	3.378260000	-0.136615000
1	5.894615000	4.688145000	-3.266411000
1	6.764725000	3.391075000	0.722493000

1	4.606591000	-5.934308000	0.434762000
6	3.877397000	-6.563470000	-1.490990000
1	4.437888000	-7.491357000	-1.493827000
6	-2.711738000	4.293924000	-1.048777000
6	-3.523382000	4.524165000	0.068258000
6	-2.640185000	5.275339000	-2.043046000
1	-3.581953000	3.764263000	0.837283000
1	-2.020471000	5.099455000	-2.914272000
6	-4.242255000	5.709903000	0.189144000
6	-3.362200000	6.459613000	-1.923792000
1	-4.860928000	5.876462000	1.063705000
1	-3.301028000	7.207808000	-2.705811000
6	-4.164121000	6.681277000	-0.806440000
1	-4.724675000	7.604168000	-0.712920000
30	-0.134205000	0.065376000	-1.252317000
1	-1.209508000	2.191718000	1.619754000
1	-0.700263000	1.679376000	3.247766000
1	2.643864000	0.406516000	1.439229000
1	2.093782000	-1.258696000	1.199676000

C₆₀- ZnTTP Donor N-1 electron system

0	6	2.229534000	-0.205978000	2.068017000
0	6	1.733111000	-0.148628000	3.497722000
0	8	0.790072000	-0.761938000	3.929018000
0	8	2.490681000	0.669897000	4.251665000
0	6	2.074011000	0.818759000	5.623627000
0	1	1.067910000	1.236859000	5.661800000
0	1	2.084035000	-0.145755000	6.131488000
0	1	2.791013000	1.500923000	6.072803000
0	6	3.054615000	-1.460594000	1.817923000
0	8	2.550160000	-2.488265000	1.448449000
0	8	4.392639000	-1.433879000	2.020089000
0	6	5.087321000	-0.279262000	2.520226000
0	1	4.435543000	0.347878000	3.125379000
0	1	5.875971000	-0.675046000	3.161976000
0	6	5.727253000	0.514977000	1.404759000
0	1	6.344061000	1.300951000	1.854949000
0	1	6.360579000	-0.126496000	0.783525000
0	8	4.688320000	1.080486000	0.606913000
0	6	3.997275000	2.062377000	-1.418399000
0	6	4.271411000	2.868214000	-2.527540000
0	6	5.024772000	1.826133000	-0.484611000
0	1	3.484680000	3.036726000	-3.252503000
0	6	5.534563000	3.412670000	-2.730771000
0	6	6.294175000	2.366541000	-0.688284000
0	1	5.730176000	4.019530000	-3.605437000
0	1	7.089027000	2.186051000	0.021329000
0	6	6.543378000	3.154741000	-1.809488000
0	1	7.534245000	3.567103000	-1.956158000
0	6	-1.958153000	1.467345000	2.118755000
0	6	-0.802556000	2.446843000	2.183330000
0	8	0.360787000	2.165764000	2.319823000
0	8	-1.276586000	3.696332000	2.104030000
0	6	-0.306923000	4.759781000	2.230970000
0	1	0.057899000	4.804697000	3.257597000
0	1	0.523314000	4.590206000	1.548947000
0	1	-0.844617000	5.668216000	1.973196000
0	6	-1.512341000	0.031836000	2.031339000
0	8	-0.835873000	-0.413888000	1.121745000
0	8	-1.974758000	-0.672266000	3.047704000
0	6	-1.785970000	-2.109665000	3.067797000
0	1	-1.050074000	-2.387574000	2.316893000
0	1	-1.412790000	-2.350026000	4.060327000
0	6	-3.139199000	-2.734902000	2.796285000
0	1	-3.069982000	-3.827556000	2.845291000
0	1	-3.878826000	-2.385648000	3.524392000
0	8	-3.480389000	-2.304388000	1.487298000
0	6	-4.746298000	-2.207056000	-0.453127000

6	6.454229000	4.114336000	-1.269245000
1	7.376379000	4.683673000	-1.268760000
6	-1.393375000	1.483301000	2.427815000
6	-2.820915000	1.554588000	2.926906000
8	-3.162848000	1.576545000	4.079203000
8	-3.659271000	1.542571000	1.8/3958000
6 1	-5.054258000	1.336055000	2.158483000
1	-5.212350000	0.281245000	2.385960000
1	-5.3/0//0000	1.958489000	2.994615000
۱ ۵	-3.370622000	1.000079000	1.243049000
0 Q	-1.093391000	0.104040000	1.091241000
Q Q	1 81280000	-0.130000000	2 503336000
6	-1.773766000	-0.033310000	2.303330000
1	-1.409576000	-2.154003000	0.953297000
1	-1.081191000	-2 769033000	2 583360000
6	-3 176629000	-2 744383000	2.068320000
1	-3 164218000	-3 779129000	1 714608000
1	-3 518058000	-2 728975000	3 107396000
8	-4.088209000	-1.956124000	1.290989000
6	-4.330461000	-2.474629000	-1.042707000
6	-4.774465000	-2.601288000	0.281358000
6	-5.068385000	-3.090172000	-2.054929000
1	-4.726497000	-2.992583000	-3.078500000
6	-5.924264000	-3.327703000	0.581037000
6	-6.217894000	-3.819807000	-1.761427000
1	-6.247733000	-3.396711000	1.613011000
1	-6.778752000	-4.289930000	-2.560340000
6	-6.644804000	-3.939437000	-0.441201000
1	-7.540475000	-4.502372000	-0.206067000
6	-3.077274000	-1.708814000	-1.310858000
6	1.656703000	-2.887104000	-1.479351000
6	2.803065000	1.851959000	-1.248355000
6	-1.936007000	3.024354000	-1.167638000
7	1.847960000	-0.422410000	-1.383766000
7	-0.623729000	-1.923938000	-1.481394000
1	-2.128702000	0.567588000	-1.315537000
1	0.341745000	2.062002000	-1.235595000
6	-2.003057000	1.830223000	-1.290119000
6	-3.176021000	2 446056000	1 305501000
6	-1.009700000	-2.440950000	-1.395501000
6	-0 534609000	3 111482000	-1.400100000
6	1 608652000	2 580159000	-1 152762000
6	2 897974000	0 459577000	-1.376053000
6	2 381457000	-1 685466000	-1 471847000
6	-4.106491000	1.740653000	-1.354431000
6	-4.423712000	0.418429000	-1.360811000
6	-1.810714000	-3.888252000	-1.319668000
6	-0.489205000	-4.216546000	-1.358247000
6	3.824298000	-1.590934000	-1.542200000
6	4.140714000	-0.270370000	-1.484553000
6	0.211024000	4.337066000	-0.918612000
6	1.531069000	4.009889000	-0.947059000
1	-4.778986000	2.581986000	-1.384583000
1	-5.404174000	-0.029164000	-1.396417000
1	-2.655161000	-4.554662000	-1.245413000
1	-0.052579000	-5.200404000	-1.311167000
1	4.498011000	-2.427131000	-1.622472000
1	5.121881000	0.174769000	-1.516537000
1	-0.223293000	5.311879000	-0.769601000
1	2.377523000	4.666799000	-0.829850000
6	2.431280000	-4.162610000	-1.484039000
6	2.343183000	-5.044012000	-2.56//40000
0	3.256061000	-4.490383000	
1	1.7 15439000	-4.103135000	-3.411710000
۱ ۵	3.343213000 3.061637000	-3.019233000	0.437901000
6	3.001037000	-0.200990000	-2.57 1979000
1	2 988712000	-6.905369000	-3 421642000
'	2.0007 12000	0.0000000000	5.721072000

