

Supporting Information

The Origin of Different Driving Force between O-H/N-H Functional Groups in Metal Ligand Cooperation: Mechanistic Insight into the Mn(I) Catalysed Transfer Hydrogenation

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Table of Contents

1. The Comparison of Free Energy Barriers Using Different Functionals.....	2
2. The Absolute Energies Data of All Optimized Structures.....	3
3. The Free Energy Profile of the Outer-Sphere Proton Transfer Mechanism in the Mn-N System.....	7
4. The bifunctional hydrogen transfer Mechanism catalyzed by the double deprotonated species via O-site in the Mn-O system.	8
5. The inner-sphere proton transfer Mechanism catalyzed by the double deprotonated species via O-site in the Mn-O system.	9
6. The free energy of the decomposition of catalyst.....	10
7. The structure parameters of different metal hydride complexes.	11
8. The Cartesian coordinates (xyz) for all optimized structures are presented.....	12

1. The Comparison of Free Energy Barriers Using Different Functionals

Table S1. The comparison of energy barrier using different functionals (kcal/mol)

Functionals	N-1-TS2	O-1-TS1
M06-L/def2-TZVP//M06-L/def2-SVP	12.8	24.4
B3LYP/def2-TZVP//B3LYP/def2-SVP	22.1	32.6
M06/def2-TZVP//M06/def2-SVP	15.1	25.0
ω B97XD/def2-TZVP// ω B97XD/def2-SVP	14.3	26.0
TPSS/def2-TZVP//TPSS/def2-SVP	16.9	26.8
TPSSh/def2-TZVP//TPSSh/def2-SVP	17.9	28.0

In order to select appropriate functional for our calculation, we compare a series of functionals which are widely used in the computational studies relevant to catalytic hydrogenation and dehydrogenation reaction. The results are shown in Table S1. The relative reaction activation energy calculated by different functionals is basically the same trend. Based on these results, we chose M06-L as the functional considering the computational expense and accuracy.

2. The Absolute Energies Data of All Optimized Structures

Table S2. The absolute energies of all optimized structures

Species	Zero _c (BSI)	H _c (BSI)	G _c (BSI)	E ₀ (BSI)	H (BSI)	G (BSI)	SP+SOL (BSII)	SP (BSII)	Sol G Kcal/mol	Final Free energy
tBuOH	0.135767	0.143325	0.106937	-233.332	-233.324	-233.361	-233.736	-233.727	-6.1	-233.63
iPrOH	0.108337	0.114616	0.081096	-194.075	-194.069	-194.102	-194.41	-194.401	-5.77	-194.329
tBuO	0.119361	0.126691	0.090746	-232.719	-232.711	-232.747	-233.213	-233.109	-65.38	-233.123
N-0-0	0.164932	0.180286	0.122649	-1832.91	-1832.89	-1832.95	-1834.08	-1833.99	-57.43	-1833.96
N-0-1	0.289773	0.312065	0.240495	-2065.89	-2065.87	-2065.94	-2067.37	-2067.35	-10.52	-2067.12
N-TS1pre-PS	0.39489	0.422737	0.339456	-2259.99	-2259.96	-2260.04	-2261.77	-2261.76	-7.71	-2261.43
N-TS1pre	0.284577	0.306416	0.235582	-2065.89	-2065.87	-2065.94	-2067.35	-2067.34	-5.44	-2067.11
N-1-1	0.150673	0.165635	0.108643	-1832.53	-1832.52	-1832.58	-1833.6	-1833.6	-2.75	-1833.5
N-2-0	0.272938	0.295258	0.22339	-2065.33	-2065.31	-2065.38	-2066.84	-2066.77	-43.1	-2066.62
N-TS2pre-PS	0.378691	0.406843	0.322993	-2259.41	-2259.39	-2259.47	-2261.23	-2261.17	-37.87	-2260.91
N-TS2pre	0.268598	0.290511	0.219713	-2065.31	-2065.28	-2065.35	-2066.81	-2066.74	-39.51	-2066.59
N-2-1	0.137095	0.151896	0.094999	-1832	-1831.99	-1832.04	-1833.11	-1833.05	-38.04	-1833.02
O-0-0	0.150882	0.166509	0.1078	-1852.75	-1852.73	-1852.79	-1853.93	-1853.84	-56.49	-1853.83
O-0-1	0.275402	0.29758	0.22587	-2085.75	-2085.73	-2085.8	-2087.23	-2087.22	-6.71	-2087
O-TS1pre-PS	0.381216	0.408694	0.326404	-2279.85	-2279.82	-2279.9	-2281.65	-2281.64	-7.79	-2281.32
O-TS1pre	0.272346	0.294126	0.223349	-2085.75	-2085.73	-2085.8	-2087.23	-2087.22	-5.96	-2087.01

O-1-1	0.137739	0.152695	0.095539	-1852.4	-1852.38	-1852.44	-1853.48	-1853.48	-3.54	-1853.39
O-2-0	0.261349	0.283229	0.212654	-2085.21	-2085.19	-2085.26	-2086.74	-2086.67	-44.99	-2086.53
O-TS2pre-PS	0.366594	0.394465	0.310932	-2279.29	-2279.26	-2279.35	-2281.13	-2281.06	-40.27	-2280.82
O-TS2pre	0.256892	0.278481	0.208531	-2085.18	-2085.16	-2085.23	-2086.7	-2086.63	-40.34	-2086.49
O-2-1C	0.124217	0.138946	0.082083	-1851.87	-1851.85	-1851.91	-1852.99	-1852.93	-36.3	-1852.91
ACP	0.138092	0.146742	0.105623	-384.431	-384.422	-384.463	-384.993	-384.982	-7.01	-384.888
acetone	0.083443	0.089826	0.055023	-192.903	-192.896	-192.931	-193.212	-193.203	-5.53	-193.157
PEA	0.161453	0.170675	0.128341	-385.601	-385.591	-385.634	-386.188	-386.176	-7.66	-386.06
N-1-1	0.150674	0.165636	0.108644	-1832.53	-1832.52	-1832.58	-1833.6	-1833.6	-2.75	-1833.5
N-1-TS1o-PS	0.365769	0.39271	0.309648	-2220.7	-2220.68	-2220.76	-2222.43	-2222.41	-10.88	-2222.12
N-1-TS1o	0.25501	0.275678	0.206496	-2026.62	-2026.6	-2026.67	-2028.01	-2028	-8.7	-2027.81
N-1-2	0.25821	0.279236	0.209354	-2026.62	-2026.59	-2026.66	-2028.02	-2028	-10.15	-2027.81
N-1-TS2	0.256467	0.277365	0.207648	-2026.61	-2026.59	-2026.66	-2028.01	-2028	-8.79	-2027.8
N-1-3	0.171176	0.18668	0.129089	-1833.7	-1833.68	-1833.74	-1834.8	-1834.79	-10	-1834.67
N-1-TS3	0.309575	0.33361	0.255988	-2218.14	-2218.12	-2218.2	-2219.79	-2219.78	-11.26	-2219.54
N-1-4	0.312242	0.336036	0.260526	-2218.15	-2218.13	-2218.2	-2219.8	-2219.78	-10.98	-2219.54
N-1-TS4-PS	0.419629	0.4495	0.359613	-2412.23	-2412.2	-2412.29	-2414.2	-2414.18	-12.51	-2413.84
N-1-TS4	0.308603	0.332167	0.256676	-2218.15	-2218.13	-2218.2	-2219.8	-2219.78	-9.33	-2219.54
N-1-2I	0.260508	0.281705	0.21089	-2026.63	-2026.61	-2026.68	-2028.02	-2028.01	-4.25	-2027.81
N-1-TS1I-PS	0.367041	0.393517	0.312588	-2220.73	-2220.7	-2220.78	-2222.45	-2222.44	-7.89	-2222.14
N-1-TS1I	0.256891	0.277607	0.208366	-2026.63	-2026.61	-2026.68	-2028.02	-2028.01	-5.25	-2027.81
N-1-2I	0.262049	0.283103	0.213743	-2026.64	-2026.61	-2026.68	-2028.04	-2028.02	-10.58	-2027.83
N-1-2	0.258214	0.279239	0.209362	-2026.62	-2026.59	-2026.66	-2028.02	-2028	-10.15	-2027.81
N-1-TS2	0.256463	0.277363	0.207643	-2026.61	-2026.59	-2026.66	-2028.01	-2028	-8.79	-2027.8

N-1-4I	0.3158	0.339748	0.264101	-2218.17	-2218.15	-2218.22	-2219.82	-2219.81	-11.4	-2219.56
N-1-TS4I-PS	0.420222	0.449664	0.361887	-2412.26	-2412.23	-2412.32	-2414.23	-2414.21	-10.5	-2413.87
N-1-TS4I	0.310087	0.333957	0.253821	-2218.16	-2218.13	-2218.21	-2219.8	-2219.79	-7.08	-2219.55
O-1-1	0.137739	0.152695	0.095539	-1852.4	-1852.38	-1852.44	-1853.48	-1853.48	-3.54	-1853.39
O-1-TS1-PS	0.352815	0.379531	0.297145	-2240.58	-2240.55	-2240.63	-2242.31	-2242.3	-8.52	-2242.01
O-1-TS1	0.24276	0.263535	0.194186	-2046.47	-2046.45	-2046.51	-2047.9	-2047.86	-6.31	-2047.68
O-1-2	0.157361	0.173011	0.11507	-1853.54	-1853.53	-1853.59	-1854.66	-1854.64	-8.61	-1854.54
O-1-TS2-PS	0.404013	0.43391	0.342973	-2432.09	-2432.06	-2432.15	-2434.08	-2434.06	-13.27	-2433.73
O-1-TS2	0.296746	0.32031	0.24491	-2238	-2237.98	-2238.05	-2239.66	-2239.65	-7.78	-2239.41
O-2-TS1	0.227387	0.248453	0.178712	-2045.91	-2045.89	-2045.96	-2047.35	-2047.29	-36.54	-2047.17
O-2-3	0.141885	0.157886	0.09897	-1852.99	-1852.97	-1853.03	-1854.13	-1854.07	-37.69	-1854.04
O-2-TS4	0.280229	0.304294	0.227362	-2237.45	-2237.42	-2237.5	-2239.14	-2239.08	-38	-2238.91
O-2-TS1C	0.227821	0.248564	0.178286	-2045.91	-2045.89	-2045.96	-2047.37	-2047.3	-44.68	-2047.19
O-2-TS1C-PS	0.337936	0.364956	0.280932	-2240.03	-2240	-2240.09	-2241.81	-2241.74	-42.94	-2241.53
O-2-TS4C	0.283801	0.307209	0.231868	-2237.45	-2237.43	-2237.5	-2239.17	-2239.09	-48.19	-2238.93
O-2-TS4C-PS	0.391095	0.421356	0.329242	-2431.56	-2431.53	-2431.62	-2433.59	-2433.52	-43.3	-2433.26
O-2-TS1I	0.228768	0.249339	0.180291	-2045.93	-2045.91	-2045.98	-2047.37	-2047.3	-44.68	-2047.19
O-2-TS1I-PS	0.338593	0.365459	0.282906	-2240.03	-2240.01	-2240.09	-2241.8	-2241.74	-40.38	-2241.52
O-2-2I	0.23376	0.254336	0.186277	-2045.95	-2045.93	-2046	-2047.42	-2047.34	-45.65	-2047.23
O-2-3I	0.229767	0.250872	0.180793	-2045.92	-2045.9	-2045.97	-2047.39	-2047.31	-48.86	-2047.21
O-2-TS2I	0.22762	0.248417	0.178861	-2045.92	-2045.9	-2045.97	-2047.38	-2047.31	-47.01	-2047.21
O-2-3	0.142468	0.157717	0.100213	-1853.02	-1853	-1853.06	-1854.18	-1854.1	-45.39	-1854.08
O-2-TS3I	0.280508	0.304459	0.227591	-2237.46	-2237.43	-2237.51	-2239.17	-2239.09	-46.75	-2238.94
O-2-4I	0.284244	0.308436	0.230647	-2237.46	-2237.44	-2237.52	-2239.17	-2239.1	-45.89	-2238.94

O-2-5I	0.287152	0.310695	0.235301	-2237.48	-2237.46	-2237.54	-2239.2	-2239.12	-47.07	-2238.96
O-2-TS4I	0.281949	0.30568	0.227343	-2237.46	-2237.43	-2237.51	-2239.15	-2239.09	-41.39	-2238.93
O-2-TS4I-PS	0.392637	0.422113	0.333544	-2431.56	-2431.53	-2431.62	-2433.58	-2433.51	-41.74	-2433.25
N-1-2intra	0.149204	0.164051	0.107596	-1832.497	-1832.482	-1832.539	-1833.57	-1833.563	-4.36	-1833.462
N-1-TS1intra	0.144913	0.159832	0.10302	-1832.484	-1832.469	-1832.526	-1833.554	-1833.545	-5.76	-1833.451
N-1-3intra	0.146359	0.161422	0.104641	-1832.519	-1832.504	-1832.561	-1833.588	-1833.58	-4.75	-1833.483
O-1-2intra	0.136264	0.151231	0.094253	-1852.372	-1852.357	-1852.414	-1853.459	-1853.451	-4.42	-1853.364
O-1-TS1intra	0.13188	0.146758	0.089993	-1852.348	-1852.333	-1852.39	-1853.431	-1853.424	-4.47	-1853.341
O-1-3intra	0.132876	0.148035	0.091033	-1852.373	-1852.357	-1852.414	-1853.454	-1853.449	-3.36	-1853.363
O-1-2dis	0.156355	0.172534	0.112893	-1853.523	-1853.506	-1853.566	-1854.634	-1854.623	-7.15	-1854.521
N-1-2dis	0.169095	0.185376	0.125607	-1833.668	-1833.652	-1833.712	-1834.764	-1834.754	-6.13	-1834.638
N-1-1dimer	0.30572	0.334841	0.253342	-3665.134	-3665.105	-3665.192	-3667.3	-3667.255	-5.15	-3667.01
O-1-1dimer	0.279213	0.30853	0.225867	-3704.865	-3704.836	-3704.924	-3707.0	-3707.017	-4.22	-3706.798

- The E_{0C} , H_C and G_C designate the thermal correction to Energy, Enthalpy and Gibbs Free Energy.
- The E , H and G designate the Electronic Energy with ZPE correction, Enthalpy and Gibbs Free Energy in gas phase, respectively.
- **SP** designates the single point energy at M06-L/def2-TZVP level. **Sol G** designates the solvation free energy calculated by SMD continuum solvent mode. The **SP + Sol G** designates the sum of single point energy at M06-L/def2-TZVP level and the solvation free energy.

3. The Free Energy Profile of the Outer-Sphere Proton Transfer Mechanism in the Mn-N System.

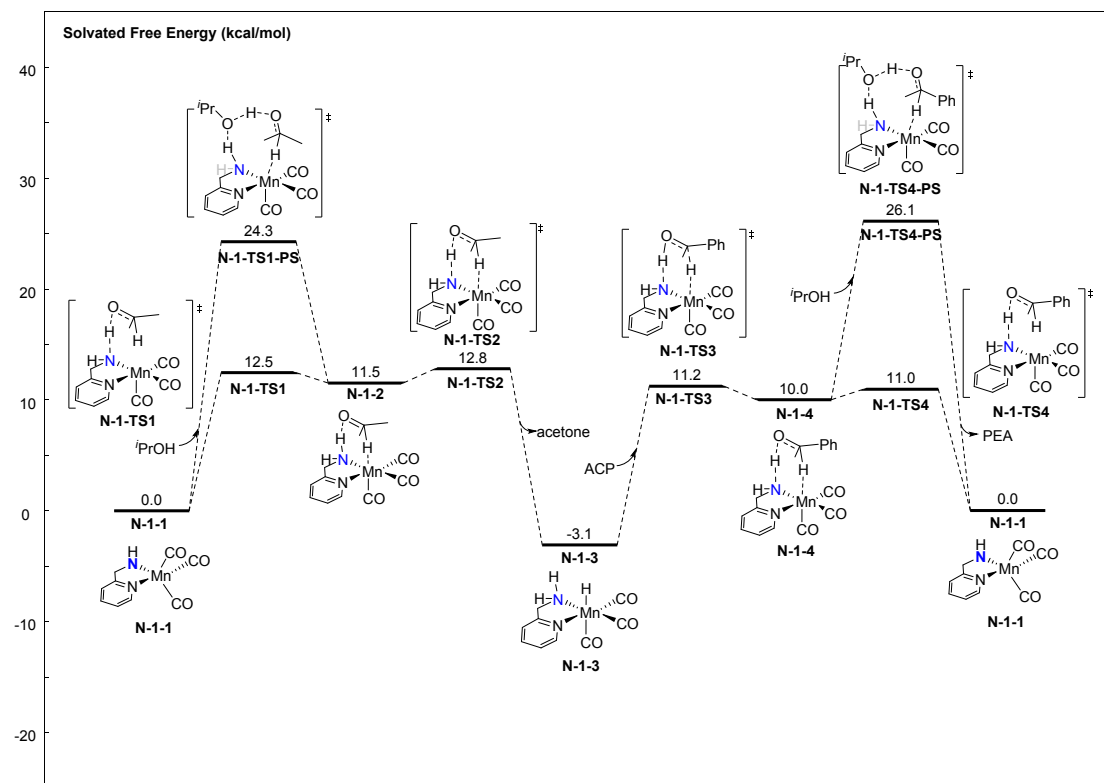


Fig. S1 The inner-sphere mechanism via ligand dissociation. Free energy results are reported in kcal/mol.

As for the outer-sphere proton transfer mechanisms, the calculation results show that the activation free energy barrier of the outer-sphere proton transfer process **N-1-TS1** is 12.5 kcal/mol and the proton-shuttle mechanism **N-1-TS1-PS** via the 8-member ring is 24.3 kcal/mol, which is higher than the inner-sphere mechanism (**N-1-TS1**; $\Delta G^\ddagger = 7.1$ kcal/mol). In the subsequent substrate hydrogenation process, the free energy change of proton transfer via **N-1-TS4** is 11.0 kcal/mol and the proton-shuttle mechanism **N-1-TS4-PS** via the 8-member ring is 26.1 kcal/mol, which is higher than the inner-sphere mechanism (**N-1-TS4**; $\Delta G^\ddagger = 6.5$ kcal/mol). Therefore, the outer-sphere proton transfer is ruled out.

4. The bifunctional hydrogen transfer Mechanism catalyzed by the double deprotonated species via O-site in the Mn-O system.

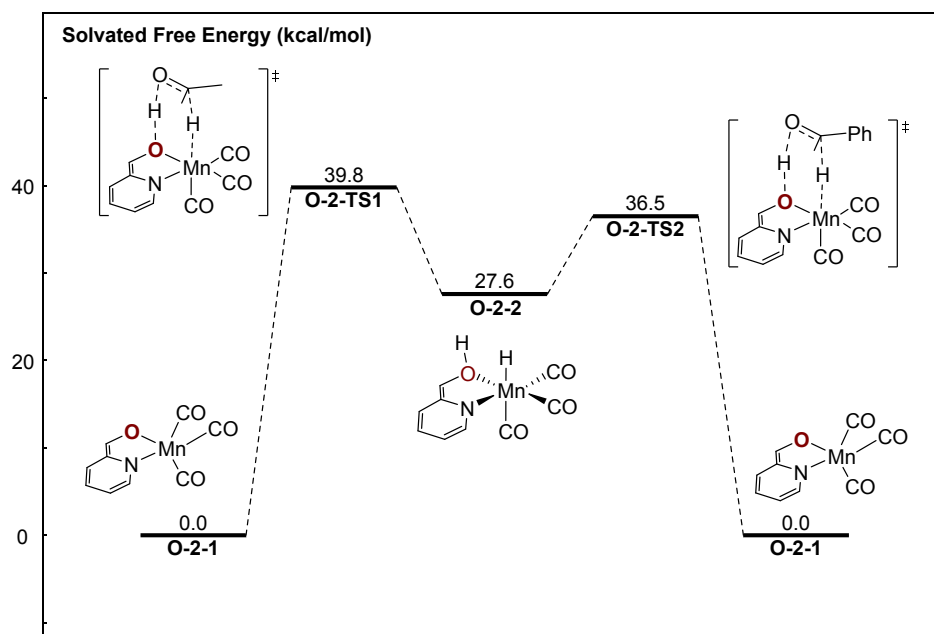


Fig. S2 The bifunctional hydrogen transfer Mechanism catalyzed by the double deprotonated species.

