Electronic Supplementary Information

A Theoretical Study on the Mechanism of Ruthenium(II)-Catalyzed Phosphoryl-Directed *ortho*-Selective C−H Bond Activations: the Hydroxy Group of Phosphoryl Triggered Ru(II)/Ru(0) Catalytic Cycle

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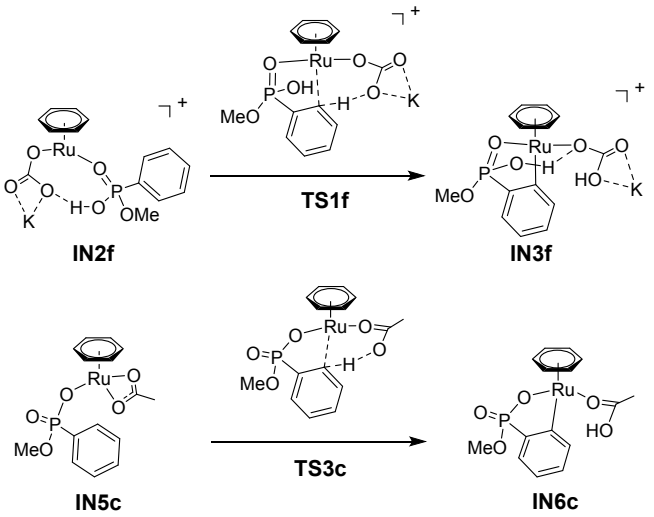
The Effects of Different Density Functionals:

It should be noted that different density functionals may vary from each other in predicting reaction barriers. Our evaluation of three typical density functionals (B3LYP, B3PW91 and PBE1PBE) showed that they predicted similar results and led to the same discussion and conclusions for the studied catalytic systems.

Table S1. Relative free energies (kcal mol^{-1}) using different functionals



Functional	**IN2f**	**TS1f**	**IN3f**	**IN5c**	**TS3c**	**IN6c**
B3LYP	0	23.8	2.1	0	21.9	9.5
B3PW91	0	23.1	8.8	0	21.4	9.5
PBE1PBE	0	25.7	11.4	0	24.6	13.1

The Effects of real substrates and model substrates:

Comparison of some relative energy values in the C-H activation process obtained with the model substrates and the real substrates is as follows. We examined the difference between explicit-solvation and polarizable continuum model (PCM) for the K^+-assisted transmetalation pathway. Assuming two ^{t}BuOH molecules coordinates to each potassium cation, we obtain the corresponding intermediates and transition states (**IN2f-real→TS1f-real→IN3f-real**). The activation barriers varied within 2 kcal mol^{-1}, demonstrating that the PCM approach can yield relative complexation energies comparable to the predictions based on molecular-level solvation, but at significantly lower computational cost.

Table S2. Relative free energies (kcal mol^{-1}) using model and real substrates

Substrate	**IN2f**	**TS1f**	**IN3f**	**IN5c**	**TS3c**	**IN6c**
Model	0	23.8	2.1	0	21.9	9.5
Real	0	21.8	3.2	0	19.3	9.1

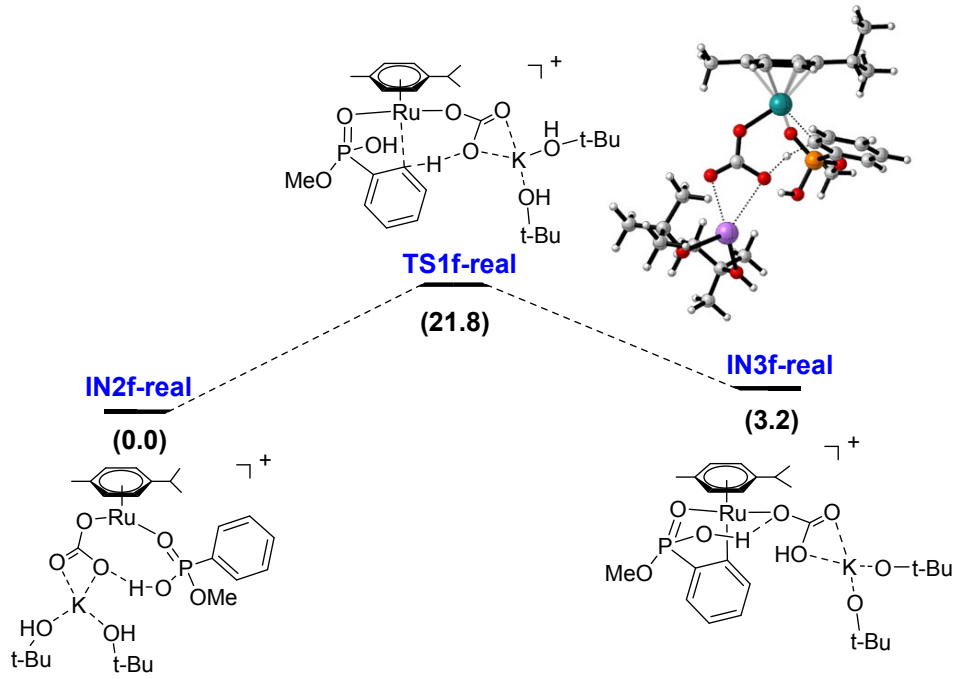


Fig. S1. Free energy profile (kcal mol^{-1}) for the C-H activation using real substrates with explicit-solvation.

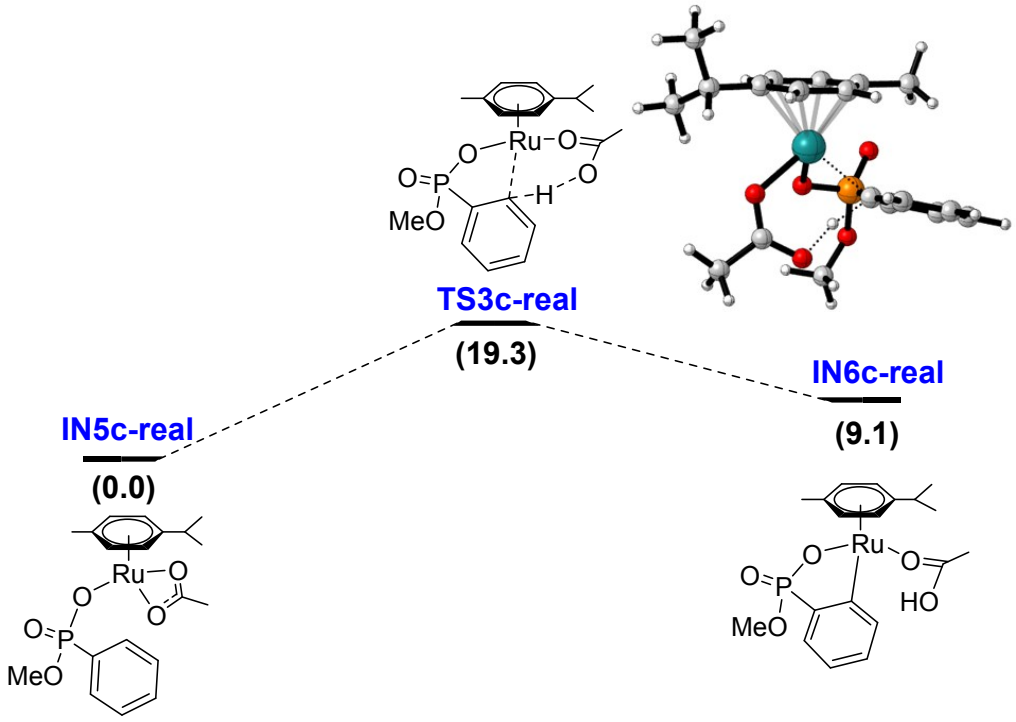
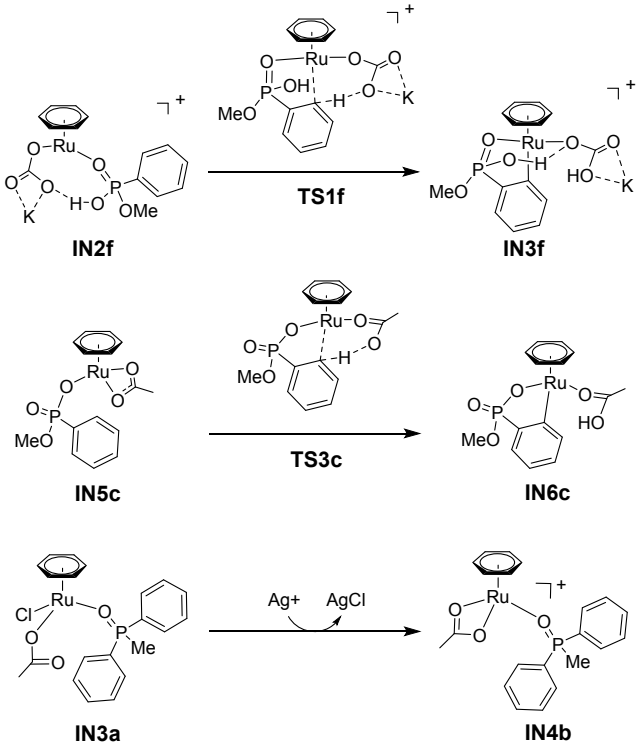


Fig S2. Free energy profile (kcal mol^{-1}) for the C-H activation using real substrates.

The Effects of different basis sets for K, Cl, P:

Table S3. Relative free energies (kcal mol^{-1}) using different basis sets for K, Cl, P



Basis set	IN2f	TS1f	IN3f	IN5c	TS3c	IN6c	IN3a	IN4b
6-31G(d)	0	23.8	2.1	0	21.9	9.5	0	-38.0
6-311G(d)	0	25.0	3.7	0	23.6	10.4	0	-42.2
TZVP	0	24.5	3.4	0	23.8	10.1	0	-42.5

The Comparison of Free Energy Profiles in Gas-phase and Solution-phase

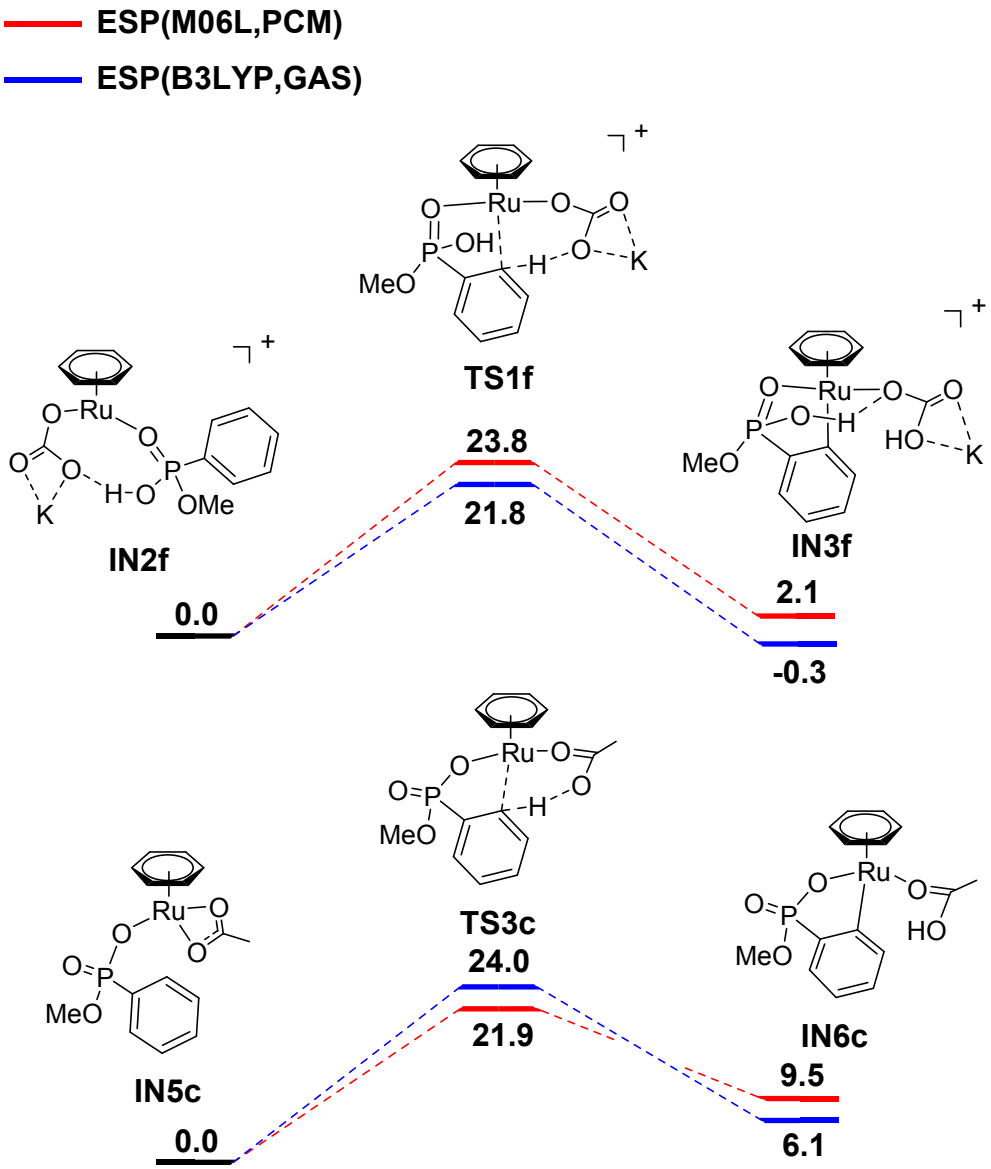
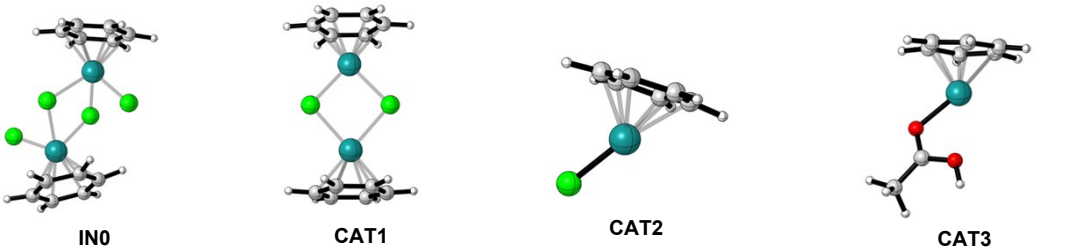
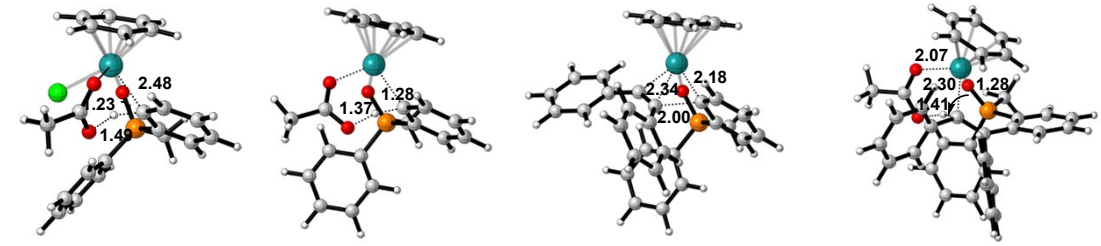


Fig. S3 Free energy profiles in gas-phase and solution-phase

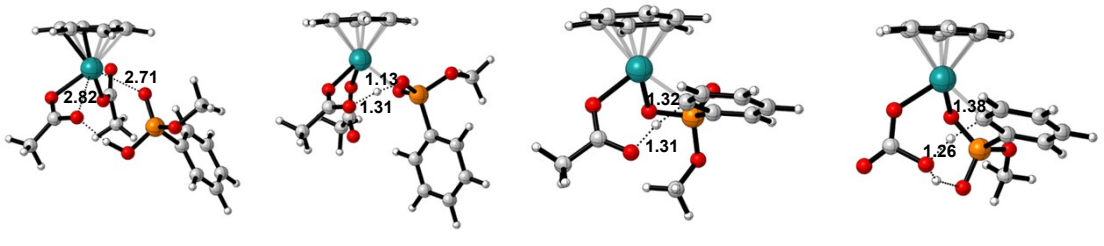
3D Optimized Structures:



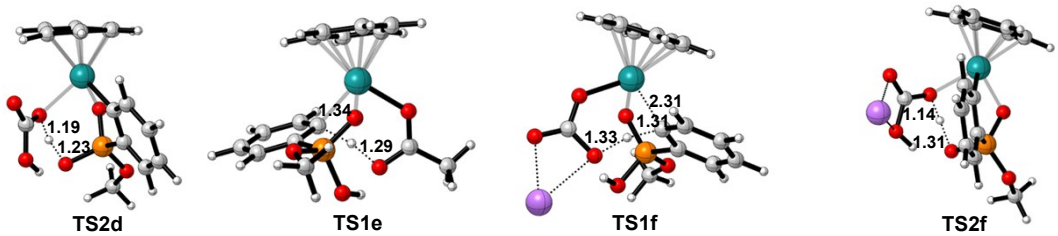
IN0 CAT1 CAT2 CAT3



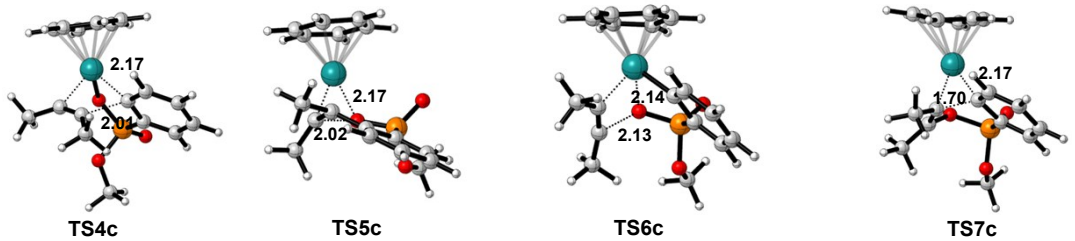
TS1a TS1b TS2a TS3a



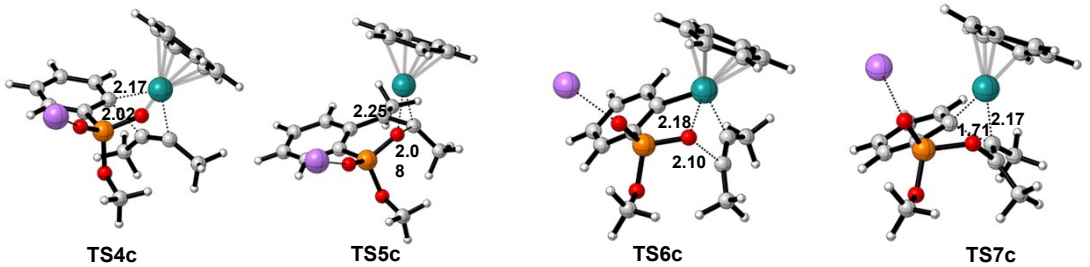
TS1c TS2c TS3c TS1d



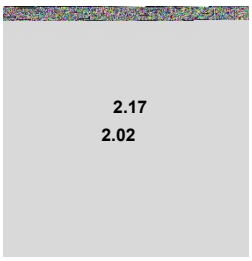
TS2d TS1e TS1f TS2f



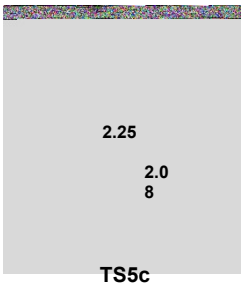
TS4c TS5c TS6c TS7c



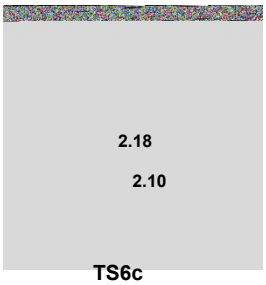
TS4c TS5c TS6c TS7c



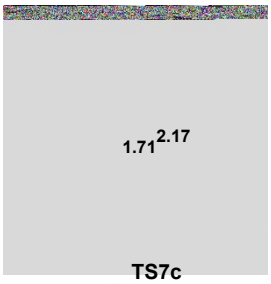
TS4c



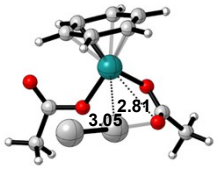
TS5c



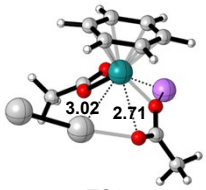
TS6c



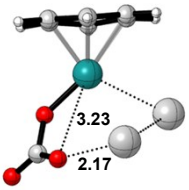
TS7c



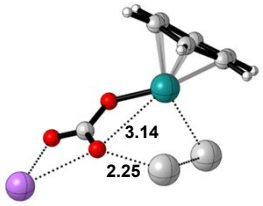
TS8g



TS9g

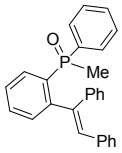


TS8h



TS9h

Energies of Intermediates and Transition States:

