

Electronic Supporting Information

Reactivity patterns of vanadium(IV/V)-oxo complexes with olefins in the presence of peroxides: A computational study.

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Table S1: Absolute (free) energies (in au) of Model A1/B1 structures calculated along the reaction mechanism of $^1\text{VO}(\text{TPPCl}_8)^{+1}$ and $^2\text{VO}(\text{TPPCl}_8)^0$ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B1 species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{B1}	1	1	-6121.817801	0.699635	-6121.223738	-6122.724579
TS _{B1}	1	1	-6121.759983	0.694656	-6121.170381	-6122.665781
Int _{B1}	1	1	-6121.783235	0.699370	-6121.188168	-6122.695552
TS2 _{B1}	1	1	-6121.783124	0.696752	-6121.188847	-6122.686599
Int2 _{B1}	1	1	-6121.810536	0.700187	-6121.214165	-6122.718809
TS3 _{B1}	1	1	-6121.807233	0.698257	-6121.214315	-6122.712681
Int3 _{B1}	1	1	-6121.816585	0.697443	-6121.223725	-6122.722017
TS4 _{B1}	1	1	-6121.789063	0.697170	-6121.191237	-6122.695345
P _{B1}	1	1	-6121.910198	0.702136	-6121.311351	-6122.813233
TS5 _{B1}	1	1	-6121.771459	0.692274	-6121.179046	-6122.676858
Int5 _{B1}	1	1	-6121.776537	0.696077	-6121.183045	-6122.689207
P2 _{B1}	1	1	-6121.948647	0.701018	-6121.348619	-6122.855292

b) Model A1 species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{A1}	0	2	-6122.074078	0.696745	-6121.513994	-6122.945850
TS _{A1}	0	2	-6122.028249	0.695067	-6121.465950	-6122.906236
Int _{A1}	0	2	-6122.030934	0.698335	-6121.439198	-6122.917285
TS2 _{A1}	0	2	-6122.034095	0.696552	-6121.441738	-6122.910481
Int3 _{A1}	0	2	-6122.071818	0.697762	-6121.476214	-6122.951069
TS4 _{A1}	0	2	-6122.031209	0.696847	-6121.434042	-6122.911129
P _{A1}	0	2	-6122.169673	0.701700	-6121.567673	-6123.046323
TS5 _{A1}	0	2	-6122.005541	0.691144	-6121.415120	-6122.882272
Int5 _{A1}	0	2	-6122.037975	0.693391	-6121.448101	-6122.919314
P2 _{A1}	0	2	-6122.132865	0.699301	-6121.535545	-6123.013930

c) Model B1 species-(with basis set BS3)

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS3	B3LYP /BS3	B3LYP /BS3	B3LYP /BS3
Re _{B1}	1	1	-6121.107810	0.700667	-6120.511566	-6122.681117
TS _{B1}	1	1	-6121.074357	0.699132	-6120.479439	-6122.649721
Int _{B1}	1	1	-6121.095522	0.703254	-6120.496097	-6122.678820
TS2 _{B1}	1	1	-6121.092448	0.700511	-6120.494320	-6122.667257
Int2 _{B1}	1	1	-6121.114269	0.704531	-6120.513048	-6122.701599
TS3 _{B1}	1	1	-6121.104381	0.702146	-6120.507107	-6122.694310
Int3 _{B1}	1	1	-6121.113550	0.701877	-6120.515736	-6122.703046
TS4 _{B1}	1	1	-6121.105272	0.701558	-6120.503152	-6122.681747
P _{B1}	1	1	-6121.203874	0.706483	-6120.598351	-6122.796022

Table S2: Relative (free) energies (in kcal mol⁻¹) of Model A1/B1 structures calculated along the reaction of ¹VO(TPPCl₈)⁺¹ and ²VO(TPPCl₈)⁰ with cyclohexene for models A1/B1 after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B1 species

Species	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE
	BS1	BS1	BS1	BS2	BS2
Re _{B1}	0.00	0.00	0.00	0.00	0.00
TS _{B1}	19.90	18.37	18.30	18.00	16.47
Int _{B1}	5.31	6.74	7.14	-0.68	0.75
TS2 _{B1}	5.38	5.16	6.71	4.94	4.72
Int2 _{B1}	-11.82	-9.88	-9.17	-15.28	-13.33
TS3 _{B1}	-9.75	-9.02	-9.27	-11.43	-10.70
Int3 _{B1}	-15.62	-15.40	-15.17	-17.29	-17.07
TS4 _{B1}	1.65	1.70	5.21	-0.55	-0.50
P _{B1}	-74.36	-71.20	-70.16	-74.53	-71.36
TS5 _{B1}	12.70	9.67	12.86	11.05	8.02
Int5 _{B1}	9.51	8.87	10.35	3.30	2.66
P2 _{B1}	-98.49	-96.03	-93.55	-100.92	-98.46

b) Model A1 species

Species	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE
	BS1	BS1	BS1	BS2	BS2
Re _{A1}	0.00	0.00	0.00	0.00	0.00
TS _{A1}	28.76	27.70	30.15	24.86	23.81
Int _{A1}	27.07	28.07	46.94	17.92	18.92
TS2 _{A1}	25.09	24.97	45.34	22.19	22.07
Int3 _{A1}	1.42	2.06	23.71	-3.28	-2.64
TS4 _{A1}	26.90	26.96	50.17	21.79	21.85
P _{A1}	-59.99	-56.88	-33.68	-63.05	-59.94
TS5 _{A1}	43.01	39.49	62.04	39.90	36.38
Int5 _{A1}	22.65	20.55	41.35	16.65	14.55
P2 _{A1}	-36.89	-35.29	-13.52	-42.72	-41.12

c) Model B1 species-(with basis set BS3)

Species	ΔE	$\Delta E + ZPE$	ΔG	ΔE	$\Delta E + ZPE$
	BS3	BS3	BS3	BS3	BS3
Re _{B1}	0.00	0.00	0.00	0.00	0.00
TS _{B1}	20.99	20.03	20.16	19.70	18.74
Int _{B1}	7.71	9.33	9.71	1.44	3.06
TS2 _{B1}	9.64	9.54	10.82	8.70	8.60
Int2 _{B1}	-4.05	-1.63	-0.93	-12.85	-10.43
TS3 _{B1}	2.15	3.08	2.80	-8.28	-7.35
Int3 _{B1}	-3.60	-2.84	-2.62	-13.76	-13.00
TS4 _{B1}	1.59	2.15	5.28	-0.40	0.16
P _{B1}	-60.28	-56.63	-54.46	-72.10	-68.45