The transfer hydrogenation reaction catalyzed by the double deprotonated complex O-2-1C via the concerted hydrogen transfer mode at O-site is depicted in Fig. S2. The dehydrogenation of i PrOH is found to be rate-determining step with an activation free energy of 39.8 kcal/mol. The generation of metal hydride O-2-2 is endothermic ($\Delta G = 27.6$ kcal/mol). Further hydrogenation of acetophenone requires the activation energy of 8.9 kcal/mol. After the hydrogenation process, the catalyst is regenerated.

5. The inner-sphere proton transfer Mechanism catalyzed by the double deprotonated species via O-site in the Mn-O system.

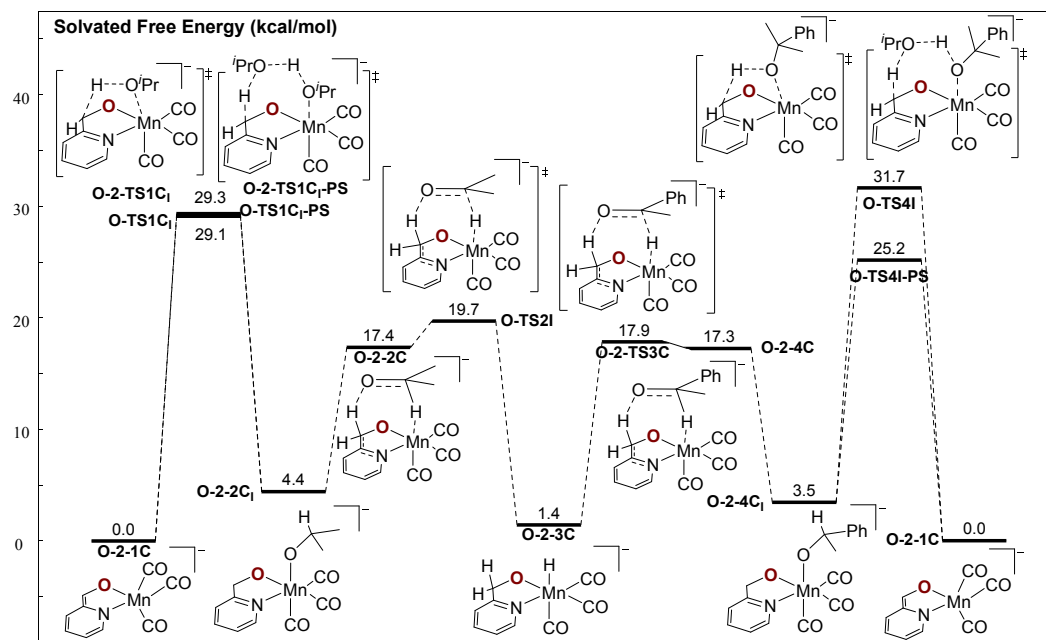


Fig. S3 The bifunctional hydrogen transfer Mechanism catalyzed by the double deprotonated species.

The transfer hydrogenation reaction catalyzed by the double deprotonated complex O-2-1C via the inner-sphere proton transfer mechanism at C-site is depicted in Fig. S2. The rate-determining step is located to be the proton transfer of the dehydrogenation of *i*PrOH ($\Delta G^\ddagger = 29.1$ kcal/mol), which is higher than the outer-sphere proton transfer mechanism ($\Delta G^\ddagger = 24.3$ kcal/mol). Therefore, the inner-sphere mechanism can be ruled out.

6. The free energy of the decomposition of catalyst.

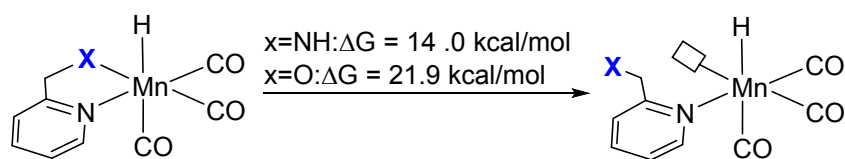


Fig. S4 The free energy change of the dissociation of the catalyst.

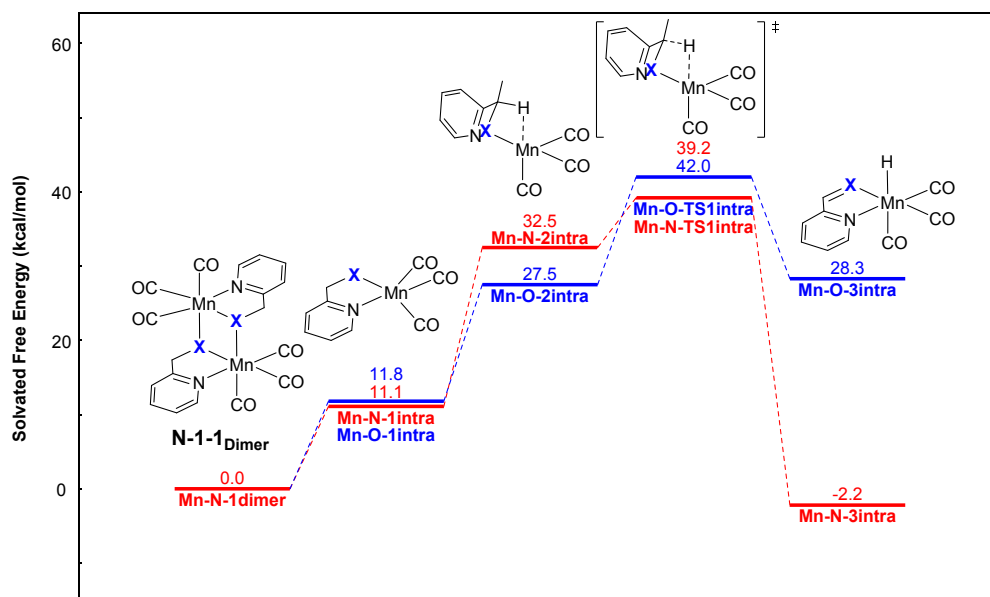


Fig. S5 The free energy profile of intermolecular dehydrogenation .

7. The structure parameters of different metal hydride complexes.

Table S3. The structure parameters of metal hydride complexes.

Metals	$\angle \text{Cr-N-H}$	$\angle \text{Cr-O-H}$	$\text{Cr-H}_\text{N}(\text{\AA})$	$\text{Cr-H}_\text{O}(\text{\AA})$
Cr	104.5°	64.3°	1.71499	1.78411
Mo	103.4°	66.4°	1.88138	1.95089
W	105.0°	70.1°	1.88944	1.94746
Mn	107.1°	97.5°	1.61325	1.61942
Tc	106.3°	97.6°	1.74060	1.74459
Re	106.7°	100.1°	1.77421	1.77836
Fe	107.6°	109.9°	1.52737	1.52614
Ru	104.5°	111.3°	1.66498	1.62578
Os	107.8°	112.3°	1.67392	1.67072
Co	108.0°	115.9°	1.46700	1.46536
Rh	108.0°	118.1°	1.55934	1.55497
Ir	108.0°	119.0°	1.59819	1.59246

The bond angle $\angle \text{Mn-X-H}$ increases along with the increasing oxidation state. The bond length of M-H bond length decreases along with the increasing oxidation state. This is caused by the reduced electronegativity of metal hydride, which further weaken the interaction between the metal hydride and the functional group. For the metal centers in the same group, the bond angle $\angle \text{Mn-X-H}$ does not change much.

8. The Cartesian coordinates (xyz) for all optimized structures are presented

tBuOH				1	-2.03655800	0.76779000	-0.05341500
6	0.68318100	-1.25359300	-0.50823200	6	-0.36876400	-1.40131400	-0.43642000
1	0.65027900	-1.31058700	-1.60606800	1	-0.38993400	-1.46488300	-1.54552100
1	0.20462500	-2.15600400	-0.10335300	1	0.35347500	-2.14679500	-0.06066600
1	1.74375500	-1.27367300	-0.21261100	1	-1.36080000	-1.69784100	-0.05358000
6	-0.00676700	-0.00000000	0.01649800	6	1.39701800	0.38283600	-0.43828000
6	0.68342400	1.25344600	-0.50826400	1	1.68297200	1.37891600	-0.05792900
1	0.65053100	1.31042100	-1.60610100	1	2.15010700	-0.33062100	-0.06101600
1	0.20505200	2.15596400	-0.10340600	1	1.45989400	0.40190900	-1.54746600
1	1.74400400	1.27332400	-0.21264800	8	0.00338500	-0.00132800	1.47766100
6	-1.47895600	0.00013700	-0.35172000				
1	-1.97835600	-0.88683900	0.06115800				
1	-1.97817200	0.88724700	0.06109100				
1	-1.61718500	0.00011100	-1.44143200				
8	0.01838100	0.00001800	1.44468900				
1	0.94312400	-0.00004300	1.71616100				

N-0-1				1	2.08765700	-2.28672000	3.35317400
25	-0.33214900	-0.83213700	-0.12840800	6	2.87920200	-2.54153500	1.34573900
7	0.15538500	-0.05456600	-2.08684000	1	3.83099300	-2.96986300	1.66745000
1	0.50775200	-0.74766000	-2.74605200	7	0.46695600	-1.44323600	0.52542000
7	1.61307700	-0.03256600	0.16129600	6	0.99567500	-1.53376700	-1.80594900
8	0.85189900	-3.49301300	-0.70784200	6	1.39355300	-1.79349600	-0.38875000
8	-2.98365200	-1.89318600	-0.87298500	6	2.61627400	-2.34387600	-0.00475800
8	-0.75333000	-1.46191100	2.72169100	1	3.35349700	-2.59971600	-0.76845800
6	1.09779100	1.05594800	-1.93259000	6	-2.61230200	0.22438500	-1.16395100
1	0.50975000	1.94716700	-1.67308000	8	-3.48347300	0.69445200	-1.76361600
1	1.65450600	1.27520200	-2.85882100	1	1.89898800	-1.41994100	-2.43398200
6	2.04074500	0.80611900	-0.79665100	1	0.88535600	0.58076200	-1.52132500
6	3.28508800	1.43314700	-0.71050900	8	-0.39879400	1.15003600	0.58173300
1	3.60994200	2.09939400	-1.51264200	6	-0.93201900	2.48604200	0.75536400
6	4.09118900	1.19893700	0.39772300	6	2.96402600	1.20604600	-0.79358400
1	5.06650600	1.68255000	0.48481100	8	1.59904400	1.44697500	-0.93601000
6	3.63528200	0.33220700	1.38818700	1	0.50729500	1.27040800	0.12196200
1	4.23167700	0.11389400	2.27481100	1	0.47833900	-2.43715300	-2.18786300
6	2.39219700	-0.26590700	1.22350800	6	-2.26766100	-0.79970700	1.22168500
1	1.99726600	-0.95916300	1.97127700	6	-1.82656500	-2.15874400	-0.92166200
6	0.39233500	-2.45159000	-0.47764000	8	-2.89047800	-0.96840100	2.18217100
6	-1.95592300	-1.44664400	-0.57403400	8	-2.18053200	-3.17774900	-1.34571700
6	-0.60985000	-1.22650400	1.59731300	1	-0.05003000	-1.28850900	2.52491700
1	-0.72499300	0.29629600	-2.46008100	25	-1.27130900	-0.58781000	-0.27617800
6	-1.97708700	1.73067200	0.31293300	1	3.23204300	0.21206200	-1.23310100
6	-2.78888800	1.10156100	1.44626300	6	-2.26089200	2.37451500	1.47576600
1	-2.19082300	1.06602400	2.36864200	1	-2.65478800	3.37516200	1.70258500
1	-3.70879400	1.66733200	1.66122100	1	-3.01913500	1.85969900	0.86865500
1	-3.08982300	0.07148800	1.20226700	1	-2.15410200	1.83129600	2.42547700
6	-2.81575000	1.74885100	-0.97259300	6	0.07986300	3.24022600	1.60902600
1	-3.74912600	2.32370500	-0.86315300	1	1.04045100	3.31522200	1.07979800
1	-2.24336600	2.21165600	-1.79415600	1	-0.26856000	4.25936900	1.82866500
1	-3.10183100	0.73192200	-1.28108200	1	0.24956200	2.72004800	2.56259600
6	-1.63071000	3.17397900	0.69492300	6	-1.07742700	3.16097900	-0.60121600
1	-1.02254100	3.18556600	1.61041400	1	-0.11472800	3.14667800	-1.13102200
1	-1.03823800	3.64847300	-0.10232700	1	-1.82593200	2.65813100	-1.22805000
1	-2.52660100	3.79086900	0.86563400	1	-1.39899200	4.20621300	-0.48495700
8	-0.76432900	1.08110700	0.10417900	6	3.35543800	1.15731000	0.67702200
				1	2.73429600	0.43182200	1.22564000
				1	4.41060300	0.87649900	0.82046600
N-TS1pre-PS				1	3.20551500	2.13994400	1.15141800
6	0.72743800	-1.61382300	1.82892800	6	3.76956900	2.25452500	-1.54473000
6	1.91858900	-2.16529300	2.28260800	1	4.85408500	2.07959000	-1.47456000

1	3.49297800	2.26974100	-2.60787200	1	2.53597700	-1.80975000	-2.16021800
1	3.55907200	3.25508400	-1.13645300				
7	0.13405800	-0.36138500	-1.81814500				
1	-0.26151800	-0.24345900	-2.74934600	N-1-1			
				25	-0.97672800	-0.16001000	0.00012300
				7	-0.38256700	-1.92175600	0.00014500
				1	-0.95780000	-2.75991400	0.00042200
N-TS1pre				7	1.07791800	0.12846200	0.00002100
25	0.26115900	0.85838600	0.00973600	8	-1.37255400	1.80484800	2.16889500
7	-1.58625200	-0.13198600	0.23959000	8	-3.80178300	-1.02445800	0.00079000
8	-1.15195400	3.42306400	-0.34859200	8	-1.37316200	1.80283900	-2.17024200
8	2.81064600	2.17367200	-0.69459200	6	1.00767200	-2.25436000	0.00007800
8	0.73805100	1.17800300	2.91891000	1	1.30892100	-2.86811800	-0.87578900
6	-1.50326200	-0.04830000	-2.16247000	1	1.30895300	-2.86860200	0.87587800
1	-1.71569500	-0.78595500	-2.96159700	6	1.81191800	-1.00221500	0.00017300
1	-1.98055900	0.89405700	-2.50871700	6	3.20802400	-0.96547300	0.00018200
6	-2.20338700	-0.46888700	-0.90964900	1	3.76921300	-1.90248400	0.00032600
6	-3.42248500	-1.14987900	-0.90517700	6	3.85684500	0.26133800	0.00003200
1	-3.89287300	-1.41336900	-1.85484100	1	4.94753900	0.31265700	0.00007700
6	-4.01334100	-1.48512500	0.30590100	6	3.08914900	1.42808000	-0.00014900
1	-4.96621800	-2.01850400	0.32920800	1	3.55388000	2.41482900	-0.00032100
6	-3.36149400	-1.14125700	1.48910800	6	1.70892800	1.31745700	-0.00014600
1	-3.77970400	-1.39215500	2.46474300	1	1.06790500	2.20281500	-0.00030800
6	-2.15065700	-0.46800000	1.40866400	6	-1.24670400	1.05735600	1.29050300
1	-1.60450000	-0.18488300	2.31175500	6	-2.70011900	-0.67233300	0.00047700
6	-0.58795400	2.42417500	-0.18453600	6	-1.24702500	1.05619800	-1.29116100
6	1.82256500	1.63858400	-0.41166000				
6	0.55929500	1.06618400	1.77959200				
6	2.19315900	-1.72508200	-0.01195800				
6	1.97248400	-3.22958700	0.11804000	N-2-0			
1	1.35883300	-3.45158800	1.00193500	25	0.69902400	0.81792300	-0.06135100
1	1.44325000	-3.62019400	-0.76296700	7	-0.04278300	1.16062200	-1.97233500
1	2.92357900	-3.77446800	0.21191900	1	0.67831200	0.87970700	-2.63651000
8	0.90340100	-1.13189300	-0.12653700	7	-1.36091800	0.48544500	0.19983200
1	0.51231400	-0.84699600	-1.20661100	8	0.49516800	3.74797900	0.30533200
6	2.87876800	-1.18960500	1.23597700	8	3.51199700	0.85205600	-0.95772700
1	3.83155500	-1.70700600	1.42186300	8	1.39965100	0.43196200	2.79289400
1	3.09857600	-0.11559400	1.14526600	6	-1.16801100	0.30743600	-2.18878100
1	2.23908300	-1.32927800	2.11923400	1	-0.91531300	-0.74790100	-2.44505300
7	-0.09923200	0.11520800	-1.88561700	1	-1.85038700	0.64561600	-3.01116300
1	0.38231600	0.53422300	-2.67742000	6	-1.99262400	0.19197100	-0.95416800
6	3.02848000	-1.42618800	-1.25380700	6	-3.33516800	-0.20887900	-0.94643600
1	3.18966400	-0.34687400	-1.38474600	1	-3.82630900	-0.43107300	-1.89768000
1	4.01963000	-1.89882600	-1.19168100	6	-4.01810500	-0.32147100	0.25707300

1	-5.06296600	-0.64420900	0.27563700	1	1.64334300	0.48176500	-1.41517300
6	-3.34787100	-0.00908100	1.44276200	1	0.08366200	-1.93955200	2.31594300
1	-3.83944100	-0.07962500	2.41498400	6	-2.05704400	-0.82720200	1.40954400
6	-2.02171700	0.39435600	1.35902200	6	-1.86416600	-2.35127300	-0.69273800
1	-1.44734400	0.64340400	2.25757500	8	-2.53030600	-0.88597600	2.47537500
6	0.57686500	2.59347900	0.17109500	8	-2.20663200	-3.41394500	-1.02702200
6	2.40855100	0.86286000	-0.58780400	6	-0.03664400	3.50117100	1.20566200
6	1.13085200	0.55200200	1.65805100	1	0.91379500	3.54384300	0.65456000
6	-0.11644900	-2.50594500	1.15035100	1	-0.44286200	4.52320800	1.26916600
1	-1.15385000	-2.44700800	0.78133500	1	0.17144000	3.15025000	2.22754300
1	0.01294600	-3.48408700	1.64675500	6	-2.30471700	2.47192800	1.29573600
1	0.00975500	-1.72894100	1.91926400	1	-2.74537700	3.47276600	1.42364000
6	0.86544700	-2.29470600	-0.01775200	1	-3.05058600	1.83948700	0.79590400
6	2.30551200	-2.37156800	0.51498200	1	-2.11909500	2.04595500	2.29237600
1	2.52846500	-3.33365700	1.00927400	6	-1.25553700	3.04245900	-0.92297000
1	3.01792100	-2.23762700	-0.31369200	1	-1.99173900	2.41103600	-1.43860800
1	2.49355300	-1.56967700	1.24395100	1	-1.63176100	4.07825900	-0.93294200
8	0.62145800	-1.12763400	-0.69640000	1	-0.31156400	3.00367800	-1.48604700
6	0.65875500	-3.44181200	-1.02227000	6	4.15780300	1.45068000	-1.10844500
1	0.83482700	-4.43939600	-0.58322000	1	5.12647900	1.70202300	-0.64616800
1	-0.37119600	-3.41240800	-1.41232000	1	4.12602300	0.35604600	-1.23705300
1	1.33892600	-3.31042500	-1.87736700	1	4.12256400	1.90486000	-2.10974800
N-TS2pre-PS				6	3.01001600	1.28279900	1.12039100
8	-3.74711000	0.42346700	-1.46008500	1	3.91823500	1.56169900	1.68066300
7	0.54267500	-1.44330900	0.35892700	1	2.13428900	1.58677400	1.71255600
6	1.11926600	-0.68124400	-1.79356600	1	2.98605900	0.18395500	1.05128200
6	1.48704800	-1.44570700	-0.64674900	1	3.10218800	3.02038000	-0.12088900
6	2.73977200	-2.07270000	-0.43852800	25	-1.32212400	-0.74080700	-0.24123900
1	3.45702800	-2.09343200	-1.26418300	7	-0.25997900	-0.41527600	-1.85097700
6	3.03824900	-2.64426000	0.77761400	1	-0.55276800	0.07003000	-2.69089300
1	4.00101900	-3.13818800	0.93767700	N-TS2pre			
6	2.07785300	-2.58647300	1.81662700	25	0.27457100	0.94835200	-0.11265700
1	2.27354000	-3.00812400	2.80387900	7	-0.06308800	0.23969800	-1.99722100
6	0.86260300	-1.98766400	1.54763800	1	0.82777200	-0.00625100	-2.43577600
6	-2.78407800	-0.00590500	-0.95841900	7	-1.65707200	0.10875800	0.11417400
1	1.64220000	-0.95535100	-2.72919700	8	-0.82270000	3.59426200	-0.78391400
6	2.97194300	1.91827400	-0.26917100	8	2.98328200	1.87092800	-0.82529400
8	1.77107500	1.70474200	-0.92498600	8	0.64541700	1.49245100	2.78831700
1	0.43385000	1.35608600	-0.03544200	6	-0.79697300	-0.97359500	-1.77204500
6	-1.01069700	2.55600900	0.50357000	1	0.00367400	-1.44176300	-0.74819500
8	-0.42774700	1.25264500	0.47913000	1	-0.97525400	-1.63805200	-2.63719200