	Solvation Energies(Hartree)	Thermal Corrections of Gibbs Free Energies(Hartree)	Dispersion Corrections(kcal/mol)
IN0	-2495.5469513	0.160829	-61.5973
CAT1	-1574.6020208	0.160018	-47.0160
CAT2	-787.2816551	0.069590	-19.0505
CAT3	-555.9207868	0.125627	-24.2562
1,2-diphenylethyne	-539.5225444	0.154579	-29.6523
Ph_2P (O)Me	-919.9162392	0.183418	-40.5645
IN2a	-1707.2633696	0.275811	-70.1741
IN3a	-1935.991204	0.322841	-85.5814
TS1a	-1935.930202	0.318582	-87.2977
IN4a	-1935.983837	0.318996	-82.7257
IN4b	-1475.5880746	0.324033	-77.8730
TS1b	-1475.5409923	0.319680	-80.9897
IN5a	-1475.5634303	0.325125	-80.9265
IN6a	-1246.3973368	0.267233	-65.9178
IN7a	-1785.9520054	0.443717	-119.2570
TS2a	-1785.9348245	0.446026	-120.0636
IN8a	-1785.9690045	0.447906	-122.1540
TS3a	-2015.1002831	0.502958	-136.3040
IN9a	-2015.1625315	0.505920	-127.5954
	-1459.4887502	0.364210	-88.7592
but-2-yne	-156.0023915	0.057949	-5.7773
PhP(O)OMeOH	-839.370210105	0.115207	-24.8094
IN1c	-784.3850076	0.161617	-33.9245
IN2c	-1623.7677114	0.297911	-65.2719
TS1c	-1623.7545993	0.299727	-69.0792
IN3c	-1623.7611608	0.298546	-71.6881
TS2c	-1623.7602747	0.298655	-71.7907
IN4c	-1623.7649916	0.301431	-72.2877
IN5c	-1394.6210384	0.245662	-59.0272
TS3c	-1394.5739114	0.242468	-64.7148
IN6c	-1394.5981387	0.246736	-64.5403
IN1d	-591.1527861	0.082812	-21.7807
IN2d	-1430.5504492	0.221468	-57.9477
TS1d	-1430.4830800	0.220529	-62.4312
IN3d	-1430.5313878	0.223948	-61.1314

TS2d	-1430.5202031	0.221711	-62.0714
IN4d	-1430.5248868	0.225880	-62.5671
IN1e	−1384. 2364375	0. 225350	-39.5380
IN2e	−1395. 0613466	0. 334335	-59.9786
TS1e	−1395. 0091251	0. 328540	-63.9687
IN3e	−1395. 0307604	0. 333950	-63.2264
IN1f	-1191.0076314	0.079704	-23.9829
IN2f	-2030.3936471	0.217347	-59.9662
TS1f	-2030.348834	0.216921	-64.0230
IN3f	-2030.3850194	0.223031	-66.8834
TS2f	-2030.3739219	0.220932	-67.4418
IN4f	-2030.3778639	0.223025	-67.2914
IN7c	-1165.4278894	0.188362	-49.8973
IN8c	-1321.452021	0.268006	-69.6524
TS4c	-1321.4308835	0.269278	-69.5016
IN9c	-1321.4596653	0.270430	-68.2408
TS5c	-1321.442736	0.270187	-67.6876
TS6c	-1321.4161069	0.269191	-69.0428
IN11c	-1321.4332663	0.272618	-68.6447
TS7c	-1321.3913822	0.269305	-67.5928
IN10c	-1321.4594987	0.273055	-66.6613
IN5f	-1765.2788717	0.184363	-51.2443
IN6f	-1921.3049393	0.263197	-72.1537
TS4f	-1921.2837217	0.266039	-72.0823
IN7f	-1921.3176482	0.268783	-71.2928
TS5f	-1921.2941724	0.268245	-69.8180
IN8f	-1921.3392346	0.269630	-71.7647
TS6f	-1921.2699263	0.266171	-73.2635
IN9f	-1921.2850479	0.269506	-73.8966
TS7f	-1921.2452357	0.266995	-73.9273
IN10g	-1078.543398	0.150346	-44.0876
TS8g	-1078.534722	0.151931	-45.1980
IN11g	-1078.542005	0.150608	-46.1247
IN10h	-885.2965485	0.072450	-34.0488
TS8h	-885.2973581	0.073408	-34.0277
IN11h	-885.3314491	0.074166	-35.5428
IN9g	-2296.9870116	0.309548	-91.9935
IN12g	-1678.412137	0.148925	-54.0508
TS9g	-1678.390394	0.148097	-49.7263
IN13g	-1678.398747	0.146569	-48.184
IN9h	-2479.3964744	0.274563	-93.3682
IN12h	-1485.1637756	0.071128	-36.2218
TS9h	-1485.1641046	0.071727	-36.5532

IN13h	-1485.1896239	0.072109	-38.1584

The Cartesian Coordinates for the Optimized Structures and the First Frequency from Calculations (Values in cm^{-1}):

IN0(20.21)

6	0.631981	-0.164562	10.328812
6	1.004713	-1.133083	9.336297
6	1.094661	-2.502518	9.672356
1	1.467790	-3.216823	8.948037
6	0.841016	-2.922877	11.019328
6	0.502962	-1.964687	12.001154
1	0.420801	-2.263676	13.040266
6	0.382922	-0.577199	11.651115
1	0.224607	0.162275	12.427601
6	7.079441	1.143589	13.465057
6	7.333116	1.564285	12.118790
6	7.240441	0.627010	11.063762
1	7.314516	0.966820	10.036527
6	6.928715	-0.747505	11.334554
6	6.679843	-1.160319	12.655409
1	6.297866	-2.158217	12.834654
6	6.739026	-0.204422	13.724333
1	6.431485	-0.497397	14.722208
17	4.159159	-2.996091	10.858135
17	3.386120	-0.603713	13.199510
17	3.965193	0.355357	10.129356
17	4.223366	2.657997	12.637140
44	2.388876	-1.350165	11.038733
44	5.359486	0.591207	12.205610
1	1.304087	-0.799680	8.348822
1	0.664940	0.892013	10.089195
1	1.024155	-3.952129	11.304270
1	7.031415	1.879833	14.258725
1	7.475437	2.616391	11.901762
1	6.733970	-1.434822	10.519998

IN1c(25.91)

44	0.390898	0.137813	0.000339
6	2.476014	0.511368	0.706839
6	2.477416	0.514067	-0.701998
6	1.928145	-0.601869	-1.417354
6	1.409901	-1.711378	-0.718988
6	1.409259	-1.714206	0.713936
6	1.926594	-0.607631	1.417413
1	2.798657	1.391077	1.252700
1	2.801271	1.395707	-1.243985
1	1.838453	-0.553207	-2.497283
1	0.895696	-2.506253	-1.241428
1	0.894359	-2.511109	1.232606
1	1.835863	-0.563313	2.497427
8	-0.542677	1.738293	-1.089938
8	-0.541054	1.740544	1.089004
8	-1.539098	-0.518969	0.002769
6	-0.952241	2.257688	-0.000692
6	-1.928128	-1.769730	-0.000115
8	-1.202766	-2.764157	-0.004185
6	-3.449512	-1.892176	0.002033
1	-3.865994	-1.390519	-0.878063
1	-3.741076	-2.944181	0.000346
1	-3.863342	-1.393984	0.885333
6	-1.913235	3.412192	-0.001129
1	-1.777473	4.021097	0.895922
1	-1.780532	4.017988	-0.900728
1	-2.935908	3.017274	0.001370

IN2c(11.07)

8	2.139431	-1.118428	1.514180
8	0.413714	0.179328	1.248013
6	0.948035	-0.837459	1.827263
6	0.165003	-1.639175	2.825893
1	0.729016	-2.521015	3.134599
1	-0.792032	-1.934115	2.382721
1	-0.047463	-1.016108	3.701641
6	-6.474054	-0.016463	-0.411622
6	-5.139287	-0.227255	-0.069886
6	-4.165998	-0.311899	-1.076795
6	-4.537360	-0.188971	-2.421534
6	-5.875857	0.019982	-2.758827
6	-6.842458	0.106198	-1.755148
1	-7.227741	0.053913	0.367941
1	-4.849031	-0.318467	0.972368
1	-3.771809	-0.252780	-3.188636
1	-6.162550	0.117679	-3.802355
1	-7.884266	0.270498	-2.017753
15	-2.422994	-0.604243	-0.678380
8	-2.379932	-2.013945	0.183220

8	-1.530311	-0.625731	-1.889378
8	-2.136090	0.454321	0.495831
1	-1.201408	0.391741	0.843362
8	4.106335	3.135996	1.395458
8	2.652982	1.509753	2.023731
6	3.449557	2.529588	2.240046
6	3.492239	2.915075	3.715519
1	4.147812	3.776084	3.858725
1	3.855118	2.070360	4.311033
1	2.483720	3.152500	4.070470
44	2.285426	0.639427	0.225329
6	2.888826	2.297542	-1.121430
6	3.994519	1.403707	-0.956352
6	3.823853	0.027795	-1.228018
6	2.566732	-0.472148	-1.704188
6	1.475237	0.402649	-1.859113
6	1.641375	1.793976	-1.548494
1	2.991035	3.320957	-0.787223
1	4.906092	1.773660	-0.507022
1	4.626444	-0.667221	-1.004063
1	2.426442	-1.539425	-1.835221
1	0.482524	0.014143	-2.078073
1	0.774776	2.446437	-1.568279
6	-2.439129	-3.246955	-0.547087
1	-1.708079	-3.253782	-1.361078
1	-2.212003	-4.043918	0.164366
1	-3.443529	-3.405550	-0.958064

TS1c(89.51i)

8	2.376822	-0.367443	1.806405
8	0.896466	-1.992022	1.525749
6	1.654537	-1.316084	2.266032
6	1.734643	-1.587940	3.754484
1	2.641335	-1.160864	4.187769
1	1.689806	-2.663962	3.943169
1	0.866569	-1.126450	4.240714
6	-5.460961	0.615533	0.547354
6	-4.461043	-0.354466	0.487432
6	-3.200631	-0.028377	-0.035458
6	-2.952878	1.268455	-0.502858
6	-3.957695	2.236327	-0.441601
6	-5.209793	1.910296	0.083364
1	-6.435887	0.363207	0.955651
1	-4.654814	-1.361141	0.846160
1	-1.973715	1.507599	-0.904872
1	-3.762619	3.242207	-0.803443
1	-5.991495	2.663981	0.130895
15	-1.875911	-1.267017	-0.122509
8	-2.579431	-2.583994	-0.809708
8	-0.657604	-0.776356	-0.873123
8	-1.677083	-1.786870	1.375406
1	-0.699344	-1.963788	1.551493
8	1.401218	3.300403	-0.241733
8	0.697579	1.395695	0.768701
6	0.705352	2.693723	0.571152
6	-0.259278	3.420184	1.502314
1	-0.296867	4.481044	1.246833
1	0.077860	3.305947	2.538575
1	-1.259271	2.980098	1.436770
44	1.833691	0.035654	-0.199595
6	2.217232	1.175530	-2.093411
6	3.311132	1.259147	-1.169888
6	3.930479	0.066448	-0.695755
6	3.458022	-1.215972	-1.114215
6	2.313640	-1.280447	-1.931882
6	1.711123	-0.084142	-2.448989
1	1.698980	2.083274	-2.371872
1	3.603575	2.226261	-0.782580
1	4.703825	0.131149	0.062072
1	3.871160	-2.117784	-0.677400
1	1.832860	-2.235027	-2.113021
1	0.778687	-0.158447	-2.993559
6	-2.872803	-2.547221	-2.209243
1	-1.971133	-2.336319	-2.793616
1	-3.258055	-3.534747	-2.472829
1	-3.635422	-1.791024	-2.433644

IN3c(16.76)

8	1.263387	1.388527	1.251095
8	-0.351701	0.621770	2.658633
6	0.394025	1.512753	2.176219
6	0.276247	2.924077	2.724748
1	1.267522	3.343872	2.918946
1	-0.330013	2.938676	3.632242
1	-0.196010	3.541128	1.952096
6	-5.408748	-0.292656	0.217200
6	-4.195112	-0.970054	0.315130
6	-3.002700	-0.316666	-0.036235

6	-3.021843	1.013867	-0.480874
6	-4.245323	1.682127	-0.570660
6	-5.432666	1.033664	-0.226099
1	-6.333334	-0.795022	0.488296
1	-4.170133	-1.999161	0.662979
1	-2.091214	1.515778	-0.736795
1	-4.266186	2.713817	-0.910665
1	-6.380431	1.560976	-0.299575
15	-1.419050	-1.171940	0.122278
8	-1.638372	-2.688295	-0.461122
8	-0.348631	-0.385749	-0.645958
8	-1.067095	-1.507993	1.624161
1	-0.688725	-0.618432	2.092437
8	1.713113	1.350842	-1.472693
8	-0.174528	2.538499	-0.965479
6	0.853725	2.336715	-1.601156
6	1.292676	3.296301	-2.712468
1	1.433007	2.752332	-3.652876
1	2.254578	3.753263	-2.453924
1	0.541734	4.077955	-2.845952
44	1.715603	-0.154370	-0.080864
6	3.531297	-0.899613	-1.102552
6	3.907322	-0.323135	0.148528
6	3.275116	-0.784703	1.335193
6	2.320673	-1.841438	1.303228
6	2.562767	-1.926864	-1.165279
6	1.933892	-2.360871	0.045342
1	3.909179	-0.463876	-2.021347
1	4.589690	0.517772	0.181594
1	3.466335	-0.269040	2.270199
1	1.787444	-2.132767	2.199461
1	2.223739	-2.302919	-2.123182
1	1.097942	-3.050371	-0.006326
6	-1.944300	-2.842850	-1.855965
1	-2.925069	-2.415160	-2.090454
1	-1.181608	-2.364833	-2.479306
1	-1.960892	-3.917352	-2.048908

TS2c(157.75i)

8	1.289087	1.378874	1.268922
8	-0.430548	0.765182	2.627581
6	0.391095	1.594050	2.140810
6	0.316581	3.026265	2.632209
1	1.319490	3.418701	2.822122
1	-0.301781	3.100509	3.528478
1	-0.124945	3.622806	1.825863
6	-5.408019	-0.346198	0.180986
6	-4.183708	-0.997912	0.316584
6	-2.996939	-0.332938	-0.031517
6	-3.034217	0.985287	-0.510189
6	-4.267523	1.628812	-0.637191
6	-5.448962	0.967545	-0.296475
1	-6.327676	-0.859166	0.449197
1	-4.146035	-2.017310	0.690898
1	-2.109317	1.498483	-0.763011
1	-4.301210	2.651203	-1.003420
1	-6.404745	1.475082	-0.399555
15	-1.399754	-1.155659	0.180920
8	-1.598426	-2.700448	-0.341484
8	-0.344925	-0.393477	-0.640816
8	-1.038574	-1.391107	1.688549
1	-0.682172	-0.418489	2.133099
8	1.693499	1.342261	-1.478735
8	-0.165092	2.545146	-0.907129
6	0.830154	2.326294	-1.589267
6	1.209920	3.254471	-2.747644
1	1.226167	2.694806	-3.689545
1	2.215426	3.661044	-2.593293
1	0.489490	4.072088	-2.819375
44	1.715397	-0.163952	-0.087813
6	3.523110	-0.901744	-1.122177
6	3.912171	-0.337249	0.129705
6	3.283898	-0.802797	1.316766
6	2.325830	-1.856519	1.285244
6	2.549688	-1.925820	-1.184730
6	1.931472	-2.370152	0.027624
1	3.894585	-0.460562	-2.040996
1	4.597847	0.500914	0.163953
1	3.480653	-0.291565	2.253084
1	1.793444	-2.148222	2.181922
1	2.202180	-2.293694	-2.142767
1	1.093174	-3.056847	-0.021999
6	-1.890961	-2.914250	-1.730767
1	-2.876837	-2.512814	-1.989290
1	-1.132352	-2.446942	-2.367312
1	-1.888246	-3.995584	-1.883042

IN4c(28.27)

8	1.334900	1.391464	1.319694	1	-2.777550	-2.644089	-1.777611
8	-0.582325	1.243455	2.526904	1	-1.039019	-2.518114	-2.154918
6	0.423734	1.882635	2.011440	1	-1.729501	-4.078212	-1.611260
6	0.452545	3.357346	2.309350				
1	1.481527	3.689031	2.466915	IN5c(13.81)			
1	-0.173399	3.604440	3.168373	6	-4.030054	-1.242505	0.189945
1	0.067758	3.858477	1.413830	6	-5.304376	-0.859955	0.608790
6	-5.399060	-0.475467	0.129824	6	-2.987728	-0.304778	0.152606
6	-4.156108	-1.070333	0.343423	6	-3.232612	1.014765	0.557802
6	-2.980199	-0.382255	0.005496	1	-2.417851	1.731757	0.559994
6	-3.054096	0.907372	-0.541812	6	-4.508993	1.394980	0.977285
6	-4.303516	1.497322	-0.746667	8	-0.343647	0.210308	0.168099
6	-5.472661	0.809448	-0.415712	1	1.432057	4.484330	0.795204
1	-6.308117	-1.011142	0.390609	6	1.086572	3.939797	-0.086553
1	-4.095168	-2.067390	0.771318	6	1.439338	2.483910	0.025676
1	-2.141621	1.442812	-0.790268	1	-0.004051	4.035294	-0.145466
1	-4.360961	2.497992	-1.166805	1	1.517197	4.367281	-0.995359
1	-6.442061	1.273468	-0.579683	8	1.551626	1.913752	1.157376
15	-1.356504	-1.127144	0.347575	8	1.607427	1.763683	-1.015195
8	-1.499832	-2.710455	-0.121330	1	-4.692320	2.418949	1.293047
8	-0.339008	-0.397139	-0.581407	1	-3.826579	-2.269343	-0.098435
8	-1.002041	-1.174802	1.835522	1	-6.107548	-1.591849	0.636496
1	-0.662755	0.243742	2.255149	6	-5.546034	0.459843	0.999415
8	1.655400	1.272343	-1.519074	1	-6.538988	0.756693	1.327710
8	-0.098656	2.571838	-0.845521	15	-1.347601	-0.860213	-0.428149
6	0.799348	2.261138	-1.623789	8	-1.114496	-2.329834	-0.186024
6	1.030669	3.056107	-2.911508	8	-1.362131	-0.628758	-2.068409
1	0.748055	2.443528	-3.775686	44	1.707316	-0.007612	0.196998
1	2.088802	3.312693	-3.024905	6	2.963708	-1.294512	-1.078311
1	0.424164	3.964296	-2.901524	6	3.826876	-0.581680	-0.185539
44	1.705334	-0.203188	-0.092547	6	3.574949	-0.630674	1.202963
6	3.482704	-0.955664	-1.137549	6	2.497829	-1.427302	1.718763
6	3.918091	-0.410275	0.103784	6	1.902990	-2.084325	-0.578813
6	3.289087	-0.852431	1.299053	6	1.673845	-2.148809	0.832681
6	2.312156	-1.890584	1.289351	1	3.075912	-1.161151	-2.149285
6	2.476902	-1.956346	-1.180120	1	4.594056	0.075567	-0.578947
6	1.889961	-2.409224	0.044818	1	4.144773	0.000410	1.876592
1	3.838965	-0.519348	-2.064664	1	2.261457	-1.392975	2.776422
1	4.624467	0.410943	0.125221	1	1.180944	-2.543234	-1.242267
1	3.507766	-0.340438	2.230253	1	0.768401	-2.634750	1.175456
1	1.781086	-2.159079	2.194062	6	-1.451510	0.690983	-2.607774
1	2.099346	-2.311429	-2.131587	1	-1.451486	0.584618	-3.696160
1	1.036930	-3.078153	0.014493	1	-2.384762	1.182455	-2.302591
6	-1.776783	-2.992163	-1.497914	1	-0.598130	1.302419	-2.298459