6	-4.663414000	-2.615702000	0.893946000
6	-5.919228000	-2.433193000	-1.163205000
1	-5.978420000	-2.124769000	-2.200260000
6	-5.731967000	-3.261476000	1.505416000
6	-6.997961000	-3.075750000	-0.554127000
1	-5.667863000	-3.583666000	2.536377000
1	-7.905018000	-3.260037000	-1.115329000
6	-6.897434000	-3.487121000	0.770449000
1	-7.731054000	-3,990360000	1.245063000
6	-3.520023000	-1.558327000	-0.997162000
6	1 043774000	-3 185745000	-1 535880000
6	2 663134000	1 418345000	-1 284341000
6	-1 950489000	3 043995000	-1 257040000
7	1 494946000	-0 762571000	-1 284702000
7	-1 122492000	-2 009463000	-1 391201000
7	-2 391929000	0 618997000	-1 226331000
7	0 228237000	1 856357000	-1 217231000
6	-2 806492000	1 927871000	-1 246251000
6	-3 512577000	-0 148850000	-1 095924000
6	-2 417890000	-2 406001000	-1 195295000
6	-0.366073000	-3 144893000	-1 441203000
6	-0.530345000	2 992732000	-1.214226000
6	1 537033000	2.002702000	-1.18/110000
6	2 620227000	0.013661000	-1.388854000
6	1 007702000	2.054921000	1 510412000
6	1.007705000	1 080173000	1 163371000
6	4.247002000	0.602102000	1 024072000
6	2 487001000	3 846676000	-1.034073000
6	-2.467001000	-3.040070000	1 200422000
0	-1.210070000	-4.306462000	-1.300423000
6	3.303202000	-2.095020000	1 608220000
6	0.211145000	-0.01000000	-1.090329000
6	1 507/36000	4.155556000	1 10820000
1	1.597450000	2 877800000	1 188427000
1	-5 695859000	0 346084000	-0.926388000
1	-3.387840000	-4 422502000	-0.920300000
1	-0.878931000	-5 328970000	-1 294638000
1	3 869124000	-2 980226000	-2 014840000
1	4 760636000	-0 461122000	-1 869004000
1	-0 031084000	5 173927000	-1 101573000
1	2.499732000	4.285501000	-1.040260000
6	1.685483000	-4.514690000	-1.658711000
6	1.355461000	-5.367515000	-2.722096000
6	2 629652000	-4 931419000	-0 707771000
1	0.639665000	-5.040798000	-3.466696000
1	2 867155000	-4 280224000	0 124290000
6	1.966986000	-6.609799000	-2.840165000
6	3.220235000	-6.185209000	-0.821960000
1	1.720697000	-7.253588000	-3.675903000
1	3 934845000	-6 508416000	-0 074482000
6	2.896511000	-7.023540000	-1.887134000
1	3.366461000	-7.995753000	-1.975667000
6	-2.576077000	4.395738000	-1.293326000
6	-3.282585000	4.889225000	-0.191083000
6	-2.453588000	5.189034000	-2.439305000
1	-3.353202000	4.291624000	0.707906000
1	-1.911504000	4.807568000	-3.296290000
6	-3.853956000	6.157490000	-0.236465000
6	-3.037097000	6.451389000	-2.485331000
1	-4.391364000	6.534888000	0.625410000
1	-2.946926000	7.052352000	-3.382153000
6	-3.736322000	6.939172000	-1.383693000
1	-4.187119000	7.923541000	-1.419070000
30	-0.445617000	-0.090806000	-1.065474000
1	-2.587996000	1.616381000	2.995772000
1	-2.560692000	1.691777000	1.236792000
1	2.764887000	0.702349000	1.817040000
1	1.354605000	-0.298974000	1.435832000

C₆₀- ZnTTP Acceptor N electron system

6	-1 131363000	-2 811212000	-1 841704000
6	-0 629197000	-1 946919000	-2 896542000
6	0.822803000	-1.962371000	-2 836736000
6	1 218060000	-2 836719000	-1 745189000
6	0.010231000	-3.361200000	-1 130229000
6	-0.048326000	-3 536934000	0.249005000
6	1 251151000	3 170864000	0.249003000
6	2 244404000	-3.170004000	0.977709000
6	-2.344404000	-2.044370000	1 142026000
0	-2.203303000	-2.400077000	-1.143920000
0	-2.963716000	-1.229030000	-1.409773000
0	-2.502919000	-0.401946000	-2.479959000
6	-1.300010000	-0.768237000	-3.208543000
6	-0.548677000	0.446991000	-3.474712000
6	0.841770000	0.432083000	-3.41/8/3000
6	1.542092000	-0.798784000	-3.091622000
6	2.688677000	-0.457924000	-2.266192000
6	3.067256000	-1.295034000	-1.221015000
6	2.315857000	-2.510287000	-0.954752000
6	2.254773000	-2.693809000	0.485533000
6	1.098264000	-3.196338000	1.074441000
6	0.603886000	-2.619211000	2.313128000
6	-0.848023000	-2.603434000	2.253443000
6	-1.555099000	-1.533575000	2.793659000
6	-2.696766000	-0.983703000	2.081935000
6	-3.082680000	-1.526827000	0.860735000
6	-3.478090000	-0.652733000	-0.231079000
6	-3.470570000	0.727660000	-0.054764000
6	-2.968261000	1.592159000	-1.109358000
6	-2.494806000	1.039488000	-2.295477000
6	-1.287072000	1.564138000	-2.910459000
6	-0.603909000	2.619095000	-2.313135000
6	0.847940000	2.603570000	-2.253484000
6	1 555139000	1 533549000	-2 793844000
6	2 696731000	0.983783000	-2 082259000
6	3 082820000	1 526942000	-0.860653000
6	3 478176000	0.652665000	0 231082000
6	3 470677000	-0 727745000	0.054912000
6	2 968192000	-1 592192000	1 109362000
6	2 494761000	-1 039487000	2 295670000
6	1 287018000	-1.564193000	2 910434000
6	0.548603000	-0.446908000	3 474678000
6	-0.841842000	-0.440300000	3 417846000
6	-1 542176000	0.798732000	3 091553000
6	-2 688638000	0.757024000	2 266126000
6	2.0000000000	1 205012000	1 2200000000
6	2 316001000	2 510277000	0.054826000
6	-2.310001000	2.510277000	0.954620000
6	-2.234033000	2.093009000	-0.403404000
0	-1.096276000	3.190302000	-1.074360000
0	0.048334000	3.536916000	-0.248983000
0	1.251182000	3.170835000	-0.977699000
6	2.344603000	2.644445000	-0.296382000
6	2.283181000	2.460634000	1.143947000
6	2.983832000	1.229///000	1.4698/3000
6	2.502896000	0.401946000	2.479843000
6	1.299984000	0.768178000	3.208643000
6	0.629133000	1.946775000	2.896464000
6	-0.822759000	1.962529000	2.836831000
6	-1.218057000	2.836769000	1.745210000
6	-0.010248000	3.361106000	1.130221000
6	1.131388000	2.811240000	1.841704000