6	-1.88712900	-0.82428200	-0.87415900	1	3.58347900	2.36755700	0.00011800
6	-3.08126700	-1.59230500	-0.83887700	6	1.73359700	1.28558900	-0.00000200
1	-3.26840300	-2.31171900	-1.64096500	1	1.11046700	2.18698000	0.00003000
6	-3.98747400	-1.41264200	0.18210100	6	-1.24015000	1.03283300	1.31944600
1	-4.91491000	-1.99457300	0.20173400	6	-2.64903100	-0.70851900	-0.00039300
6	-3.72493900	-0.46003500	1.19203700	6	-1.24012000	1.03400100	-1.31871700
1	-4.41237600	-0.29443000	2.02286300	1	1.40222500	-3.21773400	-0.00025800
6	-2.54500400	0.26625800	1.09632700				
1	-2.28852900	1.01739100	1.85331000				
6	-0.38085400	2.55378500	-0.50709000	O-0-0			
6	1.92084400	1.48154700	-0.53206500	25	-0.95786200	0.06525300	-0.22228800
6	0.47711000	1.30429700	1.64953100	7	1.08712400	-0.20582400	-0.13989600
6	2.81306700	-1.21571300	1.37026800	8	-1.61268800	-2.78058300	-0.67603600
1	2.29814500	-1.23989300	2.34182800	8	-3.79038800	0.85093800	-0.69776800
1	3.76902000	-1.75566300	1.46899000	8	-1.38473400	-0.20829100	2.66482600
1	3.03857200	-0.16438300	1.14124200	6	1.11701700	2.21194400	-0.08072400
6	1.92687100	-1.82741800	0.28938900	1	1.14702900	2.65362600	0.93044400
6	2.63946300	-1.77562800	-1.06643300	1	1.56842000	2.93594700	-0.77596700
1	3.57262300	-2.36281100	-1.05798900	6	1.84756400	0.91094300	-0.10436900
1	1.99287000	-2.18663500	-1.85743900	6	3.23796000	0.85673600	-0.05792700
1	2.89836100	-0.74402800	-1.34227400	1	3.81727700	1.78174400	-0.03920200
8	0.70626800	-1.14191400	0.26226200	6	3.86597200	-0.38313500	-0.03568000
6	1.61904200	-3.28708300	0.63971900	1	4.95457300	-0.44988500	0.00183800
1	2.53025000	-3.90323100	0.71233000	6	3.08234200	-1.53557700	-0.06640800
1	1.08394100	-3.33818800	1.59883200	1	3.52999300	-2.52962000	-0.05167100
1	0.96640800	-3.73270400	-0.12672800	6	1.70444200	-1.40625500	-0.11982500
				1	1.06334200	-2.28922200	-0.14807400
				6	-1.36976100	-1.67376400	-0.49089000
N-2-1				6	-2.70264400	0.54140500	-0.51288300
25	-0.96559400	-0.12830300	-0.00012700	6	-1.24455000	-0.11395700	1.52869400
7	-0.33594200	-1.94682500	-0.00033900	8	-0.23691400	1.95107400	-0.45845000
1	-0.90743500	-2.78741500	-0.00032100	1	-0.77620700	2.75169500	-0.40140500
7	1.05415300	0.11953500	-0.00009900				
8	-1.40966000	1.79989300	2.19004600				
8	-3.73543800	-1.14929900	-0.00053500	O-0-1			
8	-1.40963000	1.80184900	-2.18862700	25	-0.33652500	-0.84204300	-0.01007400
6	0.99397000	-2.20079800	-0.00022600	7	1.57745100	0.03476200	0.24372000
6	1.79836400	-1.06685600	-0.00013300	8	0.90246700	-3.52100700	-0.28987700
6	3.22146200	-1.01874800	-0.00008000	8	-2.97442600	-1.98030900	-0.71203100
1	3.77281800	-1.96430000	-0.00011000	8	-0.84181800	-1.16727000	2.86804600
6	3.87680200	0.18575800	0.00000500	6	1.51874300	-0.02329300	-2.16380700
1	4.97005800	0.22636900	0.00004100	1	1.73691000	0.70527500	-2.96376100
6	3.10820400	1.38467600	0.00004700	1	1.92150500	-0.99119400	-2.51123800

6	2.21005300	0.37503000	-0.89226000	1	1.85231300	-1.32285900	-2.50085900
6	3.43830200	1.03593100	-0.87575600	1	0.73512800	0.45727700	-1.66260600
1	3.92059700	1.30343100	-1.81851700	8	-0.34442600	1.13605600	0.48202800
6	4.02367200	1.34916600	0.34513500	6	-0.90670500	2.43397900	0.73768600
1	4.98422400	1.86746400	0.38285800	6	2.86326700	1.27459400	-0.77829600
6	3.35513800	1.00396200	1.51768100	8	1.49362500	1.43506100	-1.03045800
1	3.76798600	1.23949000	2.49937400	1	0.62862500	1.30720300	-0.12082900
6	2.13316300	0.35097500	1.42025000	1	0.45474700	-2.37765000	-2.25472300
1	1.57272300	0.06955300	2.31530200	6	-2.20098600	-0.80281800	1.23923700
6	0.41444800	-2.47811300	-0.16829400	6	-1.81523900	-2.17226700	-0.87614100
6	-1.95279800	-1.51285300	-0.44172900	8	-2.78192100	-0.98665300	2.22335400
6	-0.66361200	-1.05568700	1.72850600	8	-2.19056200	-3.19877200	-1.25730400
6	-2.01022600	1.80569400	-0.00268400	1	0.03979200	-1.31460800	2.50871800
6	-2.73626800	1.32749000	1.24982400	25	-1.24688800	-0.57940300	-0.25959500
1	-2.07592600	1.38980100	2.12734800	1	3.22092400	0.31902100	-1.23503300
1	-3.63154800	1.93280400	1.45718800	8	0.10545800	-0.39336700	-1.87544400
1	-3.06534800	0.28219400	1.14813700	6	-2.18668300	2.28696700	1.54120800
6	-2.90734100	1.63247100	-1.22838600	1	-2.56843200	3.27343500	1.84123300
1	-3.84263800	2.20633200	-1.14076200	1	-2.98505800	1.79830500	0.96429800
1	-2.39110800	1.97709500	-2.13779100	1	-2.01453300	1.70107000	2.45540800
1	-3.18331200	0.57901500	-1.37858400	6	0.13002400	3.20099200	1.55444800
6	-1.63674900	3.27999100	0.15572900	1	1.04975600	3.34279600	0.96921200
1	-0.98515100	3.41552000	1.03063500	1	-0.24294000	4.19464200	1.84134800
1	-1.08416400	3.63082700	-0.72807300	1	0.38718000	2.65021600	2.47089500
1	-2.52242700	3.92116200	0.28027500	6	-1.16348900	3.16565900	-0.57565300
8	-0.79946300	1.10624600	-0.17708100	1	-0.23953800	3.22131800	-1.16753800
8	0.13751000	-0.17972200	-1.97923400	1	-1.92673200	2.66078600	-1.18258000
1	-0.26466400	0.67088500	-1.56042200	1	-1.52017700	4.19019900	-0.39323100
O-TS1pre-PS				6	3.15369300	1.18910900	0.71204900
				1	2.53132600	0.42346700	1.19855700
				1	4.20846600	0.94286600	0.90644100
				1	2.93873600	2.14560500	1.21202800
6	0.80107000	-1.62954000	1.79034700	6	3.64055800	2.40256500	-1.43308400
6	2.00500600	-2.18402900	2.20729900	1	4.72684100	2.28830800	-1.30074000
1	2.20028700	-2.32030300	3.27160700	1	3.42814800	2.44745900	-2.50964500
6	2.94490200	-2.54219500	1.24318700	1	3.34348600	3.36903800	-0.99786900
1	3.90538300	-2.97175700	1.53621400	O-TS1pre			
7	0.51002200	-1.44469700	0.49645700				
6	0.97729200	-1.49137700	-1.84931100				
6	1.41618200	-1.77550000	-0.44216900				
6	2.65010300	-2.32471500	-0.09851400	25	0.31078400	0.85774300	-0.03368800
1	3.37048700	-2.56575100	-0.88322700	7	-1.58908800	-0.02874700	0.23267000
6	-2.62917800	0.21664200	-1.11568700	8	-0.96598200	3.49221600	-0.47280100
8	-3.53230900	0.66385800	-1.67868000	8	2.94046300	2.01011300	-0.75022600

8	0.77216900	1.30788600	2.83992600	6	1.79707900	-0.99838300	0.00002500
6	-1.41897000	-0.17802900	-2.16440400	6	3.19411500	-0.97732300	0.00006700
1	-1.57872000	-0.98769900	-2.89977100	1	3.74526800	-1.92043800	0.00006400
1	-1.85643900	0.73123700	-2.61944200	6	3.85467100	0.24270500	0.00007900
6	-2.16260200	-0.48246400	-0.89615800	1	4.94601000	0.28319200	0.00010000
6	-3.38002400	-1.16357400	-0.87196800	6	3.10093400	1.41968400	0.00002500
1	-3.81242800	-1.52690900	-1.80677200	1	3.57804300	2.40044300	0.00001100
6	-4.01806700	-1.37259300	0.34459800	6	1.71992700	1.32539700	0.00000000
1	-4.97055500	-1.90534100	0.38699600	1	1.08852600	2.21776300	0.00004000
6	-3.41516700	-0.90023200	1.50901800	6	-1.25909900	1.04897800	1.26415900
1	-3.87324000	-1.04613900	2.48798200	6	-2.69947900	-0.71170600	0.00021900
6	-2.19957500	-0.23725900	1.40692000	6	-1.25929400	1.04855800	-1.26457500
1	-1.68798400	0.14035900	2.29600300	8	-0.38456200	-1.94109700	-0.00002100
6	-0.46099800	2.46756800	-0.28841400				
6	1.92368800	1.53660700	-0.47312000				
6	0.60722800	1.15172800	1.70386300	O-2-0			
6	2.05093600	-1.79213500	0.07545300	25	0.77340300	0.76070400	-0.06564100
6	1.71175100	-3.26808600	0.27492100	7	-1.31985100	0.61531400	0.22721500
1	1.06108000	-3.39507800	1.15148200	8	0.85907400	3.69339500	0.35811800
1	1.17297900	-3.65945900	-0.60017200	8	3.57412300	0.50747300	-0.96495200
1	2.61335200	-3.88155300	0.42116600	8	1.44154300	0.29096800	2.77096200
8	0.81752300	-1.12039800	-0.11270400	6	-1.09551500	0.55222000	-2.16936700
1	0.38437100	-0.78536800	-1.34184900	1	-1.00953700	-0.47689400	-2.60973300
6	2.75065700	-1.25189400	1.31543600	1	-1.73374100	1.10763700	-2.90992900
1	3.65790000	-1.82768200	1.55126500	6	-1.94544400	0.37495900	-0.93880700
1	3.05404300	-0.20302900	1.17899100	6	-3.29601300	0.00552900	-0.95635800
1	2.08259400	-1.29957000	2.18787700	1	-3.78109400	-0.18618300	-1.91801600
6	2.94019100	-1.62567000	-1.15433300	6	-3.99715300	-0.10666900	0.23726900
1	3.18598400	-0.56993500	-1.33555200	1	-5.05264500	-0.39472800	0.23860800
1	3.89062500	-2.16948600	-1.04592000	6	-3.33292800	0.16033900	1.43727500
1	2.43756300	-2.01166200	-2.05413100	1	-3.83917100	0.08471800	2.40161100
8	-0.06184700	0.04157900	-1.93363600	6	-1.99123300	0.51758700	1.37764200
				1	-1.41588500	0.71773900	2.28823100
				6	0.83079800	2.54136500	0.19074300
				6	2.47875400	0.63259900	-0.60165700
O-1-1				6	1.19617000	0.44719400	1.63541300
25	-0.96188400	-0.17324800	0.00004800	8	0.07031100	1.17421000	-1.92337300
7	1.07926100	0.14174200	0.00003500	6	0.29441900	-3.43156600	-1.06679500
8	-1.39075600	1.80996300	2.12918300	1	0.95646800	-3.34082200	-1.94086000
8	-3.80183800	-1.04460900	0.00058900	1	0.39178300	-4.45096100	-0.65478300
8	-1.39113400	1.80921700	-2.12985000	1	-0.73954500	-3.29643300	-1.42197500
6	0.95299500	-2.23133800	-0.00005100	6	0.63315200	-2.33441000	-0.04389900
1	1.23474800	-2.85457100	-0.87706800	6	-0.31230100	-2.49628200	1.16083000
1	1.23490100	-2.85460400	0.87650100				

1	-0.22561900	-3.48579000	1.64340300	6	-1.33996000	2.97967800	-0.96981000
1	-0.10492400	-1.73590600	1.92891800	1	-2.03064000	2.29796100	-1.48280000
1	-1.35744500	-2.36635800	0.83499000	1	-1.76533800	3.99507000	-1.01486800
6	2.08460700	-2.53372400	0.42223400	1	-0.38726800	2.96699500	-1.51813200
1	2.77101700	-2.38083500	-0.42462600	6	4.12749900	1.52635100	-1.07294600
1	2.35484800	-1.80420300	1.20079200	1	5.09413900	1.77753100	-0.60617500
1	2.26299600	-3.54152600	0.83639000	1	4.10106600	0.43297300	-1.21219400
8	0.44775900	-1.13468500	-0.68446000	1	4.09184700	1.98971300	-2.06980900
O-TS2pre-PS				6	2.97512800	1.33253700	1.15170600
8	-3.79761200	0.26544500	-1.41885300	1	3.88379300	1.60368600	1.71507800
7	0.57744800	-1.43107400	0.37396500	1	2.10040400	1.63213600	1.74780900
6	1.05671900	-0.59777400	-1.77018900	1	2.95009200	0.23433800	1.07166400
6	1.48251800	-1.39144300	-0.66301700	1	3.06764800	3.08250400	-0.07064600
6	2.75935200	-1.99013400	-0.50062900	25	-1.28607000	-0.75206100	-0.22518200
1	3.45294900	-1.98136500	-1.34618300	8	-0.27311300	-0.32859000	-1.84076400
6	3.09972000	-2.58107100	0.69393100	O-TS2pre			
1	4.07726300	-3.05723900	0.81648400	25	-0.29568500	-0.92488000	-0.11902200
6	2.16994700	-2.57537100	1.76052100	7	1.65869000	-0.12942500	0.12302300
1	2.40293800	-3.02014300	2.72910200	8	0.81504600	-3.54290400	-0.87889000
6	0.93339800	-1.99697700	1.53858600	8	-3.01243300	-1.87589900	-0.77193900
6	-2.79882700	-0.09757000	-0.94527200	8	-0.57535200	-1.57961000	2.75919100
1	1.54403000	-0.83971000	-2.73686000	6	0.76170500	0.94842900	-1.74149500
6	2.93839900	1.98199400	-0.23183900	1	0.02419400	1.45477700	-0.68856300
8	1.73974900	1.77544900	-0.89257700	1	0.90413000	1.59689000	-2.62618900
1	0.40675400	1.39609900	-0.00926600	6	1.88224100	0.79370700	-0.87424300
6	-1.09824100	2.54783300	0.47260100	6	3.06555300	1.57946000	-0.83985900
8	-0.45691100	1.26893900	0.49644700	1	3.24120600	2.30350900	-1.64081100
1	1.59704900	0.55770000	-1.39157100	6	3.98085800	1.40008100	0.17250300
1	0.17146300	-1.98567700	2.32542100	1	4.90705400	1.98454600	0.18522500
6	-2.03119300	-0.90109500	1.40809800	6	3.73286000	0.44235200	1.18257800
6	-1.74814500	-2.38423100	-0.71085800	1	4.42801200	0.28033700	2.00763200
8	-2.47879700	-0.99813800	2.48093900	6	2.55302900	-0.28532700	1.09908400
8	-2.03812600	-3.45963900	-1.04754000	1	2.30107600	-1.03183700	1.86237400
6	-0.16930600	3.54666400	1.16065400	6	0.36521800	-2.51452300	-0.57398600
1	0.78622800	3.60471800	0.62031800	6	-1.95237800	-1.46881300	-0.51007600
1	-0.61302000	4.55426800	1.18558500	6	-0.46588800	-1.35080800	1.62093700
1	0.03537300	3.23507900	2.19584700	8	-0.03562700	-0.14479400	-1.92544400
6	-2.39502500	2.42699300	1.25492000	6	-2.55923500	1.78048800	-1.09686000
1	-2.86931600	3.41331200	1.37246900	1	-2.74725800	0.74579600	-1.41018000
1	-3.11823800	1.76924400	0.75457100	1	-3.51504200	2.32978400	-1.11547400
1	-2.20305000	2.01379900	2.25599600	1	-1.89316400	2.22621900	-1.85009500

6	-1.91339200	1.83087600	0.28924100	1	-0.16148800	2.11261000	-0.00030400
6	-1.61678100	3.28777100	0.65929600	1	0.05298200	-2.18131600	0.00023800
1	-2.52794000	3.90760900	0.68049400	1	2.56022100	-2.05101800	0.00029900
1	-1.13640700	3.33748200	1.64725500	1	3.67541000	0.17459900	0.00002100
1	-0.92109700	3.73012400	-0.07002200	6	-1.69818600	-0.20402800	-0.00003900
6	-2.84439900	1.21959100	1.33246300	6	-2.53466800	1.04739700	0.00028400
1	-3.10830800	0.18536000	1.07084500	1	-2.32093400	1.66883100	0.88179700
1	-2.35028200	1.19908700	2.31522000	1	-2.32102200	1.66918600	-0.88099600
1	-3.78200800	1.79159500	1.42482200	1	-3.59602100	0.77994500	0.00033500
8	-0.68903700	1.14408300	0.31762700	8	-2.21192800	-1.30653600	-0.00033300