TS3c(1087.76i)

6	-2.915403	-1.389992	0.715093
6	-2.924500	-1.920408	2.006984
6	-1.848148	-0.588551	0.299729
6	-0.762657	-0.314126	1.168789
1	-0.422407	0.960184	1.245938
6	-0.794305	-0.871043	2.466805
8	-0.301808	0.815557	-1.324573
1	0.900088	4.425803	2.156363
6	1.226977	4.045349	1.185552
6	0.814160	2.598935	1.025418
1	0.729987	4.636519	0.407522
1	2.306794	4.155581	1.070978
8	-0.307790	2.242903	1.496270
8	1.612099	1.822100	0.416841
1	0.012553	-0.648353	3.162815
1	-3.723121	-1.617203	0.024265
1	-3.755928	-2.541115	2.331906
6	-1.863960	-1.660550	2.884737
1	-1.880916	-2.070226	3.891792
15	-1.650533	-0.015248	-1.435995
8	-1.764408	-1.159807	-2.403739
8	-2.835753	1.081500	-1.727626
44	1.087000	-0.151640	-0.111915
6	3.131433	-0.542090	-1.014204
6	3.155238	-0.898346	0.375355
6	2.223141	-1.820581	0.890446
6	1.223396	-2.371923	0.020858
6	2.140530	-1.080664	-1.855483
6	1.175040	-2.010338	-1.340984
1	3.803887	0.223355	-1.385000
1	3.855074	-0.405684	1.041831
1	2.214415	-2.057884	1.948060
1	0.445643	-3.004572	0.433417
1	2.042355	-0.724431	-2.874965
1	0.336589	-2.313619	-1.959950
6	-2.781788	2.377220	-1.122779
1	-3.761839	2.834823	-1.282482
1	-2.577890	2.321461	-0.047721
1	-2.008932	2.990846	-1.595878

IN6c(28.63)

6	-2.872040	-0.811189	1.455890
6	-2.881051	-0.376614	2.782831
6	-1.705186	-0.682743	0.694171
6	-0.528091	-0.131672	1.239499
1	-0.687954	1.419090	-1.443511
6	-0.557325	0.305334	2.570057
8	-0.440811	-0.034566	-1.498342
1	-0.796665	4.627216	0.267374
6	0.152940	4.340042	-0.197487
6	0.146256	2.856884	-0.458548
1	0.231057	4.883638	-1.144073
1	0.978859	4.606302	0.462636
8	-0.732710	2.457252	-1.331621
8	0.939703	2.105905	0.140555
1	0.327725	0.751979	3.019032
1	-3.765496	-1.245018	1.012482
1	-3.782659	-0.470651	3.382530
6	-1.725634	0.184735	3.333028
1	-1.731761	0.531490	4.364343
15	-1.510986	-1.164664	-1.048742
8	-1.120233	-2.589871	-1.308658
8	-2.920491	-0.818831	-1.818037
44	1.112114	-0.056660	-0.007449
6	3.454988	-0.054503	-0.490641
6	3.158471	-0.119402	0.917627
6	2.370685	-1.169797	1.439210
6	1.739814	-2.087034	0.539181
6	2.860194	-0.955591	-1.369468
6	1.922477	-1.917859	-0.854997
1	4.075877	0.752265	-0.866966
1	3.562482	0.634644	1.584634
1	2.171435	-1.225145	2.503655
1	1.045085	-2.836220	0.899469
1	3.005711	-0.863606	-2.440079
1	1.316246	-2.512129	-1.530049
6	-3.421997	0.516358	-1.889447
1	-4.459781	0.443505	-2.224965
1	-3.396169	1.013636	-0.912563
1	-2.852877	1.111176	-2.611681

IN1d(39.81)

6	-2.458727	0.000167	-0.000006
8	-1.651460	-1.094102	0.000030
8	-1.651368	1.094200	-0.000099
8	-3.660006	0.000146	-0.000111

44	-0.014566	-0.000143	-0.000064
6	1.681434	-0.717879	1.216920
6	1.753445	-1.434136	-0.000342
6	1.681926	-0.717191	-1.217099
6	1.682045	0.718062	-1.216686
6	1.753456	1.434228	0.000516
6	1.681453	0.717392	1.217331
1	1.580486	-1.251995	2.155269
1	1.684758	-2.515825	-0.000656
1	1.581236	-1.250766	-2.155784
1	1.581450	1.252144	-2.155088
1	1.684948	2.515932	0.000729
1	1.580529	1.251000	2.155969

IN2d(17.46)

6	-3.201740	0.573375	1.106170
6	-4.271977	1.465608	1.048726
6	-2.735930	-0.040464	-0.066311
6	-3.344409	0.251627	-1.293713
1	-2.973850	-0.228161	-2.194181
6	-4.415151	1.146712	-1.347376
8	-0.163381	-0.559669	0.848659
6	2.174311	-2.010033	-0.417541
8	1.537510	-1.116652	-1.353661
8	2.520967	-1.283424	0.598611
1	-4.887902	1.367914	-2.300585
1	-2.728340	0.347525	2.057402
1	-4.635566	1.935446	1.958836
6	-4.879024	1.752586	-0.178066
1	-5.713730	2.447526	-0.220368
15	-1.318401	-1.175745	-0.019244
8	-1.933317	-2.409425	0.853416
8	-0.903667	-1.586255	-1.440398
6	-1.058752	-3.507648	1.180878
1	-1.700260	-4.306754	1.557721
1	-0.515839	-3.855274	0.296676
1	-0.344068	-3.205275	1.951969
8	2.299833	-3.182831	-0.649712
1	0.538741	-1.424030	-1.538356
44	1.515606	0.445358	0.075587
6	1.342512	2.270410	-1.194312
6	0.524108	2.460205	-0.063548
6	1.079269	2.286632	1.246686
6	2.441123	1.962404	1.412018
6	2.728441	1.932001	-1.035870
6	3.273153	1.779632	0.256932
1	0.907391	2.298107	-2.187547
1	-0.540687	2.623713	-0.181527
1	0.424350	2.311909	2.110196
1	2.834673	1.754941	2.400679
1	3.331685	1.707511	-1.908556
1	4.293558	1.433079	0.377128

TS1d(1247.43i)

6	-2.451190	2.131003	-0.218268
6	-2.102736	3.268973	-0.953163
6	-1.601802	1.026420	-0.233136
6	-0.383864	1.027971	-0.963679
1	-0.319711	-0.167747	-1.642669
6	-0.082725	2.176709	-1.724712
8	-0.529758	-1.094422	0.961073
6	0.446755	-2.223696	-1.841984
8	-0.599020	-1.262713	-2.208921
8	1.377121	-1.660668	-1.164794
1	0.818491	2.196766	-2.334439
1	-3.371360	2.105769	0.358784
1	-2.754867	4.138685	-0.944156
6	-0.931468	3.285079	-1.719781
1	-0.687128	4.162109	-2.314031
15	-1.945414	-0.616588	0.476461
8	-2.911432	-0.327684	1.762992
8	-2.629686	-1.506016	-0.558495
6	-3.922728	-1.283608	2.127057
1	-4.706068	-0.727923	2.648139
1	-4.331098	-1.771171	1.238456
1	-3.501426	-2.037287	2.800526
8	0.337885	-3.349743	-2.250386
1	-1.480118	-1.544116	-1.775496
44	1.173228	-0.093025	0.207354
6	1.916667	1.869166	0.938831
6	1.549203	1.098947	2.062955
6	2.112044	-0.207339	2.233396
6	3.046967	-0.713735	1.310056
6	2.858655	1.363959	-0.017241
6	3.391932	0.069889	0.160460
1	1.428383	2.819795	0.756517
1	0.783150	1.453202	2.742656
1	1.742821	-0.845556	3.028804

1	3.400382	-1.734781	1.393016
1	3.095566	1.936079	-0.906441
1	4.007015	-0.370368	-0.616642

IN3d(30.16)

6	2.779871	1.804147	-0.710484
6	2.436066	3.105055	-1.063296
6	1.759795	0.866833	-0.498335
6	0.385211	1.172201	-0.621630
1	1.214267	-0.661990	1.973801
6	0.078522	2.503662	-0.950555
8	0.798968	-1.634081	-0.437267
6	-0.963028	0.776514	2.512284
8	-0.531733	0.755456	3.811741
8	-0.408804	-0.165145	1.774291
1	-0.956402	2.824556	-1.022318
1	3.821553	1.513300	-0.603875
1	3.208193	3.848150	-1.241665
6	1.083399	3.447978	-1.172661
1	0.807816	4.468805	-1.428129
15	2.006383	-0.809387	0.047346
8	3.448423	-1.307929	-0.474687
8	2.139558	-0.887149	1.659015
6	4.011035	-2.553617	-0.015643
1	5.000948	-2.621638	-0.469351
1	4.096155	-2.556734	1.073961
1	3.394935	-3.395098	-0.346368
8	-1.788411	1.602360	2.172144
1	0.067847	-0.000126	3.919739
44	-0.971222	-0.368707	-0.296744
6	-2.172906	0.232042	-2.040441
6	-1.880218	-1.146264	-2.170974
6	-2.320401	-2.076040	-1.166846
6	-2.969461	-1.621528	-0.018269
6	-3.135019	-0.207319	0.168180
6	-2.821741	0.712051	-0.861055
1	-1.834312	0.929653	-2.798524
1	-1.312400	-1.502619	-3.022902
1	-2.060679	-3.124834	-1.268041
1	-3.228220	-2.308476	0.779301
1	-3.490395	0.178372	1.115494
1	-2.982036	1.770210	-0.698134

TS2d(654.97i)

6	2.749183	1.639190	-0.944815
6	2.450783	2.956216	-1.286473
6	1.703870	0.759826	-0.641731
6	0.343234	1.144539	-0.662259
1	0.807318	-0.772905	1.786901
6	0.081960	2.486150	-0.986668
8	0.601335	-1.652697	-0.589670
6	-0.366377	0.808114	2.589153
8	0.815213	1.179938	3.127417
8	-0.295780	-0.320842	1.847107
1	-0.937142	2.863023	-0.994646
1	3.778726	1.291963	-0.917642
1	3.246799	3.653001	-1.533873
6	1.116560	3.373769	-1.297299
1	0.877198	4.404926	-1.547321
15	1.883036	-0.931435	-0.082623
8	3.260814	-1.514567	-0.699312
8	1.979159	-0.998861	1.494438
6	3.862813	-2.703472	-0.152092
1	4.874113	-2.747929	-0.560243
1	3.898580	-2.649698	0.938933
1	3.301445	-3.589624	-0.464080
8	-1.384015	1.426685	2.785895
1	1.541072	0.638383	2.757971
44	-1.066635	-0.333379	-0.232051
6	-2.399093	0.352175	-1.827803
6	-2.216575	-1.047090	-1.960364
6	-2.641548	-1.941188	-0.913332
6	-3.105615	-1.424994	0.293222
6	-3.130948	0.001747	0.483705
6	-2.878106	0.886676	-0.590865
1	-2.092813	1.015656	-2.628775
1	-1.764605	-1.449886	-2.859886
1	-2.491085	-3.008986	-1.032240
1	-3.321178	-2.082284	1.128046
1	-3.321236	0.411032	1.469210
1	-2.945456	1.956347	-0.434063

IN4d(41.86)

6	2.700542	1.588971	-1.030894
6	2.403115	2.901913	-1.389919
6	1.660796	0.720532	-0.681144
6	0.305746	1.119905	-0.673811
1	0.537811	-0.826672	1.898011

6	0.042102	2.456623	-1.016021
8	0.521417	-1.654016	-0.464805
6	-0.119372	0.910141	2.578293
8	1.159178	1.151091	2.848479
8	-0.338972	-0.318482	1.959364
1	-0.974333	2.840631	-1.001744
1	3.728381	1.235512	-1.025404
1	3.197546	3.587012	-1.672844
6	1.073242	3.331460	-1.370888
1	0.834476	4.360044	-1.631750
15	1.866179	-0.953851	-0.062662
8	3.137810	-1.594616	-0.848173
8	2.111210	-0.982837	1.472349
6	3.866673	-2.696636	-0.281231
1	4.842568	-2.706716	-0.771384
1	3.988382	-2.566443	0.797235
1	3.346740	-3.638436	-0.485284
8	-1.038447	1.637465	2.839022
1	1.746824	0.475466	2.410396
44	-1.112942	-0.329948	-0.186821
6	-2.449757	0.344080	-1.772537
6	-2.268156	-1.060016	-1.883560
6	-2.702786	-1.937620	-0.825928
6	-3.156485	-1.399315	0.374646
6	-3.168214	0.030966	0.544164
6	-2.926248	0.899676	-0.546151
1	-2.141490	0.994032	-2.583686
1	-1.820996	-1.477180	-2.778909
1	-2.562155	-3.008190	-0.930221
1	-3.374873	-2.042334	1.219936
1	-3.365800	0.453844	1.523191
1	-2.991076	1.971975	-0.407505

IN1e(36.90)

6	2.363822	0.000150	-0.008912
8	1.665782	1.082231	0.011243
8	1.665845	-1.082023	0.011281
44	-0.084007	0.000004	-0.204225
6	-1.362533	-0.716686	1.381634
6	-1.362359	0.715542	1.382201
6	-1.780145	1.433642	0.222877
6	-2.100083	0.717546	-0.944687
6	-2.100098	-0.716551	-0.945287
6	-1.780372	-1.433727	0.221686
1	-0.990006	-1.254351	2.247423
1	-0.989800	1.252454	2.248445
1	-1.715978	2.516130	0.202040
1	-2.281965	1.250684	-1.872245
1	-2.281932	-1.248918	-1.873303
1	-1.716416	-2.516208	0.199922
6	3.849185	0.000077	-0.029003
1	4.209595	-0.010473	1.008206
1	4.222344	-0.897502	-0.527331
1	4.222961	0.906414	-0.510501

IN2e(22.33)

6	3.263905	0.362142	-0.986136
6	4.271480	1.309027	-0.810545
6	2.606163	-0.169121	0.137280
6	2.964428	0.244806	1.429286
1	2.472515	-0.188371	2.293956
6	3.974158	1.194973	1.593502
8	0.042918	-0.821347	-0.867411
6	-2.482450	-1.620292	0.600911
8	-1.666678	-0.974892	1.373270
8	-2.759188	-1.058786	-0.498680
1	4.261302	1.508688	2.592629
1	3.004447	0.023953	-1.985257
1	4.789668	1.712737	-1.675150
6	4.623908	1.726662	0.477304
1	5.413651	2.460397	0.609660
15	1.278133	-1.354933	-0.100866
8	1.978846	-2.531511	-0.928645
8	0.862151	-1.925933	1.347123
6	1.235996	-3.683145	-1.403264
1	1.951108	-4.281577	-1.966876
1	0.857814	-4.258294	-0.554112
1	0.416361	-3.363035	-2.050690
1	-0.075621	-1.683363	1.565411
44	-1.404335	0.545244	-0.138920
6	-1.653471	2.306130	1.161319
6	-0.349062	2.388851	0.587643
6	-0.209609	2.319103	-0.818320
6	-1.349405	2.182632	-1.658832
6	-2.806678	2.211039	0.338766
6	-2.641816	2.124337	-1.071809
1	-1.760790	2.253801	2.240006
1	0.528834	2.416372	1.222460

1	0.783420	2.258118	-1.250474
1	-1.228787	2.046828	-2.727140
1	-3.789896	2.105502	0.782589
1	-3.504020	1.920880	-1.698780
6	-3.050070	-2.943865	1.002030
1	-2.237776	-3.659503	1.171074
1	-3.592429	-2.838646	1.947650
1	-3.720318	-3.321166	0.228465

TS1e(1179.39i)

6	2.597865	-1.950240	-0.616103
6	2.272719	-2.984982	-1.500144
6	1.677747	-0.921626	-0.425162
6	0.421075	-0.880668	-1.089659
1	0.246799	0.362084	-1.569211
6	0.149695	-1.920426	-2.001129
8	0.568462	1.041280	1.042754
6	-0.649679	2.213443	-1.671212
8	0.398385	1.565130	-2.032567
8	-1.473676	1.754634	-0.830313
1	-0.774332	-1.906281	-2.573841
1	3.546914	-1.951398	-0.088672
1	2.973862	-3.799093	-1.657911
6	1.061209	-2.960871	-2.199228
1	0.833177	-3.753354	-2.906463
15	1.951056	0.553016	0.562760
8	3.016879	0.190697	1.693564
8	2.707096	1.683198	-0.313664
6	3.697384	1.204969	2.485988
1	4.378433	0.656516	3.135627
1	4.252898	1.877836	1.830591
1	2.971490	1.760434	3.084298
1	2.125037	1.967378	-1.052962
44	-1.154881	-0.007098	0.274115
6	-1.699984	-2.104299	0.889220
6	-1.403459	-1.370338	2.051598
6	-2.097571	-0.142345	2.316228
6	-3.084800	0.323728	1.430679
6	-2.675636	-1.615726	-0.040187
6	-3.351119	-0.405571	0.227472
1	-1.132692	-2.997592	0.653739
1	-0.612036	-1.697540	2.716509
1	-1.808499	0.462340	3.169092
1	-3.559480	1.283935	1.597911
1	-2.860198	-2.148043	-0.966141
1	-4.032823	0.005944	-0.508945
6	-0.900076	3.566450	-2.281153
1	-0.105551	4.254678	-1.971703
1	-0.857982	3.489358	-3.371743
1	-1.865508	3.961382	-1.964087

IN3e(21.97)

6	-2.916763	0.933098	1.346619
6	-2.721358	1.784501	2.430708
6	-1.798625	0.401546	0.686757
6	-0.462664	0.684922	1.076515
1	-0.450022	2.233890	-0.318170
6	-0.309228	1.566999	2.163093
8	-0.482682	-0.653090	-1.390155
6	0.932010	2.396901	-1.596613
8	-0.223269	2.799103	-1.094026
8	1.546793	1.404555	-1.187058
1	0.684832	1.850401	2.499712
1	-3.921261	0.687842	1.012477
1	-3.573001	2.205996	2.955301
6	-1.418462	2.104173	2.826751
1	-1.262205	2.782459	3.661420
15	-1.893620	-0.623170	-0.769785
8	-2.516633	-2.029610	-0.314563
8	-2.997991	-0.109755	-1.845606
6	-2.929220	-3.041970	-1.272228
1	-3.318452	-3.866914	-0.676126
1	-3.709440	-2.644530	-1.923685
1	-2.072550	-3.376446	-1.863360
1	-2.654285	0.574520	-2.445073
44	1.070246	-0.300018	0.079068
6	1.332613	-1.676790	1.790607
6	1.298401	-2.440044	0.601030
6	2.306882	-2.273557	-0.413544
6	3.238624	-1.249030	-0.291033
6	2.288791	-0.621307	1.915007
6	3.172221	-0.365561	0.843071
1	0.593537	-1.841506	2.566393
1	0.517962	-3.180786	0.465341
1	2.277248	-2.888177	-1.306634
1	3.945694	-1.047742	-1.088177
1	2.289526	0.017915	2.789955
1	3.835754	0.491460	0.889779