Table S3: Absolute (free) energies (in au) of Model A3/B3 structures calculated along the reaction mechanism of $^1\text{VO}(\text{TPPCl}_8)^{+1}$ and $^2\text{VO}(\text{TPPCl}_8)^0$ with cyclohexene and HCO_4^- after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B3 species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re_{B3a}	0	1	-6386.412708	0.728101	-6385.792905	-6387.380681
Re_{B3b}	0	1	-6386.358081	0.727726	-6385.736839	-6387.340020
TS4_{B3}	0	1	-6386.347072	0.727323	-6385.724265	-6387.324626
P3_{B3}	0	1	-6386.502735	0.731218	-6385.876561	-6387.471886

b) Model A3 species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re_{A3a}	-1	2	-6386.560761	0.725893	-6385.947627	-6387.587953
TS4_{B3}	-1	2	-6386.509940	0.726083	-6385.890946	-6387.506192
P3_{B3}	-1	2	-6386.643813	0.730168	-6386.020086	-6387.672358

Table S4: Relative (free) energies (in kcal mol⁻¹) of Model A3/B3 structures calculated along the reaction mechanism of ¹VO(TPPCl₈)⁺¹ and ²VO(TPPCl₈)⁰ with cyclohexene and HCO₄⁻ after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B3 species

Species	ΔE	$\Delta E + \text{ZPE}$	ΔG	ΔE	$\Delta E + \text{ZPE}$
	BS1	BS1	BS1	BS2	BS2
Re _{B3a}	0.00	0.00	0.00	0.00	0.00
Re _{B3b}	34.28	34.04	35.18	25.52	25.28
TS4 _{B3}	41.19	40.70	43.07	35.18	34.69
P3 _{B3}	-56.49	-54.54	-52.49	-57.23	-55.28

b) Model A3 species

Species	ΔE	$\Delta E + \text{ZPE}$	ΔG	ΔE	$\Delta E + \text{ZPE}$
	BS1	BS1	BS1	BS2	BS2
Re _{A3a}	0.00	0.00	0.00	0.00	0.00
TS4 _{B3}	31.89	32.01	35.57	51.31	51.42
P3 _{B3}	-52.12	-49.43	-45.47	-52.97	-50.28

Table S5: Absolute (free) energies (in au) of Model A4/B4 structures calculated along the reaction mechanism of $^1[\text{VO}(\text{TPPCl}_8)\text{CO}_4\text{H}]^0$ and $^2[\text{VO}(\text{TPPCl}_8)\text{CO}_4\text{H}]^{-1}$ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B4 species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{B4}	0	1	-6537.950195	0.754754	-6537.312572	-6538.986517
TS1 _{B4}	0	1	-6537.947792	0.754203	-6537.303712	-6538.981408
P1 _{B4}	0	1	-6537.995142	0.758902	-6537.345706	-6539.178246
TS2 _{B4}	0	1	-6537.941519	0.748772	-6537.302142	-6538.977273
Int2 _{B4}	0	1	-6537.961211	0.752121	-6537.321707	-6538.997082
TS3 _{B5}	0	1	-6537.962169	0.753615	-6537.318762	-6538.999067
P2 _{B4}	0	1	-6538.003173	0.757156	-6537.357430	-6539.036257
Re _{B4,H2O2}	0	1	-6462.760990	0.750523	-6462.126777	-6463.767882
TS4 _{B4}	0	1	-6462.728583	0.746891	-6462.090736	-6463.725315
P3 _{B4}	0	1	-6462.864471	0.751003	-6462.226211	-6463.871377

b) Model A4 species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{A4}	-1	2	-6538.119840	0.753554	-6537.484723	-6539.210623
TS1 _{A4}	-1	2	-6538.072640	0.753505	-6537.428520	-6539.149638
P1 _{A4}	-1	2	-6538.104675	0.756681	-6537.457929	-6539.178246
TS2 _{A4}	-1	2	-6538.072279	0.747503	-6537.437232	-6539.157277
Int2 _{A4}	-1	2	-6538.091573	0.750963	-6537.454789	-6539.178331
TS3 _{A4}	-1	2	-6538.077066	0.752390	-6537.435188	-6539.161592
P2 _{A4}	-1	2	-6538.112037	0.755103	-6537.468488	-6539.194054
Re _{A4,H2O2}	-1	2	-6462.902098	0.751130	-6462.263331	-6463.957925
P3 _{A4}	-1	2	-6463.011425	0.751308	-6462.372881	-6464.071241

Table S6: Relative (free) energies (in kcal mol⁻¹) of Model A4/B4 structures calculated along the reaction mechanism of ¹[VO(TPPCl₈)CO₄H⁻]⁰ and ²[VO(TPPCl₈)CO₄H⁻]⁻¹ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B4 species

Species	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE
	BS1	BS1	BS1	BS2	BS2
Re _{B4}	0.00	0.00	0.00	0.00	0.00
TS1 _{B4}	1.51	1.16	5.56	3.21	2.86
P1 _{B4}	-28.20	-25.60	-20.79	-120.31	-117.71
TS2 _{B4}	5.44	1.69	6.54	5.80	2.05
Int2 _{B4}	-6.91	-8.57	-5.73	-6.63	-8.28
TS3 _{B5}	-7.51	-8.23	-3.88	-7.87	-8.59
P2 _{B4}	-33.24	-31.74	-28.15	-31.21	-29.71
Re _{B4,H2O2}	0.00	0.00	0.00	0.00	0.00
TS4 _{B4}	20.34	18.06	22.62	26.71	24.43
P3 _{B4}	-64.94	-64.63	-62.40	-64.94	-64.64

b) Model A4 species

Species	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE
	BS1	BS1	BS1	BS2	BS2
Re _{A4}	0.00	0.00	0.00	0.00	0.00
TS1 _{A4}	29.62	29.59	35.27	38.27	38.24
P1 _{A4}	9.52	11.48	16.81	20.32	22.28
TS2 _{A4}	29.84	26.05	29.80	33.48	29.68
Int2 _{A4}	17.74	16.11	18.78	20.26	18.64
TS3 _{A4}	26.84	26.11	31.08	30.77	30.04
P2 _{A4}	4.90	5.87	10.19	10.40	11.37
Re _{A4,H2O2}	0.00	0.00	0.00	0.00	0.00
P3 _{A4}	-68.60	-68.49	-68.74	-71.11	-71.00