O-2-1C

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25	-0.94211000	-0.13643700	-0.05402600	6	0.00000100	0.18802300	0.00001100
7	1.04623400	0.14569000	-0.07116500	6	1.27680900	-0.61193100	0.00283500
8	-1.50038800	1.20723800	2.49761200	1	1.26909100	-1.37597900	0.79356300
8	-3.72015800	-1.11581200	-0.39935300	1	1.38082800	-1.15656900	-0.94776700
8	-1.42144100	2.27175000	-1.68190200	1	2.14355700	0.04548500	0.13055800
6	0.97000200	-2.16539200	-0.09819900	6	-1.27674700	-0.61203300	-0.00284100
6	1.78813700	-1.04623700	-0.06720500	1	-2.14356500	0.04533200	-0.13029000
6	3.21328800	-1.00599900	-0.03140500	1	-1.26907100	-1.37592000	-0.79371900
1	3.75828500	-1.95511200	-0.02532300	1	-1.38056300	-1.15689200	0.94766200
6	3.87194100	0.19366900	-0.00436800	8	-0.00008200	1.39877400	-0.00000500
1	4.96485800	0.23178500	0.02132900				
6	3.10586900	1.39846500	-0.00695000				
1	3.58652900	2.37842200	0.01517100				
6	1.73261000	1.30945700	-0.03528500	6	-2.28879800	0.69639700	1.01761500
1	1.11643300	2.21525400	-0.03483800	1	-3.37592300	0.79996700	0.90301700
6	-1.28414700	0.66404000	1.48236800	1	-1.87941100	1.65264400	1.36845000
6	-2.62876600	-0.72459100	-0.26224200	1	-2.09739100	-0.06241200	1.78938700
6	-1.25393700	1.30760200	-1.03647800	6	-1.65766900	0.27771800	-0.29417200
8	-0.31393300	-1.97187800	-0.12465200	1	-1.85197900	1.07619000	-1.04229700
1	1.36037000	-3.19573400	-0.10258700	8	-2.29304300	-0.92316200	-0.68189000

PEA

6	-2.28879800	0.69639700	1.01761500
1	-3.37592300	0.79996700	0.90301700
1	-1.87941100	1.65264400	1.36845000
1	-2.09739100	-0.06241200	1.78938700
6	-1.65766900	0.27771800	-0.29417200
1	-1.85197900	1.07619000	-1.04229700
8	-2.29304300	-0.92316200	-0.68189000
1	-1.88413500	-1.21899300	-1.50319900
6	-0.15683600	0.12317500	-0.16946800
6	0.69203100	1.21680700	-0.37041800
6	0.40350000	-1.10825100	0.18605400
6	2.07078300	1.08653100	-0.21673200
1	0.26332100	2.18332700	-0.65582100
6	1.78290500	-1.24195100	0.33766000
1	-0.25970000	-1.96376500	0.34006500
6	2.62057900	-0.14540500	0.13760200
1	2.72118600	1.94917300	-0.38132900

ACP

6	1.81779600	1.27417700	-0.00014100
6	0.42752700	1.19232500	-0.00014800
6	-0.21106000	-0.05592400	-0.00001100
6	0.57180100	-1.21984800	0.00013200
6	1.95867000	-1.13900700	0.00016400
6	2.58472700	0.10962200	0.00001800
1	2.30663200	2.25116500	-0.00027800

1	2.20757100	-2.21030200	0.61455200	1	1.56858900	1.80979000	-0.12938400
1	3.70183300	-0.25066900	0.25344700	6	-2.60999600	1.15255600	-1.05944300
				8	-3.25964200	1.97441200	-1.54504800
				8	0.89367300	2.65833200	0.14197100
N-1-1				1	1.47674800	-1.28812800	-2.48593800
25	-0.97672800	-0.16001000	0.00012300	6	3.40737400	0.56813500	-0.73106600
7	-0.38256700	-1.92175600	0.00014500	8	2.04078400	0.64716200	-0.53401300
1	-0.95780000	-2.75991400	0.00042200	1	0.63616900	0.59817400	-1.52716200
7	1.07791800	0.12846200	0.00002100	1	3.66656600	-0.46841800	-1.07327700
8	-1.37255400	1.80484800	2.16889500	1	-0.68138800	-1.43917600	2.39883200
8	-3.80178300	-1.02445800	0.00079000	1	-0.11438200	-2.07903900	-2.38491000
8	-1.37316200	1.80283900	-2.17024200	6	-2.52781200	-0.11250700	1.21185600
6	1.00767200	-2.25436000	0.00007800	6	-2.52584700	-1.45294500	-1.03798800
1	1.30892100	-2.86811800	-0.87578900	8	-3.10899900	-0.08252100	2.21217600
1	1.30895300	-2.86860200	0.87587800	8	-3.14520900	-2.31358500	-1.50155500
6	1.81191800	-1.00221500	0.00017300	6	0.49819300	1.50521200	2.21704000
6	3.20802400	-0.96547300	0.00018200	1	0.98781900	2.27225300	2.83550300
1	3.76921300	-1.90248400	0.00032600	1	-0.29648300	1.03596100	2.81750200
6	3.85684500	0.26133800	0.00003200	1	1.25321300	0.75205000	1.95284200
1	4.94753900	0.31265700	0.00007700	6	-1.15504000	3.15473100	1.21565400
6	3.08914900	1.42808000	-0.00014900	1	-1.54078700	3.56200100	0.27218900
1	3.55388000	2.41482900	-0.00032100	1	-1.98722800	2.71479900	1.78408500
6	1.70892800	1.31745700	-0.00014600	1	-0.75016200	3.99644600	1.79561500
1	1.06790500	2.20281500	-0.00030800	6	4.15882200	0.79932000	0.57476700
6	-1.24670400	1.05735600	1.29050300	1	5.25052500	0.71579700	0.45925600
6	-2.70011900	-0.67233300	0.00047700	1	3.93641100	1.80528500	0.96650900
6	-1.24702500	1.05619800	-1.29116100	1	3.83863000	0.07076000	1.33515300
				6	3.87691400	1.52637200	-1.82014600
				1	4.95711500	1.44888200	-2.01844500
N-1-TS1-PS				1	3.34547200	1.33194800	-2.76423800
6	0.08248900	-1.76753500	1.68988600	1	3.66050300	2.56746500	-1.53192400
6	1.15881000	-2.53415500	2.11006100	1	-0.46224400	0.23931800	-2.75621100
1	1.24947900	-2.80800000	3.16164700	25	-1.56840600	-0.12290600	-0.31345600
6	2.09915700	-2.94252100	1.16399600				
1	2.95785400	-3.54905400	1.45943000				
7	-0.08204600	-1.38768100	0.41230700	N-1-TS1			
6	0.54400200	-1.33539900	-1.90029100	25	-0.88295400	-0.57313000	0.01947500
6	0.83541700	-1.76700400	-0.50251500	7	-0.30897500	0.01381200	-1.84951400
6	1.92780800	-2.56349100	-0.15907900	1	-0.93876400	-0.18886600	-2.62337800
1	2.64375600	-2.85370200	-0.92981700	7	1.18570600	-0.53089400	0.21628200
7	-0.13646000	-0.04398900	-1.83422800	8	-1.06297100	-3.46793700	-0.49841100
6	-0.04406900	2.15924900	0.95523600	8	-3.74166800	-0.08118900	-0.56404700
1	-0.57867000	1.24842700	0.39651300	8	-1.38497700	-0.77766900	2.93200900

6	1.03582500	-0.43121500	-2.17260300	6	3.91789300	-0.34262400	0.26355800
1	1.50282200	0.17126900	-2.97164600	1	5.00455000	-0.23806200	0.28015600
1	1.03349600	-1.47733900	-2.53415000	6	3.19859400	-0.49350500	1.44835600
6	1.86797000	-0.37014500	-0.93726900	1	3.69515100	-0.51431000	2.41910000
6	3.25408200	-0.21021700	-0.94813900	6	1.81815200	-0.60502600	1.38038400
1	3.76833800	-0.06654300	-1.90011300	1	1.21881400	-0.70394700	2.28857000
6	3.95270100	-0.23047900	0.25162300	6	-1.13907200	-2.30120500	-0.24660800
1	5.03718400	-0.10412000	0.26402100	6	-2.64657800	-0.14265400	-0.31945400
6	3.24321300	-0.40992500	1.43869000	6	-1.23884500	-0.60837000	1.79068000
1	3.74570700	-0.43173400	2.40634500	1	-0.59634600	1.20142800	0.24645600
6	1.86543100	-0.55178700	1.37601900	1	-0.20180500	1.02323500	-1.85505100
1	1.27350400	-0.67930700	2.28556600	6	-0.19034600	2.34982900	-0.07209600
6	-0.99983100	-2.33077700	-0.28699300	6	-1.52147400	3.10368700	-0.03707200
6	-2.62983200	-0.29074700	-0.32643700	1	-1.32800300	4.17563500	-0.19275100
6	-1.19736700	-0.70960600	1.79028800	1	-2.17740200	2.76631600	-0.85147500
6	-0.37490900	2.34982000	-0.02282600	1	-2.05778700	2.98223400	0.91627300
1	-0.65643100	1.22377800	0.30965900	6	0.69573000	2.66044500	1.13287400
6	0.60353500	2.76017600	1.07187600	1	1.64188300	2.10627000	1.06400900
1	0.81015800	3.83737800	0.98532900	1	0.94835600	3.73148400	1.12017500
1	0.21669300	2.56763800	2.08464300	1	0.21157400	2.43568600	2.09604900
1	1.56240500	2.23742700	0.94713700	8	0.41504500	2.31798000	-1.21774600
6	-1.72691100	3.04925400	0.10126300				
1	-1.59566900	4.12590000	-0.08225200				
1	-2.42689600	2.66923400	-0.65540200	N-1-TS2			
1	-2.18406600	2.92051100	1.09428300	25	-0.94111100	-0.55033300	0.03447900
8	0.14263100	2.35323200	-1.23919700	7	-0.32971800	-0.04934900	-1.91412500
1	-0.19929500	1.18500400	-1.72008700	1	-0.96972400	-0.31464100	-2.65914700
				7	1.12866500	-0.60660900	0.22091000
				8	-1.32580500	-3.45679400	-0.46890400
N-1-2				8	-3.72738900	0.25469900	-0.51698100
25	-0.92174700	-0.53696000	0.02269300	8	-1.42008400	-0.65575100	2.94140500
7	-0.31755900	-0.04088100	-1.90221200	6	1.00268100	-0.58204200	-2.17437000
1	-0.95173200	-0.27763600	-2.66215300	1	1.51223500	-0.07362900	-3.00973200
7	1.14430000	-0.58654200	0.21738000	1	0.91593900	-1.64742000	-2.45343000
8	-1.27888300	-3.43873500	-0.41587700	6	1.82251100	-0.49114400	-0.92974700
8	-3.74213700	0.14554700	-0.55328400	6	3.21081900	-0.36647600	-0.94184500
8	-1.42336900	-0.62050900	2.93504400	1	3.73068100	-0.25558400	-1.89524100
6	1.01946400	-0.55117900	-2.17711700	6	3.90693000	-0.38165200	0.26069300
1	1.51574900	-0.01606900	-3.00373900	1	4.99431500	-0.28466300	0.27427800
1	0.96073100	-1.61397900	-2.47416900	6	3.18783800	-0.52027600	1.44635400
6	1.83734900	-0.45699500	-0.93320200	1	3.68573900	-0.54006700	2.41663600
6	3.22583000	-0.32446700	-0.94010300	6	1.80549200	-0.62238700	1.38164300
1	3.74733300	-0.20420000	-1.89124600	1	1.20675900	-0.71189500	2.29132300

6	-1.16155000	-2.32368000	-0.28545900				
6	-2.64762700	-0.10114100	-0.29247900		N-1-TS3		
6	-1.24980000	-0.64767300	1.79306900	25	-0.49780600	1.15814100	-0.04680100
1	-0.69401500	1.08650400	0.31010700	7	-0.52629700	0.19678300	-1.91427900
1	-0.23936700	0.98894200	-1.90596500	1	-0.17383800	0.74244100	-2.69738000
6	-0.10022800	2.49238400	-0.09695200	7	-2.10467200	-0.14378600	0.17863700
6	-1.45998000	3.16642300	-0.12401600	8	-2.11910900	3.55144600	-0.74726800
1	-1.30407700	4.24699900	-0.27320600	8	2.12246300	2.40180400	-0.62166100
1	-2.06227100	2.80266600	-0.96644900	8	-0.23333100	1.70795600	2.83511200
1	-2.02907100	3.02774500	0.80497800	6	-1.86353500	-0.30772100	-2.20270900
6	0.68987500	2.68357600	1.18203900	1	-1.86776100	-1.10083400	-2.96864200
1	1.61466500	2.09341900	1.15307600	1	-2.48267200	0.51860800	-2.59513200
1	0.98340900	3.74370500	1.24854500	6	-2.48614500	-0.79877300	-0.93757500
1	0.11873900	2.43562600	2.08747800	6	-3.43902300	-1.81503600	-0.90488100
8	0.52695600	2.34745100	-1.17380900	1	-3.70081800	-2.33462200	-1.82850100
				6	-4.03490300	-2.15226800	0.30423600
				1	-4.78138000	-2.94750200	0.35332400
N-1-3				6	-3.65643700	-1.45714100	1.45113600
25	-0.97484400	0.03242700	-0.19384000	1	-4.09545200	-1.68036800	2.42432700
7	-0.26689000	-1.91706200	-0.71994200	6	-2.68715400	-0.46976700	1.34525500
1	-0.93033700	-2.65920000	-0.50897300	1	-2.35078400	0.08077000	2.22718500
7	1.09152800	0.25679900	-0.11513500	6	-1.49367200	2.60761400	-0.49655900
8	-1.38949500	-0.57431600	2.70442700	6	1.08608700	1.94245700	-0.38916400
8	-3.71940200	-0.55293700	-1.09999300	6	-0.35989300	1.54189700	1.69246900
8	-1.51677700	2.91585800	0.00199300	1	0.37749800	-0.20232000	0.39521600
6	0.99439100	-2.13409500	-0.01795200	1	0.08737000	-0.63565900	-1.78923000
1	1.56739000	-3.00287000	-0.38482000	6	0.90988800	-1.65623100	0.16297100
1	0.75050700	-2.33664600	1.04005800	6	0.40534600	-2.19338300	1.48817000
6	1.81335600	-0.88442200	-0.08729600	1	-0.67069400	-2.39495800	1.41533100
6	3.20510300	-0.88377100	-0.08837400	1	0.90807900	-3.15334300	1.68438800
1	3.74472900	-1.83328800	-0.07532200	1	0.59448100	-1.53438100	2.34537200
6	3.88559200	0.33087200	-0.10197800	8	0.38740600	-2.09775000	-0.89128000
1	4.97681000	0.35823700	-0.09947900	6	2.35021900	-1.19392200	0.11879000
6	3.13911700	1.50655100	-0.12507500	6	2.98162500	-0.57226300	1.20427000
1	3.62077400	2.48527400	-0.14082900	6	3.07166600	-1.38384200	-1.06371700
6	1.75278500	1.42622400	-0.13646300	6	4.30341100	-0.14932300	1.10639500
1	1.13738800	2.32810300	-0.16502500	1	2.42211500	-0.38271700	2.12531700
6	-1.19137800	-0.36405700	1.57855500	6	4.39536700	-0.95999400	-1.16336300
6	-2.65596300	-0.31601200	-0.70207700	1	2.57053700	-1.88110400	-1.89789300
6	-1.32761300	1.77062700	-0.04149900	6	5.01472400	-0.34093800	-0.07909100
1	-0.82481700	0.37537700	-1.76305700	1	4.78022400	0.34511100	1.95613000
1	-0.13075100	-1.92416100	-1.72947800	1	4.94912500	-1.11604600	-2.09279000
				1	6.05103400	-0.00344000	-0.15651900

1	0.95828400	0.01066000	-2.19733400
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N-1-4

25	1.67284700	-0.02215500	0.23160400	N-1-TS4-PS			
7	1.59889400	0.71329800	-1.70057900	6	1.66316700	-1.32474000	1.89041900
1	2.48039900	0.76550300	-2.20670600	6	2.88265500	-1.10541800	2.51148300
7	0.02295100	1.23281100	0.33742400	1	2.95434500	-1.16090300	3.59803600
8	3.62218600	1.91745300	1.30871700	6	3.99566200	-0.82301900	1.71881600
8	3.70866600	-2.04624100	-0.48507300	1	4.97237200	-0.64804300	2.17494000
8	1.15159300	-1.32884400	2.83360800	7	1.50666900	-1.25859600	0.55769400
6	0.90121800	1.99212100	-1.76100500	6	2.29711500	-0.92054200	-1.67511700
1	0.50339800	2.20718100	-2.76664600	6	2.57613200	-0.96168600	-0.20995800
1	1.60181100	2.81011300	-1.51449900	6	3.84160300	-0.76274600	0.34209000
6	-0.20062900	1.99391000	-0.75385300	1	4.68237400	-0.52974600	-0.31329100
6	-1.35534400	2.76493500	-0.88285900	7	0.93236200	-0.42138200	-1.84836400
1	-1.50817800	3.35334600	-1.78949400	6	-0.91889600	1.38870300	0.54249300
6	-2.29243000	2.76352100	0.14207700	1	-0.60290500	0.29106000	0.19192800
1	-3.20669800	3.35480100	0.05704700	1	0.69164600	2.13076300	-0.35753900
6	-2.04972600	1.98867300	1.27374000	6	-1.82024000	-1.18321500	-1.43320500
1	-2.76030300	1.94351400	2.09952900	8	-2.78421900	-1.04185400	-2.04930200
6	-0.88888700	1.23282500	1.32619200	8	-0.41445600	2.28466000	-0.31256100
1	-0.67633000	0.59704400	2.18796700	1	3.04138500	-0.28854200	-2.18613200
6	2.85973500	1.15488800	0.88613200	6	2.94884700	2.51068800	-0.58489700
6	2.92613000	-1.24825000	-0.18838800	8	1.89697500	1.61596400	-0.50092900
6	1.37052400	-0.81033600	1.82037800	1	1.03108400	0.58846300	-1.57618000
6	-1.70503000	-1.27872900	-0.49363400	1	3.90164300	1.93740500	-0.72887400
6	-1.89758500	-1.81240900	0.78743200	1	0.77168900	-1.56276100	2.47557800
6	-3.08704400	-1.58968200	1.47910200	1	2.37857200	-1.93821500	-2.09791800
6	-4.10443800	-0.83209400	0.89554600	6	-1.20446500	-2.07154700	0.93855100
6	-3.91854400	-0.29458600	-0.37800600	6	0.01226200	-3.02658300	-1.13043200
6	-2.72386200	-0.51138800	-1.06300500	8	-1.75545500	-2.51314600	1.85555300
1	-1.10427700	-2.40266500	1.25812700	8	0.21912700	-4.08105800	-1.56060500
1	-3.22338700	-2.01266000	2.47796100	6	-0.30987100	1.45551200	1.93709200
1	-5.04148000	-0.66482300	1.43333400	1	-0.58881900	2.40973400	2.40690900
1	-4.71251600	0.29844000	-0.84158500	1	-0.64248100	0.63779000	2.59278800
1	-2.54644300	-0.09909400	-2.05968700	1	0.78526500	1.41960900	1.85011100
6	-0.42430700	-1.50242900	-1.29789500	6	3.10183400	3.29557200	0.71245500
6	-0.03122300	-2.98054500	-1.40034900	1	3.95660300	3.98912700	0.69231000
1	-0.77837300	-3.50253100	-2.01521800	1	2.19270300	3.88709500	0.90929600
1	0.94017300	-3.07108500	-1.90441800	1	3.23860400	2.60824700	1.56137000
1	0.03032600	-3.48696300	-0.42651500	6	2.80329600	3.44041900	-1.78429300
8	-0.33548100	-0.82031700	-2.39805200	1	3.65174000	4.13380900	-1.89137300
1	0.42244800	-1.12862100	-0.46306300	1	2.72100800	2.86168200	-2.71693900

1	1.88549800	4.04284100	-1.69127300	6	-3.90186500	-0.28620700	-0.39851200
1	0.64991700	-0.47704900	-2.82490800	6	-2.70181300	-0.53553100	-1.06438200
25	-0.29849600	-1.39453100	-0.46404800	1	-1.14171500	-2.39961300	1.31812600
6	-2.43425700	1.34931500	0.50137800	1	-3.27251000	-1.95778700	2.49939300
6	-3.17890300	0.57563300	1.40003500	1	-5.05571700	-0.60369500	1.40287100
6	-3.11041600	2.06883600	-0.48810500	1	-4.67891100	0.31156200	-0.88397200
6	-4.56652700	0.50768800	1.29941700	1	-2.50747700	-0.14225000	-2.06540600
1	-2.67626500	0.01133500	2.18974500	6	-0.40481200	-1.56733200	-1.21877500
6	-4.49948200	2.00761300	-0.58478700	6	-0.07129500	-3.05531500	-1.33976900
1	-2.52169900	2.67309500	-1.18008900	1	-0.80894900	-3.53434400	-1.99885200
6	-5.23201200	1.22173200	0.30274000	1	0.91875700	-3.17716000	-1.79933400
1	-5.13149800	-0.10600200	2.00530500	1	-0.07616000	-3.58285800	-0.37544600
1	-5.01406100	2.57464300	-1.36473900	8	-0.27513100	-0.88924400	-2.34790300
1	-6.32032100	1.16789400	0.22252300	1	0.40938400	-1.21201600	-0.41297400
				1	0.76178700	-0.14685300	-2.15635900