C₆₀- ZnTTP Acceptor N+1 electron system

6	-2.120441000	1.414268000	-2.471749000
6	-1.234027000	2.520039000	-2.153999000
6	0.069032000	2.246933000	-2.746106000
6	-0.004823000	0.970259000	-3.411933000
6	-1 355252000	0 448325000	-3 237542000
6	-1 557659000	-0.915415000	-3 043524000
6	-2 538524000	-1 370357000	-2 070198000
6	2.000024000	0.441047000	1 320003000
6	3 061224000	0.078603000	1 533041000
6	-3.001224000	1.625269000	-1.555041000
6	-3.153207000	2 704065000	-0.244031000
0	-2.302746000	2.701905000	0.056909000
6	-1.322233000	3.150953000	-0.916432000
6	-0.114918000	3.543290000	-0.204851000
6	1.141184000	3.274972000	-0.774613000
6	1.232616000	2.620666000	-2.056236000
6	2.363948000	1.705113000	-2.017129000
6	2.292839000	0.472980000	-2.660444000
6	1.084609000	0.088294000	-3.378420000
6	0.874673000	-1.324525000	-3.179730000
6	-0.427318000	-1.829404000	-3.014991000
6	-0.694765000	-2.834495000	-2.016097000
6	-1.998471000	-2.553087000	-1.426382000
6	-2.212742000	-2.767257000	-0.067653000
6	-2 979252000	-1 802638000	0 704464000
6	-3 496439000	-0.664796000	0.087487000
6	-3 422078000	0.621104000	0 759192000
6	-2 833200000	0.021104000	2 010832000
6	1.045800000	1 822247000	2 222222000
6	1 699221000	2 704452000	1 260222000
0	-1.000221000	2.794452000	1.309336000
0	-0.337560000	3.319361000	1.202088000
6	0.694760000	2.834510000	2.016107000
6	1.998490000	2.553113000	1.426389000
6	2.212/24000	2.767255000	0.067650000
6	2.979284000	1.802660000	-0.704470000
6	3.496433000	0.664798000	-0.087489000
6	3.422095000	-0.621113000	-0.759204000
6	2.833193000	-0.712738000	-2.019829000
6	1.945828000	-1.822277000	-2.332348000
6	1.688198000	-2.794441000	-1.369330000
6	0.337551000	-3.319369000	-1.202077000
6	0.114916000	-3.543290000	0.204858000
6	-1.141196000	-3.274986000	0.774606000
6	-1.232622000	-2.620697000	2.056235000
6	-2.363953000	-1.705132000	2.017143000
6	-2 292812000	-0 472983000	2 660416000
6	-1 084598000	-0.088294000	3 378425000
6	-0.874672000	1 324534000	3 179726000
6	0.074072000	1 820/10000	3 015010000
6	1 557665000	0.015425000	2 042521000
6	2 529519000	1 270261000	2.043331000
0	2.536516000	1.370301000	2.070201000
0	3.272262000	0.441948000	1.329991000
6	3.061221000	-0.978689000	1.533034000
6	3.153208000	-1.635367000	0.244021000
6	2.302751000	-2.701975000	-0.058908000
6	1.322221000	-3.150915000	0.916440000
6	1.234041000	-2.520075000	2.154038000
6	-0.069036000	-2.246929000	2.746082000
6	0.004817000	-0.970266000	3.411935000
6	1.355256000	-0.448326000	3.237544000
6	2.120420000	-1.414248000	2.471726000