Table S7: Absolute (free) energies (in au) of Model A2'/B2' and A2''/B2'' structures with oxo trans to peroxo as calculated along the reaction mechanism of ${}^1\text{VO}(\text{O}_2)(\text{TPPCl}_8)^{-1}$ and ${}^2\text{VO}(\text{O}_2)(\text{TPPCl}_8)^0$ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B2'' species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{B2''}	0	2	-6120.857108	0.675251	-6120.292353	-6121.729760
TS4 _{B2''}	0	2	-6120.817602	0.678565	-6120.235859	-6121.692438
P1 _{B2''}	0	2	-6120.819969	0.677174	-6120.243953	-6121.688915
Re _{B2'}	0	2	-6045.599294	0.670621	-6045.031630	-6046.449508
TS4 _{B2'}	0	2	-6045.602431	0.669869	-6045.031247	-6046.454586
P2 _{B2'}	0	2	-6045.744456	0.676774	-6045.164432	-6046.586633
TS5 _{B2'}	0	2	-6045.598662	0.665033	-6045.031561	-6046.452745
Int5 _{B2'}	0	2	-6045.643076	0.667321	-6045.077380	-6046.500972
TS6 _{B2'}	0	2	-6045.635502	0.667363	-6045.066487	-6046.490409
P3 _{B2'}	0	2	-6045.751255	0.675791	-6045.173467	-6046.599664

b) Model A2'' species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{A2''}	-1	1	-6120.896053	0.674772	-6120.320488	-6121.826190
Re _{A2''_endon}	-1	1	-6120.868309	0.673068	-6120.291410	-6121.810004
TS4 _{A2''}	-1	1	-6120.891371	0.675651	-6120.312254	-6121.826319
P1 _{A2''}	-1	1	-6120.937356	0.677414	-6120.360395	-6121.871817
Re _{A2'}	-1	1	-6045.732895	0.671607	-6045.162629	-6046.643750
TS4 _{A2'}	-1	1	-6045.732003	0.669984	-6045.158455	-6046.641073
P2 _{A2'}	-1	1	-6045.786926	0.673706	-6045.213556	-6046.691189
TS5 _{A2'}	-1	1	-6045.728955	0.664254	-6045.161178	-6046.643060
Int5 _{A2'}	-1	1	-6045.774922	0.667572	-6045.207243	-6046.692100
TS6 _{A2'}	-1	1	-6045.763647	0.667629	-6045.192949	-6046.674050
P3 _{A2'}	-1	1	-6045.835783	0.673510	-6045.261654	-6046.740045

Table S8: Relative (free) energies (in kcal mol⁻¹) of Model A2'/B2' and A2''/B2'' structures calculated along the reaction mechanism of ¹VO(O₂)(TPPCl₈)⁻¹ and ²VO(O₂)(TPPCl₈)⁰ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B2'' species

Species	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE
	BS1	BS1	BS1	BS2	BS2
Re _{B2''}	0.00	0.00	0.00	0.00	0.00
TS4 _{B2''}	24.79	26.87	35.45	23.42	25.50
P1 _{B2''}	23.28	24.57	30.86	20.39	21.68
Re _{B2'}	0.00	0.00	0.00	0.00	0.00
TS4 _{B2'}	-1.97	-2.44	0.24	-3.19	-3.66
P2 _{B2'}	-91.09	-87.23	-83.33	-86.05	-82.19
TS5 _{B2'}	8.50	4.69	9.00	5.11	1.30
Int5 _{B2'}	-19.37	-21.75	-19.75	-25.16	-27.53
TS6 _{B2'}	-14.62	-16.97	-12.91	-18.53	-20.87
P3 _{B2'}	-87.26	-84.32	-80.04	-87.09	-84.14

b) Model A2'' species

Species	ΔE	ΔE+ ZPE	ΔG	ΔE	ΔE +ZPE
	BS1	BS1	BS1	BS2	BS2
Re _{A2''}	0.00	0.00	0.00	0.00	0.00
Re _{A2''_endon}	17.41	16.34	18.25	10.16	9.09
TS4 _{A2''}	2.94	3.49	5.17	-0.08	0.47
P1 _{A2''}	-25.92	-24.26	-25.04	-28.63	-26.97
Re _{A2'}	0.00	0.00	0.00	0.00	0.00
TS4 _{A2'}	0.56	-0.46	2.62	1.68	0.66
P2 _{A2'}	-33.91	-32.59	-31.96	-29.77	-28.45
TS5 _{A2'}	8.77	5.05	8.14	8.30	4.59
Int5 _{A2'}	-20.08	-21.71	-20.77	-22.47	-24.10
TS6 _{A2'}	-13.00	-14.60	-11.80	-11.14	-12.74
P3 _{A2'}	-58.27	-56.18	-54.91	-52.56	-50.46

Table S9: Absolute (free) energies (in au) of Model A2/B2 structures calculated along the reaction mechanism of $^1\text{VO}(\text{H}_2\text{O}_2)(\text{TPPCl}_8)^1$ and $^2\text{VO}(\text{H}_2\text{O}_2)(\text{TPPCl}_8)^0$ with H_2O_2 trans to oxo and in a reaction with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B2 species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{B2}	1	1	-6121.845993	0.699273	-6121.250407	-6122.748728
TS1 _{B2}	1	1	-6121.760052	0.698362	-6121.160657	-6122.667604
P1 _{B2}	1	1	-6121.794058	0.702550	-6121.189743	-6122.700998

b) Model A2 species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{A2}	0	2	-6122.083916	0.699780	-6121.488418	-6122.960286
TS1 _{A2}	0	2	-6122.023947	0.698032	-6121.425002	-6122.897726
P1 _{A2}	0	2	-6122.032611	0.701274	-6121.430231	-6122.909125