N-1-TS4

25	1.67236200	-0.01690600	0.23047400
7	1.55234000	0.62147000	-1.69469900
1	2.40243500	0.61060200	-2.25488700
7	0.01986100	1.24119800	0.31424800
8	3.60156100	1.96915700	1.23006300
8	3.74869800	-2.01666200	-0.43765400
8	1.15279600	-1.24809100	2.87603100
6	0.89316800	1.91164000	-1.81191100
1	0.47803500	2.08490800	-2.82062200
1	1.60275500	2.73957400	-1.62240000
6	-0.19389600	1.98219100	-0.79320800
6	-1.33497400	2.77228700	-0.93237300
1	-1.47999500	3.34561200	-1.84995000
6	-2.26908700	2.80658600	0.09429600
1	-3.17294500	3.41242200	0.00056700
6	-2.03748800	2.04847700	1.24016700
1	-2.74554700	2.03322700	2.06918000
6	-0.88697700	1.27826500	1.30684400
1	-0.67900800	0.66090000	2.18323200
6	2.84682100	1.17919600	0.84615400
6	2.94936100	-1.22976100	-0.15838300
6	1.37105000	-0.76174400	1.84689900
6	-1.70378500	-1.30741100	-0.46563200
6	-1.92190300	-1.81098100	0.82360400
6	-3.11683300	-1.55771600	1.49405000
6	-4.11434900	-0.79656900	0.88157300

N-1-2I

25	-0.48588600	0.56924000	0.21778300
7	0.05048600	-0.61237000	1.95315000
1	0.31894000	-0.06382600	2.76945000
7	1.54574200	0.09571600	-0.15739300
8	0.33353700	3.12481100	1.48903700
8	-3.26116000	1.07908100	1.08387700
8	-0.93444600	1.82436400	-2.41280400
6	1.11327200	-1.54111500	1.56432800
1	0.63015800	-2.37728500	1.03981800
1	1.66556100	-1.94889200	2.42715600
6	2.04989800	-0.90270000	0.58750800
6	3.36422500	-1.34141100	0.42038100
1	3.74898700	-2.14582200	1.05108100
6	4.16276700	-0.74747200	-0.55036300
1	5.19262300	-1.07913000	-0.69946000
6	3.62771800	0.28057200	-1.32295300
1	4.21395800	0.77871500	-2.09610400
6	2.31665500	0.67370800	-1.08589000
1	1.85640100	1.48105300	-1.66221600
6	0.01807700	2.12459900	0.98997400
6	-2.18210200	0.85202300	0.72417400
6	-0.77932400	1.34168800	-1.37215700
6	-1.82260500	-1.93983700	-0.87427500
1	-1.49656000	-2.85884700	-1.41782700
8	-0.67365300	-1.25782700	-0.52094000

1	-0.78542000	-1.13723200	2.20519500	6	0.33054000	3.54421200	1.09207500
6	-2.60645000	-2.42402600	0.34531400	1	1.19854600	3.47592300	0.42312300
1	-3.45629600	-3.06967400	0.07372000	1	-0.00537000	4.58983300	1.11922600
1	-1.95643300	-3.00929000	1.01630200	1	0.64945800	3.26088500	2.10662700
1	-3.01959600	-1.57851000	0.91945900	6	3.32910200	0.99990000	0.71087600
6	-2.72442600	-1.18104400	-1.83872000	1	2.63680700	0.32835400	1.24261500
1	-2.15243600	-0.83905800	-2.71273800	1	4.35540400	0.65492800	0.91152300
1	-3.55399600	-1.80694000	-2.20195700	1	3.21925800	2.00097800	1.15713100
1	-3.17279200	-0.29302700	-1.36402700	6	3.93900400	1.99736800	-1.51350000
N-1-TS1I-PS				1	5.00027200	1.73209300	-1.39070200
6	0.47781500	-1.55649000	1.85588100	1	3.71044900	2.00959500	-2.58801600
6	1.60509400	-2.19741400	2.35166100	1	3.79814400	3.02226900	-1.13684000
1	1.73591100	-2.30927300	3.42855200	7	0.10552300	-0.32666500	-1.83314400
6	2.55286800	-2.67596000	1.44870300	1	-0.27094400	-0.20395000	-2.77145900
1	3.45534900	-3.17799600	1.80410100	1	-1.06044500	2.94310400	-0.41992600
7	0.26520100	-1.39188900	0.54256200	N-1-TS1I			
6	0.84074800	-1.57986600	-1.77041400	25	-0.45469700	-0.73367100	-0.03789200
6	1.18082600	-1.84164400	-0.33917300	7	1.46221900	0.06217000	0.27823100
6	2.34067000	-2.48774800	0.08773300	8	0.65696300	-3.44714500	-0.37027300
1	3.07039800	-2.82529600	-0.65089100	8	-3.14132400	-1.63733700	-0.88056500
6	-2.48872400	0.71635300	-1.19150700	8	-1.08960600	-1.03021100	2.84335700
8	-3.21427200	1.40628400	-1.76992500	6	1.48367000	-0.01176700	-2.12534400
1	1.76212600	-1.57794600	-2.38200500	1	1.80687200	0.69815200	-2.91220200
1	0.92294500	0.55639300	-1.56143600	1	1.87914300	-0.99882500	-2.44930900
8	-0.28221800	1.28857800	0.55914300	6	2.16183900	0.34020500	-0.83982100
6	-0.77842500	2.63358700	0.60822600	6	3.43767600	0.90351800	-0.77497500
6	3.01286700	1.04191400	-0.77800800	1	3.97421700	1.12297200	-1.70036200
8	1.68220600	1.39757700	-0.99356300	6	4.00155400	1.17924900	0.46398000
1	0.62027700	1.33746900	0.05637600	1	4.99912500	1.61829100	0.53424200
1	0.23683800	-2.43395400	-2.13914300	6	3.26707400	0.89491600	1.61399600
6	-2.38689300	-0.44778200	1.16354100	1	3.66212200	1.10099600	2.60953200
6	-2.08656100	-1.81413400	-0.99518400	6	2.00275500	0.33984300	1.47427900
8	-3.05571000	-0.55904300	2.10172000	1	1.39269400	0.10607400	2.34999000
8	-2.56840600	-2.76374600	-1.45282200	6	0.21090200	-2.38891900	-0.21532200
1	-0.28509000	-1.15220800	2.52584600	6	-2.09197700	-1.28672300	-0.53992300
25	-1.33203600	-0.34758300	-0.30417600	6	-0.84821800	-0.92257700	1.71511100
1	3.21229200	0.01648300	-1.18157400	6	-2.21980000	1.84588800	-0.24860600
6	-2.00078900	2.69434600	1.49275100	6	-2.12900400	3.30778300	-0.64503300
1	-2.33391300	3.73413100	1.61329000	1	-1.55399700	3.87201000	0.10387100
1	-2.84813200	2.12938900	1.08194000	1	-1.62143800	3.42469400	-1.61265000
1	-1.77640600	2.29118100	2.49174200	1	-3.12473100	3.76596100	-0.72916600

8	-0.91393500	1.30653200	-0.20179700	1	-2.15243600	-0.83905800	-2.71273800
1	-2.81697800	1.31279600	-1.02383100	1	-3.55399600	-1.80694000	-2.20195700
1	-0.48351800	0.97873200	-1.25526200	1	-3.17279200	-0.29302700	-1.36402700
6	-2.91059900	1.66182000	1.08532200				
1	-3.89524900	2.15020400	1.09643600				
1	-3.06665500	0.59972400	1.31978700	N-1-2			
1	-2.30375500	2.09773400	1.89338300	25	-0.92174700	-0.53696000	0.02269300
7	0.05917100	-0.03515900	-1.91496000	7	-0.31755900	-0.04088100	-1.90221200
1	-0.42217400	-0.41096600	-2.72784300	1	-0.95173200	-0.27763600	-2.66215300
				7	1.14430000	-0.58654200	0.21738000
				8	-1.27888300	-3.43873500	-0.41587700
N-1-2I				8	-3.74213700	0.14554700	-0.55328400
25	-0.48588600	0.56924000	0.21778300	8	-1.42336900	-0.62050900	2.93504400
7	0.05048600	-0.61237000	1.95315000	6	1.01946400	-0.55117900	-2.17711700
1	0.31894000	-0.06382600	2.76945000	1	1.51574900	-0.01606900	-3.00373900
7	1.54574200	0.09571600	-0.15739300	1	0.96073100	-1.61397900	-2.47416900
8	0.33353700	3.12481100	1.48903700	6	1.83734900	-0.45699500	-0.93320200
8	-3.26116000	1.07908100	1.08387700	6	3.22583000	-0.32446700	-0.94010300
8	-0.93444600	1.82436400	-2.41280400	1	3.74733300	-0.20420000	-1.89124600
6	1.11327200	-1.54111500	1.56432800	6	3.91789300	-0.34262400	0.26355800
1	0.63015800	-2.37728500	1.03981800	1	5.00455000	-0.23806200	0.28015600
1	1.66556100	-1.94889200	2.42715600	6	3.19859400	-0.49350500	1.44835600
6	2.04989800	-0.90270000	0.58750800	1	3.69515100	-0.51431000	2.41910000
6	3.36422500	-1.34141100	0.42038100	6	1.81815200	-0.60502600	1.38038400
1	3.74898700	-2.14582200	1.05108100	1	1.21881400	-0.70394700	2.28857000
6	4.16276700	-0.74747200	-0.55036300	6	-1.13907200	-2.30120500	-0.24660800
1	5.19262300	-1.07913000	-0.69946000	6	-2.64657800	-0.14265400	-0.31945400
6	3.62771800	0.28057200	-1.32295300	6	-1.23884500	-0.60837000	1.79068000
1	4.21395800	0.77871500	-2.09610400	1	-0.59634600	1.20142800	0.24645600
6	2.31665500	0.67370800	-1.08589000	1	-0.20180500	1.02323500	-1.85505100
1	1.85640100	1.48105300	-1.66221600	6	-0.19034600	2.34982900	-0.07209600
6	0.01807700	2.12459900	0.98997400	6	-1.52147400	3.10368700	-0.03707200
6	-2.18210200	0.85202300	0.72417400	1	-1.32800300	4.17563500	-0.19275100
6	-0.77932400	1.34168800	-1.37215700	1	-2.17740200	2.76631600	-0.85147500
6	-1.82260500	-1.93983700	-0.87427500	1	-2.05778700	2.98223400	0.91627300
1	-1.49656000	-2.85884700	-1.41782700	6	0.69573000	2.66044500	1.13287400
8	-0.67365300	-1.25782700	-0.52094000	1	1.64188300	2.10627000	1.06400900
1	-0.78542000	-1.13723200	2.20519500	1	0.94835600	3.73148400	1.12017500
6	-2.60645000	-2.42402600	0.34531400	1	0.21157400	2.43568600	2.09604900
1	-3.45629600	-3.06967400	0.07372000	8	0.41504500	2.31798000	-1.21774600
1	-1.95643300	-3.00929000	1.01630200				
1	-3.01959600	-1.57851000	0.91945900				
6	-2.72442600	-1.18104400	-1.83872000	N-TS2			

25	-0.94118100	-0.55026100	0.03443600	6	0.58459900	1.58020100	-2.14913900
7	1.12859000	-0.60663000	0.22089500	1	0.11675700	0.76596300	-2.72008900
8	-1.32574400	-3.45680100	-0.46856200	1	0.68566100	2.44314200	-2.82746100
8	-3.72762100	0.25421300	-0.51706100	6	-0.32956700	1.90724000	-1.00999700
8	-1.42016800	-0.65511800	2.94137500	6	-1.42391900	2.75932800	-1.16004300
6	1.00268300	-0.58203100	-2.17439500	1	-1.59160500	3.25823500	-2.11727500
1	1.51226600	-0.07356600	-3.00970800	6	-2.28796400	2.95243300	-0.08843600
1	0.91595000	-1.64739000	-2.45352800	1	-3.15503500	3.60913600	-0.18686900
6	1.82247600	-0.49120900	-0.92974300	6	-2.02905000	2.29023600	1.10884900
6	3.21079600	-0.36665800	-0.94180200	1	-2.68562000	2.39356000	1.97336400
1	3.73069100	-0.25578800	-1.89518400	6	-0.90583600	1.47798800	1.18890700
6	3.90687700	-0.38192300	0.26075100	1	-0.66255200	0.94348900	2.11141700
1	4.99426900	-0.28503000	0.27436400	6	2.56591400	1.22930400	1.13434600
6	3.18774300	-0.52051500	1.44639100	6	3.01235100	-1.07624400	-0.09008200
1	3.68561900	-0.54037700	2.41668400	6	1.15183600	-0.85061400	1.65205600
6	1.80539000	-0.62249800	1.38164400	6	-1.53787400	-1.61730200	-0.24729200
1	1.20662700	-0.71196600	2.29130600	6	-1.97954600	-1.98857000	1.02565500
6	-1.16155800	-2.32365600	-0.28524800	6	-3.19412900	-1.51890000	1.53278900
6	-2.64775700	-0.10132700	-0.29258200	6	-3.99124800	-0.67098300	0.76726400
6	-1.24989200	-0.64726800	1.79303600	6	-3.56097800	-0.28966800	-0.50673500
1	-0.69410800	1.08661200	0.30987300	6	-2.34708800	-0.75543100	-1.00178800
1	-0.23934600	0.98894300	-1.90596400	1	-1.36058000	-2.65840200	1.63056400
6	-0.10003100	2.49241800	-0.09701900	1	-3.52018900	-1.82371100	2.53103500
6	0.69003800	2.68333400	1.18203600	1	-4.94571800	-0.30858200	1.15825500
1	1.61472000	2.09301200	1.15308900	1	-4.18059100	0.37548500	-1.11576900
1	0.98376100	3.74340300	1.24867100	1	-2.00873600	-0.45032500	-1.99811400
1	0.11879200	2.43540600	2.08741300	6	-0.21182600	-2.09872100	-0.82164300
8	0.52714900	2.34738600	-1.17386600	6	-0.44047000	-2.99196400	-2.03459600
7	-0.32971900	-0.04934600	-1.91416400	1	-0.92152100	-2.42507300	-2.84655300
1	-0.96970700	-0.31459900	-2.65921800	1	0.52227300	-3.36303700	-2.41275900
6	-1.45959400	3.16685500	-0.12407900	1	-1.08027500	-3.85557900	-1.79992600
1	-2.02897600	3.02787400	0.80469300	8	0.59881300	-1.03763300	-1.18122500
1	-1.30333100	4.24746900	-0.27262900	1	0.26018700	-2.73655100	-0.03477300
1	-2.06175600	2.80377300	-0.96689800	1	2.20246300	0.34854600	-2.30007800
				1	2.58289400	1.82062000	-1.66821900

N-1-4I

25	1.61693800	0.03639800	0.16577800	N-1-TS4I-PS			
7	1.87997500	1.08397500	-1.67348600	6	0.77223800	-0.59938100	2.26728700
7	-0.07377600	1.29089800	0.15560100	6	1.68051800	-0.31723400	3.27910400
8	3.17549000	2.00304700	1.74864900	1	1.32089400	-0.01415900	4.26319700
8	3.88401000	-1.80824200	-0.29081100	6	3.04243700	-0.42270500	3.00246500
8	0.86970300	-1.39479500	2.63629700	1	3.78503300	-0.20100500	3.77198200

7	1.15975800	-0.97552300	1.04012500	1	-1.52555100	1.89017500	1.72260100
6	2.77683800	-1.48501000	-0.64432400	6	-4.76279900	0.84013600	1.51187100
6	2.47436000	-1.07507800	0.76028300	1	-5.76676300	0.28823500	-0.31719100
6	3.44269600	-0.80066100	1.72606600	1	-3.50848000	1.44273700	3.16425000
1	4.49988200	-0.87264100	1.46279000	1	-5.62960500	0.63190900	2.14337200
6	-1.05020700	-1.26840100	-2.13398800				
8	-1.63898200	-1.27630400	-3.13002000				
1	3.79929700	-1.16417700	-0.91892200	N-1-TS4I			
1	1.93856300	0.30537500	-1.58278300	6	-1.79028400	-1.10725700	0.15497500
8	-0.22054100	0.86803500	-0.42969700	8	-0.65498200	-0.28290800	0.02872600
6	-1.31548300	1.61922000	-0.95408200	1	-1.79407300	-1.87603300	-0.64994300
6	3.00990600	2.05905300	-0.69290900	1	-0.34100300	-0.06433200	-1.04464700
8	1.95126700	1.54623000	-1.44971100	6	-1.75863500	-1.82806500	1.49065100
1	0.66978200	1.27038100	-0.79235600	1	-2.67880700	-2.40555600	1.65307400
1	2.79524700	-2.59390900	-0.67568500	1	-0.91000500	-2.52425400	1.54942000
6	-1.60671200	-1.49847400	0.41974600	1	-1.66318000	-1.10072500	2.31017900
6	0.13305200	-3.01167200	-0.66951000	6	-3.05568900	-0.28698900	0.00423700
8	-2.50978800	-1.77818600	1.08643800	6	-4.25468800	-0.90770300	-0.36441600
8	0.31128700	-4.15539400	-0.73245800	6	-3.06202700	1.08610800	0.26611300
1	-0.30586800	-0.52124400	2.43266800	6	-5.43521300	-0.17574200	-0.46590100
25	-0.11610900	-1.24432500	-0.59062300	1	-4.25951800	-1.98160400	-0.57870600
1	3.73905400	1.24485500	-0.45656200	6	-4.24282500	1.82110400	0.16442500
6	-0.94945800	3.09059700	-0.99909300	1	-2.12273100	1.57116600	0.54382000
1	-0.04114100	3.24144000	-1.59894600	6	-5.43299100	1.19389700	-0.20079500
1	-1.76634600	3.67781300	-1.43947100	1	-6.36190700	-0.67582800	-0.75873100
1	-0.76356400	3.47897200	0.01311000	1	-4.23317700	2.89457000	0.37086700
6	2.51794100	2.61299100	0.63813300	1	-6.35708600	1.77117300	-0.28251700
1	1.94892600	1.85449700	1.19872900	25	1.35622600	-0.90551900	-0.09999700
1	3.34662500	2.95506400	1.27724200	7	0.76078800	-0.07481500	-1.88923800
1	1.84557000	3.47018600	0.47481400	1	0.75923100	-0.65880600	-2.72184200
6	3.75540500	3.11426600	-1.49159400	7	1.64472500	1.14576200	0.23388000
1	4.61837900	3.52178700	-0.94334900	8	4.18466900	-1.27365300	-0.84385400
1	4.11591600	2.69810700	-2.44209500	8	0.66059700	-3.65904000	-0.92409500
1	3.08034000	3.94933500	-1.73400700	8	1.70266200	-1.67444400	2.74412000
7	1.74667800	-0.93225000	-1.50887800	6	1.40685600	1.18450600	-2.15630400
1	1.82714400	-1.35350300	-2.43279100	1	0.85024200	1.82715200	-2.86680600
1	-1.53011800	1.28325600	-1.98843900	1	2.41496700	1.06268300	-2.61065900
6	-2.53156500	1.35207700	-0.10665000	6	1.58823900	1.92072700	-0.86835000
6	-3.72822000	0.90313500	-0.66975800	6	1.70496500	3.30979900	-0.78375900
6	-2.46591500	1.54673600	1.27900000	1	1.64861200	3.90864200	-1.69497600
6	-4.83954200	0.64916400	0.13429900	6	1.88318500	3.90651100	0.45767900
1	-3.78243800	0.73579100	-1.75029200	1	1.97361100	4.99146300	0.54330500
6	-3.57200000	1.29261200	2.08341300	6	1.93235600	3.09697100	1.59159500