C₅₉-Pc Donor N electron system

7 7 7		0 770000000	0 004770000
7 7	-1.706687000	0.770832000	0.521776000
7	-1.421564000	-1.982354000	0.616952000
	1.396042000	-1.794724000	0.815230000
7	1 114834000	0 040183000	0 534336000
6	1.114004000	0.040100000	0.00+000000
ю	-1.532331000	2.131177000	0.424226000
6	-3.035316000	0.409922000	0.533284000
6	-2.771850000	-1.900608000	0.453528000
6	1 076971000	3 202260000	0 481065000
0	-1.070071000	-5.232200000	0.401003000
6	1.216016000	-3.152610000	0.886243000
6	2.721165000	-1.436556000	0.885244000
6	2.472702000	0.850286000	0.515659000
ê	0 707271000	2 251672000	0.202240000
0	0.797371000	2.231072000	0.203349000
6	-2.863104000	2.710488000	0.420377000
6	-3.794292000	1.650049000	0.498908000
6	-3 342649000	-3 225337000	0 178446000
ē	2 247064000	4 102075000	0.104154000
0	-2.247904000	-4.103075000	0.124154000
6	2.531175000	-3.728491000	1.093081000
6	3.468976000	-2.671603000	1.082479000
6	3 083059000	2 148060000	0 213637000
ē	2.012001000	2.044755000	0.020706000
0	2.013001000	3.041755000	0.036706000
6	-3.277270000	4.035993000	0.303440000
6	-5.176287000	1.891423000	0.460954000
6	-4 638061000	-3 666240000	-0.059210000
ē	2 206242000	E 441090000	0.055040000
0	-2.390243000	-5.441060000	-0.255240000
6	2.927762000	-5.059265000	1.195302000
6	4.846272000	-2.930819000	1.158378000
6	4 404436000	2 557391000	0 080458000
č	0.000054000	4.001001000	0.000-000000
0	2.229651000	4.301054000	-0.297096000
6	-4.644800000	4.273743000	0.253027000
6	-5.574757000	3.221330000	0.326390000
6	-4 805687000	-5 020862000	-0.352597000
ē	2 709040000	E 996260000	0.461022000
0	-3.706940000	-3.860200000	-0.401922000
-	4.290708000	-5 314174000	1 272495000
6		0.0	1.272400000
6 6	5.230044000	-4.269383000	1.244738000
6 6 6	5.230044000 4.629073000	-4.269383000 3.901721000	1.244738000
6 6 6	5.230044000 4.629073000 3.564158000	-4.269383000 3.901721000 4.794019000	1.244738000 -0.216049000 -0.400341000
6 6 6 6	5.230044000 4.629073000 3.564158000	-4.269383000 3.901721000 4.794019000	1.244738000 -0.216049000 -0.400341000
6 6 6 1	5.230044000 4.629073000 3.564158000 -2.549871000	-4.269383000 3.901721000 4.794019000 4.834336000	1.244738000 -0.216049000 -0.400341000 0.233621000
6 6 6 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000
6 6 6 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000
6 6 6 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000
6 6 6 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000
6 6 6 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.158898000
6 6 6 1 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.158898000 0.294355000
6 6 6 1 1 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 0.207351000 0.158898000 0.294355000 -0.537345000
6 6 6 1 1 1 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.158898000 0.294355000 -0.537345000 -0.60740000
6 6 6 6 1 1 1 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.158898000 0.294355000 -0.537345000 -0.537345000
6 6 6 1 1 1 1 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000	$\begin{array}{c} 1.244738000\\ -0.216049000\\ -0.400341000\\ 0.233621000\\ -0.018747000\\ 1.178127000\\ 0.207351000\\ 0.207351000\\ 0.294355000\\ -0.537345000\\ -0.560740000\\ 1.346237000 \end{array}$
6 6 6 1 1 1 1 1 1 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 -4.500664000	$\begin{array}{c} 1.244738000\\ -0.216049000\\ -0.400341000\\ 0.233621000\\ -0.018747000\\ 1.178127000\\ 0.207351000\\ 0.207351000\\ 0.294355000\\ -0.537345000\\ -0.537345000\\ -0.760740000\\ 1.346237000\\ 1.301799000\end{array}$
6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 -4.500664000 4.264132000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.294355000 -0.537345000 -0.537345000 1.346237000 1.301799000 -0.323502000
6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -6.635126000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 4.500664000 4.264132000 5.826303000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.294355000 -0.537345000 -0.760740000 1.346237000 1.301799000 -0.323502000 -0.659443000
6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 -4.500664000 4.264132000 5.826303000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.207351000 0.294355000 -0.537345000 -0.537345000 -0.760740000 1.346237000 1.301799000 -0.323502000 -0.659443000
6 6 6 6 1 1 1 1 1 1 1 1 1 1 7	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 -4.500664000 4.264132000 5.826303000 -0.807804000	$\begin{array}{c} 1.244738000\\ -0.216049000\\ -0.400341000\\ 0.233621000\\ -0.018747000\\ 1.178127000\\ 0.207351000\\ 0.207351000\\ 0.294355000\\ -0.537345000\\ -0.537345000\\ -0.760740000\\ 1.346237000\\ 1.301799000\\ -0.323502000\\ -0.659443000\\ 0.486739000\end{array}$
6 6 6 6 1 1 1 1 1 1 1 1 1 1 7 7	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 -4.500664000 4.264132000 5.826303000 -0.807804000 -3.837007000	$\begin{array}{c} 1.244738000\\ -0.216049000\\ -0.400341000\\ 0.233621000\\ -0.018747000\\ 1.178127000\\ 0.207351000\\ 0.207351000\\ 0.294355000\\ -0.537345000\\ -0.537345000\\ -0.760740000\\ 1.346237000\\ 1.301799000\\ -0.323502000\\ -0.659443000\\ 0.486739000\\ 0.695620000\\ \end{array}$
6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 7 7 7	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000 3.217559000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 3.443323000 -5.407454000 -6.915931000 -6.336612000 4.264132000 5.826303000 -0.807804000 -3.837007000 -0.231927000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.294355000 -0.537345000 -0.537345000 1.346237000 1.346237000 1.301799000 -0.323502000 0.659443000 0.486739000 0.695620000 0.729702000
6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 7 7 7 7	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000 3.217559000 -0.414186000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 4.264132000 5.826303000 -0.807804000 -3.837007000 -0.231927000 2.800931000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.294355000 -0.537345000 -0.537345000 -0.760740000 1.346237000 1.301799000 -0.323502000 -0.659443000 0.486739000 0.695620000 0.729702000 0 288734000
6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 7 7 7 7 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000 3.217559000 -0.414186000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 -4.500664000 4.264132000 5.826303000 -0.807804000 -3.837007000 -0.231927000 2.800931000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.294355000 -0.537345000 -0.760740000 1.346237000 1.301799000 -0.323502000 -0.659443000 0.695620000 0.729702000 0.288734000
6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 7 7 7 1	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000 3.217559000 -0.414186000 -0.951310000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 -4.500664000 4.264132000 5.826303000 -0.807804000 -3.837007000 -0.231927000 2.800931000 0.097188000	$\begin{array}{c} 1.244738000\\ -0.216049000\\ -0.400341000\\ 0.233621000\\ -0.018747000\\ 1.178127000\\ 0.207351000\\ 0.207351000\\ 0.294355000\\ -0.537345000\\ -0.537345000\\ -0.537345000\\ -0.760740000\\ 1.346237000\\ 1.301799000\\ -0.323502000\\ -0.659443000\\ 0.486739000\\ 0.695620000\\ 0.729702000\\ 0.288734000\\ 0.553245000\end{array}$
6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 7 7 7 7	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000 3.217559000 -0.414186000 -0.951310000 0.658799000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 -4.500664000 4.264132000 5.826303000 -0.807804000 -3.837007000 -0.231927000 2.800931000 0.097188000 -1.124634000	$\begin{array}{c} 1.244738000\\ -0.216049000\\ -0.400341000\\ 0.233621000\\ -0.018747000\\ 0.207351000\\ 0.207351000\\ 0.207351000\\ 0.294355000\\ -0.537345000\\ -0.537345000\\ -0.760740000\\ 1.346237000\\ 1.301799000\\ -0.323502000\\ -0.659443000\\ 0.486739000\\ 0.695620000\\ 0.729702000\\ 0.288734000\\ 0.553245000\\ 0.635240000\\ \end{array}$
6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 7 7 7 7	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000 3.217559000 -0.414186000 -0.951310000 0.658799000 -6.148862000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 4.500664000 4.264132000 5.826303000 -0.807804000 -3.837007000 -0.231927000 2.800931000 0.097188000 -1.124634000 0.771723000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.294355000 -0.537345000 -0.537345000 -0.760740000 1.346237000 1.301799000 -0.323502000 -0.659443000 0.486739000 0.695620000 0.729702000 0.288734000 0.553245000 0.6655771000
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6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 7 7 7 7 1 1 6 6 6 6	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000 3.217559000 -0.414186000 -0.951310000 0.658799000 -6.148862000 -6.886679000 -6.264733000 -7.726712000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 4.500664000 4.264132000 5.826303000 -0.807804000 -3.837007000 0.807804000 -3.837007000 0.097188000 -1.124634000 0.771723000 0.371682000 0.072234000 -0.742940000	1.244738000 -0.216049000 -0.400341000 0.233621000 1.178127000 0.207351000 0.294355000 -0.537345000 -0.537345000 -0.760740000 1.346237000 1.301799000 -0.323502000 0.659443000 0.695620000 0.729702000 0.288734000 0.553245000 0.635240000 0.565771000 -0.546685000 1.767107000 -0.482013000
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66661111111111177771166666611160	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000 3.217559000 -0.414186000 -0.951310000 0.658799000 -6.148862000 -6.264733000 -7.726712000 -7.104788000 -7.819024000 -6.762469000 -5.667318000 -8.465363000 -8.513851000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 4.500664000 4.264132000 5.826303000 -0.807804000 -0.31927000 2.800931000 0.097188000 -1.124634000 0.771723000 0.371682000 0.771723000 0.371682000 0.742940000 -1.23575000 -1.421217000 0.918393000 0.395269000 -2.287783000 -1.257791000 2.607202020	1.244738000 -0.216049000 -0.400341000 -0.233621000 -0.18747000 1.178127000 0.207351000 0.294355000 -0.537345000 -0.537345000 -0.760740000 1.346237000 1.301799000 -0.323502000 -0.659443000 0.695620000 0.729702000 0.288734000 0.635240000 0.635240000 0.565771000 -0.546685000 1.767107000 -0.482013000 1.874361000 0.735880000 -1.470976000 2.607527000 0.799847000 -1.694893000
666611111111111777711666666111166	5.230044000 4.629073000 3.564158000 -2.549871000 -5.474570000 2.191606000 5.218895000 -5.007710000 -6.635126000 -5.801394000 -3.869662000 4.642554000 6.287336000 5.645153000 3.769907000 -3.527326000 0.116926000 3.217559000 -0.414186000 -0.951310000 0.658799000 -6.148862000 -6.264733000 -7.726712000 -7.104788000 -7.819024000 -6.762469000 -5.667318000 -8.465363000 -8.513851000 -8.059263000	-4.269383000 3.901721000 4.794019000 4.834336000 -2.980071000 -5.852811000 1.855252000 5.290752000 3.443323000 -5.407454000 -6.915931000 -6.336612000 4.500664000 4.264132000 5.826303000 -0.807804000 -3.8370077000 2.800931000 0.097188000 0.071723000 0.77123000 0.77123000 0.77123000 0.7742940000 -1.124634000 -1.23575000 -1.421217000 0.918393000 0.395269000 -2.287783000 -1.257791000 -2.697903000	1.244738000 -0.216049000 -0.400341000 0.233621000 -0.018747000 1.178127000 0.207351000 0.207351000 0.294355000 -0.537345000 -0.537345000 -0.760740000 1.346237000 1.346237000 -0.659443000 0.695620000 0.729702000 0.635240000 0.565771000 -0.546685000 1.767107000 -0.546685000 1.767107000 -0.546685000 1.767527000 0.735880000 -1.470976000 2.607527000 0.799847000 -1.694893000 -2.016535000
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1	-10.761738000	-1.795061000	-2.308045000	1	7.156862000	1.576552000	5,169163000
1	-10.361444000	-1.953636000	-0.595863000	1	6.553028000	-0.021023000	4,707240000
1	-10.477175000	-0.349574000	-1.325181000	1	8.182808000	0.472680000	4.237038000
6	-8 470377000	-0 654374000	-3 195388000	6	5 160926000	1 917333000	3 298162000
1	-9 087839000	-1 105571000	-3 975212000	1	4 499966000	1 110166000	3 618982000
1	-8 773409000	0.391182000	-3 098032000	1	5 150848000	2 681148000	4 080064000
1	-7 432638000	-0 683296000	-3 537574000	1	4 742774000	2 355056000	2 390064000
6	-7 268948000	-1 646960000	2 985540000	6	8 569243000	-0.530113000	-1 223911000
6	-8 728009000	-1 516920000	3 470688000	6	10 008215000	-0 421732000	-0.677680000
1	-9 427063000	-1 992281000	2 779564000	1	10 268251000	-1.307847000	-0.093575000
1	-8 846458000	-1 993099000	4 447772000	1	10.720161000	-0.335159000	-1 502842000
1	-9 012385000	-0 466106000	3 565214000	1	10 133509000	0 452276000	-0.035474000
6	-6 901056000	-3 139751000	2 852436000	6	8 500784000	-1 739625000	-2 169400000
1	-7.015996000	-3.643365000	3.815984000	1	9,213854000	-1.605746000	-2.985803000
1	-7 540574000	-3 653161000	2 131198000	1	8 759289000	-2 668440000	-1 654670000
1	-5.864411000	-3.257715000	2.528270000	1	7,508621000	-1.857870000	-2.612333000
6	-6 347586000	-1 021092000	4 043786000	6	8 229027000	0 739571000	-2 034118000
1	-6 476676000	-1 541902000	4 995181000	1	8 915113000	0 845215000	-2 878632000
1	-5 294650000	-1 103117000	3 760978000	1	7 210394000	0.688552000	-2 427382000
1	-6.579909000	0.033670000	4.210389000	1	8.310509000	1.641264000	-1.423418000
-				•			