Table S10: Relative (free) energies (in kcal mol⁻¹) of Model A2/B2 structures calculated along the reaction mechanism of ¹VO(TPPCl₈)¹ and ²VO(TPPCl₈)⁰ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B2 species

Species	ΔE	$\Delta E + \text{ZPE}$	ΔG	ΔE	$\Delta E + \text{ZPE}$
	BS1	BS1	BS1	BS2	BS2
Re _{B2}	0.00	0.00	0.00	0.00	0.00
TS1 _{B2}	53.93	53.36	56.32	50.91	50.33
P1 _{B2}	32.59	34.65	38.07	29.95	32.01

b) Model A2 species

Species	ΔE	$\Delta E + \text{ZPE}$	ΔG	ΔE	$\Delta E + \text{ZPE}$
	BS1	BS1	BS1	BS2	BS2
Re _{A2}	0.00	0.00	0.00	0.00	0.00
TS1 _{A2}	37.63	36.53	39.79	39.26	38.16
P1 _{A2}	32.19	33.13	36.51	32.10	33.04

Table S11: Absolute (free) energies (in au) of Model A3'/B3' structures calculated along the reaction mechanism of $^1\text{VO}(\text{HCO}_4^-)(\text{TPPCl}_8)^0$ and $^2\text{VO}(\text{HCO}_4^-)(\text{TPPCl}_8)^{-1}$ with oxo trans to HCO_4^- and cyclohexene attacking HCO_4^- as calculated in G09 from a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B3' species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{B3}	0	1	-6386.372681	0.726956	-6385.755641	-6387.357786
TS1 _{B3'}	0	1	-6386.367594	0.727142	-6385.743572	-6387.338796
P1 _{B3'}	0	1	-6386.500901	0.730686	-6385.875227	-6387.471168
TS2 _{B3'}	0	1	-6386.351733	0.723309	-6385.734732	-6387.329196
P2 _{B3'}	0	1	-6386.518945	0.730812	-6385.893427	-6387.494023

b) Model A3' species

Species	Charge	Multiplicity	E [au]	ZPE [au]	G [au]	E [au]
			B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Re _{A3}	-1	2	-6386.546887	0.726509	-6385.930957	-6387.582450
TS1 _{A3'}	-1	2	-6386.535285	0.726424	-6385.913357	-6387.563123
P1 _{A3'}	-1	2	-6386.664394	0.729952	-6386.040293	-6387.694921
TS2 _{A3'}	-1	2	-6386.517621	0.722341	-6385.901160	-6387.552900
P2 _{A3'}	-1	2	-6386.687576	0.729853	-6386.063907	-6387.718333

Table S12: Relative (free) energies (in kcal mol⁻¹) of Model A3'/B3' structures calculated along the reaction mechanism of ¹VO(TPPCl₈)¹ and ²VO(TPPCl₈)⁰ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B3' species

Species	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE
	BS1	BS1	BS1	BS2	BS2
Re _{B3'}	0.00	0.00	0.00	0.00	0.00
TS1 _{B3'}	3.19	3.31	7.57	11.92	12.03
P1 _{B3'}	-80.46	-78.12	-75.04	-71.15	-68.81
TS2 _{B3'}	13.15	10.86	13.12	17.94	15.65
P2 _{B3'}	-91.78	-89.36	-86.46	-85.49	-83.07

b) Model A3' species

Species	ΔE	ΔE+ZPE	ΔG	ΔE	ΔE+ZPE
	BS1	BS1	BS1	BS2	BS2
Re _{A3'}	0.00	0.00	0.00	0.00	0.00
TS1 _{A3'}	7.28	7.23	11.04	12.13	12.07
P1 _{A3'}	-73.74	-71.58	-68.61	-70.58	-68.42
TS2 _{A3'}	18.36	15.75	18.70	18.54	15.93
P2 _{A3'}	-88.28	-86.19	-83.43	-85.27	-83.17

Table S13: Group spin densities of B3LYP/BS1 optimized Model A1/B1 geometries in Gaussian-09 for the reaction of $^1\text{V-O}(\text{TPPCl}_8)^{+1}$ and $^2\text{V-O}(\text{TPPCl}_8)^0$ at surface A after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B1 species

Species	V	O	OH	H ₂ O	TPPCl ₈	H ₂ O ₂	OOH	OO	Subs	Subs-O	Subs-	Subs-OH	Total
Re _{B1}	0.00	0.00			0.00	0.00			0.00				0.00
TS _{B1}	0.24		-0.05		-0.14		-0.06		0.00				0.00
Int _{B1}	0.00		0.00		0.00		0.00		0.00				0.00
TS2 _{B1}	0.00			0.00	0.00			0.00	0.00				0.00
Int2 _{B1}	0.00			0.00	0.00			0.00	0.00				0.00
TS3 _{B1}	0.00			0.00	0.00			0.00	0.00				0.00
Int3 _{B1}	0.00			0.00	0.00			0.00	0.00				0.00
TS4 _{B1}	0.00	0.00		0.00	0.00					0.00			0.00
P _{B1}	0.00	0.00		0.00	0.00					0.00			0.00
TS5 _{B1}	0.00			0.00	0.00		0.00				0.00		0.00
Int5 _{B1}	0.00			0.00	0.00		0.00				0.00		0.00
TS6 _{B1}	1.31	-0.23	-0.05	0.00	-0.50						-0.53		0.00
P2 _{B1}	-1.15	0.16		0.00	0.98							0.00	0.00

b) Model A1 species

Species	V	O	OH	H ₂ O	TPPCl ₈	H ₂ O ₂	OOH	OO	Subs	Subs-O	Subs-	Subs-OH	Total
Re _{A1}	1.13	-0.14			0.01	0.00			0.00				1.00
TS _{A1}	1.08		-0.06		-0.05		0.03		0.00				1.00
Int _{A1}	1.09		-0.01		-0.07		-0.01		0.00				1.00
TS2 _{A1}	1.12			0.00	-0.08			0.04	0.00				1.00
Int3 _{A1}	1.05			0.00	-0.06			0.01	0.00				1.00
TS4 _{A1}	1.02	-0.04		0.00	-0.03					0.04			1.00
P _{A1}	1.14	-0.15		0.00	0.01					0.00			1.00
TS5 _{A1}	0.16			0.00	-0.03		0.15				0.72		1.00
Int5 _{A1}	0.00			0.00	0.00		0.00				0.99		1.00
TS6 _{A1}	1.55	-0.20	0.62	0.00	-0.01						-0.97		0.99
P2 _{A1}	-1.17	0.20		0.00	1.97							0.00	1.00