1	2.06150400	3.51912500	2.58887500	6	0.50967300	0.13536600	2.23569300
6	1.80784700	1.72414500	1.43351200	1	0.01806700	0.53033300	1.18494500
1	1.83708200	1.05547700	2.29704100	1	2.26253100	-0.36233100	1.40619700
6	3.07770800	-1.14355800	-0.52827100	6	1.14598400	1.80800700	-0.61934700
6	0.94222100	-2.58649900	-0.59228100	8	2.17055700	2.33580900	-0.63417800
6	1.57038000	-1.38339200	1.63030500	8	1.85093200	0.28932500	2.20501900
O-1-1				1	-0.01744100	-2.81424800	-1.02129000
				6	3.70110900	-0.81350600	-0.54211400
				8	2.57569800	-1.14056600	0.27233900
25	-0.96188400	-0.17324800	0.00004800	1	1.69101500	-1.07803600	-0.30865400
7	1.07926100	0.14174200	0.00003500	1	3.41552300	0.00273100	-1.23462400
8	-1.39075600	1.80996300	2.12918300	1	-3.36008900	0.93412700	0.65458300
8	-3.80183800	-1.04460900	0.00058900	1	-0.62540100	-1.89240800	-2.39630500
8	-1.39113400	1.80921700	-2.12985000	6	-1.26155100	2.34557700	0.20790600
6	0.95299500	-2.23133800	-0.00005100	6	-0.91508200	1.40695000	-2.19852900
1	1.23474800	-2.85457100	-0.87706800	8	-1.80617600	3.22686700	0.72892600
1	1.23490100	-2.85460400	0.87650100	8	-1.22884900	1.70847900	-3.26985600
6	1.79707900	-0.99838300	0.00002500	6	0.03909500	-1.30542700	2.32957600
6	3.19411500	-0.97732300	0.00006700	1	0.39996100	-1.74340600	3.27202500
1	3.74526800	-1.92043800	0.00006400	1	-1.05838900	-1.38565100	2.31330900
6	3.85467100	0.24270500	0.00007900	1	0.44630900	-1.91095500	1.50784800
1	4.94601000	0.28319200	0.00010000	6	4.09653600	-2.02330000	-1.36219400
6	3.10093400	1.41968400	0.00002500	1	4.94679000	-1.80180900	-2.02272100
1	3.57804300	2.40044300	0.00001100	1	4.37957500	-2.85948500	-0.70627100
6	1.71992700	1.32539700	0.00000000	1	3.26101600	-2.35752100	-1.99410900
1	1.08852600	2.21776300	0.00004000	6	4.80796400	-0.31425300	0.35731300
6	-1.25909900	1.04897800	1.26415900	1	5.70412000	-0.05731000	-0.22325100
6	-2.69947900	-0.71170600	0.00021900	1	4.49214800	0.58120300	0.90983000
6	-1.25929400	1.04855800	-1.26457500	1	5.08648500	-1.08505900	1.09117200
8	-0.38456200	-1.94109700	-0.00002100	25	-0.44118600	0.93300000	-0.53909800
O-1-TS1-PS				8	0.42178400	-0.80011200	-0.97949200
				6	-0.11234500	1.05065500	3.26565700
				1	0.22077600	2.08475200	3.10862200
6	-3.19678000	-0.10506900	0.35715300	1	-1.21089700	1.02676300	3.22957000
6	-4.15720600	-1.07619500	0.59701300	1	0.20957200	0.74491700	4.27179000
1	-5.09040800	-0.80563700	1.09240200	O-1-TS1			
6	-3.89697000	-2.38758800	0.19741900				
1	-4.62848200	-3.17864300	0.37650000				
7	-2.02338700	-0.38060400	-0.23842400	25	-0.92039900	-0.56265000	0.02792000
6	-0.43478500	-1.82324200	-1.29821400	7	1.14842000	-0.58410000	0.22165900
6	-1.76494100	-1.64526600	-0.63177200	8	-1.22235400	-3.43582000	-0.69832600
6	-2.69001200	-2.67060600	-0.42794800	8	-3.73406100	0.18222900	-0.49013300
1	-2.44512300	-3.68412700	-0.75288000	8	-1.42353000	-0.96559500	2.89362000

6	0.97838600	-0.41896600	-2.16009000	1	4.97018500	0.36979000	-0.07559000
1	1.45510600	0.15146700	-2.97303200	6	3.12912000	1.51159200	-0.12044700
1	0.85536800	-1.45623000	-2.51871600	1	3.60835300	2.49143600	-0.13689600
6	1.82943900	-0.41364400	-0.92935600	6	1.74291100	1.42804600	-0.14252800
6	3.21663900	-0.28724100	-0.95209600	1	1.12484700	2.32785300	-0.18041500
1	3.72678800	-0.13477700	-1.90525100	6	-1.18546300	-0.30942300	1.59421100
6	3.92449100	-0.35007400	0.24278500	6	-2.66639800	-0.37652500	-0.67185100
1	5.01182900	-0.25131600	0.25023600	6	-1.35422400	1.74299900	-0.10084300
6	3.21725300	-0.53589100	1.42929700	1	-0.82062700	0.26141700	-1.79194800
1	3.72552000	-0.59177200	2.39277000	1	-0.10490100	-1.80181500	-1.62704200
6	1.83435900	-0.64295300	1.37481000	8	-0.25304500	-1.94953000	-0.68146200
1	1.24454600	-0.77533600	2.28540400				
6	-1.08695200	-2.31585600	-0.43905300				
6	-2.64429300	-0.14918800	-0.29173000	O-1-TS2-PS			
6	-1.24875600	-0.83565100	1.75309500	6	-1.65745400	2.54218400	-0.35982400
6	-0.18831800	2.52778500	-0.01595900	6	-1.94613100	3.48022200	-1.34000400
1	-0.75580800	1.03996000	0.46352200	1	-2.97866100	3.79197800	-1.50187800
6	0.60504100	2.76474100	1.24616700	6	-0.89932600	3.99956100	-2.10053500
1	0.89247800	3.82834200	1.27528900	1	-1.09013400	4.73533300	-2.88442000
1	0.03748100	2.54605000	2.16013900	7	-0.40673900	2.11162200	-0.11422400
1	1.53249400	2.17841900	1.23327000	6	1.97222900	2.09445500	-0.49383700
6	-1.57213200	3.13422700	-0.05768900	6	0.61009500	2.61020000	-0.84705200
1	-1.45993500	4.21888600	-0.21833500	6	0.39333000	3.55832300	-1.84639400
1	-2.15204900	2.73732900	-0.90001300	1	1.24153900	3.93304800	-2.42317100
1	-2.13780800	2.98505400	0.87090300	6	-0.36993000	-1.25824900	-1.16785300
8	0.43525000	2.35019800	-1.09086400	1	-0.23192400	-0.45602600	-0.22574600
1	-0.17615700	1.08167200	-1.76223800	1	1.80633700	-1.59298400	-1.12992000
8	-0.30777400	0.08567300	-1.87737500	6	0.70478500	-0.92354900	1.98251700
				8	1.09549200	-1.91014000	2.43351300
				8	0.53604200	-2.19117200	-1.08673300
O-1-2				1	2.57037800	1.94130400	-1.41013900
25	-0.97669000	0.01635300	-0.19880800	6	3.71205600	-1.81170900	-0.39908200
7	1.08659900	0.25627400	-0.11872000	8	2.70278700	-1.01370800	-1.01671500
8	-1.37240500	-0.47367400	2.72687600	1	2.28612900	0.06160500	-0.30128100
8	-3.73314200	-0.62900300	-1.04103900	1	3.32174200	-2.20162300	0.56369400
8	-1.55117800	2.88778100	-0.08788400	1	-2.45049000	2.10395100	0.25119500
6	0.99003200	-2.13165900	-0.02373900	1	2.50200100	2.87571400	0.08890000
1	1.53439300	-3.00089900	-0.42585100	6	-1.57469500	0.25918100	1.75918900
1	0.73080900	-2.36255300	1.02347500	6	0.45449800	1.65007800	2.61414200
6	1.81189200	-0.88193700	-0.08326700	8	-2.66025500	0.05457800	2.10514600
6	3.20305700	-0.87902700	-0.07496000	8	0.66489200	2.32201800	3.53126000
1	3.74553600	-1.82693100	-0.05646700	6	-0.22367300	-0.32357500	-2.37053700
6	3.87917500	0.33832600	-0.08656600	1	-0.42557900	-0.89764100	-3.28661600

1	-0.89512100	0.54658000	-2.35937800	6	-2.89929300	-1.21501200	0.76143400
1	0.81200500	0.04003900	-2.43501200	6	-2.86475700	1.32249400	-0.10188400
6	4.90881900	-0.93106900	-0.12035200	6	-1.38927500	0.66270800	1.89600700
1	5.71515200	-1.49833600	0.36386100	6	1.76348700	1.36865600	-0.49405100
1	5.30508000	-0.51150500	-1.05743400	6	1.96806200	1.94315100	0.76870100
1	4.64547800	-0.09504000	0.54317100	6	3.10937000	1.63994500	1.50614200
6	4.03598700	-2.98535300	-1.29670700	6	4.06716300	0.76521400	0.98857700
1	4.79240500	-3.63872500	-0.84008700	6	3.86892900	0.18545400	-0.26429900
1	3.13914400	-3.58950800	-1.48875200	6	2.72012000	0.47837400	-0.99508200
1	4.42332200	-2.63492000	-2.26475200	1	1.21430400	2.61235500	1.19307900
25	0.09429000	0.59088200	1.19669700	1	3.25363300	2.08962700	2.49150400
8	1.88757200	0.91587100	0.24461100	1	4.96737000	0.53652200	1.56471800
6	-1.79103100	-1.71968200	-0.87568500	1	4.61401900	-0.50277000	-0.67289900
6	-2.92441000	-0.98064400	-1.23562100	1	2.53922100	0.03186000	-1.97585500
6	-1.96254300	-2.91350700	-0.16788800	6	0.55880700	1.66309800	-1.34645500
6	-4.20111500	-1.42540300	-0.89323800	6	0.00792400	3.06910800	-1.33142400
1	-2.82032100	-0.04569300	-1.79416800	1	0.66057100	3.69107700	-1.96441100
6	-3.23605300	-3.35518200	0.18003100	1	-0.99641500	3.08610600	-1.77057100
1	-1.06655600	-3.48053800	0.09512800	1	-0.03097400	3.52559900	-0.33563400
6	-4.36072500	-2.61171200	-0.18012700	8	0.36715500	0.94798800	-2.36039800
1	-5.07714200	-0.84055300	-1.18540900	8	-1.56239700	-0.56211900	-1.74674500
1	-3.35483600	-4.28886200	0.73592200	1	-0.93777000	0.10921400	-2.16390000
1	-5.36052700	-2.95798700	0.09290800	1	-0.52933000	1.16450300	-0.16735000

O-1-TS2

25	-1.66457300	0.02915400	0.25972000
7	-0.03534400	-1.25868300	0.28663400
8	-3.69502500	-1.97597500	1.11819300
8	-3.58112000	2.19123400	-0.36523600
8	-1.13145900	1.09804000	2.94153300
6	-0.92771400	-1.81542700	-1.86588900
1	-0.53582100	-1.96186800	-2.88483100
1	-1.69804500	-2.58902800	-1.70028000
6	0.15570600	-1.96698700	-0.84403300
6	1.25156000	-2.81164900	-1.00687400
1	1.37167800	-3.36209900	-1.94247700
6	2.17192900	-2.93901100	0.02766000
1	3.03761800	-3.59653800	-0.07653400
6	1.97291100	-2.20127600	1.19215700
1	2.67232500	-2.25274000	2.02740300
6	0.86507600	-1.36983100	1.27753800
1	0.68207800	-0.76726400	2.17046500

O-2-TS1

25	-0.61004800	-0.79926800	-0.06048300
7	1.34638000	-0.18062000	0.23291700
8	0.14418000	-3.45360200	-1.18829700
8	-3.51084300	-0.99316300	-0.58069700
8	-0.95329700	-1.77645400	2.68581700
6	1.06571700	0.64156600	-1.96754300
6	1.89743000	0.42549300	-0.90510600
6	3.29618600	0.78476300	-0.87404200
1	3.73526200	1.22948700	-1.77157500
6	4.03759500	0.59412000	0.25790700
1	5.09351500	0.88544500	0.27071500
6	3.44166800	0.02018300	1.41356000
1	4.00082500	-0.15008400	2.33421600
6	2.11010500	-0.34827800	1.31832900
1	1.61159400	-0.82110200	2.17304600
6	-0.11847700	-2.39841500	-0.77729900
6	-2.36050200	-0.95591400	-0.39998300

6	-0.81921300	-1.41782800	1.58271600	25	1.59906300	0.22015700	0.18228500
6	-1.43943000	2.36639200	0.17363500	7	-0.17458100	1.28296500	0.15721800
1	-1.06328400	0.64781100	0.60803200	8	3.31526200	2.64228500	0.43769700
6	-0.14160800	2.84434700	0.77915200	8	3.80060900	-1.70688000	-0.22668400
1	-0.18240700	3.94590700	0.85608900	8	1.44662200	-0.40005400	3.04598700
1	0.03798700	2.43989000	1.78389400	6	0.24271000	1.27061100	-2.16668900
1	0.70386000	2.58136700	0.13141600	6	-0.52760200	1.71470400	-1.12753500
6	-2.65160900	2.37423900	1.07679500	6	-1.67147800	2.58004000	-1.26883900
1	-3.03645500	3.40769800	1.13676500	1	-1.93920500	2.92378000	-2.27198600
1	-3.44493000	1.74931600	0.64897800	6	-2.40778400	2.94167600	-0.17364500
1	-2.42966800	2.03558500	2.09749300	1	-3.28312800	3.58896000	-0.29500800
8	-1.60490300	2.39001500	-1.05888300	6	-2.04374400	2.47080800	1.11424100
1	-0.81690400	1.10977200	-1.71890700	1	-2.60974700	2.72911600	2.00982600
8	-0.28145700	0.27488000	-1.83422600	6	-0.92540900	1.65801400	1.19970500
1	1.36052500	1.06753800	-2.92694000	1	-0.60216700	1.27325400	2.17388900
O-2-3				6	2.62416200	1.71814600	0.29639400
25	0.95960400	-0.04284500	-0.11702200	6	2.95915600	-0.91765700	-0.06296400
7	-1.09799100	0.20718400	-0.07359300	6	1.54533900	-0.11988200	1.91707800
8	3.60360900	-1.10943100	-0.86743700	6	-1.50499300	-1.77395700	-0.26938600
8	1.45873400	2.65982000	-1.18005600	6	-1.87198200	-2.05880700	1.05694800
6	-0.83510000	-2.14450900	-0.28743300	6	-3.03778000	-1.53076000	1.60199300
1	-1.38079900	-3.06304700	0.05413900	6	-3.86406400	-0.70702300	0.83443900
1	-0.72965700	-2.27769900	-1.41120900	6	-3.51404700	-0.42419000	-0.48693300
6	-1.76228500	-0.96755400	-0.15508500	6	-2.34678300	-0.94903300	-1.02941900
6	-3.15727400	-1.00855900	-0.14188800	1	-1.21766400	-2.66944600	1.68451500
1	-3.65961800	-1.97865900	-0.19941000	1	-3.29535800	-1.74820600	2.64252900
6	-3.88590800	0.17546800	-0.06197900	1	-4.77129500	-0.27820200	1.26895400
1	-4.97967100	0.16135200	-0.04880200	1	-4.14424900	0.23365000	-1.09144200
6	-3.18738400	1.38213400	0.00301000	1	-2.04089200	-0.71481100	-2.05164900
1	-3.70722300	2.34058300	0.06653500	6	-0.24892000	-2.28070700	-0.89695000
6	-1.79765100	1.34813600	-0.00282800	6	0.42609600	-3.48983200	-0.29102900
1	-1.20695800	2.26821000	0.04742200	1	-0.11727400	-4.39780200	-0.60418200
6	2.57990200	-0.66460600	-0.53491600	1	1.44999300	-3.56160700	-0.67667000
6	1.29018300	1.58893600	-0.73118900	1	0.46558700	-3.48255800	0.80496500
1	0.70328500	-0.45532900	-1.67819800	8	0.03670500	-1.96661400	-2.07344400
6	1.28486800	0.35814000	1.63184500	8	1.23964000	0.33405300	-1.88081700
8	1.55013400	0.65822300	2.72816900	1	0.87276700	-0.57490500	-2.09957800
8	0.32256800	-1.93112400	0.35595000	1	0.68312100	-1.15294200	0.16057600
				1	0.08701900	1.51182100	-3.21875700
				O-2-TS1C			
O-2-TS4				25	0.99613500	-0.59891000	-0.16319600

7	-1.04475000	-0.81924000	0.06459600	1	2.22526000	2.45131100	-1.35607600
8	3.79382200	0.17411600	-0.77181400	6	1.44547400	3.22221600	0.51725400
8	1.39504600	-0.45735600	2.76417800	1	2.26588000	3.92404800	0.68887800
6	-0.88457400	0.45433600	-1.91156100	6	0.41135300	3.09540400	1.45565400
1	-1.27839100	0.45221000	-2.94796600	1	0.39273100	3.69570600	2.36710200
1	-0.90028200	1.63494700	-1.57503300	6	-0.58655700	2.16935700	1.22167600
6	-1.72766500	-0.25178300	-0.97732200	1	-1.39553300	2.00934900	1.93963500
6	-3.14072300	-0.29127500	-0.99451900	6	-2.71133900	-1.69411800	-0.79072100
1	-3.66902300	0.16855800	-1.83370200	6	-2.43187700	-0.32537100	1.39119900
6	-3.82595300	-0.89903600	0.03566500	1	-0.19591100	-1.17453200	0.24073300
1	-4.91907800	-0.93939000	0.02370300	6	-3.30288700	0.83914400	-0.73258300
6	-3.10404500	-1.47236400	1.10385300	8	-4.21426700	1.50197700	-1.02441400
1	-3.60630700	-1.95482300	1.94349300	8	-0.87517200	-0.17004900	-1.92698500
6	-1.72237400	-1.40347200	1.06360600	6	0.65492200	-1.70322800	0.81707700
1	-1.11329500	-1.83105900	1.86710900	8	1.67222800	-2.01030900	-0.01983600
6	2.70058500	-0.13174300	-0.53837000	6	1.04459100	-0.72750500	1.92480800
6	1.28048300	-0.54048200	1.60637900	1	1.52979700	0.15930300	1.48936700
1	0.40171000	1.47637900	0.26985300	1	0.17829300	-0.40475900	2.52625600
6	1.32927800	-2.32791900	-0.24621900	1	1.77516000	-1.20080600	2.60158600
8	1.53550900	-3.47314800	-0.33169000	6	0.00557700	-2.96454900	1.36455100
8	0.44531400	0.11287400	-1.82859900	1	-0.85956000	-2.74181300	2.00960600
6	-0.04997800	2.53532000	0.23104500	1	-0.33193500	-3.60589800	0.53792900
8	-0.35461800	2.89602800	-1.02699000	1	0.74097700	-3.53654100	1.95249000
6	-1.25712200	2.45056900	1.17819900	6	4.20222500	-0.10903700	-0.51394400
1	-2.04943200	1.81745500	0.75099300	1	4.71944100	0.84355500	-0.81233900
1	-0.99392000	2.03830900	2.16857500	6	4.51995700	-0.32429500	0.96954600
1	-1.68864300	3.45591400	1.32236800	1	4.09883600	0.49480600	1.57407000
6	1.03231500	3.43505800	0.83072400	1	4.05059300	-1.26004400	1.31476500
1	1.33297900	3.12541200	1.84655900	1	5.60284300	-0.38285700	1.17612000
1	1.92275900	3.42512400	0.18506100	6	4.83395900	-1.22510100	-1.35170600
1	0.66883900	4.47502100	0.87713400	1	4.38957500	-2.19522000	-1.07654200
O-2-TS1C-PS				1	4.62432200	-1.06266200	-2.41941100
				1	5.92787300	-1.29906500	-1.22168300
				8	2.85709700	-0.00194300	-0.74238900
				1	1.17504400	0.09540900	-2.07289600
25	-1.90082000	-0.15048700	-0.31465900	O-2-TS4C			
7	-0.61016000	1.40162700	0.11210100				
8	-3.21602400	-2.69451900	-1.08112900				
8	-2.73435900	-0.41387000	2.51407800				
6	0.21441600	0.65235500	-1.99596600	25	-1.99694600	0.06451500	-0.08528500
1	0.19667000	1.31031000	-2.90005500	7	-0.34800100	1.29121600	-0.27225100
1	2.23393900	-1.06919600	-0.35707000	8	-4.17792000	-1.94251100	-0.18751600
6	0.36157100	1.53606300	-0.80836500	8	-1.48291800	-0.36666200	2.79132400
6	1.42716500	2.42701500	-0.61436500	6	-0.20963900	-0.06183400	-2.21851100