1	1.978888000	-8.436299000	-1.076511000
6	-1.227276000	-6.356519000	-0.424522000
6	-1.022346000	-7.559209000	0.257029000
6	-0.276667000	-5.934552000	-1.358661000
6	0.136013000	-8.294528000	0.022718000
6	0.883310000	-6.664352000	-1.609899000
6	1.084332000	-7.849335000	-0.898376000
1	-1.748178000	-7.898587000	0.986450000
1	-0.452963000	-5.015309000	-1.906301000
1	0.301636000	-9.220894000	0.559972000
6	1.874264000	-6.150350000	-2.630158000
1	2.596093000	-6.932461000	-2.879612000
1	1.328013000	-5.927722000	-3.554166000
6	2.612790000	-4.877193000	-2.169359000
1	1.918156000	-4.217458000	-1.652277000
1	3.406645000	-5.133704000	-1.464020000
6	3.196483000	-4.127814000	-3.357472000
1	3.858135000	-4.764512000	-3.945035000
1	2.393210000	-3.758498000	-3.999542000
8	4.035472000	-3.002679000	-2.991635000
6	3.419228000	-1.881935000	-2.565856000
8	2.235517000	-1.819766000	-2.319444000
6	4.388968000	-0.739379000	-2.434850000
1	5.152291000	-0.790508000	-3.210145000
1	3.843543000	0.200563000	-2.492187000
1	4.881922000	-0.791693000	-1.462733000