Table S14: Group charge distribution of B3LYP/BS1 optimized Model A1/B1 geometries in Gaussian-09 for the reaction of $^1\text{V-O}(\text{TPPCl}_8)^{+1}$ and $^2\text{V-O}(\text{TPPCl}_8)^0$ at surface A after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B1 species

Species	V	O	OH	H ₂ O	TPPCl ₈	H ₂ O ₂	OOH	OO	Subs	Subs-O	Subs-	Subs-OH	Total
Re _{B1}	-0.36	-0.02			1.33	0.04			0.01				1.00
TS _{B1}	1.35		-0.08		0.10		-0.38		0.02				1.00
Int _{B1}	-0.78		0.18		1.19		0.39		0.02				1.00
TS2 _{B1}	1.32			0.14	0.18			-0.65	0.02				1.00
Int2 _{B1}	1.25			0.18	0.08			-0.53	0.02				1.00
TS3 _{B1}	1.31			0.09	0.13			-0.55	0.02				1.00
Int3 _{B1}	1.32			0.04	0.11			-0.48	0.01				1.00
TS4 _{B1}	1.33	-0.30		0.01	-0.05					0.01			1.00
P _{B1}	1.17	-0.37		0.02	0.10					0.08			1.00
TS5 _{B1}	1.23			0.04	-0.23		-0.36				0.32		1.00
Int5 _{B1}	1.15			0.04	-0.36		-0.35				0.52		1.00
TS6 _{B1}	1.14	-0.40	-0.10	0.00	-0.11						0.43		1.00
P2 _{B1}	1.09	-0.45		0.00	0.26							0.08	1.00

b) Model A1 species

Species	V	O	OH	H ₂ O	TPPCl ₈	H ₂ O ₂	OOH	OO	Subs	SubsO	Subs ⁻	SubsOH	Total
Re _{A1}	1.10	-0.50			-0.65	0.03			0.02				0.00
TS _{A1}	1.25		-0.17		-0.59		-0.52		0.02				0.00
Int _{A1}	1.17		-0.17		-0.62		-0.41		0.02				0.00
TS2 _{A1}	1.16			0.09	-0.53			-0.75	0.02				0.00
Int3 _{A1}	1.25			0.02	-0.53			-0.72	0.02				0.00
TS4 _{A1}	1.23	-0.38		0.01	-0.65					-0.21			0.00
P _{A1}	1.07	-0.44		0.02	-0.72					0.07			0.00
TS5 _{A1}	1.12			0.06	-0.81		-0.39				0.01		0.00
Int5 _{A1}	1.02			0.06	-0.77		-0.38				0.06		0.00
TS6 _{A1}	1.12	-0.41	-0.07	0.00	-0.67						0.01		0.00
P2 _{A1}	1.08	-0.42		0.00	-0.74							0.03	0.00

Table S15: Group spin densities of B3LYP/BS1 optimized Model A3/B3 geometries in Gaussian-09 for the reaction of $^1\text{VO}(\text{TPPCl}_8)^{+1}$ and $^2\text{VO}(\text{TPPCl}_8)^0$ at surface A with present of HCO_3^- after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B3 species

Species	V	O	H ₂ O	TPPCl ₈	Subs	SubsO	HCO ₄ ⁻	HCO ₃ ⁻	Total
Re _{B3a}	0.00	0.00	0.00	0.00	0.00		0.00		0.00
Re _{B3b}	0.00	0.00	0.00	0.00	0.00		0.00		0.00
TS4 _{B3}	0.00	0.00	0.00	0.00		0.00		0.00	0.00
P3 _{B3}	0.00	0.00	0.00	0.00		0.00		0.00	0.00

b) Model A3 species

Species	V	O	H ₂ O	TPPCl ₈	Subs	Subs-O	HCO ₄ ⁻	HCO ₃ ⁻	Total
Re _{B3a}	1.10	-0.13	0.00	0.01	0.00		0.02		1.00
TS4 _{B3}	1.07	-0.09	0.00	0.01		0.01		0.02	1.00
P3 _{B3}	1.348	-0.31	0.00	-0.48		0.00		0.45	1.00

Table S16: Group charge distribution of B3LYP/BS1 optimized Model A3/B3 geometries in Gaussian-09 for the reaction of ${}^1\text{V-O}(\text{TPPCl}_8)^{+1}$ and ${}^2\text{V-O}(\text{TPPCl}_8)^0$ at surface A with present of HCO_3^- after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B3 species

Species	V	O	H ₂ O	TPPCl ₈	Subs	SubsO	HCO ₄ ⁻	HCO ₃ ⁻	Total
Re _{B3a}	1.13	-0.35	0.02	-0.33	0.00		-0.47		0.00
Re _{B3b}	1.13	-0.35	0.02	-0.33	0.00		-0.47		0.00
TS4 _{B3}	1.18	-0.45	0.01	-0.27		-0.39		-0.08	0.00
P3 _{B3}	1.14	-0.44	0.02	-0.40		0.03		-0.34	0.00

b) Model A3 species

Species	V	O	H ₂ O	TPPCl ₈	Subs	SubsO	HCO ₄ ⁻	HCO ₃ ⁻	Total
Re _{A3a}	1.02	-0.43	0.00	-0.95	-0.04		-0.59		-1.00
TS4 _{A3}	1.04	-0.52	0.00	-0.90		-0.42		-0.20	-1.00
P3 _{A3}	1.09	-0.49	0.02	-1.10		0.03		-0.54	-1.00