6	1.453581	3.261849	-2.704116
1	0.675699	3.409428	-3.459640
1	1.707624	4.249560	-2.303319
1	2.336263	2.806958	-3.152898

IN1f(27.76)

6	-1.643292	-0.978422	-0.031150
8	-0.533884	-1.698692	-0.164314
8	-1.322634	0.331353	0.122376
8	-2.789452	-1.391231	-0.041075
44	0.654484	-0.117978	-0.015543
6	2.516368	-0.374732	1.129330
6	2.757874	-0.929709	-0.150015
6	2.450598	-0.160480	-1.295459
6	2.016241	1.199281	-1.160079
6	1.901740	1.792750	0.118610
6	2.094605	0.988764	1.263828
1	2.605585	-0.996217	2.013933
1	3.015992	-1.977974	-0.249525
1	2.486611	-0.615135	-2.279589
1	1.735879	1.759434	-2.045603
1	1.523308	2.803541	0.218492
1	1.874392	1.383779	2.249633
19	-4.082264	0.858069	0.283572

IN2f(15.24)

6	-3.216381	-1.538153	0.852985
6	-4.582944	-1.517693	0.574213
6	-2.288924	-1.614340	-0.198467
6	-2.738239	-1.677390	-1.525076
1	-2.012839	-1.757280	-2.328839
6	-4.108259	-1.653512	-1.798211
8	-0.121379	-0.339818	1.023029
6	2.902135	0.222161	-0.109172
8	2.721691	-0.972927	-0.714338
8	1.967241	1.124852	-0.233653
1	-4.455933	-1.710425	-2.825794
1	-2.869188	-1.512017	1.881976
1	-5.301009	-1.469879	1.387967
6	-5.028578	-1.571444	-0.750706
1	-6.093659	-1.558858	-0.964248
15	-0.509412	-1.597916	0.132814
8	-0.363356	-2.868422	1.143424
8	0.297380	-1.693221	-1.159859
6	0.880804	-3.128177	1.807482
1	0.775269	-4.102230	2.288375
1	1.706728	-3.163961	1.087841
1	1.081442	-2.360714	2.561415
8	3.980541	0.430709	0.446939
1	1.753448	-1.165120	-0.982912
44	0.079686	1.525576	0.250952
6	-1.831757	1.966979	-0.724198
6	-2.034014	2.165610	0.664245
6	-1.130513	2.979430	1.386535
6	-0.089672	3.691671	0.701250
6	-0.769565	2.652954	-1.397298
6	0.058380	3.573159	-0.696117
1	-2.422418	1.229811	-1.256726
1	-2.765734	1.563262	1.189710
1	-1.185089	3.021605	2.468995
1	0.635073	4.259558	1.275386
1	-0.570169	2.433987	-2.441072
1	0.900247	4.037497	-1.196453
19	5.318165	-1.654338	-0.370269

TS1f(1128.80i)

6	-0.357875	2.952635	1.614602
6	-0.699976	2.764773	2.958505
6	-0.065666	1.834274	0.836958
6	-0.106043	0.508490	1.349318
1	0.901310	-0.198351	0.890044
6	-0.418428	0.367091	2.716090
8	-0.214456	0.654547	-1.587572
6	1.848324	-1.685304	-0.327035
8	2.088295	-0.572777	0.408130
8	0.611509	-1.957120	-0.612432
1	-0.417962	-0.623244	3.166103
1	-0.326350	3.949815	1.186060
1	-0.939387	3.623500	3.579031
6	-0.717170	1.478287	3.508636
1	-0.960893	1.346653	4.559462
15	0.459704	1.846279	-0.884768
8	0.132346	3.295748	-1.479976
8	2.068172	1.733656	-0.936989
6	0.586970	3.694106	-2.799826
1	0.235412	4.716523	-2.935888
1	1.677520	3.658633	-2.846077
1	0.149796	3.042211	-3.560119

8	2.793222	-2.409278	-0.673801
1	2.281940	0.835276	-0.539729
44	-1.073449	-0.845610	-0.256417
6	-3.081004	-0.533264	0.729254
6	-3.214222	-0.190439	-0.626691
6	-2.804326	-1.123273	-1.635579
6	-2.318036	-2.398647	-1.282077
6	-2.542903	-1.811509	1.100145
6	-2.171246	-2.736876	0.100838
1	-3.302424	0.198640	1.497645
1	-3.540416	0.803647	-0.910288
1	-2.802538	-0.818039	-2.676441
1	-1.940296	-3.069839	-2.044786
1	-2.381337	-2.048631	2.145252
1	-1.689655	-3.668597	0.375440
19	4.733073	-1.416622	0.645812

IN3f(32.36)

6	2.560387	1.045117	1.403230
6	3.047319	0.013074	2.204783
6	1.278926	0.931197	0.845431
6	0.433846	-0.188402	1.049407
1	0.433541	1.417309	-2.141257
6	0.963647	-1.209758	1.863265
8	-1.004438	1.942521	-0.128642
6	0.786588	-1.226838	-1.758285
8	2.037971	-0.796711	-2.183560
8	-0.116955	-0.308792	-1.727933
1	0.374736	-2.097713	2.074772
1	3.157131	1.936678	1.230546
1	4.023515	0.095928	2.674215
6	2.237324	-1.108841	2.437141
1	2.589562	-1.897522	3.100560
15	0.511846	2.183504	-0.181453
8	1.062552	3.599492	0.315598
8	1.023824	2.101827	-1.736651
6	0.720004	4.840407	-0.358236
1	1.288438	5.617386	0.151994
1	1.006075	4.788578	-1.410823
1	-0.350842	5.032639	-0.259433
8	0.708139	-2.407910	-1.430289
1	2.028746	0.172984	-2.284805
44	-1.391244	-0.193011	0.047738
6	-2.552507	-0.967559	1.759172
6	-3.251962	0.128866	1.203925
6	-3.726794	0.084577	-0.155152
6	-3.373656	-0.981603	-0.977392
6	-2.526592	-2.021741	-0.456256
6	-2.190824	-2.064859	0.916262
1	-2.226569	-0.936170	2.792831
1	-3.446717	1.006569	1.810178
1	-4.268704	0.933328	-0.558256
1	-3.637852	-0.978722	-2.028966
1	-2.140237	-2.785314	-1.121389
1	-1.598152	-2.886790	1.299239
19	3.167443	-2.650762	-0.496845

TS2f(570.35i)

6	-2.572884	-0.818734	1.538978
6	-2.983286	0.278364	2.300221
6	-1.309661	-0.801781	0.935352
6	-0.414900	0.290706	1.051347
1	-0.275806	-0.842495	-1.940322
6	-0.864949	1.385060	1.815548
8	0.902133	-1.951928	0.030508
6	-0.817116	1.101397	-1.924337
8	-2.062237	0.579938	-2.069575
8	0.173583	0.209867	-1.904122
1	-0.226065	2.253513	1.957516
1	-3.217063	-1.687686	1.433596
1	-3.942926	0.264495	2.809667
6	-2.121682	1.376249	2.438187
1	-2.415095	2.215713	3.066868
15	-0.637146	-2.096856	-0.127819
8	-1.247600	-3.492829	0.374258
8	-1.058716	-1.843806	-1.632672
6	-1.084342	-4.709229	-0.399509
1	-1.746551	-5.443572	0.058910
1	-1.368684	-4.538156	-1.440259
1	-0.048213	-5.050914	-0.337566
8	-0.680632	2.302504	-1.790903
1	-2.027028	-0.414074	-2.009550
44	1.413617	0.122928	0.056920
6	2.556852	0.981196	1.714407
6	3.177183	-0.224384	1.295876
6	3.715284	-0.348614	-0.034102
6	3.483671	0.658694	-0.966025
6	2.711584	1.811659	-0.582664

6	2.335224	2.023521	0.763132
1	2.186105	1.073609	2.729137
1	3.264035	-1.053657	1.989021
1	4.194582	-1.274766	-0.331973
1	3.781221	0.531578	-2.000921
1	2.424075	2.536810	-1.336037
1	1.808561	2.928206	1.042313
19	-3.058486	2.636358	-0.527158

IN4f(37.43)

6	2.555938	0.630389	1.583677
6	2.891696	-0.491398	2.346434
6	1.308415	0.685711	0.948778
6	0.358132	-0.360653	1.037853
1	0.127400	0.691932	-2.101827
6	0.734326	-1.485207	1.799374
8	-0.803057	1.913737	-0.073776
6	0.859979	-1.102589	-1.983900
8	2.055849	-0.517270	-2.049308
8	-0.208799	-0.256861	-2.007362
1	0.052014	-2.324001	1.913639
1	3.245447	1.466898	1.503873
1	3.835959	-0.527562	2.883304
6	1.973792	-1.546978	2.451912
1	2.209996	-2.407900	3.075250
15	0.755052	2.028781	-0.130982
8	1.315709	3.393044	0.514136
8	1.290442	1.842505	-1.586590
6	1.343359	4.626540	-0.244898
1	1.996824	5.302984	0.306563
1	1.739608	4.448686	-1.247329
1	0.336704	5.048580	-0.303240
8	0.727118	-2.302435	-1.872254
1	1.962631	0.503278	-1.916173
44	-1.451720	-0.091071	0.035314
6	-2.629238	-0.883104	1.692879
6	-3.163649	0.370064	1.286442
6	-3.714384	0.536814	-0.033756
6	-3.565434	-0.480640	-0.971582
6	-2.871227	-1.686419	-0.602214
6	-2.499836	-1.935435	0.738515
1	-2.252344	-1.005788	2.702118
1	-3.181348	1.199341	1.984843
1	-4.130822	1.495848	-0.321927
1	-3.868066	-0.329641	-2.001876
1	-2.651991	-2.428656	-1.362279
1	-2.037675	-2.877390	1.008329
19	3.087170	-2.553976	-0.495168

IN7c(25.47)

6	-3.041632	1.234283	0.253945
6	-3.016106	2.609242	0.023854
6	-1.849839	0.500857	0.223394
6	-0.605644	1.124388	-0.022266
6	-0.608717	2.515120	-0.246109
8	-0.237140	-1.595620	0.282272
1	0.322993	3.042473	-0.440026
1	-3.981129	0.729129	0.464240
1	-3.938328	3.184105	0.045180
6	-1.796332	3.247142	-0.229474
1	-1.773549	4.319606	-0.409579
15	-1.800423	-1.294021	0.543925
8	-2.406183	-1.746337	1.831068
8	-2.588492	-2.002010	-0.719138
44	1.045262	-0.098351	0.004334
6	3.072532	-1.147534	-0.596783
6	2.723116	0.005685	-1.383252
6	2.603760	1.294976	-0.785247
6	2.562238	1.388294	0.621211
6	3.043883	-1.053226	0.791247
6	2.661082	0.193126	1.400136
1	3.212707	-2.107426	-1.081568
1	2.636260	-0.090665	-2.460588
1	2.412249	2.163934	-1.403800
1	2.331977	2.330598	1.104942
1	3.154550	-1.939107	1.406809
1	2.521011	0.243122	2.474664
6	-2.095391	-1.880952	-2.049743
1	-2.814069	-2.387668	-2.699550
1	-2.018676	-0.829455	-2.357226
1	-1.114357	-2.357580	-2.152162

IN8c(27.90)

6	2.850939	1.737204	-0.404046
6	2.680303	3.063734	-0.010203
6	1.776542	0.840476	-0.344723
6	0.499029	1.254863	0.071137
6	0.346775	2.593966	0.467821

8	2.814698	-1.143790	-2.041720
1	-0.618079	2.958670	0.814738
1	3.812020	1.389755	-0.776074
1	3.511832	3.762400	-0.052692
6	1.423899	3.486583	0.430633
1	1.275294	4.518985	0.740838
15	1.923498	-0.895207	-0.858881
8	2.476959	-1.700793	0.494799
8	0.405715	-1.335582	-0.896786
6	3.883672	-1.878562	0.651909
1	4.346709	-0.978900	1.081016
1	4.029726	-2.712369	1.345549
1	4.359037	-2.106181	-0.306856
6	-0.636966	-0.271415	2.136867
6	-0.622601	-1.428382	1.681052
6	-0.557850	0.792379	3.154311
1	0.254040	1.490092	2.932159
1	-1.488153	1.370557	3.209054
1	-0.376171	0.346351	4.139765
6	-0.448044	-2.883886	1.566727
1	-0.099871	-3.290228	2.524407
1	-1.386840	-3.382888	1.298754
1	0.296729	-3.099172	0.797185
6	-2.558382	-1.000178	-1.674144
6	-3.246382	-1.059391	-0.457667
6	-3.283227	0.106365	0.364431
6	-2.812953	1.357546	-0.118477
6	-2.208449	1.420893	-1.403714
6	-2.025625	0.244818	-2.151633
1	-2.391119	-1.901712	-2.253645
1	-3.642776	-1.999671	-0.090731
1	-3.712943	0.046086	1.359135
1	-2.909419	2.249470	0.489650
1	-1.793357	2.357442	-1.760271
1	-1.469565	0.269653	-3.081747
44	-1.063469	-0.106386	-0.084979

TS4c(321.33i)

6	2.657013	1.764912	-0.669827
6	2.484980	3.094212	-0.278861
6	1.703704	0.797977	-0.337714
6	0.533562	1.155832	0.366910
6	0.373478	2.500657	0.752378
8	2.675335	-1.001429	-2.220600
1	-0.508980	2.802151	1.312288
1	3.515307	1.465705	-1.265884
1	3.231747	3.841783	-0.532917
6	1.335431	3.458493	0.429274
1	1.185306	4.493137	0.729401
15	1.819851	-0.905742	-0.989059
8	2.450928	-1.809334	0.260625
8	0.308206	-1.338535	-1.005857
6	3.865613	-1.990131	0.316801
1	4.355900	-1.116450	0.769288
1	4.053695	-2.864397	0.947411
1	4.280095	-2.155411	-0.681765
6	0.116486	-0.086191	1.892719
6	-0.444588	-1.190065	1.570556
6	0.687045	0.629431	3.068172
1	1.695079	1.005843	2.867976
1	0.067145	1.480498	3.371520
1	0.727722	-0.074715	3.908753
6	-0.596913	-2.615241	1.940265
1	-0.152618	-2.823022	2.922283
1	-1.648737	-2.922009	1.960882
1	-0.080488	-3.226106	1.190754
6	-2.693965	-0.976804	-1.508694
6	-3.252282	-1.063960	-0.222417
6	-3.279047	0.103410	0.602031
6	-2.845065	1.348382	0.075163
6	-2.413929	1.451367	-1.283543
6	-2.291258	0.291146	-2.054106
1	-2.536104	-1.876484	-2.092905
1	-3.564189	-2.023496	0.175393
1	-3.625339	0.039766	1.628201
1	-2.865690	2.232701	0.702780
1	-2.065461	2.403382	-1.668539
1	-1.848087	0.329193	-3.042605
44	-1.150714	-0.142548	-0.058964

IN9c(28.38)

6	-3.714201	0.130777	0.162723
6	-4.521116	-1.001496	0.257527
6	-2.337915	0.016516	-0.077149
6	-1.753470	-1.257650	-0.224029
6	-2.580479	-2.388314	-0.109098
8	-0.820537	1.955542	-1.483642
1	-2.142661	-3.378548	-0.215781

1	-4.142899	1.118734	0.291238
1	-5.586914	-0.896243	0.442186
6	-3.949147	-2.267611	0.126839
1	-4.564935	-3.159915	0.207443
15	-1.256453	1.484197	-0.120180
8	-2.204232	2.591364	0.657770
8	-0.127424	1.120144	0.942347
6	-2.107595	3.968590	0.287505
1	-1.878342	4.070798	-0.777173
1	-3.074214	4.430183	0.509655
1	-1.330032	4.469123	0.877422
44	1.231474	-0.213212	0.233252
6	-0.287349	-1.499609	-0.539367
6	0.567171	-1.892097	0.541409
6	-0.074952	-2.063084	-1.944828
1	-0.719393	-2.935147	-2.125193
1	-0.328743	-1.306316	-2.695504
1	0.962547	-2.373637	-2.103626
6	0.843003	-3.130443	1.310512
1	-0.058645	-3.406764	1.876407
1	1.058262	-3.971167	0.633236
1	1.670136	-3.017745	2.017987
6	3.389457	-0.844918	0.195358
6	2.970939	-0.535226	-1.135161
6	2.741090	0.826299	-1.515436
6	2.766775	1.804971	-0.536383
6	3.117557	1.477271	0.814249
6	3.520415	0.190853	1.164666
1	3.672648	-1.861026	0.449780
1	2.950789	-1.312733	-1.890150
1	2.460711	1.067231	-2.534266
1	2.457168	2.816634	-0.773032
1	3.080747	2.255504	1.569348
1	3.852155	-0.035978	2.171821

TS5c(198.25i)

6	3.421657	0.330928	-0.858355
6	4.052681	1.542781	-1.102806
6	2.151144	0.270567	-0.286884
6	1.464490	1.456204	0.065277
6	2.122013	2.669207	-0.205417
8	1.129926	-2.041498	-1.437684
1	1.644063	3.607081	0.035151
1	3.921033	-0.593739	-1.120731
1	5.040724	1.567642	-1.545790
6	3.387793	2.715481	-0.776413
1	3.851490	3.677739	-0.961906
15	1.418980	-1.373287	-0.146028
8	2.547185	-2.149126	0.715798
8	0.203691	-1.230576	0.836685
6	2.562930	-3.585287	0.699259
1	2.439211	-3.957192	-0.318171
1	3.530329	-3.888683	1.096437
1	1.768039	-3.981485	1.335215
44	-1.403128	0.026933	0.087343
6	0.093653	1.491745	0.677719
6	-0.388352	0.528772	1.623742
6	-0.456999	2.890264	0.975830
1	0.197720	3.455128	1.649447
1	-0.569855	3.472574	0.058191
1	-1.439351	2.826153	1.443397
6	-0.146082	0.266057	3.051846
1	0.920189	0.260136	3.293990
1	-0.602867	1.100648	3.600516
1	-0.613923	-0.660036	3.382598
6	-3.487591	0.713150	0.001732
6	-2.793169	1.208946	-1.132426
6	-2.194923	0.309175	-2.065790
6	-2.229475	-1.060488	-1.792475
6	-2.924312	-1.560505	-0.647795
6	-3.584208	-0.692093	0.230935
1	-3.945834	1.406942	0.693735
1	-2.726114	2.275991	-1.294035
1	-1.655861	0.685233	-2.923284
1	-1.653549	-1.744388	-2.400358
1	-2.890477	-2.620089	-0.434067
1	-4.115952	-1.075222	1.090752

IN10c(20.93)

6	-2.962894	-1.745264	-0.929607
6	-2.922804	-3.106219	-0.641368
6	-2.081921	-0.861444	-0.296217
6	-1.094150	-1.308508	0.619921
6	-1.088507	-2.693874	0.896354
8	-2.571589	1.278092	-2.091433
1	-0.364661	-3.096944	1.595834
1	-3.674983	-1.353637	-1.650614
1	-3.609632	-3.793845	-1.125620