C₅₉-Pc Acceptor N electron system

6	2.634975000	2.179368000	-0.735086000
6	2.634867000	2.186281000	0.714816000
6	3.191091000	0.947404000	1.179441000
6	3.778900000	0.156425000	-0.000552000
6	3.191245000	0.936155000	-1.188030000
6	2.651000000	0.318471000	-2.286874000
6	1.564064000	0.929366000	-3.016979000
6	1.050347000	2.160127000	-2.604787000
6	1.602620000	2.804257000	-1.438280000
6	0.513337000	3.441266000	-0.710820000
6	0.513282000	3.448059000	0.678479000
6	1.602513000	2.817842000	1.411985000
6	1.050064000	2.184661000	2.584419000
6	1.563760000	0.957854000	3.008227000
6	2.650760000	0.340073000	2.284036000
6	2.437840000	-1.114603000	2.303010000
6	2.690318000	-1.826950000	1.144703000
6	2.690422000	-1.837777000	-1.127190000
6	2.437984000	-1.136306000	-2.292073000
6	1.211146000	-1.401795000	-3.004224000
6	0.671490000	-0.124964000	-3.456755000
6	-0.703149000	0.090411000	-3.467237000
6	-1.240913000	1.370457000	-3.028797000
6	-0.382636000	2.384400000	-2.609684000
6	-0.716329000	3.178280000	-1.437739000
6	-1.895455000	2.928037000	-0.740804000
6	-1.895525000	2.934979000	0.713048000
6	-0.716571000	3.192048000	1.407771000
6	-0.382940000	2.409088000	2.587170000
6	-1.241214000	1.399067000	3.015662000
6	-0.703503000	0.123195000	3.466120000
6	0.671134000	-0.092263000	3.457721000
6	1.210818000	-1.373286000	3.017289000
6	0.331679000	-2.388337000	2.614351000
6	0.650773000	-3.166819000	1.446066000
6	1.818825000	-2.891799000	0.730698000
6	1.818909000	-2.898619000	-0.703264000
6	0.650970000	-3.180448000	-1.416157000
6	0.331975000	-2.412986000	-2.591749000
6	-1.099948000	-2.176047000	-2.590389000

6	-1.610520000	-0.955442000	-3.023979000
6	-2.696574000	-0.323562000	-2.299384000
6	-2.471082000	1.114537000	-2.306779000
6	-2.791240000	1.874724000	-1.184127000
6	-3.348977000	1.233501000	-0.005966000
6	-2.791345000	1.885813000	1.166104000
6	-2.471301000	1.136252000	2.295922000
6	-2.696808000	-0.301805000	2.302069000
6	-1.610782000	-0.926799000	3.032628000
6	-1.100190000	-2.151428000	2.610649000
6	-1.664146000	-2.805461000	1.438515000
6	-0.575320000	-3.437986000	0.712703000
6	-0.575231000	-3.444548000	-0.680347000
6	-1.664022000	-2.818978000	-1.412222000
6	-2.704023000	-2.209992000	-0.717265000
6	-3.234918000	-0.936524000	-1.171188000
6	-3.562228000	-0.142403000	0.000519000
6	-3.235091000	-0.925405000	1.179659000
6	-2.704071000	-2.203080000	0.737774000
7	3.305802000	-1.269902000	0.006218000
1	4.873053000	0.153408000	-0.000498000

C₅₉-Pc Acceptor N+1 electron system

6	2.607084000	2.239930000	-0.700554000
6	2.600779000	2.233760000	0.744002000
6	3.175486000	1.003601000	1.201787000
6	3.781805000	0.232722000	0.018595000
6	3.186681000	1.013349000	-1.163878000
6	2.662616000	0.389871000	-2.269922000
6	1.558486000	0.981112000	-2.999437000
6	1.021121000	2.199999000	-2.572618000
6	1.558744000	2.850079000	-1.408898000
6	0.445967000	3.446840000	-0.678188000
6	0.440000000	3.440708000	0.711513000
6	1.545148000	2.838522000	1.447509000
6	0.996182000	2.177688000	2.600051000
6	1.529475000	0.955254000	3.021294000
6	2.640956000	0.369931000	2.297779000
6	2.457837000	-1.083849000	2.303923000
6	2.725660000	-1.783615000	1.140193000
6	2.736522000	-1.773378000	-1.130166000
6	2.479582000	-1.064609000	-2.290362000
6	1.254400000	-1.343301000	-3.014245000
6	0.697823000	-0.083262000	-3.462625000
6	-0.697620000	0.109896000	-3.479151000
6	-1.255151000	1.365212000	-3.024025000
6	-0.421714000	2.398583000	-2.583291000
6	-0.776026000	3.176296000	-1.416747000
6	-1.962962000	2.901008000	-0.719312000
6	-1.969141000	2.894332000	0.725322000
6	-0.789749000	3.163201000	1.436271000
6	-0.446530000	2.376541000	2.599949000
6	-1.284355000	1.339578000	3.024389000
6	-0.731216000	0.080328000	3.473694000
6	0.664367000	-0.112777000	3.467832000
6	1.225252000	-1.368877000	3.013583000
6	0.371496000	-2.403820000	2.587669000
6	0.712403000	-3.170723000	1.427557000
6	1.886305000	-2.865689000	0.710416000
6	1.892265000	-2.858990000	-0.716904000
6	0.726226000	-3.157339000	-1.447656000
6	0.396418000	-2.381913000	-2.604964000
6	-1.046077000	-2.170118000	-2.605940000
6	-1.576415000	-0.953914000	-3.037512000
6	-2.687329000	-0.355142000	-2.312781000
6	-2.488912000	1.082966000	-2.305663000
6	-2.828780000	1.830353000	-1.178927000
6	-3.382789000	1.165375000	-0.010717000