Table S17: Group spin densities of B3LYP/BS1 optimized Model A4/B4 geometries in Gaussian-09 for the reaction mechanism of $^2\text{VO}(\text{peroxo})\text{-species}^0$ and $^1\text{VO}(\text{peroxo})\text{-species}^{-1}$ with cyclohexanone after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B4 species

Species	V	Lig	HCO ₃	H ₂ O	H ₂ O ₂	O	H ₂ O	OH	Subs	SubsO	Subs ⁻	SubsOH	Total
Re _{B4}	0.00	0.00	0.00	0.00	0.00	0.00			0.00				0.00
TS1 _{B4}	1.23	-0.12	-0.10	-0.01	0.00					-1.00			0.00
P1 _{B4}	0.08	-0.05	-0.02	0.00	0.00					0.00			0.00
TS2 _{B4}	1.32	-0.74	-0.06	0.00	0.00			-0.24			-0.28		0.00
Int2 _{B4}	1.14	-0.06	-0.03	0.00	0.00			-0.06			-0.99		0.00
TS3 _{B4}	1.96	-1.75	-0.03	0.00	0.00			-0.02			-0.17		0.00
P2 _{B4}	0.09	-0.05	-0.04	0.00	0.00							0.00	0.00
Re _{B4,H2O2}	1.90	-1.86	-0.02	0.00	-0.02				0.00				0.00
TS4 _{B4}	0.11	-0.05	-0.06	0.00		0.00	-0.01		0.00				0.00
P3 _{B4}	1.18	-0.98	-0.03	0.00		-0.16	0.00			0.00			0.00

b) Model A4 species

Species	V	Lig	HCO ₃	H ₂ O	H ₂ O ₂	O	H ₂ O	OH	Subs	SubsO	Subs ⁻	SubsOH	Total
Re _{A4}	1.18	-0.02	0.00	0.00	0.00	-0.15			0.00				1.00
TS1 _{A4}	1.45	0.02	0.00	0.00	0.00					-0.46			1.00
P1 _{A4}	1.89	-0.83	-0.06	0.00	0.00					0.00			1.00
TS2 _{A4}	1.26	-0.02	-0.01	0.00	0.00			-0.18			-0.06		1.00
Int2 _{A4}	1.89	0.11	-0.01	0.00	0.00			0.00			-0.99		1.00
TS3 _{A4}	1.98	-0.95	-0.02	0.00	0.00			-0.01			0.00		1.00
P2 _{A4}	1.91	-0.87	-0.04	0.00	0.00							0.00	1.00
Re _{A4,H2O2}	1.93	-0.91	-0.02	0.00	0.00				0.00				1.00
TS4 _{A4}													
P3 _{A4}	1.21	-0.02	0.00	0.00		-0.19	0.00			0.00			1.00

Table S18: Group of charge distribution of B3LYP/BS1 optimized Model A4/B4 geometries in Gaussian-09 for the reaction mechanism of $^2\text{VO}(\text{peroxo})\text{-species}^0$ and $^1\text{VO}(\text{peroxo})\text{-species}^{-1}$ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09..

a) Model B4 species

Species	V	Lig	HCO ₃	H ₂ O	H ₂ O ₂	O	H2O	OH	Subs	SubsO	Subs ⁻	SubsOH	Total
Re _{B4}	1.10	-0.45	-0.26	-0.01	0.01	-0.39			-0.01				0.00
TS1 _{B4}	1.17	-0.63	-0.50	0.03	-0.01					-0.07			0.00
P1 _{B4}	1.08	-0.67	-0.48	0.05	-0.01					0.02			0.00
TS2 _{B4}	1.11	-0.20	-0.55	0.01	-0.01			-0.21			-0.15		0.00
Int2 _{B4}	1.10	-0.48	-0.54	0.03	-0.01			-0.13			0.03		0.00
TS3 _{B4}	1.07	-0.70	-0.55	0.06	-0.03			-0.35			0.51		0.00
P2 _{B4}	1.10	-0.63	-0.47	-0.01	-0.02							0.03	0.00
Re _{B4,H2O2}	1.03	-0.73	-0.50	0.09	0.11				0.00				0.00
TS4 _{B4}	1.07	-0.73	-0.54	0.08		-0.45	0.53		0.05				0.00
P3 _{B4}	1.03	0.01	-0.58	0.00		-0.50	-0.25			0.29			0.00

b) Model A4 species

Species	V	Lig	HCO ₃	H ₂ O	H ₂ O ₂	O	H2O	OH	Subs	SubsO	Subs ⁻	SubsOH	Total
Re _{A4}	1.04	-1.12	-0.46	-0.02	0.01	-0.44			-0.01				-1.00
TS1 _{A4}	1.09	-1.01	-0.60	0.01	-0.02					-0.48			-1.00
P1 _{A4}	1.03	-1.56	-0.52	0.05	-0.01					0.02			-1.00
TS2 _{A4}	1.08	-0.94	-0.60	0.00	-0.02			-0.21			-0.32		-1.00
Int2 _{A4}	0.94	-1.12	-0.62	0.03	-0.02			-0.23			0.02		-1.00
TS3 _{A4}	1.07	-1.69	-0.54	0.01	-0.03			-0.25			0.43		-1.00
P2 _{A4}	1.06	-1.53	-0.51	-0.02	-0.03							0.03	-1.00
Re _{A4,H2O2}	1.01	-1.64	-0.53	0.09	0.08				0.00				-1.00
TS4 _{A4}													
P3 _{A4}	1.03	-0.98	-0.64	0.00		-0.45	-0.28			0.33			-1.00

Table S19: Group spin densities of B3LYP/BS1 optimized Model A2'/B2' and Model A2''/B2'' geometries in Gaussian-09 for the reaction mechanism of ²VO(peroxo)-species⁰ and ¹VO(peroxo)-species⁻¹ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B2'' and Model B2'