6	-1.980605	-3.568179	0.282850
1	-1.935894	-4.627002	0.526524
15	-2.158621	0.874882	-0.715857
8	-3.050971	1.522691	0.498118
8	-0.609472	1.374843	-0.339786
6	-3.608180	2.837503	0.323830
1	-3.923676	2.989563	-0.711671
1	-4.469387	2.901355	0.992640
1	-2.872764	3.601087	0.600201
44	1.425733	0.159821	-0.155171
6	-0.112089	-0.395127	1.265637
6	-0.019344	1.024935	0.941809
6	0.341203	-0.802242	2.662826
1	-0.507481	-0.871967	3.358931
1	0.842335	-1.775356	2.664099
1	1.056022	-0.085015	3.074162
6	0.000781	2.197573	1.884070
1	-1.006540	2.414204	2.266168
1	0.653933	2.007623	2.739320
1	0.371584	3.085639	1.361591
6	3.386414	0.438378	0.704984
6	3.133306	-0.963605	0.530630
6	2.968721	-1.524669	-0.777312
6	2.889351	-0.648072	-1.865665
6	3.099769	0.759923	-1.692440
6	3.414903	1.302423	-0.432436
1	3.583918	0.831280	1.697696
1	3.128055	-1.614081	1.399733
1	2.811879	-2.589658	-0.905880
1	2.636051	-1.025149	-2.851104
1	2.992694	1.416625	-2.549580
1	3.608119	2.363737	-0.319440

TS6c(235.77i)

6	2.556315	2.038011	-0.488213
6	2.223275	3.380573	-0.311110
6	1.561120	1.057882	-0.397556
6	0.214594	1.385222	-0.130228
6	-0.095098	2.744298	0.042663
8	0.663180	-1.341074	0.260034
1	-1.117841	3.047394	0.261284
1	3.585187	1.748554	-0.687589
1	2.989609	4.148689	-0.375336
6	0.895542	3.728175	-0.045683
1	0.629152	4.773513	0.098243
15	1.844632	-0.712261	-0.637023
8	1.919077	-1.231776	-2.047975
8	3.243570	-0.992313	0.208627
6	4.133587	-2.022639	-0.238701
1	4.050962	-2.161703	-1.319769
1	5.148321	-1.711278	0.025740
1	3.904630	-2.968708	0.266879
6	-0.780696	-0.018036	2.086596
6	0.221546	-0.769186	2.264961
6	-1.621850	0.828280	2.995820
1	-1.575410	1.872316	2.667560
1	-2.670934	0.516695	2.949801
1	-1.293823	0.778197	4.040530
6	1.277273	-1.584515	2.848679
1	1.110613	-2.651093	2.664653
1	2.263669	-1.307903	2.465902
1	1.250799	-1.413948	3.935903
44	-1.116256	-0.184497	-0.039658
6	-1.873075	0.146351	-2.136049
6	-1.714964	-1.240938	-1.947518
6	-2.466832	-1.936345	-0.939062
6	-3.268479	-1.217749	-0.052912
6	-3.318871	0.217610	-0.145371
6	-2.671792	0.888640	-1.209152
1	-1.309917	0.659217	-2.906985
1	-0.993531	-1.781239	-2.550930
1	-2.340032	-3.007081	-0.821224
1	-3.787067	-1.725204	0.754085
1	-3.895777	0.785371	0.577035
1	-2.739006	1.967500	-1.293950

IN11c(36.79)

6	2.497364	2.148500	-0.315820
6	2.162703	3.447945	0.054684
6	1.508265	1.154189	-0.318419
6	0.162003	1.409182	0.040848
6	-0.130731	2.730366	0.426335
8	0.736470	-1.390811	0.109769
1	-1.137272	2.986492	0.749984
1	3.518516	1.900992	-0.593603
1	2.918463	4.228494	0.062945
6	0.844943	3.730274	0.428840
1	0.576899	4.739574	0.734994

15	1.861256	-0.531614	-0.821925
8	1.726603	-0.970588	-2.245207
8	3.324400	-0.845173	-0.155404
6	4.115645	-1.926874	-0.680997
1	3.918082	-2.065595	-1.746598
1	5.162111	-1.657840	-0.520593
1	3.888081	-2.850751	-0.138835
6	-0.436873	-0.507115	1.846081
6	0.646550	-1.229658	1.573525
6	-0.948492	-0.114064	3.194051
1	-0.963789	0.980067	3.288799
1	-1.980395	-0.458342	3.346219
1	-0.340013	-0.510861	4.018551
6	1.674809	-1.969917	2.360242
1	1.679355	-3.037944	2.102363
1	2.684044	-1.579246	2.186000
1	1.452984	-1.881420	3.428444
44	-1.167517	-0.164504	-0.047432
6	-2.366063	0.515391	-1.947769
6	-2.232025	-0.875955	-2.022116
6	-2.718130	-1.719398	-0.964404
6	-3.281024	-1.160748	0.186349
6	-3.283571	0.266762	0.341322
6	-2.836505	1.093446	-0.724961
1	-2.003536	1.149044	-2.748866
1	-1.746510	-1.327583	-2.880653
1	-2.604881	-2.795167	-1.047985
1	-3.625571	-1.796820	0.994701
1	-3.659484	0.716135	1.254074
1	-2.858155	2.171792	-0.614055

TS7c(245.39i)

6	2.350802	2.064942	-0.879995
6	1.964126	3.394399	-0.705490
6	1.530670	1.022537	-0.450771
6	0.270996	1.242383	0.241883
6	-0.078445	2.629769	0.383605
8	0.824804	-1.408436	0.331703
1	-1.013104	2.883200	0.876174
1	3.289272	1.834953	-1.379820
1	2.593535	4.205732	-1.056461
6	0.734096	3.653046	-0.079475
1	0.405400	4.682589	0.049322
15	1.947317	-0.679546	-0.748237
8	1.839918	-1.361490	-2.072160
8	3.388382	-0.890319	0.000660
6	4.216583	-2.012944	-0.358194
1	3.943132	-2.887141	0.242213
1	4.106628	-2.249691	-1.418995
1	5.246412	-1.724507	-0.136456
6	0.028145	0.322461	1.648180
6	0.657072	-0.883760	1.637188
6	-0.339626	1.045884	2.918281
1	0.444081	1.753807	3.215732
1	-1.262403	1.618657	2.790556
1	-0.502142	0.345581	3.744584
6	1.204933	-1.753849	2.714394
1	0.812226	-2.774005	2.626008
1	2.299383	-1.815105	2.629474
1	0.958192	-1.365279	3.705175
6	-3.621750	-0.840603	0.443440
6	-3.203875	0.527282	0.223266
6	-2.684471	0.944534	-1.045632
6	-2.303295	-0.042955	-1.994029
6	-2.399119	-1.398076	-1.589095
6	-3.198588	-1.799454	-0.452549
1	-4.183064	-1.105637	1.334484
1	-3.467799	1.285604	0.954863
1	-2.537025	1.998533	-1.257450
1	-1.845701	0.227695	-2.938526
1	-1.972822	-2.166066	-2.226914
1	-3.391684	-2.853965	-0.280760
44	-1.189241	-0.252577	-0.051393

IN9c(20.88)

6	2.962692	1.745544	-0.929497
6	2.922412	3.106478	-0.641187
6	2.081876	0.861565	-0.296115
6	1.094066	1.308449	0.620074
6	1.088227	2.693798	0.896578
8	0.609543	-1.374802	-0.340021
1	0.364334	3.096723	1.596095
1	3.674810	1.354053	-1.650549
1	3.609122	3.794229	-1.125428
6	1.980177	3.568259	0.283085
1	1.935323	4.627065	0.526804
15	2.158704	-0.874712	-0.715913
8	2.571807	-1.277703	-2.091516

8	3.050983	-1.522636	0.498042
6	3.607968	-2.837531	0.323716
1	2.872053	-3.601063	0.598909
1	3.924537	-2.989180	-0.711519
1	4.468428	-2.901939	0.993431
6	0.112135	0.394884	1.265738
6	0.019434	-1.025124	0.941641
6	-0.341033	0.801696	2.663057
1	0.507706	0.871156	3.359122
1	-0.842052	1.774866	2.664607
1	-1.055902	0.084442	3.074253
6	-0.000825	-2.197980	1.883635
1	-0.371902	-3.085837	1.360997
1	1.006502	-2.414919	2.265541
1	-0.653805	-2.008085	2.739025
6	-3.386232	-0.438062	0.705172
6	-3.133064	0.963875	0.530495
6	-2.968652	1.524665	-0.777587
6	-2.889416	0.647812	-1.865743
6	-3.099906	-0.760130	-1.692235
6	-3.414880	-1.302344	-0.432072
1	-3.583692	-0.830749	1.697978
1	-3.127621	1.614509	1.399479
1	-2.811729	2.589612	-0.906395
1	-2.636149	1.024672	-2.851276
1	-2.992951	-1.417007	-2.549255
1	-3.608141	-2.363623	-0.318818
44	-1.425635	-0.159824	-0.155202

IN5f(26.22)

6	1.715856	2.590793	-0.324817
6	1.119415	3.825071	-0.069619
6	0.947406	1.424510	-0.248819
6	-0.426594	1.450146	0.089170
6	-0.998358	2.712463	0.338648
8	0.436001	-1.192750	-0.126313
1	-2.048823	2.796262	0.604163
1	2.768683	2.535235	-0.590748
1	1.703948	4.738554	-0.131865
6	-0.238119	3.880674	0.264134
1	-0.704965	4.841275	0.466147
15	1.621487	-0.221666	-0.547546
8	1.737023	-0.258783	-2.180040
8	2.958848	-0.533469	0.110730
6	2.231920	-1.437953	-2.829602
1	2.281019	-1.207148	-3.895202
1	3.232720	-1.693759	-2.465230
1	1.554846	-2.284165	-2.669362
44	-1.390928	-0.361314	0.200307
6	-3.380874	0.294190	-0.475964
6	-2.972049	-0.887793	-1.170180
6	-2.798554	-2.129539	-0.467538
6	-2.794168	-2.126735	0.924039
6	-2.973509	-0.882213	1.620895
6	-3.397662	0.291665	0.934918
1	-3.567875	1.207739	-1.028769
1	-2.863137	-0.861547	-2.249196
1	-2.534477	-3.025481	-1.018520
1	-2.531735	-3.021312	1.477874
1	-2.862646	-0.855657	2.700052
1	-3.603820	1.199680	1.489102
19	4.673241	-1.226239	1.724454

IN6f(11.58)

6	-1.927000	-2.510429	0.251360
6	-1.381596	-3.769960	0.020064
6	-1.114491	-1.369658	0.183499
6	0.258906	-1.449946	-0.117288
6	0.787122	-2.734203	-0.340205
8	-0.560301	1.207436	-0.045271
1	1.845098	-2.865375	-0.552316
1	-2.982112	-2.406296	0.495706
1	-2.001935	-4.659908	0.075549
6	-0.019456	-3.874022	-0.278136
1	0.421946	-4.851334	-0.458567
15	-1.753976	0.295542	0.415251
8	-1.919483	0.396878	2.053866
6	-2.769330	1.386318	2.636632
1	-3.772376	1.351955	2.198217
1	-2.829717	1.158577	3.703201
1	-2.356277	2.394481	2.508564
6	1.774381	-0.253170	1.913545
6	1.443974	0.944221	1.900827
6	2.226636	-1.545031	2.458772
1	1.474278	-2.324084	2.311554
1	3.154362	-1.881670	1.982312
1	2.414316	-1.438725	3.533657
6	1.087589	2.302696	2.338269

1	0.198634	2.646776	1.803561
1	0.878154	2.302187	3.414646
1	1.903328	3.010749	2.149710
44	1.344492	0.317820	-0.264420
6	1.966221	2.041099	-1.765145
6	3.032405	1.924712	-0.868980
6	3.565589	0.628281	-0.599142
6	3.161008	-0.500224	-1.358400
6	2.141079	-0.347346	-2.338571
6	1.504910	0.895577	-2.497583
1	1.463517	2.993354	-1.895986
1	3.380981	2.785198	-0.308907
1	4.319433	0.509893	0.172037
1	3.626943	-1.464331	-1.191707
1	1.789504	-1.211166	-2.892488
1	0.666914	0.994690	-3.177953
8	-3.101496	0.590523	-0.242914
19	-5.064235	0.861351	-1.675138

6	-1.589093	-1.283013	2.942143
1	-1.508977	-0.817650	3.932283
1	-2.580034	-1.745257	2.862004
1	-0.847428	-2.087110	2.875875
6	-1.750023	-2.417428	-1.350885
6	-2.786247	-2.272038	-0.412710
6	-3.500502	-1.034892	-0.363160
6	-3.235243	-0.024341	-1.323527
6	-2.273852	-0.246280	-2.357495
6	-1.511510	-1.418148	-2.353424
1	-1.113666	-3.294959	-1.315437
1	-2.972290	-3.045797	0.323497
1	-4.246936	-0.865783	0.405692
1	-3.782681	0.910743	-1.283367
1	-2.068315	0.537880	-3.078079
1	-0.713433	-1.559648	-3.073066
44	-1.345525	-0.495228	-0.187459
19	5.101759	-1.341810	-1.303660

TS4f(313.24i)

6	1.733540	2.522262	-0.644604
6	1.081209	3.640662	-1.164162
6	0.996621	1.451869	-0.129495
6	-0.416985	1.467531	-0.138178
6	-1.055283	2.609547	-0.660220
8	3.127204	-0.373011	-0.242429
1	-2.140616	2.670831	-0.656476
1	2.819178	2.468802	-0.643911
1	1.652463	4.477431	-1.555430
6	-0.317248	3.674301	-1.176393
1	-0.835329	4.538434	-1.584288
15	1.773416	-0.089959	0.407037
8	1.981917	0.186663	2.020381
8	0.664267	-1.170520	0.190583
6	2.525744	-0.849088	2.839619
1	3.551566	-1.094527	2.537686
1	2.537194	-0.469704	3.863693
1	1.909426	-1.754818	2.795036
6	-1.201508	0.963300	1.657674
6	-1.372698	-0.287476	1.862908
6	-1.335081	2.292816	2.314798
1	-0.418771	2.884613	2.232015
1	-2.158077	2.878914	1.892895
1	-1.553006	2.118890	3.375941

IN7f(26.70)

6	3.097830	1.672847	-0.141933
6	3.381455	2.928149	-0.673793
6	1.780766	1.244177	0.073441
6	0.683128	2.100352	-0.225502
6	1.004132	3.346356	-0.805398
8	2.900078	-1.284826	0.347950
1	0.214612	4.032065	-1.082644
1	3.906019	0.993811	0.110790
1	4.409093	3.246285	-0.822597
6	2.318268	3.755273	-1.025349
1	2.503113	4.731683	-1.464630
15	1.607775	-0.496101	0.537379
8	1.227012	-0.395292	2.139684
8	0.399115	-1.087564	-0.265303
6	1.140489	-1.603535	2.906156
1	0.999356	-1.305892	3.947126
1	0.287996	-2.211788	2.581800
1	2.063364	-2.185514	2.816217
44	-1.499279	-0.246845	-0.143103
6	-0.756497	1.805343	0.075636
6	-1.207951	0.999035	1.175097
6	-1.744632	2.924665	-0.278364
1	-1.478446	3.868159	0.216059
1	-1.781017	3.107962	-1.358034

1	-2.756610	2.667397	0.045539	1	-2.797798	2.287644	1.392067
6	-1.547569	1.283148	2.586700	6	-0.913636	0.480102	2.958808
1	-0.604924	1.404032	3.138692	1	0.050788	0.873126	3.299027
1	-2.092908	2.233411	2.675040	1	-1.698030	1.133589	3.368762
1	-2.123498	0.480582	3.056231	1	-1.071377	-0.531372	3.340701
6	-3.687770	-0.561281	0.246490	6	-3.798094	-0.788670	0.102147
6	-3.534245	0.077526	-1.019220	6	-3.521219	-0.031858	-1.076353
6	-2.976088	-0.642081	-2.127276	6	-2.735277	-0.594775	-2.133824
6	-2.424318	-1.893108	-1.897398	6	-2.131752	-1.837301	-1.927413
6	-2.479772	-2.485130	-0.591819	6	-2.363945	-2.571913	-0.717086
6	-3.190485	-1.879451	0.450137	6	-3.247997	-2.096673	0.265687
1	-4.209925	-0.049387	1.048171	1	-4.444162	-0.371433	0.867417
1	-3.953410	1.063541	-1.181211	1	-3.958352	0.953096	-1.195792
1	-2.937831	-0.183297	-3.108897	1	-2.559257	-0.033219	-3.044131
1	-1.903210	-2.415856	-2.692367	1	-1.450091	-2.239695	-2.669171
1	-1.993043	-3.440238	-0.426427	1	-1.847229	-3.513374	-0.563319
1	-3.310626	-2.375398	1.406592	1	-3.458598	-2.680906	1.154054
19	4.277025	-2.718479	-1.095468	19	4.224290	-2.575683	-1.410312

TS5f(204.58i)

6	2.630190	1.877156	-0.938043
6	2.526184	3.050824	-1.678374
6	1.537598	1.362825	-0.227355
6	0.280430	2.024752	-0.240487
6	0.202994	3.204151	-1.012829
8	2.823849	-1.099524	-0.038740
1	-0.730871	3.749454	-1.068443
1	3.575929	1.344310	-0.896633
1	3.383492	3.445397	-2.215249
6	1.295689	3.706620	-1.714638
1	1.181273	4.621932	-2.288869
15	1.792812	-0.198434	0.632631
8	2.330545	0.295084	2.107471
8	0.381092	-0.858148	0.869550
6	2.818816	-0.679307	3.039953
1	3.207276	-0.123346	3.895362
1	2.013587	-1.344632	3.371108
1	3.623396	-1.274226	2.595127
44	-1.636259	-0.426391	-0.020943
6	-0.940682	1.570834	0.492680
6	-1.026195	0.538255	1.486900
6	-2.010313	2.649842	0.724071
1	-1.577305	3.555142	1.168764
1	-2.501583	2.935731	-0.212127

IN8f(11.15)

6	0.523836	1.210265	-2.138739
6	-0.251278	2.117596	-2.802636
6	0.353153	0.972151	-0.722238
6	-0.717599	1.690413	-0.026443
6	-1.450513	2.692902	-0.759516
8	2.708969	-0.560737	-0.287843
1	-2.184902	3.296760	-0.236825
1	1.316717	0.678076	-2.658146
1	-0.103720	2.290599	-3.864616
6	-1.221054	2.893328	-2.091546
1	-1.779680	3.658136	-2.623904
15	1.813311	0.557692	0.218305
8	2.624025	1.972769	0.317556
8	1.242310	0.323280	1.714330
6	3.750133	2.118276	1.192009
1	4.108247	3.141722	1.068844
1	3.454897	1.955097	2.233717
1	4.552769	1.421861	0.919942
44	-1.211273	-0.479949	0.039090
6	-1.050139	1.244908	1.307859
6	-0.217925	0.155446	1.797768
6	-2.150788	1.899628	2.108165
1	-1.785735	2.829375	2.566142
1	-3.019259	2.149838	1.491598