6	-2.840098000	1.819889000	1.168272000
6	-2.510791000	1.063755000	2.291829000
6	-2.709164000	-0.374948000	2.284678000
6	-1.605617000	-0.979773000	3.015333000
6	-1.071075000	-2.192358000	2.578129000
6	-1.617856000	-2.848751000	1.406882000
6	-0.508152000	-3.442528000	0.679604000
6	-0.502279000	-3.436590000	-0.713501000
6	-1.604258000	-2.837300000	-1.445964000
6	-2.671691000	-2.259375000	-0.745957000
6	-3.220755000	-0.993516000	-1.193611000
6	-3.570665000	-0.214151000	-0.017520000
6	-3.231808000	-1.003010000	1.155376000
6	-2.677880000	-2.265415000	0.701644000
7	3.340200000	-1.202620000	0.010276000
1	4.877225000	0.248473000	0.023843000

C₆₀-TPA Donor N electron system

6	-3.043180000	0.727826000	-2.191742000	C
6	-3.043180000	-0.727875000	-2.191726000	
6	-3.430907000	-1.423683000	-1.049372000	6
6	-2.691458000	-2.601329000	-0.631077000	6
6	-1.596119000	-3.035544000	-1.372967000	6
6	-1.190622000	-2.307480000	-2.565083000	6
6	-1.900030000	-1.176973000	-2.962372000	6
6	-1.187706000	-0.000038000	-3.433396000	6
6	-1.900030000	1.176907000	-2.962398000	6
6	-1.190622000	2.307423000	-2.565134000	6
6	-1.596119000	3.035513000	-1.373033000	6
6	-2.691459000	2.601314000	-0.631135000	6
6	-3.430908000	1.423660000	-1.049403000	6
6	-3.829478000	0.695971000	0.143571000	6
6	-3.829478000	-0.695969000	0.143587000	6
6	-3.334513000	-1,423688000	1,299611000	6
6	-2.631663000	-2.601319000	0.821872000	6
6	-1.478962000	-3.035023000	1.471088000	6
6	-0.336110000	-3.484445000	0.695471000	6
6	-0 393404000	-3 484861000	-0 693870000	6
6	0 749725000	-3 031713000	-1 470300000	6
6	0 259984000	-2 310703000	-2 620398000	6
6	0.945836000	-1 176342000	-3 057840000	F
6	0 203147000	-0.000038000	-3 472863000	F
6	0.945836000	1 176274000	-3 057865000	6
6	0 259984000	2 310645000	-2 620448000	6
6	0 749726000	3 031681000	-1 470367000	6
6	-0.393404000	3 484845000	-0.693946000	6
6	-0.336111000	3 484461000	0 695395000	F
6	-1 478963000	3 035056000	1 471021000	F
6	-2 631664000	2 601337000	0.821815000	F
6	-3 334513000	1 423716000	1 299579000	F
6	-2 854158000	0 727839000	2 406167000	F
6	-2 854158000	-0 727786000	2 406183000	F
6	-1 651814000	-1 176889000	3 080833000	E F
6	-0.977110000	-2 307112000	2 626093000	6
6	0.472805000	-2.310448000	2.562299000	6
6	0.866845000	-3 030102000	1 374908000	6
6	1 956525000	-2 576166000	0.630588000	F
6	1 897848000	-2 578909000	-0.818929000	F
6	2 625056000	-1 435373000	-1 297773000	6
6	2 150526000	-0 739786000	-2 383910000	6
6	2 150526000	0.739732000	-2 383924000	6
6	2.625060000	1 435345000	-1 297805000	6
6	3 412026000	0 700720000	-0.158346000	6
6	2 716547000	1 429002000	1 047106000	C A
6	2 337162000	0 730000000	2 172265000	6
6	1 102000	1 176501000	2 9431/2000	6
6	1 807848000	2 578801000	_0.818087000	6
6	1 056523000	2.57617000	0.630531000	6
0	1.000020000	2.010113000	0.0000001000	0

6	0.866844000	3.030133000	1.374841000
6	0.472804000	2.310506000	2.562248000
6	-0.977111000	2.307170000	2.626042000
6	-1.651814000	1.176957000	3.080807000
6	-0.903525000	0.000039000	3.492070000
6	0.486232000	0.000038000	3.417902000
6	1.192022000	-1.176435000	2.943168000
6	2.337162000	-0.739949000	2.172281000
6	2.716551000	-1.428979000	1.047139000
6	3.412927000	-0.799732000	-0.158330000
6	4.955250000	1.142138000	-0.188141000
1	5.177864000	2.062087000	0.350732000
1	5.260407000	1.269547000	-1.230334000
6	4.955242000	-1.142137000	-0.188141000
1	5.177869000	-2.062094000	0.350715000
1	5.260389000	-1.269535000	-1.230339000
7	5.654420000	-0.000002000	0.371928000
1	5.559355000	-0.000001000	1.384134000