Species	V	Ligand	O _a	OO	O _b	OH	Subs	SubsO	Subs ⁻	SubsOH	Total
Re _{B2''}	-0.01	1.00	0.02	0.00			0.00				1.00
TS4 _{B2''}	1.20	-0.02	-0.18		0.00			0.00			1.00
P1 _{B2''}	-1.36	1.01	0.44		0.91			0.00			1.00
Re _{B2'}	-0.62	0.85	0.40		0.36		0.00				1.00
TS4 _{B2'}	1.25	0.70	-0.61					-0.34			1.00
P2 _{B2'}	1.18	-0.01	0.00					-0.17			1.00
TS5 _{B2'}	1.24	0.81	-0.53			-0.14			-0.37		1.00
Int5 _{B2'}	-1.24	0.96	0.08			0.21			0.99		1.00
TS6 _{B2'}	-1.20	2.19	0.00			0.01			0.01		1.00
P3 _{B2'}	1.18	-0.18	0.00							0.00	1.00

b) Model A2'' and A2'

Species	V	Ligand	O _a	OO	O _b	OH	Subs	SubsO	Subs ⁻	SubsOH	Total
Re _{A2''}	0.00	0.00	0.00	0.00			0.00				0.00
Re _{A2''_endon}	0.00	0.00	0.00	0.00			0.00				0.00
TS4 _{A2''}	1.21	-1.01	-0.18		-0.01			-0.01			0.00
P1 _{A2''}	0.00	0.00	0.00		0.00			0.00			0.00
Re _{A2'}	0.00	0.00	0.00		0.00		0.00				0.00
TS4 _{A2'}	1.17	-0.03	-0.41					-0.74			0.00
P2 _{A2'}	0.00	0.00	0.00					0.00			0.00
TS5 _{A2'}	1.13	-0.04	-0.41			-0.22			-0.46		0.00
Int5 _{A2'}	0.00	0.00	0.00			0.00			0.00		0.00
TS6 _{A2'}	-1.19	0.33	0.00			0.03			0.84		0.00
P3 _{A2'}	-1.18	1.18	0.00							0.00	0.00

Table S20: Group charge distribution of B3LYP/BS1 optimized Model and A2'/B2' and A2''/B2'' geometries in Gaussian-09 for the reaction mechanism of ²VO(peroxo)-species⁰ and ¹VO(peroxo)-species⁻¹ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B2'' and Model B2'

Species	V	Ligand	O ₁	OO	O ₂	OH	Subs	SubsO	Subs ⁻	SubsOH	Total
Re _{A2''}	1.14	-1.11	-0.44	-0.59			0.00				-1.00
Re _{A2''_endon}	0.95	-1.19	-0.46	-0.29			0.00				-1.00
TS4 _{A2''}	1.04	-1.65	-0.45		-0.35			0.42			-1.00
P1 _{A2''}	1.02	-0.94	-0.52		-0.56			0.01			-1.00
Re _{A2'}	1.04	-0.92	-0.59		-0.53		0.00				-1.00
TS4 _{A2'}	0.98	-1.06	-0.63					-0.30			-1.00
P2 _{A2'}	0.82	-1.38	-0.50					0.06			-1.00
TS5 _{A2'}	0.98	-1.00	-0.70			-0.11			-0.16		-1.00
Int5 _{A2'}	0.96	-0.97	-0.70			-0.06			-0.23		-1.00
TS6 _{A2'}	0.97	-1.69	0.11			-1.04			0.65		-1.00
P3 _{A2'}	1.05	-2.16	0.11							0.01	-1.00

b) Model A2'' and A2'

Species	V	Ligand	O ₁	OO	O ₂	OH	Subs	SubsO	Subs ⁻	SubsOH	Total
Re _{B2''}	1.08	-0.02	-0.47	-0.59			0.00				0.00
TS4 _{B2''}	1.05	-0.73	-0.43		-0.35			0.46			0.00
P1 _{B2''}	0.99	-0.10	-0.47		-0.43			0.01			0.00
Re _{B2'}	1.01	-0.04	-0.48		-0.47		-0.01				0.00
TS4 _{B2'}	1.02	-0.28	-0.53					-0.21			0.00
P2 _{B2'}	1.08	-0.69	-0.45					0.07			0.00
TS5 _{B2'}	1.01	-0.19	-0.63			-0.14			-0.04		0.00
Int5 _{B2'}	1.01	-0.12	-0.77			-0.10			-0.02		0.00
TS6 _{B2'}	1.01	-1.35	0.13			-0.95			1.15		0.00
P3 _{B2'}	1.07	-1.22	0.13							0.01	0.00

Table S21: Group spin densities of B3LYP/BS1 optimized Model A2/B2 geometries in Gaussian-09 for the reaction mechanism of $^2\text{VO}(\text{peroxo})\text{-species}^0$ and $^1\text{VO}(\text{peroxo})\text{-species}^{-1}$ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B2 species

Species	V	O	OH	H ₂ O	TPPCL ₈	H ₂ O ₂	OOH	OO	Subs	Subs-O	Total
Re _{B2}	1.11	-0.17			-0.89	0.00			-0.04		0.00
TS1 _{B2}	0.00		0.00		0.00		0.00		0.00		0.00
P1 _{B2}	0.00			0.00	0.00			0.00	0.00		0.00

b) Model A2 spin density

Species	V	O	OH	H ₂ O	TPPCL ₈	H ₂ O ₂	OOH	OO	Subs	Subs-O	Total
Re _{A2}	1.16	-0.16			0.01	0.00			0.00		1.00
TS1 _{A2}	1.64		- 0.28		0.12		0.00		-0.47		1.00
P1 _{A2}	1.30			0.00	-0.29			-0.01	0.00		1.00

Table S22: Group of charge distribution of B3LYP/BS1 optimized Model A2/B2 geometries in Gaussian-09 for the reaction mechanism of $^2\text{VO}(\text{peroxo})\text{-species}^0$ and $^1\text{VO}(\text{peroxo})\text{-species}^{-1}$ with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09..

a) Model B2 species

Species	V	O	OH	H ₂ O	TPPCl ₈	H ₂ O ₂	OOH	OO	Subs	Subs-O	Total
Re _{B2}	1.06	-0.39			0.19	0.09			0.05		1.00
TS1 _{B2}	1.16		-0.01		-0.23		-0.37		0.45		1.00
P1 _{B2}	1.06			0.46	-0.22			-0.82	0.52		1.00

b) Model A2 species

Species	V	O	OH	H ₂ O	TPPCl ₈	H ₂ O ₂	OOH	OO	Subs	Subs-O	Total
Re _{A2}	1.04	-0.42			-0.71	0.07			0.01		0.00
TS1 _{A2}	1.07		-0.06		-0.89		-0.39		0.28		0.00
P1 _{A2}	0.96			0.46	-1.07			-0.85	0.50		0.00