1	-2.495437	1.254390	2.919190	1	0.934397	3.640438	-0.846691
6	-0.462637	-0.502593	3.133939	1	-0.549887	4.270897	-1.608533
1	-0.077243	0.116808	3.955320	1	-0.462459	4.134227	0.158121
1	-1.525322	-0.683105	3.308148	44	-1.341153	-0.085549	0.182666
1	0.056654	-1.465525	3.174578	6	-1.803300	-0.856132	2.305700
6	-1.488457	-2.724760	0.328727	6	-2.784439	0.164239	2.066674
6	-2.653270	-2.039088	0.782054	6	-3.583195	0.105626	0.924730
6	-3.391042	-1.210255	-0.108251	6	-3.385447	-0.952741	-0.026924
6	-2.965575	-1.061296	-1.450600	6	-2.475228	-1.999369	0.252021
6	-1.768273	-1.683961	-1.868666	6	-1.700374	-1.969170	1.453451
6	-1.043871	-2.550253	-0.998824	1	-1.142508	-0.764138	3.161087
1	-0.935545	-3.357674	1.014725	1	-2.856636	1.006655	2.745600
1	-2.981205	-2.156533	1.809005	1	-4.293074	0.897864	0.711710
1	-4.280918	-0.698496	0.242938	1	-3.965984	-0.975529	-0.942327
1	-3.505524	-0.410066	-2.128681	1	-2.360220	-2.817990	-0.449356
1	-1.391932	-1.496177	-2.868466	1	-0.992305	-2.762845	1.665003
1	-0.141648	-3.039553	-1.347172	8	2.184855	0.153755	1.795557
19	4.424313	-2.330230	-0.403283	19	3.014197	-2.215424	1.279320

TS6f(235.00i)

6	2.575220	-0.654162	-1.622532
6	2.414304	-1.642551	-2.595081
6	1.476646	-0.263596	-0.837431
6	0.184229	-0.818068	-1.008101
6	0.058342	-1.805770	-2.005653
8	0.128578	1.427698	0.739444
1	-0.912662	-2.252785	-2.206185
1	3.536347	-0.156401	-1.498469
1	3.249049	-1.937858	-3.224821
6	1.149808	-2.217776	-2.776563
1	1.009769	-2.977687	-3.541695
15	1.607476	0.855140	0.571852
8	2.577723	2.073690	0.066672
6	3.317827	2.857970	1.024650
1	3.649602	2.235089	1.859040
1	4.178081	3.268631	0.492709
1	2.696507	3.676394	1.401808
6	-1.480875	1.381848	-1.340645
6	-0.744262	2.339667	-0.936634
6	-2.325890	1.271935	-2.582215
1	-2.027133	0.383611	-3.148965
1	-3.382246	1.155636	-2.317871
1	-2.231332	2.147254	-3.233382
6	-0.156317	3.660965	-0.780837

IN9f(28.25)

6	2.628630	1.063366	1.477147
6	2.373393	1.998664	2.478691
6	1.553366	0.502807	0.765186
6	0.192593	0.831230	1.019614
6	-0.014377	1.770435	2.051993
8	0.456699	-1.503238	-0.698721
1	-1.027712	2.042525	2.336190
1	3.648077	0.754201	1.258293
1	3.190239	2.430676	3.049108
6	1.045827	2.347095	2.759104
1	0.834374	3.060523	3.552047
15	1.811357	-0.532080	-0.676692
8	1.897113	0.232864	-1.978911
8	3.090220	-1.464363	-0.354707
6	3.812291	-2.129383	-1.423065
1	3.334554	-3.086919	-1.645311
1	3.835034	-1.502027	-2.316711
1	4.822171	-2.296223	-1.047416
6	-0.846121	-1.660872	1.174718
6	0.138359	-2.284304	0.535168
6	-1.496290	-2.073790	2.455489
1	-1.378524	-1.286794	3.211631
1	-2.574595	-2.232636	2.327146
1	-1.071499	-2.997702	2.867531

6	0.883618	-3.566040	0.680440	6	0.679614	3.440396	-1.029203
1	0.764197	-4.195181	-0.211083	1	0.247767	4.082892	-0.252724
1	1.955463	-3.408746	0.846076	1	1.770065	3.574874	-0.997797
1	0.487352	-4.119808	1.536640	1	0.321034	3.775266	-2.004867
6	-3.503382	-0.770174	-0.371827	6	-3.603852	0.988208	0.111154
6	-3.339511	0.327550	0.534812	6	-3.263433	-0.217158	-0.600299
6	-2.749844	1.535581	0.073785	6	-2.778662	-1.371023	0.089680
6	-2.340802	1.671656	-1.289593	6	-2.437367	-1.261915	1.465044
6	-2.376763	0.540097	-2.115022	6	-2.505256	0.022479	2.061038
6	-2.985559	-0.678587	-1.667232	6	-3.203137	1.111446	1.431475
1	-3.951514	-1.695768	-0.026966	1	-4.091858	1.807367	-0.406873
1	-3.687816	0.250853	1.558401	1	-3.512441	-0.301706	-1.653396
1	-2.655270	2.375135	0.753735	1	-2.676437	-2.313666	-0.438417
1	-1.960673	2.619132	-1.658893	1	-2.125942	-2.127232	2.043430
1	-1.967886	0.583725	-3.119647	1	-2.131944	0.160678	3.071134
1	-3.014899	-1.536301	-2.330008	1	-3.342363	2.040033	1.974647
44	-1.280388	-0.109591	-0.096448	44	-1.260054	0.204240	0.145758
19	1.483200	2.756339	-1.427601	19	0.888557	-2.542861	1.699300

TS7f(261.17i)

6	2.548883	-1.542833	-1.132303
6	2.185800	-2.492244	-2.086491
6	1.606113	-0.631504	-0.638645
6	0.239048	-0.539903	-1.147966
6	-0.068562	-1.547098	-2.134339
8	0.652686	1.549865	0.524196
1	-1.065164	-1.566006	-2.565553
1	3.570469	-1.512564	-0.756518
1	2.910181	-3.203701	-2.468011
6	0.859495	-2.479893	-2.566064
1	0.555666	-3.216382	-3.306430
15	1.948664	0.463748	0.710391
8	1.886758	-0.111466	2.104103
8	3.283622	1.298880	0.366838
6	4.046720	1.965338	1.408183
1	3.618892	2.952974	1.597541
1	4.041667	1.370995	2.323920
1	5.060492	2.065176	1.020029
6	-0.228329	1.048663	-1.561282
6	0.331730	2.015664	-0.787909
6	-0.719182	1.294622	-2.964107
1	0.087226	1.149653	-3.693300
1	-1.522406	0.603645	-3.231280
1	-1.107328	2.311549	-3.080335

IN10g(8.09)

8	0.572589	1.745856	0.157845
6	1.051703	1.982689	1.322378
8	2.114136	1.359881	1.643861
6	0.365953	2.921494	2.268912
1	1.063730	3.271559	3.032526
1	-0.062519	3.764777	1.721313
1	-0.456922	2.387796	2.759626
47	-4.123225	0.046864	-0.632952
6	0.737816	-2.081729	1.328452
8	1.670151	-2.813099	1.018199
8	0.588894	-0.827152	0.919848
6	-0.382234	-2.544535	2.247872
1	-0.183220	-3.563497	2.584393
1	-0.462196	-1.875796	3.111387
1	-1.343633	-2.511362	1.722092
47	-1.621244	-0.004208	0.142115
44	2.034304	0.198897	-0.156965
6	2.660180	0.839242	-2.173159
6	3.756657	1.059774	-1.306269
6	4.209561	-0.015117	-0.484486
6	3.629537	-1.304229	-0.582493
6	2.552502	-1.516551	-1.492976
6	2.067007	-0.458856	-2.293158
1	2.217220	1.677106	-2.701562

1	4.165790	2.055642	-1.181475
1	4.954972	0.177329	0.280543
1	3.902737	-2.090372	0.107464
1	2.034487	-2.466767	-1.471827
1	1.191941	-0.599698	-2.917138

TS8g(82.28i)

8	0.631248	2.336557	-0.439105
6	1.838583	2.420689	-0.095655
8	2.608187	1.402610	0.000698
6	2.436170	3.772976	0.226683
1	3.525731	3.748072	0.158386
1	2.027241	4.534311	-0.442339
1	2.156972	4.041530	1.252442
47	-3.447931	-0.406304	-0.209573
6	0.839437	-0.869931	2.602148
8	1.108671	-2.061874	2.499670
8	1.006633	0.038044	1.654770
6	0.259725	-0.266562	3.871492
1	0.212571	-1.022493	4.657294
1	0.867974	0.581693	4.201234
1	-0.747363	0.114267	3.666008
47	-1.253654	1.036206	-0.181250
44	1.472551	-0.339622	-0.260057
6	1.106743	-1.054076	-2.362117
6	2.495216	-0.898670	-2.192590
6	3.129999	-1.498826	-1.063166
6	2.379765	-2.303647	-0.157432
6	0.988213	-2.537563	-0.390888
6	0.355750	-1.884912	-1.463510
1	0.586168	-0.493711	-3.130842
1	3.050299	-0.214532	-2.824409
1	4.167597	-1.268805	-0.845099
1	2.833069	-2.679352	0.750750
1	0.409402	-3.073724	0.349014
1	-0.722900	-1.928881	-1.559326

IN11g(17.60)

8	0.501293	2.840532	-0.452500
6	1.624605	2.410628	-0.799507
8	1.955682	1.183454	-0.978710
6	2.741927	3.413993	-1.037183
1	3.403105	3.077072	-1.839548
1	2.328614	4.397618	-1.268750
1	3.339153	3.493359	-0.120858
47	-3.002062	-0.479389	0.088993
6	1.473462	-0.284146	2.593790
8	1.881003	-1.437642	2.701208
8	1.137230	0.312839	1.468118
6	1.301463	0.630492	3.798903
1	1.665552	0.134354	4.700445
1	1.840653	1.570196	3.642848
1	0.241547	0.881820	3.920642
47	-1.125578	1.348822	-0.099346
44	0.992946	-0.574060	-0.344674
6	0.129903	-1.936223	-1.915147
6	1.430569	-1.575048	-2.314195
6	2.515878	-1.740187	-1.400162
6	2.300229	-2.316744	-0.119196
6	0.987514	-2.742005	0.255717
6	-0.087134	-2.535372	-0.629799
1	-0.718039	-1.706946	-2.549775
1	1.588810	-1.050943	-3.249891
1	3.490800	-1.335473	-1.649725
1	3.099196	-2.359926	0.609888
1	0.815502	-3.090765	1.264871
1	-1.097582	-2.760908	-0.312139

IN10h(19.90)

47	-0.632036	-1.884110	-0.665571
6	-1.446722	2.243805	-0.835777
8	-2.250572	2.016889	0.119955
8	-0.061474	1.899698	-0.561575
47	-1.741070	-0.011675	0.905682
8	-1.598619	2.763858	-1.926960
44	0.952491	0.384829	-0.089659
6	3.033005	0.993713	-0.646787
6	2.734846	1.533245	0.623810
6	2.248009	0.665726	1.650505
6	2.203658	-0.744184	1.444729
6	2.570908	-1.285308	0.190709
6	2.918339	-0.416572	-0.871521
1	3.284486	1.653387	-1.470838
1	2.744968	2.607012	0.776506
1	1.911875	1.081013	2.594695
1	1.819809	-1.389585	2.225456
1	2.482261	-2.350036	0.011529
1	3.096053	-0.818490	-1.862959

TS8h(106.52i)

47	-0.957963	-1.908222	-0.606871
6	-0.878195	2.596127	-0.711813
8	-1.496457	2.341522	0.388445
8	0.318364	1.861962	-0.932678
47	-1.717175	0.218430	0.782472
8	-1.132361	3.433663	-1.558833
44	0.962513	0.288772	-0.072726
6	3.102295	0.722363	-0.532394
6	2.820803	1.098175	0.800861
6	2.252368	0.142281	1.703875
6	2.090673	-1.217219	1.312652
6	2.339515	-1.588928	-0.017255
6	2.758651	-0.595125	-0.960268
1	3.426825	1.465170	-1.252711
1	2.938856	2.130735	1.112208
1	1.951578	0.456402	2.697273
1	1.651569	-1.925800	2.004718
1	2.123628	-2.595140	-0.356117
1	2.855456	-0.860319	-2.008083

IN11h(13.10)

47	-1.457249	-0.730432	-1.244888
6	-0.248154	2.362306	-0.393414
8	0.125949	1.859860	0.798162
8	0.147823	1.507262	-1.352527
47	-1.477978	-0.236992	1.395684
8	-0.852524	3.397824	-0.568521
44	0.940244	0.151534	-0.022305
6	2.732108	-0.400736	-1.232100
6	3.117646	0.510999	-0.203309
6	2.827061	0.194339	1.154403
6	2.185130	-1.026909	1.493362
6	1.770772	-1.895870	0.451021
6	2.088862	-1.620466	-0.910618
1	2.880389	-0.127099	-2.271672
1	3.566046	1.464651	-0.458746
1	3.044481	0.921836	1.929700
1	1.929884	-1.245989	2.523412
1	1.190701	-2.779390	0.692526
1	1.762898	-2.294071	-1.694164

IN9g(21.21)

6	1.942654	-2.333728	1.436386
6	2.472627	-1.884759	2.641894
6	0.664029	-1.928303	1.028295
6	-0.126372	-1.044370	1.809561
6	0.441363	-0.611413	3.026233
8	-1.243069	-1.473708	-0.831178
1	-0.116144	0.055999	3.672495
1	2.516665	-3.011184	0.809550
1	3.458367	-2.204589	2.963710
6	1.711216	-1.018385	3.430206
1	2.107244	-0.656363	4.374517
15	0.063432	-2.477745	-0.559173
8	1.006346	-2.425542	-1.730770
8	-0.603907	-3.923240	-0.282030
6	-0.972183	-4.795702	-1.378645
1	-1.921462	-4.469036	-1.812355
1	-0.191078	-4.799980	-2.142066
1	-1.083552	-5.789943	-0.945618
6	-1.516265	-0.633863	1.424523
6	-2.170204	-1.157636	0.241664
6	-2.428833	-0.315646	2.605364
1	-2.453075	-1.145288	3.324612
1	-2.096842	0.576342	3.144791
1	-3.453126	-0.122475	2.280690
6	-3.467285	-1.904124	0.112918
1	-3.844043	-1.840564	-0.912891
1	-3.325545	-2.963371	0.366206
1	-4.225469	-1.498930	0.786106
6	-2.216751	2.705998	0.578168
6	-1.238010	3.091702	-0.384875
6	-1.408443	2.633354	-1.714763
6	-2.605233	1.987278	-2.132627
6	-3.621209	1.706256	-1.202061
6	-3.409151	2.030890	0.170314
1	-2.088742	2.979789	1.619645
1	-0.404780	3.732181	-0.116560
1	-0.627790	2.821390	-2.444394
1	-2.713772	1.681549	-3.167729
1	-4.539061	1.220939	-1.516721
1	-4.166308	1.796213	0.910526
44	-1.712995	0.732532	-0.291774
8	2.945777	2.150087	0.811583
8	3.256940	0.937625	-1.043687
6	3.679857	1.690277	-0.115955

6	5.155716	2.064612	-0.095699
1	5.369091	2.798116	0.682813
1	5.757632	1.166274	0.085368
1	5.450864	2.464813	-1.071263
47	0.909649	1.417548	0.345772
19	2.949257	-0.963066	-2.641780

IN12g(23.28)

8	0.702114	-2.918814	0.312769
6	-0.487033	-2.636837	0.547515
8	-1.047627	-1.477033	0.403239
6	-1.404750	-3.741891	1.068780
1	-2.284817	-3.857630	0.423044
1	-0.872270	-4.692866	1.099914
1	-1.742433	-3.506254	2.086509
47	1.638290	1.522634	0.969874
6	-2.212507	1.862997	0.875175
8	-0.972020	1.526220	0.719346
8	-3.179967	1.255633	0.379560
6	-2.421830	3.099088	1.737581
1	-3.479509	3.229890	1.972625
1	-1.836330	3.030682	2.659592
1	-2.068880	3.984158	1.195682
47	2.067563	-1.063672	0.513584
44	-0.222388	0.181260	-0.766765
6	1.073709	-0.273388	-2.552976
6	-0.097728	-1.054664	-2.641841
6	-1.386074	-0.432137	-2.630505
6	-1.493149	0.963907	-2.479568
6	-0.307037	1.753148	-2.345128
6	0.968317	1.147118	-2.399236
1	2.046395	-0.750668	-2.562105
1	-0.016474	-2.135454	-2.678339
1	-2.280768	-1.044033	-2.679182
1	-2.466864	1.430080	-2.382839
1	-0.388912	2.817791	-2.155695
1	1.862499	1.748674	-2.291558
19	-3.593325	-1.105955	1.038390

TS9g(79.04i)

8	0.340548	-1.432705	1.783155
6	1.561177	-1.618419	1.584677
8	2.268891	-0.778716	0.904404
6	2.241000	-2.854110	2.132380
1	3.312617	-2.696833	2.285822
1	1.776728	-3.147614	3.076264
1	2.101512	-3.682066	1.426054
47	-3.806425	-0.043983	-0.557935
6	1.620732	-0.491425	-2.341655
8	0.694540	-0.357796	-1.445564
8	2.787541	-0.071392	-2.223020
6	1.161309	-1.195851	-3.606220
1	2.010371	-1.653852	-4.118431
1	0.393628	-1.941487	-3.388055
1	0.719830	-0.452652	-4.281136
47	-1.615642	-0.947080	0.576644
44	0.860473	0.752282	0.275117
6	0.262800	2.247121	1.879773
6	1.656602	2.305575	1.709965
6	2.208334	2.484000	0.401718
6	1.350818	2.631229	-0.722637
6	-0.065307	2.611912	-0.544958
6	-0.598029	2.392506	0.743684
1	-0.160406	2.009273	2.849066
1	2.313561	2.119739	2.552910
1	3.283548	2.465752	0.259199
1	1.775899	2.688703	-1.718278
1	-0.725080	2.643576	-1.404187
1	-1.666337	2.262946	0.864460
19	4.458507	-0.899276	-0.576859

IN13g(9.96)

8	-0.853994	0.185304	-1.992771
6	-1.933902	-0.460216	-2.140558
8	-2.811315	-0.341506	-1.204642
6	-2.157768	-1.342428	-3.332223
1	-3.215336	-1.363812	-3.608588
1	-1.557261	-0.993127	-4.174703
1	-1.837270	-2.363801	-3.091470
47	4.357015	0.087936	-0.078875
6	-1.176278	-1.793386	1.292290
8	-0.544067	-0.961315	0.510932
8	-2.358620	-1.644685	1.641847
6	-0.350355	-2.976813	1.759606
1	-0.971502	-3.674873	2.323339
1	0.110210	-3.486810	0.907494
1	0.466390	-2.623625	2.399290
47	1.894771	-0.769029	-0.045606

44	-1.375145	0.882236	-0.057692
6	-1.238181	3.072180	-0.536869
6	-2.489252	2.832297	0.060954
6	-2.560362	2.173693	1.334737
6	-1.382897	1.782369	2.001058
6	-0.112811	2.011552	1.384602
6	-0.041223	2.638598	0.121822
1	-1.182641	3.493354	-1.534747
1	-3.400813	3.082991	-0.470912
1	-3.527151	1.937712	1.766579
1	-1.444515	1.224157	2.928113
1	0.791469	1.610994	1.830307
1	0.916813	2.712125	-0.382458
19	-4.488095	-1.678514	0.325336

IN9h(8.15)