1	-0.15556300	0.22041900	-3.29231700	1	-1.62596900	1.79654100	-0.52330600
1	0.44787600	-1.00039700	-2.11266700	6	-1.91464300	-1.46421700	-0.59754000
6	0.36965300	1.00019000	-1.38314800	6	-3.27446400	-1.46846900	-0.25403300
6	1.59422400	1.64640900	-1.62745300	1	-3.99668500	-1.09938900	-0.98212700
1	2.17363100	1.36563400	-2.51006200	6	-3.65498800	-1.91383100	0.99784900
6	2.05172500	2.60332600	-0.74244300	1	-4.70882900	-1.92313500	1.28750600
1	3.01023700	3.10089300	-0.91308100	6	-2.66434300	-2.32108700	1.90355900
6	1.27847800	2.91908800	0.38439900	1	-2.91760200	-2.66617500	2.90767900
1	1.60706200	3.66168400	1.11320600	6	-1.34153600	-2.26452900	1.51142300
6	0.09531800	2.22870500	0.58148800	1	-0.53284500	-2.55097600	2.18884700
1	-0.53284600	2.41250700	1.45900100	6	2.49834100	-0.99590800	-1.17662800
6	-3.32463300	-1.16110900	-0.15205500	6	1.66229700	-1.59461700	1.20875200
6	-1.73117800	-0.19739600	1.66519600	1	0.33303000	0.43181200	-0.06932800
1	-0.02490800	-1.34916500	0.05457700	6	1.34095900	-3.28004200	-0.67082900
6	-3.11190200	1.39897200	0.22115900	8	1.57637500	-4.40614100	-0.84799600
8	-3.83837500	2.29805500	0.38314600	8	-0.02127000	-1.06933200	-1.99141200
8	-1.48711600	-0.40702200	-1.82941300	6	0.18631500	1.48439300	0.36322300
6	0.86216800	-2.07195000	-0.13485400	8	-0.59405600	2.22878500	-0.46223000
8	0.88915000	-2.54934000	-1.36720300	6	-0.44252300	1.24720400	1.73346300
6	0.67302300	-3.16613600	0.93550700	1	-1.46286700	0.86437400	1.58129400
1	0.57601300	-2.76894100	1.96025200	1	0.11224600	0.51822200	2.34481100
1	-0.23532600	-3.73830700	0.69619800	1	-0.51346600	2.19168400	2.29619400
1	1.52566000	-3.86323500	0.90751600	6	-3.83926700	2.12969200	-0.35028000
6	2.07295600	-1.20328000	0.24495000	1	-4.83650300	1.61446800	-0.43809800
6	2.10257200	-0.39901100	1.39205200	6	-3.77187700	2.68419900	1.07663700
6	3.19389100	-1.20552300	-0.59225300	1	-3.79376200	1.86003900	1.80748500
6	3.22056500	0.37477000	1.69695600	1	-2.82234000	3.22537700	1.22140400
1	1.22389700	-0.37024400	2.04816800	1	-4.60020400	3.37451400	1.31360600
6	4.31916300	-0.43946300	-0.28760600	6	-3.86038900	3.28147200	-1.36011900
1	3.12504600	-1.83103500	-1.48852800	1	-2.91964700	3.85204600	-1.29572500
6	4.33875700	0.35633000	0.85935000	1	-3.93077000	2.88580100	-2.38421300
1	3.21822600	1.00832000	2.59034700	1	-4.69799700	3.98315400	-1.20193500
1	5.19039200	-0.45686100	-0.95174600	8	-2.83036500	1.24474200	-0.60966400
1	5.21685000	0.96465200	1.09790300	1	-1.78015300	0.02442900	-2.03797400
O-2-TS4C-PS				6	1.60577100	2.02223300	0.40506300
25	0.94570600	-1.57794900	-0.43684600	6	2.52435500	1.65842300	1.39903100
7	-0.97179300	-1.84373700	0.28217100	6	2.04565300	2.85684900	-0.62917100
8	3.48683100	-0.60427300	-1.62811600	6	3.84537200	2.10256800	1.35157200
8	2.06676300	-1.62798300	2.30223300	1	2.21388900	1.00871600	2.22084300
6	-1.38638500	-1.00984100	-1.91081100	6	3.36492800	3.30234400	-0.67770500
1	-1.88582900	-1.60737100	-2.71081400	1	1.31761100	3.13761800	-1.39240700
				6	4.27434300	2.92481300	0.31042100
				1	4.54549700	1.79992800	2.13588700

1	3.68954500	3.94800600	-1.49943800	6	1.42846300	-1.24379900	-0.72540900
1	5.31179600	3.26892500	0.26997900	6	2.69167300	-1.88075400	-0.60228000
O-2-TSII				1	3.40144900	-1.80019600	-1.43053000
				6	2.99972100	-2.59407800	0.53264400
				1	3.96709400	-3.09753900	0.62333500
25	-0.99576800	0.59934900	-0.16318400	6	2.04893100	-2.68043000	1.57736500
7	1.04523400	0.81865900	0.06470100	1	2.25534600	-3.22649400	2.49897500
8	-3.79384400	-0.17219500	-0.77189600	6	0.82784000	-2.05716400	1.39428900
8	-1.39479500	0.45781700	2.76417300	6	-2.78893500	0.29174300	-0.86347800
6	0.88448700	-0.45469800	-1.91153700	1	1.53004400	-0.50363000	-2.73737400
1	1.27834800	-0.45271900	-2.94792300	6	2.99923700	2.07159900	-0.01811400
1	0.89956300	-1.63537900	-1.57495700	8	1.79170400	1.92969000	-0.67881200
6	1.72788900	0.25097200	-0.97726600	1	0.49335200	1.46965000	0.17184800
6	3.14096700	0.28986900	-0.99448700	6	-0.93960200	2.61372500	0.79029400
1	3.66905700	-0.17014500	-1.83370300	8	-0.37098300	1.32029900	0.67323800
6	3.82647100	0.89731500	0.03569600	1	1.62050400	0.76567600	-1.27445800
1	4.91961200	0.93723200	0.02370300	1	0.05228400	-2.11148900	2.16582400
6	3.10482300	1.47093500	1.10391100	6	-2.07726500	-0.82574100	1.36922900
1	3.60730200	1.95318000	1.94354400	6	-1.87636700	-2.07636900	-0.90295400
6	1.72312300	1.40261400	1.06369300	8	-2.53362900	-1.02087700	2.42508700
1	1.11424600	1.83042300	1.86723100	8	-2.22783000	-3.08888600	-1.35569100
6	-2.70044400	0.13306100	-0.53841600	6	-2.19233500	2.53067200	1.63233600
6	-1.28018500	0.54099300	1.60638200	1	-2.58896700	3.53479800	1.84454100
1	-0.40279000	-1.47624300	0.26964300	1	-2.98247200	1.96366000	1.11809600
6	-1.32800500	2.32854800	-0.24619100	1	-1.99095400	2.02768600	2.58865000
8	-1.53361100	3.47388200	-0.33171400	6	-1.16414000	3.24822700	-0.56976400
8	-0.44524500	-0.11254800	-1.82864500	1	-1.93111700	2.70744000	-1.14118000
6	0.04843200	-2.53535300	0.23097000	1	-1.48881800	4.29613000	-0.46949000
8	0.35336200	-2.89612100	-1.02698300	1	-0.22870800	3.21742700	-1.14486000
6	1.25525800	-2.45113600	1.17855500	6	4.16675600	1.58566200	-0.87266900
1	2.04807200	-1.81855700	0.75152400	1	5.14416500	1.79086000	-0.40598100
1	0.99193800	-2.03856800	2.16876700	1	4.09678300	0.49677300	-1.03056700
1	1.68616200	-3.45670200	1.32304100	1	4.14567700	2.06822100	-1.86088400
6	-1.03441200	-3.43468700	0.83024800	6	3.00953500	1.38406600	1.34670600
1	-1.33519700	-3.12507400	1.84605900	1	3.94271300	1.57466800	1.90289700
1	-1.92467500	-3.42424600	0.18435000	1	2.16739300	1.72813400	1.96539700
1	-0.67142200	-4.47482300	0.87658100	1	2.90541900	0.29241600	1.23490500
O-2-TSII-PS				1	3.17304700	3.16060500	0.16911300
				25	-1.32003700	-0.53795000	-0.23897900
8	-3.76339800	0.77815500	-1.27289600	8	-0.27827500	-0.01435300	-1.81130900
7	0.50501700	-1.36692900	0.28869300	1	-0.20111500	3.24233000	1.33594000
6	1.04015000	-0.33604300	-1.75611000				

O-2-2I				6	-1.87037800	-0.08019200	-0.97560200
25	-0.78844700	-0.57614900	0.02286600	6	-3.24860400	0.16060500	-0.98887300
7	1.30334500	-0.37355400	0.28727700	1	-3.71407100	0.52532300	-1.90815900
8	-0.88755000	-3.28410200	1.22415900	6	-3.99802700	-0.06258400	0.15893700
8	-3.57899300	-0.58110700	-0.94331300	1	-5.07700600	0.11656500	0.16298500
8	-1.47650900	0.64353800	2.62176200	6	-3.35092300	-0.52117000	1.30874300
6	1.10014500	-0.96449100	-2.03732300	1	-3.89510300	-0.70692400	2.23649200
1	1.03012300	-0.08436900	-2.73024400	6	-1.97984700	-0.73411100	1.25266100
1	1.73362300	-1.70100800	-2.60334300	1	-1.42147500	-1.07728500	2.12921900
6	1.94552500	-0.48080000	-0.88956800	6	2.52667200	-0.45826000	-0.56876200
6	3.30656700	-0.16617800	-0.98635700	6	1.15696200	-0.54153000	1.64388600
1	3.80543400	-0.26175400	-1.95523700	1	0.67377200	1.15050800	-0.16736100
6	4.00036000	0.25465500	0.14030100	6	0.87855700	-2.46499100	-0.11576800
1	5.06440300	0.50229700	0.07951100	8	0.93878500	-3.62761400	-0.10281800
6	3.31855700	0.34960100	1.35587700	8	0.22314000	-0.54273100	-1.99922600
1	3.81934200	0.67552200	2.26969500	6	0.60285200	2.42147900	0.01636400
6	1.96792300	0.02332300	1.37644800	8	0.35470600	3.02176600	-1.07947000
1	1.37982700	0.09576900	2.29774900	6	-0.50031100	2.48118600	1.09121500
6	-0.85514700	-2.22009700	0.75181000	1	-1.47826700	2.25005200	0.64186700
6	-2.48842100	-0.59764600	-0.54583900	1	-0.32840800	1.80543200	1.94602300
6	-1.22335700	0.18780800	1.57172100	1	-0.55901100	3.51455200	1.47328800
8	-0.07544300	-1.48567500	-1.64658100	6	1.99337900	2.67096000	0.62670600
6	-0.65380800	2.38905700	-0.76060700	1	2.20821800	2.04546100	1.50862900
6	0.30265400	2.89471200	0.32626100	1	2.76700100	2.49135200	-0.13253700
1	0.21395000	3.98166300	0.49976300	1	2.06057500	3.73074900	0.92475800
1	0.10783000	2.39070000	1.28713200	O-2-TS2I			
1	1.34552200	2.67894200	0.04375800	25	0.78748100	-0.70948700	-0.08843600
6	-2.10239800	2.72084300	-0.39285900	7	-1.27323900	-0.50356100	0.15693200
1	-2.78453400	2.34229600	-1.16862200	8	3.59681100	-0.34962100	-0.92295900
1	-2.38939300	2.24365500	0.55776400	8	1.35683100	-0.33796400	2.78311000
1	-2.27046300	3.80628400	-0.28267500	6	-0.91728800	0.10348400	-2.11677100
8	-0.45049800	1.08158100	-1.08949600	1	-1.47540100	-0.05970700	-3.07195600
1	-0.42755900	3.01000700	-1.66928500	1	-0.68853100	1.20269700	-2.10664500
O-2-3I				6	-1.87444800	-0.08204300	-0.97513400
25	0.80525900	-0.67076400	-0.10212500	6	-3.24559800	0.19010900	-0.99725900
7	-1.26036900	-0.52332400	0.14316300	1	-3.70292400	0.53319200	-1.92910800
8	3.63216700	-0.29818000	-0.88315100	6	-4.00055900	0.02635100	0.15827000
8	1.34659300	-0.42748100	2.79297200	1	-5.07488200	0.23190500	0.15638300
6	-0.92386500	0.17891500	-2.10693900	6	-3.36263600	-0.40737500	1.32205000
1	-1.46282000	-0.00942300	-3.06728900	1	-3.90984900	-0.54873200	2.25601200
1	-0.76423100	1.28809300	-2.07880200	6	-1.99693500	-0.65762800	1.27257600

1	-1.44700700	-0.98609800	2.16025100				
6	2.49800000	-0.51792400	-0.58560100	O-2-TS3I			
6	1.15498900	-0.51387400	1.64208500	25	-1.62984400	-0.22294300	-0.14731600
1	0.72354800	1.03233100	-0.19646400	7	0.13365700	-1.33577700	-0.12916900
6	0.82485800	-2.51680300	-0.04170400	8	-3.80248300	1.64741200	0.55614600
8	0.87449700	-3.67842600	0.01911400	8	-1.07762400	1.10561900	-2.72492600
8	0.17083300	-0.69520000	-1.99992800	6	-0.50737600	-1.28911400	2.16216800
6	0.66778800	2.52002700	-0.01502300	1	-0.49431000	-2.02124000	3.00685200
8	0.43996000	3.06266200	-1.11693300	1	-0.02487000	-0.36592400	2.58495700
6	-0.44562400	2.52785700	1.03580100	6	0.45415900	-1.76169600	1.10997500
1	-1.41193900	2.29561600	0.56531200	6	1.60286700	-2.52529900	1.33108400
1	-0.27203300	1.83654000	1.87453900	1	1.82797800	-2.86554800	2.34548900
1	-0.52321000	3.55106800	1.44357200	6	2.44049700	-2.83171400	0.26502000
6	2.06834900	2.66028900	0.58266800	1	3.34488900	-3.42748000	0.41943300
1	2.24189800	2.01278200	1.45465200	6	2.11276300	-2.35688200	-1.00492400
1	2.82556000	2.44431300	-0.18208300	1	2.74957200	-2.55002600	-1.87013500
1	2.20356700	3.70978000	0.89693700	6	0.94918200	-1.61308400	-1.15442500
				1	0.64866700	-1.21615400	-2.12904900
				6	-2.96915600	0.89461000	0.25908200
O-2-3				6	-1.31065800	0.57373000	-1.70673400
25	0.95960400	-0.04284500	-0.11702200	1	-0.62092700	0.97604800	0.60953100
7	-1.09799100	0.20718400	-0.07359300	6	-2.68228500	-1.50053700	-0.87424600
8	3.60360900	-1.10943100	-0.86743700	8	-3.37027400	-2.30050200	-1.36486400
8	1.45873400	2.65982000	-1.18005600	8	-1.74760900	-1.08424800	1.66138900
6	-0.83510000	-2.14450900	-0.28743300	6	0.31599000	2.12759500	1.07799600
1	-1.38079900	-3.06304700	0.05413900	8	0.39518200	2.11628500	2.32131100
1	-0.72965700	-2.27769900	-1.41120900	6	-0.49498800	3.23645800	0.41794400
6	-1.76228500	-0.96755400	-0.15508500	1	-0.77246200	3.04148300	-0.62665300
6	-3.15727400	-1.00855900	-0.14188800	1	-1.41364400	3.39019900	0.99700500
1	-3.65961800	-1.97865900	-0.19941000	1	0.08981300	4.17112100	0.45637900
6	-3.88590800	0.17546800	-0.06197900	6	1.50952300	1.60645700	0.28536600
1	-4.97967100	0.16135200	-0.04880200	6	1.71138900	1.84228600	-1.08108900
6	-3.18738400	1.38213400	0.00301000	6	2.49555700	0.90320400	0.98834500
1	-3.70722300	2.34058300	0.06653500	6	2.86751000	1.39196000	-1.72044100
6	-1.79765100	1.34813600	-0.00282800	1	0.96002400	2.38127200	-1.66160100
1	-1.20695800	2.26821000	0.04742200	6	3.64314100	0.44159100	0.35105700
6	2.57990200	-0.66460600	-0.53491600	1	2.32531500	0.74553000	2.05763800
6	1.29018300	1.58893600	-0.73118900	6	3.83993400	0.69040800	-1.00858400
1	0.70328500	-0.45532900	-1.67819800	1	3.00673200	1.59221500	-2.78719400
6	1.28486800	0.35814000	1.63184500	1	4.39402400	-0.11802200	0.91823100
8	1.55013400	0.65822300	2.72816900	1	4.74388500	0.33417000	-1.51181200
8	0.32256800	-1.93112400	0.35595000				

O-2-4I				25	-0.37917700	1.01134500	0.12985900
25	-1.54948200	-0.47427800	0.21118400	7	-2.08791800	-0.22507200	0.27634800
7	-0.52263700	1.27154100	0.56937200	8	-1.63025000	3.10018300	1.81546700
8	-2.57419300	-2.95536000	-1.03796800	8	1.84155100	2.81891800	-0.60754100
8	-0.16426400	-1.98967000	2.34360100	8	0.95700600	-0.14058000	2.50256200
6	-1.83355900	1.87598900	-1.33449600	6	-2.29144400	0.72621700	-1.92223300
1	-2.70814600	2.52187000	-1.02659800	1	-1.82175400	0.09833700	-2.72487300
1	-1.53527900	2.26173500	-2.33397000	1	-3.21754100	1.13767600	-2.40756500
6	-0.73016000	2.20714400	-0.37977800	6	-2.76245000	-0.26068200	-0.88708800
6	-0.00665500	3.40619900	-0.38170000	6	-3.82449100	-1.15640900	-1.06337400
1	-0.20843100	4.14134000	-1.16421900	1	-4.35418000	-1.17047600	-2.02031400
6	0.97459800	3.61573700	0.56988900	6	-4.19528600	-2.00092400	-0.02530600
1	1.56704400	4.53508900	0.56786600	1	-5.02549600	-2.70297900	-0.14753800
6	1.21500000	2.61783400	1.52124000	6	-3.49591100	-1.93342500	1.18242000
1	1.99969600	2.71957500	2.27288300	1	-3.75107200	-2.57401700	2.02875100
6	0.44868000	1.46645100	1.48029200	6	-2.44774200	-1.02783700	1.28213300
1	0.61488200	0.65598600	2.19585500	1	-1.85278200	-0.94729000	2.19834200
6	-2.19424400	-1.98099400	-0.53416500	6	-1.12974600	2.28638700	1.14976700
6	-0.71006600	-1.40130600	1.49520200	6	0.99486300	2.08352300	-0.30858400
1	-0.02301400	-0.59066500	-0.84031500	6	0.47157100	0.30800800	1.53720100
6	-2.98836700	-0.18779300	1.22256800	8	-1.50345200	1.68887500	-1.41100600
8	-3.92373400	-0.00744500	1.89254500	6	0.86700200	-1.52788900	-1.00570700
8	-2.12442400	0.55182200	-1.35757500	6	0.18640100	-2.55156000	-0.09424100
6	0.86335000	-0.33202300	-1.63563600	1	0.71424100	-3.51968800	-0.07067500
8	0.83191700	0.88861200	-2.04476500	1	0.10945000	-2.18833100	0.94341200
6	0.54770700	-1.39034900	-2.70659600	1	-0.83384400	-2.73723800	-0.46151100
1	0.49733100	-2.42028200	-2.31796400	8	0.12352500	-0.40924700	-1.24118700
1	-0.42709700	-1.13740100	-3.14643800	1	1.00364700	-2.06149600	-1.98640400
1	1.31021000	-1.34827400	-3.50001500	6	2.29715400	-1.20575200	-0.56744400
6	2.06464400	-0.69789400	-0.74675700	6	2.95387500	-0.15760400	-1.22766600
6	2.17501400	-1.91856100	-0.07132400	6	2.98843100	-1.86727600	0.45392800
6	3.06413200	0.26072800	-0.55852100	6	4.24864400	0.21674600	-0.88580600
6	3.25508200	-2.17672100	0.77066400	1	2.39627600	0.38184200	-1.99846000
1	1.38249100	-2.66739700	-0.18056900	6	4.28807000	-1.49514700	0.80490100
6	4.15211000	0.00648300	0.27567500	1	2.50107200	-2.67058000	1.01315100
1	2.92742200	1.21309200	-1.07987200	6	4.92638300	-0.45309800	0.13630300
6	4.25213300	-1.21399100	0.94546300	1	4.72771500	1.05128600	-1.40677000
1	3.31389700	-3.12914700	1.30629800	1	4.79982700	-2.01631200	1.62010900
1	4.92663600	0.76862800	0.41385700	1	5.94030800	-0.15369200	0.41785000
1	5.09906200	-1.41325800	1.60916500				