C₆₀-TPA Donor N-1 electron system

6	-3.045387000	0.724884000	-2.193443000
6	-3.045384000	-0.724702000	-2.193503000
6	-3.429912000	-1.420699000	-1.047311000
6	-2.684287000	-2.588531000	-0.632804000
6	-1.595591000	-3.025674000	-1.380852000
6	-1.196952000	-2.304838000	-2.578601000
6	-1.905100000	-1.175932000	-2.973369000
6	-1.195401000	0.000144000	-3.449731000
6	-1.905102000	1.176180000	-2.973272000
6	-1.196955000	2.305053000	-2.578408000
6	-1.595595000	3.025788000	-1.380599000
6	-2.684291000	2.588582000	-0.632588000
6	-3.429914000	1.420783000	-1.047193000
6	-3.829387000	0.694247000	0.147585000
6	-3.829385000	-0.694262000	0.147527000
6	-3.331171000	-1.420755000	1.304197000
6	-2.622397000	-2.588346000	0.827885000
6	-1.474515000	-3.025311000	1.481483000
6	-0.328934000	-3.454422000	0.703656000
6	-0.388356000	-3.454854000	-0.702269000
6	0.746810000	-3.019356000	-1.477055000
6	0.255283000	-2.304389000	-2.634957000
6	0.936646000	-1.174297000	-3.074801000
6	0.194800000	0.000146000	-3.494573000
6	0.936645000	1.174555000	-3.074704000
6	0.255281000	2.304609000	-2.634763000
6	0.746806000	3.019481000	-1.476803000
6	-0.388360000	3.454912000	-0.701980000
6	-0.328938000	3.454362000	0.703945000
6	-1.474518000	3.025185000	1.481735000
6	-2.622401000	2.588276000	0.828102000
6	-3.331172000	1.420643000	1.304315000
6	-2.851308000	0.724551000	2.413710000
6	-2.851308000	-0.724756000	2.413650000
6	-1.649112000	-1.176026000	3.095127000
6	-0.976568000	-2.304712000	2.641779000
6	0.474843000	-2.304204000	2.575816000
6	0.867680000	-3.018105000	1.379897000
6	1.958893000	-2.562793000	0.631066000
6	1.898454000	-2.565096000	-0.823361000
6	2.620973000	-1.429321000	-1.297227000
6	2.139721000	-0.731549000	-2.390969000
6	2.139720000	0.731751000	-2.390910000
6	2.620969000	1.429431000	-1.297108000
6	3.409114000	0.794303000	-0.160703000
6	2.714954000	1.423433000	1.041995000
6	2.331774000	0.731752000	2.176410000
6	1.190969000	1.174432000	2.958942000

6	1.898449000	2.565165000	-0.823146000
6	1.958891000	2.562742000	0.631280000
6	0.867676000	3.017991000	1.380149000
6	0.474841000	2.303989000	2.576008000
6	-0.976571000	2.304491000	2.641972000
6	-1.649113000	1.175765000	3.095225000
6	-0.902278000	-0.000147000	3.510762000
6	0.487184000	-0.000144000	3.439538000
6	1.190972000	-1.174679000	2.958845000
6	2.331778000	-0.731932000	2.176352000
6	2.714953000	-1.423517000	1.041876000
6	3.409112000	-0.794286000	-0.160766000
6	4.964029000	1.144805000	-0.191196000
1	5.186012000	2.060507000	0.353715000
1	5.257757000	1.281633000	-1.234674000
6	4.964035000	-1.144788000	-0.191269000
1	5.186008000	-2.060520000	0.353595000
1	5.257770000	-1.281558000	-1.234752000
7	5.652451000	-0.000008000	0.355465000
1	5.625750000	-0.000041000	1.370319000

C₆₀-TPA Acceptor N electron system

6	-3.888678000	-0.015548000	0.007695000
6	-3.163751000	-0.895077000	-0.801436000
6	-1.774436000	-0.887391000	-0.818095000
1	-1.231522000	-1.572091000	-1.457539000
1	-3.695392000	-1.592296000	-1.440688000
6	-3.166597000	0.867271000	0.816090000
1	-3.700776000	1.553882000	1.464733000
6	-1.777415000	0.872323000	0.823920000
1	-1.236559000	1.555453000	1.466784000
6	-1.063702000	-0.003717000	-0.000090000
7	0.354821000	0.000412000	-0.001783000
6	1.062004000	-1.225561000	0.001130000
6	2.220891000	-1.380611000	-0.769955000
6	2.913649000	-2.585580000	-0.758382000
6	2.456761000	-3.659439000	0.003287000
6	1.298310000	-3.510034000	0.763211000
6	0.608608000	-2.303240000	0.772131000
1	-0.285615000	-2.186794000	1.371025000
1	0.933998000	-4.334406000	1.365629000
1	2.995478000	-4.599269000	0.004173000
1	3.808988000	-2.689114000	-1.360765000
1	2.572090000	-0.552094000	-1.371668000
6	1.054502000	1.230552000	-0.003653000
6	2.214943000	1.390849000	0.764159000
1	2.573278000	0.563003000	1.362555000
6	2.900080000	2.600137000	0.753625000
1	3.796684000	2.707647000	1.353428000
6	2.434094000	3.673217000	-0.003655000
1	2.966966000	4.616372000	-0.003705000
6	1.274203000	3.518582000	-0.760270000
1	0.902814000	4.342243000	-1.359334000
6	0.592006000	2.307522000	-0.770258000
1	-0.303241000	2.187108000	-1.366808000
6	-5.395934000	0.000909000	-0.011829000
1	-5.801835000	-0.984449000	-0.251509000
1	-5.802765000	0.308518000	0.954289000
1	-5.773572000	0.702406000	-0.763872000

C₆₀-TPA Acceptor N+1 electron system

6	-3.871605000	0.075758000	-0.026444000
6	-3.147886000	-0.720331000	-0.954391000
6	-1.750306000	-0.714755000	-0.943704000
1	-1.187826000	-1.310772000	-1.653872000
1	-3.682327000	-1.317700000	-1.686327000
6	-3.160214000	0.828445000	0.894440000
1	-3.705635000	1.425513000	1.621903000
6	-1.753415000	0.824148000	0.930801000
1	-1.207178000	1.393393000	1.670829000
6	-1.046719000	0.048797000	-0.016964000
7	0.372114000	0.027212000	-0.002794000
6	1.011317000	-1.234534000	0.023142000
6	2.066320000	-1.515059000	-0.878901000
6	2.683667000	-2.774839000	-0.838379000
6	2.262166000	-3.751602000	0.050493000
6	1.190035000	-3.478687000	0.929878000
6	0.582637000	-2.221471000	0.910410000
1	-0.237945000	-1.989730000	1.579889000
1	0.846103000	-4.234312000	1.627772000
1	2.745767000	-4.723429000	0.063981000
1	3.492637000	-2.990511000	-1.531242000
1	2.372732000	-0.760148000	-1.590379000
6	1.109895000	1.219608000	-0.001306000
6	2.420890000	1.250549000	0.505043000
1	2.849201000	0.345522000	0.912804000
6	3.154887000	2.443575000	0.485950000
1	4.170557000	2.446511000	0.869424000
6	2.589500000	3.619444000	-0.004971000
1	3.159564000	4.543368000	-0.007498000
6	1.282086000	3.595731000	-0.491349000
1	0.826700000	4.503993000	-0.873634000
6	0.545946000	2.404580000	-0.504027000
1	-0.458123000	2.378616000	-0.904130000
6	-5.377340000	0.079034000	-0.051666000
1	-5.787318000	-0.927406000	0.110184000
1	-5.786945000	0.734453000	0.722078000
1	-5.765936000	0.421818000	-1.020544000

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