6	-1.293202	-3.046445	1.631837
6	-1.193471	-2.969233	3.017212
6	-1.848367	-1.989161	0.899602
6	-2.309807	-0.804623	1.529741
6	-2.196764	-0.760017	2.934874
8	-2.126300	-0.517940	-1.343045
1	-2.545610	0.113241	3.473853
1	-0.945801	-3.934638	1.111212
1	-0.771433	-3.791356	3.586110
6	-1.649158	-1.815585	3.660744
1	-1.585291	-1.738033	4.742534
15	-1.895077	-2.109058	-0.881049
8	-0.718824	-2.716114	-1.593811
8	-3.321319	-2.805942	-1.209159
6	-3.611485	-3.301894	-2.537065
1	-3.874034	-2.471871	-3.199428
1	-2.752946	-3.844432	-2.939457
1	-4.464160	-3.972636	-2.427441
6	-2.943931	0.324960	0.778840
6	-3.122608	0.290736	-0.660388
6	-4.000120	1.094356	1.566737
1	-4.766732	0.419034	1.969930
1	-3.564442	1.635597	2.412365
1	-4.501768	1.837096	0.943284
6	-4.374093	0.465725	-1.473148
1	-4.119047	0.696198	-2.512436
1	-4.976762	-0.452218	-1.457616
1	-4.990597	1.277777	-1.081617
6	-2.292453	3.598659	-0.212550
6	-1.294067	3.388000	0.789467
6	0.063535	3.133066	0.422625
6	0.338073	2.923458	-0.955760
6	-0.646480	3.135168	-1.956632
6	-1.961554	3.489793	-1.595485
1	-3.301777	3.855878	0.089758
1	-1.560197	3.498752	1.835317
1	0.866098	3.166599	1.153139
1	1.337489	2.618553	-1.249503
1	-0.389948	2.980158	-2.998986
1	-2.714385	3.666440	-2.356506
44	-1.572687	1.553467	-0.403296
6	2.951620	-0.737387	0.199947
8	1.818094	-1.285486	0.492706
8	3.165416	0.507138	0.530191
8	3.852256	-1.405740	-0.448822
47	5.309585	0.404176	-0.236321
47	0.609438	0.538840	0.995045
19	1.894896	-3.122280	-1.340099

IN12h(19.32)

47	0.886961	-1.949842	-0.822171
6	-2.073405	1.094373	-0.384283
8	-2.524198	0.295076	0.525047
8	-0.762598	1.477724	-0.327121
47	-0.810759	-1.089238	1.084202
8	-2.761813	1.606638	-1.281757
44	1.018786	0.767174	-0.098924
6	2.298689	2.569963	-0.608711
6	1.940569	2.656462	0.750019
6	2.160045	1.529530	1.602037
6	2.870099	0.386840	1.128317
6	3.277345	0.325236	-0.223773
6	2.919294	1.378148	-1.103938
1	2.029241	3.364774	-1.296176
1	1.389701	3.515805	1.116864
1	1.793193	1.544840	2.622870
1	3.032789	-0.457009	1.787766
1	3.769370	-0.559879	-0.608614
1	3.124370	1.283826	-2.165150
19	-5.027037	0.721573	-0.405670

TS9h(87.31i)

47	1.119768	-1.958470	-0.748381
6	-1.981101	0.920453	-0.770931
8	-2.207169	0.421049	0.420404
8	-0.719955	1.257625	-1.091434
47	-0.771456	-1.216101	0.986752
8	-2.885386	1.159354	-1.586529
44	0.876229	0.820818	-0.044819
6	2.016353	2.641855	-0.705176
6	1.502954	2.884731	0.585293
6	1.754178	1.938874	1.628643
6	2.646696	0.844829	1.429696
6	3.150955	0.595654	0.144444
6	2.762022	1.447362	-0.941424
1	1.734005	3.278657	-1.536554
1	0.830761	3.718118	0.759012
1	1.272566	2.066459	2.592482
1	2.832749	0.146621	2.237326
1	3.757009	-0.281845	-0.047042
1	3.067594	1.198800	-1.952373
19	-4.896404	0.663962	-0.076158

IN13h(21.64)

47	0.778228	-1.712499	-1.151645
6	-1.860840	0.276147	-1.076671
8	-1.677253	0.684260	0.181975
8	-0.717159	0.275990	-1.739398
47	0.392876	-1.445353	1.491874
8	-2.956098	-0.059909	-1.528535
44	0.391200	0.920452	-0.081347
6	1.452943	2.556372	-1.173711
6	0.583987	3.146044	-0.218439
6	0.697413	2.773169	1.154731
6	1.679209	1.844883	1.571036
6	2.527562	1.244903	0.593309
6	2.443649	1.618303	-0.769453
1	1.318731	2.775484	-2.228030
1	-0.192351	3.832428	-0.537847
1	-0.005534	3.171928	1.878950
1	1.750660	1.550351	2.611232
1	3.232236	0.478471	0.894687
1	3.081597	1.144335	-1.506232
19	-4.409448	0.368660	0.562030

CAT1(7.43)

6	-3.431297	-0.684564	-1.356027
6	-3.527186	-1.430448	-0.156578
6	-3.549383	-0.746440	1.087927
1	-3.491701	-1.306361	2.016504
6	-3.549436	0.683818	1.123528
6	-3.531860	1.430317	-0.085760
1	-3.461850	2.512873	-0.054669
6	-3.436321	0.746933	-1.320947
1	-3.293359	1.307169	-2.240000
6	3.431666	0.657547	-1.369140
6	3.441724	-0.772782	-1.303007
6	3.534550	-1.428029	-0.052810
1	3.466093	-2.509736	0.002357
6	3.547493	-0.654515	1.140078
6	3.546422	0.774578	1.072972
1	3.486023	1.354759	1.988843
6	3.523551	1.430559	-0.186230
1	3.447065	2.512011	-0.234634
17	-0.000004	1.609477	0.324943
17	-0.000400	-1.609801	0.324865
44	-1.798464	-0.000062	-0.013541
44	1.798658	-0.000908	-0.015011
1	-3.453123	-2.512898	-0.180548
1	-3.283728	-1.197666	-2.301553
1	-3.492006	1.196841	2.078855
1	3.284389	1.149265	-2.326049
1	3.302785	-1.353483	-2.209891
1	3.488196	-1.146442	2.106328

CAT2(16.34)

6	0.739277	-0.864439	1.365819
6	0.656884	0.550857	1.529549
6	1.185380	1.406084	0.515211
1	1.028373	2.478130	0.581792
6	1.836943	0.854766	-0.624709
6	1.927802	-0.544593	-0.779803
1	2.327072	-0.963657	-1.697677
6	1.358374	-1.404464	0.197385
1	1.328626	-2.475518	0.022987
17	-2.459184	0.000516	-0.004173
44	-0.264465	0.000076	-0.342696
1	0.254465	-1.523726	2.078509
1	0.109745	0.971893	2.366698
1	2.166352	1.511488	-1.423458

CAT3(27.38)

6	2.625886	-0.005778	-0.000544
8	2.369131	1.294472	-0.001938
8	1.605374	-0.738130	0.004043
44	-0.240677	0.164243	-0.209840
6	-1.335307	-0.860613	1.382297
6	-1.669793	0.527228	1.420133
6	-2.231342	1.172260	0.275197
6	-2.393321	0.454865	-0.924311
6	-1.991375	-0.914948	-0.991571
6	-1.496574	-1.587011	0.165920
1	-0.864010	-1.331029	2.240910
1	-1.444311	1.109929	2.309847
1	-2.423136	2.241660	0.300929
1	-2.710980	0.967536	-1.828406
1	-2.005277	-1.433804	-1.947183
1	-1.142704	-2.611667	0.090238
6	4.012264	-0.537630	0.010031
1	4.514699	-0.235387	0.939804
1	3.999438	-1.626026	-0.057015
1	4.586405	-0.120494	-0.827878
1	3.160997	1.871616	-0.028032

IN2a(19.11)

6	-3.552398	-1.485140	-0.554935
6	-3.789026	-1.115054	0.808058
6	-3.785520	0.247119	1.172450
1	-3.837869	0.530177	2.217413
6	-3.506274	1.232824	0.181182
6	-3.373569	0.867290	-1.195894
1	-3.131018	1.625486	-1.932280
6	-3.416985	-0.491291	-1.566387
1	-3.200411	-0.785143	-2.587257
17	-0.544747	-0.464953	1.955179
44	-1.897065	-0.223593	0.095796
1	-3.855663	-1.881766	1.571831
1	-3.454666	-2.534107	-0.814772
1	-3.368929	2.267518	0.477446
15	1.300437	0.083213	-1.067123
6	2.264221	-1.276397	-0.347441
6	3.634218	-1.106709	-0.086123
6	1.661965	-2.526802	-0.150823
6	4.389199	-2.183088	0.377872
1	4.110816	-0.141420	-0.232767
6	2.424563	-3.598022	0.313774
1	0.604432	-2.658171	-0.352937
6	3.784999	-3.426867	0.578736
1	5.446647	-2.049529	0.585000
1	1.955842	-4.564617	0.472003
1	4.375454	-4.262606	0.942507
6	1.720116	1.651997	-0.251659
6	1.627562	2.855615	-0.973767
6	2.092807	1.681662	1.103275
6	1.907794	4.069459	-0.348262
1	1.344167	2.855111	-2.021949
6	2.374835	2.900035	1.720062
1	2.156569	0.761748	1.672987
6	2.282800	4.091738	0.997536
1	1.841222	4.994778	-0.912582
1	2.665974	2.916744	2.765933
1	2.505949	5.038067	1.481610
6	1.812142	0.202593	-2.821032
1	1.606692	-0.759991	-3.297670
1	1.244814	0.980321	-3.338945
1	2.882085	0.417375	-2.893621
8	-0.248479	-0.225202	-1.123488

IN3a(24.99)

6	-2.293590	-2.932008	-0.810956
6	-2.692185	-4.029619	-0.047254
6	-1.910727	-1.729741	-0.191001
6	-1.930572	-1.641482	1.213338
1	-1.598990	-0.738582	1.720104
6	-2.337238	-2.744292	1.967643
8	0.141582	-0.189187	-1.509783
1	1.732356	2.638488	1.781344
6	1.326125	2.072221	2.623985
6	0.163546	1.200159	2.172930
1	2.132768	1.445520	3.026195
1	0.986769	2.745219	3.413999
8	-0.896784	1.174515	2.794925
8	0.320321	0.451815	1.102858
1	-2.353802	-2.666028	3.051368
1	-2.287994	-3.022316	-1.892725
1	-2.986920	-4.951838	-0.540746
6	-2.718643	-3.934905	1.345262
1	-3.035353	-4.786352	1.942220

15	-1.382585	-0.306952	-1.226860
44	1.840071	-0.019874	-0.194055
6	4.025671	-0.123611	-0.490312
6	3.747454	-0.244029	0.902804
6	2.837725	-1.247574	1.340676
6	2.239615	-2.147496	0.418353
6	3.444240	-1.008389	-1.432191
6	2.511658	-1.978259	-0.967688
1	4.614050	0.716591	-0.840856
1	4.151905	0.476166	1.603686
1	2.535812	-1.276113	2.382624
1	1.492019	-2.858060	0.750142
1	3.599437	-0.858577	-2.493651
1	1.946544	-2.556588	-1.691194
6	-2.223714	1.192259	-0.621176
6	-3.546402	1.120471	-0.159761
6	-1.582916	2.432784	-0.733366
6	-4.223699	2.287270	0.192196
1	-4.044005	0.159859	-0.059061
6	-2.269086	3.594520	-0.376676
1	-0.550176	2.483637	-1.065501
6	-3.585170	3.524677	0.083690
1	-5.244573	2.228591	0.559604
1	-1.766322	4.554820	-0.450868
1	-4.112230	4.432734	0.364712
6	-2.131200	-0.576089	-2.886976
1	-1.918778	0.318524	-3.478983
1	-1.673497	-1.435855	-3.383823
1	-3.214190	-0.713195	-2.821376
17	1.984974	2.301398	-0.900060

TS1a(590.42i)

6	1.033442	1.890873	2.672220
6	0.181553	1.808105	3.772906
6	0.782924	1.116619	1.530435
6	-0.317227	0.225842	1.467529
1	-0.311625	-0.901674	0.969800
6	-1.145824	0.154347	2.608700
8	0.576506	1.532396	-1.122639
1	-0.957162	-4.752222	0.023175
6	-1.219509	-4.492594	1.056061
6	-1.304909	-2.969254	1.174176
1	-2.177361	-4.954793	1.307855
1	-0.428271	-4.886311	1.702061
8	-0.169407	-2.369655	1.178323
8	-2.427724	-2.421305	1.237847
1	-1.932829	-0.596351	2.602985
1	1.882116	2.568660	2.707635
1	0.376753	2.410937	4.655807
6	-0.916277	0.942290	3.733670
1	-1.574749	0.863485	4.595329
15	1.677159	1.398832	-0.023266
44	-1.244116	0.417027	-0.821696
6	-2.756638	0.143735	-2.390898
6	-3.190932	-0.538420	-1.212187
6	-3.274283	0.170553	0.006754
6	-2.986957	1.573721	0.060008
6	-2.400080	1.513317	-2.330127
6	-2.534065	2.234980	-1.096344
1	-2.559674	-0.420924	-3.294577
1	-3.312003	-1.614225	-1.199563
1	-3.448923	-0.404577	0.907017
1	-2.994301	2.089444	1.013386
1	-1.962238	1.997824	-3.195869
1	-2.193982	3.263488	-1.038329
6	2.965868	0.132784	-0.283548
6	2.778797	-1.187525	0.160894
6	4.154637	0.479855	-0.948132
6	3.780938	-2.134161	-0.053582
1	1.862211	-1.502501	0.648212
6	5.148201	-0.474638	-1.159211
1	4.313125	1.491110	-1.310632
6	4.962605	-1.783003	-0.707925
1	3.626042	-3.152937	0.289065
1	6.062952	-0.196166	-1.675127
1	5.737360	-2.527737	-0.870267
6	2.547350	3.011066	0.078957
1	2.911930	3.278369	-0.916731
1	1.829739	3.771619	0.397110
1	3.390103	2.979988	0.774756
17	-0.007539	-1.351683	-1.869404

IN4a(17.21)

6	-1.576147	1.303914	2.458510
6	-0.673721	2.114521	3.138012
6	-1.103895	0.375176	1.518209
6	0.270248	0.224561	1.210046
1	2.122327	2.103764	-1.285087

6	1.150051	1.080267	1.901909
8	-1.274536	-1.505899	-0.407334
1	4.999355	4.191556	-1.301372
6	4.750427	3.744159	-0.333324
6	3.841135	2.550738	-0.534262
1	5.661998	3.432810	0.178183
1	4.234991	4.511324	0.254259
8	2.716093	2.893074	-1.161292
8	4.113963	1.419758	-0.163029
1	2.211744	1.054990	1.677183
1	-2.643706	1.402696	2.648550
1	-1.024569	2.836429	3.870286
6	0.690278	1.998042	2.847838
1	1.404620	2.641195	3.357686
15	-2.184641	-0.699559	0.560079
44	0.853566	-1.165332	-0.202251
6	2.248232	-2.478758	-1.604721
6	2.945224	-1.464418	-0.858689
6	2.917027	-1.449475	0.554492
6	2.044248	-2.348811	1.242465
6	1.392637	-3.346282	-0.933137
6	1.238279	-3.240327	0.494739
1	2.290599	-2.475540	-2.687880
1	3.510914	-0.695103	-1.368864
1	3.489300	-0.698671	1.083340
1	1.941382	-2.294150	2.320896
1	0.762177	-4.033907	-1.487097
1	0.510263	-3.865733	1.000223
6	-3.452722	0.250304	-0.347092
6	-3.095163	0.789163	-1.593700
6	-4.741487	0.468621	0.163483
6	-4.023506	1.540818	-2.313823
1	-2.095201	0.623524	-1.984857
6	-5.663704	1.222688	-0.563336
1	-5.037824	0.051755	1.121855
6	-5.304872	1.758640	-1.801803
1	-3.742766	1.956841	-3.277342
1	-6.660707	1.387683	-0.163995
1	-6.024430	2.344559	-2.367613
6	-3.083700	-1.821862	1.705127
1	-3.768563	-2.464858	1.144308
1	-2.335819	-2.442004	2.207954
1	-3.641823	-1.267311	2.465526
17	0.587711	0.669449	-1.832981

IN4b(16.52)

6	1.180913	3.281347	-0.571315
6	1.056252	4.393370	0.263380
6	1.177642	1.986217	-0.026201
6	1.049549	1.818344	1.365119
1	1.036586	0.822440	1.796406
6	0.923909	2.934691	2.191509
8	-0.035130	-0.301930	-1.222114
1	1.403234	-3.084239	1.690279
6	0.344194	-3.245041	1.920425
6	-0.481102	-2.241404	1.177444
1	0.064223	-4.258026	1.625216
1	0.210609	-3.112331	2.997718
8	-0.550301	-1.016954	1.552944
8	-1.150485	-2.546030	0.137291
1	0.832157	2.800529	3.265424
1	1.288935	3.434485	-1.640493
1	1.066830	5.391586	-0.163992
6	0.927813	4.220715	1.643076
1	0.837107	5.087497	2.291345
15	1.290052	0.511418	-1.091772
44	-1.811744	-0.534064	-0.091934
6	-3.073437	0.492577	-1.644264
6	-3.692232	-0.720445	-1.289181
6	-3.964277	-1.003590	0.090481
6	-3.621820	-0.065496	1.088615
6	-2.716838	1.443889	-0.634618
6	-2.988223	1.166451	0.720392
1	-2.777246	0.663294	-2.673076
1	-3.882003	-1.476206	-2.043301
1	-4.356790	-1.974418	0.372673
1	-3.758491	-0.311794	2.135656
1	-2.162067	2.336005	-0.901249
1	-2.638944	1.844738	1.491115
6	2.647413	-0.544354	-0.496767
6	2.570714	-1.925229	-0.740783
6	3.795813	0.001195	0.097428
6	3.638615	-2.751523	-0.387525
1	1.678246	-2.345672	-1.195379
6	4.857386	-0.832531	0.449959
1	3.862185	1.067749	0.291675
6	4.779891	-2.206123	0.206917
1	3.580894	-3.819046	-0.579418

1	5.743339	-0.409881	0.914253
1	5.609634	-2.851671	0.479700
6	1.762249	1.050548	-2.776000
1	1.861016	0.152065	-3.391874
1	0.987667	1.688903	-3.210066
1	2.719594	1.579203	-2.764442

TS1b(879.74i)

6	-0.738494	-3.193430	0.297830
6	-0.086814	-3.910671	1.307400
6	-0.492429	-1.826961	0.154403
6	0.422816	-1.140004	0.999639
1	0.030626	-0.007426	1.450982
6	1.042514	-1.892245	2.017813
8	-0.162004	0.324112	-1.459946
1	-1.945427	3.382983	1.740195
6	-0.885745	3.372851	2.017692
6	-0.279336	2.071318	1.548441
1	-0.381883	4.228473	1.566747
1	-0.832862	3.429018	3.108556
8	-0.639141	0.997024	2.100607
8	0.569327	2.130636	0.591489
1	1.699124	-1.388364	2.722668
1	-1.422713	-3.713106	-0.367782
1	-0.277936	-4.973437	1.423110
6	0.797146	-3.258336	2.170020
1	1.284827	-3.813674	2.966115
15	-1.219807	-0.782385	-1.143418
44	1.557822	0.471496	-0.194729
6	2.873922	0.840570	-1.966411
6	3.170966	1.823645	-1.003421
6	3.508363	1.424044	0.329297
6	3.587829	0.056226	0.663115
6	2.970564	-0.553595	-1.640334
6	3.323879	-0.937879	-0.336013
1	2.506843	1.137973	-2.942799
1	3.034101	2.873588	-1.235449
1	3.635462	2.176847	1.099458
1	3.803713	-0.241611	1.682643
1	2.704326	-1.301832	-2.377975
1	3.322795	-1.986539	-0.061202
6	-2.792497	-0.047894	-0.608943
6	-3.012549	1.313650	-0.865549
6	-3.788023	-0.822071	0.006003
6	-4.231872	1.893200	-0.511513
1	-2.232580	1.907911	-1.331505
6	-5.001253	-0.233568	0.359181
1	-3.618869	-1.873319	0.225376
6	-5.223537	1.121609	0.098582
1	-4.407390	2.945661	-0.714437
1	-5.770376	-0.829691	0.840843
1	-6.170723	1.576103	0.373874
6	-1.568830	-1.797327	-2.623627
1	-1.898292	-1.128526	-3.424647
1	-0.666324	-2.327177	-2.941086
1	-2.368670	-2.516879	-2.423162