O-2-TS4I

O-2-5I	25	-0.53392600	0.88921300	-0.36398800
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7	-2.27842900	-0.01352000	0.37343200	6	2.14709900	-0.10312200	-1.61751600
8	-1.94864900	3.39295800	-0.97386500	6	2.63535700	-0.67364900	-0.40531300
8	1.90468000	1.89497600	-1.70852800	6	3.99116200	-0.71167300	0.01663300
8	0.29231900	1.79038700	2.33685400	1	4.76844800	-0.42015400	-0.69535500
6	-1.81130000	-1.12942200	-1.62065900	6	4.30921600	-1.12566800	1.28861000
1	-0.80813200	-1.54418400	-0.75557400	1	5.35414500	-1.16998600	1.61000000
1	-2.13052500	-1.81835500	-2.42437000	6	3.27231600	-1.50635700	2.17363500
6	-2.68830300	-0.99234200	-0.50713100	1	3.47765700	-1.83082400	3.19473700
6	-3.78416600	-1.82660000	-0.15222100	6	1.97291200	-1.47150900	1.70190800
1	-4.11741600	-2.59007300	-0.86109200	6	-1.72242700	-1.14566500	-1.45688600
6	-4.42861100	-1.64097800	1.04941700	1	2.86093200	-0.11548300	-2.46632300
1	-5.29201000	-2.26226200	1.30990800	6	2.56663600	3.00542900	0.08926600
6	-3.98847000	-0.63146200	1.93655300	8	1.69280700	2.32536700	-0.74316900
1	-4.46602900	-0.46371600	2.90293900	1	0.50487900	1.45164800	-0.09795500
6	-2.90989900	0.14476600	1.53816100	6	-1.37418500	1.88676700	-0.23414400
1	-2.51896400	0.93605200	2.18897000	8	-0.35412900	0.99679300	0.18825200
6	-1.37592400	2.41085700	-0.72802600	1	2.12753200	1.17090500	-1.19759300
6	0.96650200	1.47653300	-1.16557300	1	1.13977200	-1.77799600	2.34319600
6	-0.01511300	1.45176000	1.26337700	6	-1.05811100	-1.71846100	0.99725000
8	-1.13152100	-0.01531100	-2.02431100	6	0.11183800	-2.83686000	-1.00773000
6	1.31405200	-1.53472000	-0.71119200	8	-1.54938500	-2.10491500	1.98225200
6	1.40036200	-3.05541800	-0.82213300	8	0.33511500	-3.92112400	-1.36412400
1	2.30349900	-3.37731800	-1.36276000	6	-1.32192300	2.15577100	-1.72543500
1	1.41873100	-3.50943900	0.18046400	1	-1.59212200	1.27072900	-2.31644600
1	0.52235900	-3.44606500	-1.35730000	1	-1.99679100	2.98044200	-2.00115900
8	0.15595800	-1.17011600	-0.03080200	1	-0.29629300	2.43924700	-1.99232900
1	1.30017100	-1.12770500	-1.74900000	6	3.99539500	2.97026000	-0.44419500
6	2.54083600	-0.98013500	-0.01788600	1	4.67755700	3.60315900	0.14621700
6	3.74361100	-0.80200700	-0.70982400	1	4.39041300	1.94142100	-0.41693900
6	2.49322900	-0.64024800	1.33734300	1	4.02328600	3.31217800	-1.48927200
6	4.87117700	-0.29573900	-0.06766600	6	2.51184000	2.49711700	1.52827900
1	3.78354400	-1.03806700	-1.77887900	1	3.15464100	3.08446200	2.20481400
6	3.61642100	-0.12541400	1.98242300	1	1.48297100	2.53851200	1.91649200
1	1.54555900	-0.76506400	1.86608800	1	2.83901900	1.44578100	1.58378400
6	4.81113800	0.04703600	1.28437800	1	2.26318600	4.08135100	0.11475400
1	5.79883800	-0.14901800	-0.62873800	25	-0.19828600	-1.17782600	-0.49020200
1	3.55187200	0.15647300	3.03740500	8	0.85465500	-0.36783700	-1.93694200
1	5.69011100	0.46112000	1.78678900	1	-1.17655400	2.85731100	0.27640400
				6	-2.70082800	1.38952200	0.29195900
				6	-2.77512100	0.88733500	1.59795700
				6	-3.87251900	1.42066500	-0.47184500
O-2-TS4I-PS				6	-3.97773500	0.42234000	2.12058100
8	-2.69251600	-1.19777100	-2.09482000	1	-1.85955100	0.83763400	2.19202300
7	1.64292500	-1.08050300	0.45977000				

6	-5.08218700	0.96397000	0.05153200	6	-2.58905100	0.57420200	0.88245300
1	-3.83786500	1.77628100	-1.50395100	6	-3.74737100	1.34766800	0.95208000
6	-5.14046500	0.46115400	1.34899400	1	-3.88843200	2.02600100	1.79567700
1	-4.00350200	0.01089100	3.13329100	6	-4.68761000	1.26194300	-0.06666000
1	-5.98197900	0.98430800	-0.56967200	1	-5.59615300	1.86675400	-0.03410100
1	-6.08511400	0.08904500	1.75509300	6	-4.44315500	0.40600200	-1.13876900
N-1-1dimer				1	-5.14660700	0.31459900	-1.96722700
				6	-3.27505800	-0.34365000	-1.13646900
				1	-3.04960700	-1.04038600	-1.94893000
				7	-2.37037200	-0.26755900	-0.14885600
				N-1-2dis			
25	0.66758800	1.46869200	-0.07938700	25	-1.02931700	-0.01260500	-0.16187300
6	-0.80812400	2.37030400	-0.56048800	7	1.61490000	-2.99255900	0.06936500
8	-1.71615500	2.97607800	-0.95646800	1	1.14671800	-3.85115100	-0.20448700
6	1.05937000	2.61859600	1.25573300	7	0.93785700	0.53106200	-0.14522800
8	1.29099800	3.31813700	2.15218300	8	-1.47035900	0.04914400	2.79419600
6	1.58111000	2.42442300	-1.31418100	8	-3.51397400	-1.41832300	-0.91821100
8	2.17179900	3.04850600	-2.09194300	8	-2.16802600	2.62914300	-0.69076100
7	0.26094600	-0.16304800	-1.29740900	6	0.93785600	-1.83653800	-0.42976800
1	-0.39579000	0.04541000	-2.05000200	1	-0.08932500	-1.70773800	0.04938200
6	1.50134300	-0.60055100	-1.90861200	1	0.73811800	-1.96281400	-1.50629200
1	1.80971900	0.07349100	-2.73700500	6	1.71289600	-0.56845200	-0.23558800
1	1.44577400	-1.61172500	-2.36071300	6	3.10049800	-0.50009500	-0.19630400
6	2.58905000	-0.57420900	-0.88244300	1	3.67654100	-1.42457400	-0.25808800
6	3.74736700	-1.34767900	-0.95206200	6	3.70580500	0.75055700	-0.08402400
1	3.88842700	-2.02601700	-1.79565200	1	4.79369100	0.83855300	-0.05435200
6	4.68760600	-1.26194700	0.06667700	6	2.90024400	1.88537800	-0.01757800
1	5.59614900	-1.86676000	0.03412300	1	3.33230100	2.88363200	0.06566800
6	4.44315300	-0.40599600	1.13877900	6	1.51889200	1.73451300	-0.04639900
1	5.14660500	-0.31458700	1.96723600	1	0.84607700	2.59338400	0.01653700
6	3.27505700	0.34365700	1.13647300	6	-1.26121300	0.01184100	1.65475000
1	3.04960600	1.04039600	1.94892700	6	-2.55925800	-0.85867800	-0.57898400
7	2.37037000	0.26755800	0.14886100	6	-1.75112700	1.57283900	-0.45593300
25	-0.66759100	-1.46869700	0.07938700	1	-0.86323100	-0.06525900	-1.75867000
6	0.80812100	-2.37030900	0.56048600	1	1.67403800	-2.98633100	1.08533600
8	1.71615500	-2.97607900	0.95646500	N-1-2intra			
6	-1.05937300	-2.61858600	-1.25574400				
8	-1.29096900	-3.31809300	-2.15222900				
6	-1.58111300	-2.42442900	1.31418000				
8	-2.17180300	-3.04851200	2.09194200				
7	-0.26094600	0.16304200	1.29740800	25	0.89438400	-0.08458200	-0.04614300
1	0.39579500	-0.04541700	2.04999700	S 41			
6	-1.50134100	0.60054100	1.90861900				
1	-1.80971200	-0.07350400	2.73701000				
1	-1.44577000	1.61171300	2.36072200				

7	0.20253000	-1.71613800	0.96815000	1	1.18016500	-2.23922400	0.03804400
1	0.90482200	-2.45666600	1.04201700	6	-1.24454200	-0.10497600	1.65030400
7	-1.16027100	0.30901300	0.06379900	6	-1.26312300	-1.67592200	-0.54801300
8	1.66186600	1.64194400	2.21436900	6	-2.64836300	0.55059100	-0.53379900
8	1.37356200	1.92418500	-2.18163400				
8	3.60007100	-1.25495700	-0.26315900				
6	-0.44543500	-1.83268800	-0.28943400	N-1-TS1intra			
1	-0.63122600	-2.84185700	-0.69541800				
1	0.18279100	-1.37553300	-1.19388700	25	0.89638100	-0.03593800	-0.09008700
6	-1.63510100	-0.92263100	-0.19925800	7	0.27387400	-1.99477700	0.72268900
6	-2.99321800	-1.18660300	-0.28852200	1	0.91169400	-2.78545400	0.61916900
1	-3.34690700	-2.19424100	-0.51426300	7	-1.12845600	0.26447400	0.11815100
6	-3.87965400	-0.12886000	-0.07988500	8	1.70288900	0.96749900	2.61573700
1	-4.95763400	-0.29424700	-0.13915700	8	1.42216200	2.46433000	-1.54082300
6	-3.37944800	1.14042000	0.20562600	8	3.48940900	-1.18711700	-0.91713900
1	-4.04836800	1.98432200	0.37890900	6	-0.66281300	-2.01753500	-0.16833400
6	-2.00020300	1.32340000	0.26497300	1	-0.82660000	-2.85205200	-0.87318400
1	-1.55329300	2.29966400	0.47337400	1	0.45039300	-0.55857800	-1.57387100
6	1.38705500	0.96558900	1.31866800	6	-1.67423700	-0.94224300	-0.13621700
6	1.18508100	1.15219800	-1.33971700	6	-3.03839900	-1.11249100	-0.33523200
6	2.54599200	-0.78522000	-0.18882500	1	-3.43772300	-2.09967600	-0.57637300
				6	-3.87053800	0.00202900	-0.21328200
				1	-4.94853900	-0.09441500	-0.35575600
N-1-3intra				6	-3.30418600	1.23670800	0.08886300
				1	-3.92057600	2.13065100	0.19237000
25	-0.96272100	0.05724900	-0.15522100	6	-1.92035300	1.32996200	0.23693700
7	-0.30353800	1.92381200	-0.23182700	1	-1.42482200	2.28523100	0.43043900
1	-0.88349500	2.75918100	-0.30363400	6	1.37423400	0.56730600	1.58260600
7	1.09014400	-0.17150800	-0.09220700	6	1.24277400	1.48361400	-0.94989500
8	-1.46714500	-0.25028800	2.77646200	6	2.49569200	-0.70949000	-0.56522700
8	-1.40540200	-2.77851400	-0.87071500				
8	-3.70555100	0.91528000	-0.83161600				
6	0.97458100	2.15639900	-0.23641600	O-1-ldimer			
1	1.40549300	3.16167400	-0.30664000				
1	-0.88482600	-0.02908200	-1.75664300	25	0.619698	1.465575	-0.065400
6	1.80616500	0.99066900	-0.15222300	6	-0.869866	2.354908	-0.563923
6	3.20736800	1.00586400	-0.13393300	8	-1.772778	2.956562	-0.967171
1	3.73050300	1.96294900	-0.18744900	6	0.998310	2.624635	1.259268
6	3.89719100	-0.19229100	-0.04974600	8	1.249177	3.327390	2.145084
1	4.98837400	-0.20912700	-0.03430100	6	1.518377	2.458302	-1.271077
6	3.16112700	-1.38062300	0.01516500	8	2.097440	3.107129	-2.035082
1	3.65634000	-2.35007800	0.08472300	6	1.431416	-0.522253	-1.887381
6	1.77526600	-1.32395500	-0.00773600	1	1.680573	0.172992	-2.719911

1	1.355772	-1.524783	-2.355155		1	0.75775200	-2.01107900	-1.51234700
6	2.568142	-0.509292	-0.900509		6	1.71096300	-0.57801900	-0.24151600
6	3.733345	-1.266076	-1.004110		6	3.09791600	-0.51534000	-0.19727400
1	3.880404	-1.913324	-1.871283		1	3.67574500	-1.43905100	-0.26290000
6	4.672148	-1.208223	0.019692		6	3.70727200	0.73326900	-0.07973800
1	5.586520	-1.803202	-0.033764		1	4.79512000	0.81871800	-0.04724600
6	4.417959	-0.399933	1.126142		6	2.90317600	1.86898100	-0.01447600
1	5.117401	-0.341401	1.960925		1	3.33746100	2.86598100	0.07131300
6	3.243309	0.340957	1.152531		6	1.52090500	1.72276000	-0.04754600
1	3.003535	0.996828	1.993703		1	0.85108400	2.58386900	0.01558100
7	2.348682	0.294988	0.158281		6	-1.25965300	0.00370500	1.65543600
25	-0.619693	-1.465566	0.065372		6	-2.57124200	-0.85630800	-0.57655600
6	0.869866	-2.354941	0.563821		6	-1.74695900	1.56537800	-0.45435400
8	1.772796	-2.956617	0.967000		1	-0.87010900	-0.07371100	-1.75866800
6	-0.998357	-2.624586	-1.259321		1	1.71564600	-2.87881900	0.99524000
8	-1.249244	-3.327314	-2.145151		8	1.56016600	-2.99225500	0.04908300
6	-1.518363	-2.458310	1.271043					
8	-2.097414	-3.107150	2.035046					
6	-1.431359	0.522240	1.887405	O-1-2intra				
1	-1.680487	-0.173015	2.719936					
1	-1.355703	1.524765	2.355188	25	0.90065200	-0.10496300	-0.04464200	
6	-2.568120	0.509285	0.900573	7	-1.15921000	0.30411100	0.03513700	
6	-3.733342	1.266031	1.004241	8	1.64744000	1.67405700	2.17875700	
1	-3.880392	1.913244	1.871441	8	1.39166100	1.92026100	-2.15278000	
6	-4.672177	1.208187	-0.019534	8	3.61620300	-1.27643600	-0.22390300	
1	-5.586563	1.803138	0.033971	6	-0.44983700	-1.85699500	-0.24311900	
6	-4.418002	0.399942	-1.126019	1	-0.64669400	-2.89248100	-0.58597700	
1	-5.117470	0.341421	-1.960781	1	0.17803600	-1.46139600	-1.16698700	
6	-3.243336	-0.340920	-1.152470	6	-1.64483200	-0.93160300	-0.19273000	
1	-3.003574	-0.996762	-1.993668	6	-3.00702100	-1.18352800	-0.25575500	
7	-2.348677	-0.294959	-0.158249	1	-3.37353600	-2.19262000	-0.45409200	
8	-0.251472	0.140188	1.271116	6	-3.88238400	-0.11293400	-0.06113100	
8	0.251509	-0.140191	-1.271133	1	-4.96261900	-0.27097700	-0.09829300	
				6	-3.36882600	1.15983600	0.17828900	
O-1-2dis				1	-4.02774300	2.01424100	0.33743700	
				6	-1.98591200	1.33150900	0.21221100	
25	-1.03138300	-0.02113800	-0.16276800	1	-1.52825300	2.31008200	0.38472500	
7	0.93622600	0.52107800	-0.14925000	6	1.38104700	0.97256100	1.30108100	
8	-1.46361100	0.04426700	2.79522900	6	1.21504500	1.13645900	-1.31968800	
8	-3.53372800	-1.40197000	-0.91239700	6	2.56246200	-0.81467800	-0.16176100	
8	-2.15796000	2.62378100	-0.68883100	8	0.22476300	-1.71979700	0.91153600	
6	0.94010400	-1.84944600	-0.43862800					
1	-0.08553900	-1.74546200	0.03622900					

O-1-3intra				1	-1.40354500	2.29676400	0.39106500
				6	1.39606000	0.57537700	1.57588000
25	0.94313900	-0.05232800	-0.15605100	6	1.25186000	1.45125300	-0.95722600
7	-1.07722600	0.18668400	-0.08914800	6	2.50170400	-0.74499000	-0.56744100
8	1.58141600	0.16413200	2.76023900	8	0.27931700	-1.98679600	0.68023600
8	1.41981900	2.79277800	-0.73661100				
8	3.64692500	-0.93205600	-0.99005400				
6	-0.94927100	-2.13356600	-0.18815900				
1	-1.36855300	-3.15458300	-0.22436900				
1	0.88723600	0.03823600	-1.75624100				
6	-1.79740700	-0.97663800	-0.13103000				
6	-3.19789800	-1.00180700	-0.11815000				
1	-3.71302100	-1.96428100	-0.15497400				
6	-3.89325500	0.19397100	-0.06127800				
1	-4.98417200	0.21065200	-0.05065600				
6	-3.15594100	1.38466700	-0.01800400				
1	-3.65496700	2.35377900	0.02916300				
6	-1.76999900	1.33876700	-0.03268600				
1	-1.18148700	2.25858200	-0.00227100				
6	1.30262000	0.04997800	1.64440900				
6	1.27452300	1.67382100	-0.47326200				
6	2.61234300	-0.57656000	-0.62533300				
8	0.27968500	-1.95695000	-0.19537300				

O-1-TS1intra

25	0.90011100	-0.05640400	-0.08247300
7	-1.12170500	0.26759200	0.12507400
8	1.73336300	0.99870700	2.59633000
8	1.42665900	2.42783300	-1.55573400
8	3.49294900	-1.21121400	-0.92942300
6	-0.68327300	-2.03130000	-0.08793900
1	-0.90516900	-2.95016800	-0.67608200
1	0.43544600	-0.62815600	-1.54515000
6	-1.68238200	-0.93761300	-0.11340700
6	-3.04508600	-1.10183600	-0.31995800
1	-3.44953500	-2.09052200	-0.54718100
6	-3.86847500	0.02307200	-0.22431900
1	-4.94626500	-0.06418700	-0.37345100
6	-3.28993500	1.25624000	0.05772400
1	-3.89758200	2.15837500	0.13965200
6	-1.90422400	1.34090000	0.21438700