IN5a(14.77)

6	1.151256	3.007333	0.376651
6	0.561516	3.790798	1.367249
6	0.539815	1.813288	-0.029441
6	-0.694385	1.367037	0.516670
1	-0.185541	0.300623	2.325901
6	-1.254062	2.184483	1.520684
8	0.081773	-0.335352	-1.578516
1	2.153238	-2.507535	2.385982
6	1.103155	-2.635503	2.676041
6	0.309978	-1.512194	2.077380
1	0.750785	-3.591258	2.285690
1	1.045198	-2.612905	3.766231
8	0.267254	-0.423141	2.820498
8	-0.229465	-1.613206	0.966785
1	-2.192393	1.900578	1.989853
1	2.082726	3.336875	-0.077709
1	1.031285	4.716098	1.685784
6	-0.638659	3.369963	1.941498
1	-1.106600	3.968699	2.718396
15	1.208208	0.710478	-1.296873
44	-1.566981	-0.368219	-0.234366
6	-2.940878	-1.442795	-1.830191
6	-3.119197	-2.140696	-0.640088
6	-3.386514	-1.408831	0.568708
6	-3.640860	-0.019398	0.542216
6	-3.039485	-0.006604	-1.838851
6	-3.450889	0.693953	-0.680643
1	-2.632674	-1.962095	-2.731182
1	-2.957808	-3.211980	-0.598087
1	-3.435484	-1.941511	1.512880

1	-3.914218	0.502940	1.451427
1	-2.820090	0.539302	-2.749517
1	-3.552692	1.773069	-0.705149
6	2.731571	-0.130376	-0.750157
6	2.762526	-1.532316	-0.785224
6	3.865020	0.585407	-0.332930
6	3.923171	-2.210243	-0.405436
1	1.883824	-2.078953	-1.110991
6	5.018219	-0.098413	0.048965
1	3.857730	1.671560	-0.297592
6	5.048219	-1.495601	0.011636
1	3.950087	-3.295513	-0.444289
1	5.892912	0.457512	0.372932
1	5.950393	-2.025078	0.303878
6	1.634524	1.660338	-2.799566
1	1.953532	0.962915	-3.580064
1	0.757121	2.216671	-3.141275
1	2.451976	2.360244	-2.599057

IN6a(17.78)

6	-1.427289	2.705825	0.044359
6	-0.828575	3.823188	-0.533043
6	-0.683301	1.529624	0.203292
6	0.672739	1.425415	-0.214338
6	1.238715	2.580645	-0.790794
8	-0.172901	-1.036512	0.827649
1	2.270742	2.569456	-1.129544
1	-2.467764	2.755539	0.355851
1	-1.396876	4.739224	-0.662591
6	0.506432	3.756550	-0.947616
1	0.974442	4.627405	-1.398294
15	-1.337163	0.022930	0.958037
44	1.618933	-0.379139	0.048510
6	3.159134	-1.973935	0.848147
6	2.763416	-2.388459	-0.421429
6	2.738898	-1.433414	-1.492342
6	3.326848	-0.141322	-1.340030
6	3.535773	-0.603420	1.052068
6	3.729812	0.277383	-0.055022
1	3.057460	-2.635648	1.701308
1	2.349172	-3.378884	-0.574223
1	2.325380	-1.719062	-2.454033
1	3.355714	0.542098	-2.180812
1	3.739211	-0.248459	2.056960
1	4.074253	1.290920	0.115156
6	-2.835434	-0.587107	0.141001
6	-2.725332	-1.665418	-0.749727
6	-4.084741	0.013952	0.368320
6	-3.860223	-2.135141	-1.410531
1	-1.761901	-2.138408	-0.909005
6	-5.212445	-0.459365	-0.300342
1	-4.190647	0.840931	1.065398
6	-5.100097	-1.531825	-1.189379
1	-3.776558	-2.974330	-2.094486
1	-6.178106	0.004274	-0.123342
1	-5.981718	-1.900190	-1.705474
6	-1.717801	0.324323	2.718269
1	-2.050650	-0.609718	3.180122
1	-0.812230	0.680255	3.217922
1	-2.501497	1.079850	2.827702

IN7a(9.84)

6	1.709783	-2.649803	-2.055629
6	3.005325	-2.932279	-1.636042
6	1.089419	-1.455280	-1.650436
6	1.745444	-0.502199	-0.836077
6	3.042944	-0.833156	-0.411569
8	-0.685782	0.549943	-1.725532
1	3.584020	-0.165445	0.251540
1	1.187592	-3.352281	-2.701438
1	3.495466	-3.849668	-1.946978
6	3.663333	-2.020531	-0.805274
1	4.671039	-2.235613	-0.459348
15	-0.574969	-0.966992	-2.108785
44	0.836027	1.336245	-0.458608
6	0.581675	3.477871	-1.477603
6	0.542338	3.705593	-0.099118
6	1.566271	3.145251	0.721017
6	2.700351	2.520362	0.142753
6	1.695542	2.797832	-2.071755
6	2.772374	2.382477	-1.270089
1	-0.242664	3.796452	-2.106844
1	-0.307052	4.203060	0.354769
1	1.490899	3.226508	1.800074
1	3.502063	2.155289	0.773747
1	1.713105	2.624188	-3.141779
1	3.614790	1.868359	-1.720221
6	-1.843438	-1.979153	-1.276386

6	-1.567028	-3.271282	-0.804584
6	-3.137662	-1.450003	-1.146892
6	-2.582258	-4.029595	-0.218825
1	-0.565437	-3.683243	-0.882007
6	-4.145727	-2.212620	-0.558254
1	-3.352820	-0.441328	-1.486325
6	-3.869918	-3.502523	-0.097769
1	-2.366244	-5.030450	0.143431
1	-5.144180	-1.798243	-0.455343
1	-4.657366	-4.095092	0.358794
6	-0.856701	-1.168347	-3.904921
1	-1.854445	-0.794533	-4.154890
1	-0.104769	-0.600898	-4.460438
1	-0.800577	-2.224901	-4.185267
6	-0.673117	0.884464	1.072111
6	0.307781	0.208317	1.470037
6	1.056891	-0.720137	2.281081
6	2.188792	-0.305245	3.007060
6	0.621609	-2.054426	2.394308
6	2.864907	-1.201618	3.830907
1	2.523441	0.725482	2.934282
6	1.304452	-2.945747	3.219315
1	-0.252030	-2.377634	1.837162
6	2.426180	-2.524252	3.937324
1	3.731350	-0.868060	4.394627
1	0.958360	-3.971828	3.304405
1	2.954675	-3.221989	4.580248
6	-1.991310	1.455450	1.261694
6	-2.559914	1.391908	2.550493
6	-2.715172	2.069745	0.224754
6	-3.819530	1.934940	2.790092
1	-2.005245	0.918531	3.355148
6	-3.975319	2.611889	0.474564
1	-2.291749	2.091331	-0.772789
6	-4.530189	2.549164	1.755074
1	-4.245171	1.882220	3.788016
1	-4.527493	3.083052	-0.333952
1	-5.510792	2.975191	1.946168

TS2a(294.23i)

6	0.690000	-3.372373	-1.375855
6	1.564139	-4.119848	-0.588453
6	0.497048	-2.007452	-1.119080
6	1.183457	-1.349565	-0.061425
6	2.044076	-2.141260	0.727158
8	0.167154	0.499701	-2.025665
1	2.543821	-1.693735	1.580525
1	0.175847	-3.852540	-2.204756
1	1.714288	-5.175847	-0.790182
6	2.246046	-3.492464	0.459643
1	2.930732	-4.064309	1.079949
15	-0.467161	-0.917062	-2.187850
44	1.592396	0.761256	-0.402695
6	2.603504	2.497299	-1.515458
6	2.459592	2.898359	-0.176582
6	2.938146	2.040643	0.856350
6	3.647537	0.857357	0.517658
6	3.359881	1.323063	-1.853099
6	3.930040	0.541097	-0.845475
1	2.143539	3.076352	-2.308792
1	1.901106	3.793308	0.073019
1	2.761549	2.288569	1.897181
1	4.012232	0.210464	1.307494
1	3.464184	1.039886	-2.894694
1	4.480482	-0.360212	-1.090937
6	-2.238820	-0.946964	-1.771308
6	-2.901060	-2.161698	-1.532526
6	-2.954044	0.258271	-1.752671
6	-4.271899	-2.166723	-1.279125
1	-2.353583	-3.101075	-1.533367
6	-4.326444	0.244708	-1.498829
1	-2.437995	1.197288	-1.922441
6	-4.984375	-0.964096	-1.264245
1	-4.783145	-3.106374	-1.091816
1	-4.878720	1.179495	-1.480636
1	-6.052432	-0.971005	-1.066961
6	-0.340675	-1.494897	-3.920004
1	-0.838337	-0.760919	-4.561446
1	0.710612	-1.577262	-4.209444
1	-0.837961	-2.460877	-4.050536
6	-0.148711	1.020223	0.653408
6	0.079024	-0.168284	1.121887
6	-0.122742	-0.919848	2.363866
6	0.198099	-0.314593	3.593654
6	-0.704336	-2.200182	2.364914
6	-0.058082	-0.975457	4.794714
1	0.643797	0.675923	3.599097
6	-0.969220	-2.850791	3.567084

1	-0.959271	-2.671370	1.421317
6	-0.642670	-2.243673	4.783630
1	0.196874	-0.499424	5.737104
1	-1.431637	-3.833529	3.557198
1	-0.844756	-2.757405	5.718976
6	-1.076726	2.130666	0.794138
6	-2.004758	2.148339	1.856282
6	-1.088417	3.191948	-0.129995
6	-2.899673	3.206003	1.993306
1	-2.013322	1.333504	2.573000
6	-1.989373	4.246354	0.009559
1	-0.404077	3.163455	-0.971410
6	-2.894110	4.259488	1.074033
1	-3.603561	3.209376	2.820676
1	-1.989179	5.056081	-0.714761
1	-3.593063	5.083363	1.185316

IN8a(17.02)

6	1.284582	-3.000723	1.212765
6	1.349862	-3.182496	2.583231
6	0.579099	-1.905095	0.642472
6	-0.046265	-0.948900	1.513432
6	0.002030	-1.195468	2.902931
8	1.031034	-0.732222	-1.829559
1	-0.509203	-0.506150	3.565969
1	1.763151	-3.729882	0.568473
1	1.887292	-4.030887	2.995428
6	0.680077	-2.284338	3.429479
1	0.695040	-2.439916	4.504629
15	0.280393	-1.939099	-1.179385
44	1.947065	0.160692	-0.085530
6	3.482724	1.327465	-1.137461
6	2.959165	2.111198	-0.075734
6	2.990784	1.597067	1.253623
6	3.538052	0.307845	1.465918
6	4.221993	0.120529	-0.867795
6	4.255975	-0.381973	0.426214
1	3.370435	1.671616	-2.159772
1	2.446226	3.041186	-0.291552
1	2.523474	2.139104	2.067340
1	3.468551	-0.143715	2.450273
1	4.664338	-0.431775	-1.690015
1	4.731072	-1.333147	0.640673
6	-1.490956	-1.981958	-1.568479
6	-2.325566	-2.952246	-0.990304
6	-1.999077	-1.088503	-2.521700
6	-3.665336	-3.024022	-1.367320
1	-1.940937	-3.642820	-0.243752
6	-3.341548	-1.170329	-2.895842
1	-1.351885	-0.335786	-2.959098
6	-4.171832	-2.135173	-2.321141
1	-4.313255	-3.770646	-0.918163
1	-3.737504	-0.478586	-3.633179
1	-5.215596	-2.196035	-2.615229
6	0.962421	-3.500754	-1.851934
1	0.785946	-3.470265	-2.931712
1	2.039818	-3.564787	-1.678759
1	0.460150	-4.380809	-1.440872
6	0.069353	1.003044	0.128368
6	-0.695116	0.294371	0.991646
6	-2.041550	0.680729	1.534198
6	-2.143002	1.436008	2.715693
6	-3.223368	0.276879	0.896159
6	-3.388800	1.774527	3.246059
1	-1.238159	1.772393	3.217082
6	-4.469546	0.622010	1.422613
1	-3.167943	-0.299782	-0.020198
6	-4.557146	1.367114	2.599490
1	-3.445482	2.361216	4.158725
1	-5.374221	0.306915	0.909956
1	-5.527947	1.632570	3.007963
6	-0.275986	2.267630	-0.552160
6	-0.761756	3.387447	0.148958
6	-0.081850	2.386816	-1.944261
6	-1.055317	4.576590	-0.520160
1	-0.912111	3.326124	1.220839
6	-0.390093	3.571413	-2.610562
1	0.305802	1.534927	-2.494501
6	-0.876276	4.673138	-1.901041
1	-1.428220	5.428552	0.041589
1	-0.247848	3.636800	-3.686029
1	-1.110376	5.598330	-2.419668

TS3a(1008.26i)

6	-0.257218	3.142627	-2.396130
6	-0.763554	2.954624	-3.679901
6	-0.309041	2.134449	-1.416213
6	-0.914297	0.879278	-1.719821

6	-1.426381	0.731825	-3.029676
8	1.652878	1.554814	0.501160
1	-1.901471	-0.204099	-3.296600
1	0.181612	4.104470	-2.158476
1	-0.708380	3.755390	-4.410761
6	-1.343978	1.730411	-3.996702
1	-1.747266	1.549100	-4.988636
15	0.480849	2.530848	0.180059
44	2.061500	-0.395484	-0.286470
6	4.109406	0.076693	-1.170210
6	4.104553	-1.257268	-0.721341
6	3.106705	-2.173080	-1.170996
6	2.117884	-1.729809	-2.082897
6	3.087262	0.509434	-2.072168
6	2.122909	-0.390606	-2.570981
1	4.819151	0.789171	-0.766257
1	4.802683	-1.568397	0.048490
1	3.081660	-3.180876	-0.774703
1	1.329766	-2.406311	-2.393102
1	3.032553	1.556621	-2.349423
1	1.345269	-0.047323	-3.241227
6	-0.810243	2.699990	1.455150
6	-0.443056	2.701634	2.809716
6	-2.137327	2.977996	1.091143
6	-1.399233	2.967892	3.788087
1	0.578213	2.477138	3.096233
6	-3.089647	3.241309	2.076858
1	-2.428940	2.998722	0.045318
6	-2.721344	3.235368	3.423622
1	-1.113446	2.962655	4.835686
1	-4.115554	3.455326	1.791959
1	-3.463414	3.441865	4.189375
6	1.232815	4.201457	0.093050
1	1.717448	4.363732	1.060919
1	1.995042	4.249444	-0.689062
1	0.483317	4.983463	-0.053098
6	-0.163930	-0.899770	0.021385
6	-1.080305	-0.343950	-0.851611
6	-2.398393	-1.028120	-1.096955
6	-2.488535	-2.314934	-1.651070
6	-3.586457	-0.344078	-0.788623
6	-3.731749	-2.901116	-1.887677
1	-1.584366	-2.860246	-1.899937
6	-4.828216	-0.941822	-1.001196
1	-3.535056	0.652799	-0.359634
6	-4.905199	-2.220347	-1.557371
1	-3.781782	-3.893950	-2.325426
1	-5.735702	-0.405753	-0.738220
1	-5.872259	-2.682281	-1.733148
6	-0.520192	-2.217441	0.687071
6	0.090273	-3.431347	0.345434
6	-1.480087	-2.231656	1.714611
6	-0.256920	-4.623005	0.987368
1	0.835917	-3.459078	-0.440122
6	-1.826457	-3.417580	2.359510
1	-1.956671	-1.302520	2.009702
6	-1.216829	-4.621367	1.998483
1	0.225375	-5.551403	0.693374
1	-2.574812	-3.400033	3.147027
1	-1.485986	-5.545921	2.500926
8	2.423043	-0.886780	1.696306
8	0.461684	-0.088651	2.420542
1	0.254520	-0.244797	1.034751
6	1.594872	-0.598557	2.628508
6	2.004065	-0.941642	4.041277
1	3.090996	-0.964011	4.138220
1	1.568724	-0.228309	4.744558
1	1.610366	-1.936039	4.282602

IN9a(13.08)

6	1.098667	-2.995814	-2.468174
6	2.089354	-3.247238	-3.413378
6	1.158286	-1.867897	-1.626579
6	2.238779	-0.952333	-1.761848
6	3.246905	-1.256697	-2.693086
8	-1.031461	-0.522493	-0.399531
1	4.087265	-0.575769	-2.784037
1	0.280273	-3.701302	-2.382507
1	2.019179	-4.123003	-4.051276
6	3.176495	-2.378530	-3.513797
1	3.965266	-2.569174	-4.235750
15	-0.082500	-1.753791	-0.278782
44	-3.046580	0.071485	-0.148980
6	-4.745773	-0.357200	-1.504766
6	-5.191364	0.528684	-0.472964
6	-4.489888	1.733975	-0.240815
6	-3.364554	2.090218	-1.054222
6	-3.637287	-0.015179	-2.311579

6	-2.948972	1.215279	-2.076798
1	-5.216327	-1.328519	-1.615847
1	-6.000743	0.232878	0.184856
1	-4.752820	2.353980	0.609537
1	-2.776806	2.971234	-0.820957
1	-3.261911	-0.715220	-3.048753
1	-2.034405	1.425475	-2.619299
6	0.819739	-1.736399	1.307770
6	0.694654	-0.640968	2.172780
6	1.627481	-2.827303	1.669032
6	1.370287	-0.644205	3.396068
1	0.072223	0.201292	1.890736
6	2.294588	-2.825107	2.893439
1	1.747213	-3.674586	0.998609
6	2.165882	-1.733386	3.757457
1	1.276026	0.207383	4.063825
1	2.914395	-3.672219	3.172231
1	2.688364	-1.732149	4.709706
6	-1.051619	-3.311525	-0.283339
1	-1.772990	-3.237233	0.534029
1	-1.606551	-3.410673	-1.220666
1	-0.420323	-4.191476	-0.138123
6	1.310907	1.215379	-1.110060
6	2.346874	0.342691	-1.021784
6	3.667456	0.645133	-0.396413
6	4.342855	1.842430	-0.693502
6	4.294793	-0.285568	0.449231
6	5.596793	2.107793	-0.145268
1	3.882515	2.561447	-1.364062
6	5.545234	-0.014743	1.004746
1	3.795954	-1.221980	0.679918
6	6.200555	1.182483	0.709784
1	6.106192	3.034956	-0.392567
1	6.010549	-0.742497	1.663890
1	7.178300	1.389619	1.135402
6	1.109038	2.527810	-0.475237
6	0.335694	3.488098	-1.156866
6	1.593291	2.856192	0.805096
6	0.074879	4.737962	-0.595768
1	-0.034743	3.257517	-2.154307
6	1.320535	4.099887	1.371824
1	2.178334	2.129123	1.357666
6	0.565544	5.047644	0.675158
1	-0.501161	5.472717	-1.152285
1	1.700600	4.331951	2.362887
1	0.363147	6.018606	1.117942
8	-3.275535	-1.526791	1.254611
8	-2.557856	0.415654	1.900863
1	0.490858	0.916829	-1.757026
6	-2.854897	-0.785093	2.210574
6	-2.703767	-1.303767	3.607084
1	-1.642226	-1.484942	3.810634
1	-3.056113	-0.554144	4.321044
1	-3.258351	-2.235805	3.731059