Table S23: Group of spin density of optimized Model A3'/B3' geometries in Gaussian-09 for the reaction mechanism of $^1\text{VO}(\text{HCO}_4^-)(\text{TPPCL}_8)^0$ and $^2\text{VO}(\text{HCO}_4^-)(\text{TPPCL}_8)^{-1}$ with oxo trans to HCO_4^- and cyclohexene attacking HCO_4^- with cyclohexanone after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Model B3' species

Species	V	O	H ₂ O	TPPCL ₈	Subs	SubsO	Subs-	OH	SubsOH	HCO ₄ ⁻	HCO ₃ ⁻	Total
Re _{B3',a}	0.00	0.00	0.00	0.00	0.00					0.00		0.00
Re _{B3',b}	0.00	0.00	0.00	0.00	0.00					0.00		0.00
TS1 _{B3'}	0.00	0.00	0.00	0.00		0.00					0.00	0.00
P1 _{B3'}	0.00	0.00	0.00	0.00		0.00					0.00	0.00
TS2 _{B3'}	0.00	0.00	0.00	0.00			0.00	0.00			0.00	0.00
P2 _{B3'}	0.00	0.00	0.00	0.00					0.00		0.00	0.00

b) Model A3' species

Species	V	O	H ₂ O	TPPCL ₈	Subs	SubsO	Subs-	OH	SubsOH	HCO ₄ ⁻	HCO ₃ ⁻	Total
Re _{A3',a}	1.19	-0.18	0.00	-0.01	0.00					0.00		1.00
Re _{A3',b}	1.14	-0.16	0.00	0.02	0.00					0.00		1.00
TS1 _{A3'}	1.15	-0.17	0.00	0.02		0.00					0.00	1.00
P1 _{A3'}	1.16	-0.17	0.00	0.01		0.01					0.00	1.00
TS2 _{A3'}	1.15	-0.17	0.00	0.02			0.00	0.00			0.00	1.00
P2 _{A3'}	1.15	-0.17	0.00	0.02					0.00		0.00	1.00

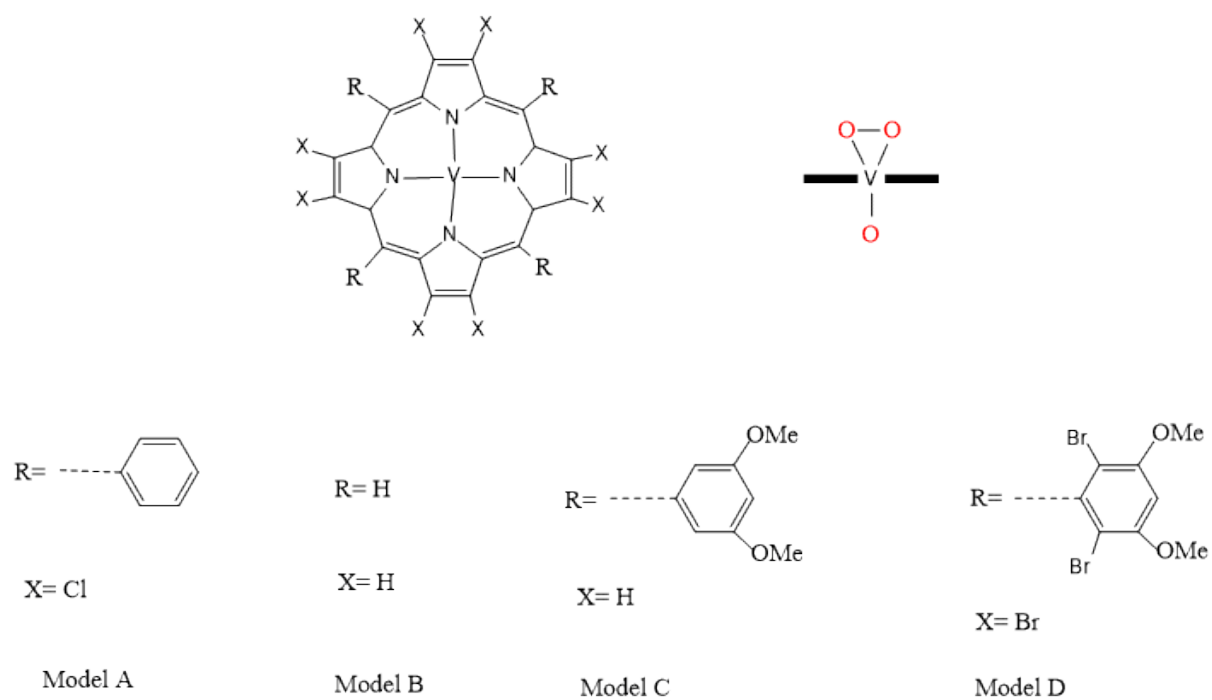
Table S24: Group of charge distribution of optimized Model A3'/B3' geometries in Gaussian-09 for the reaction mechanism of $^1\text{VO}(\text{HCO}_4^-)(\text{TPPCl}_8)^0$ and $^2\text{VO}(\text{HCO}_4^-)(\text{TPPCl}_8)^{-1}$ with oxo trans to HCO_4^- and cyclohexene attacking HCO_4^- at UB3LYP/BS1 in Gaussian-09.

a) Model B3' species

Species	V	O	H ₂ O	TPPCl ₈	Subs	SubsO	Subs-	OH	SubsOH	HCO ₄ ⁻	HCO ₃ ⁻	Total
Re _{B3',a}	1.16	-0.40	-0.01	-0.19	-0.03					-0.53		0.00
Re _{B3',b}	1.13	-0.36	-0.03	-0.28	-0.04					-0.42		0.00
TS1 _{B3'}	1.17	-0.40	-0.01	-0.21		-0.33					-0.22	0.00
P1 _{B3'}	1.17	-0.41	-0.02	-0.30		0.06					-0.51	0.00
TS2 _{B3'}	1.17	-0.40	-0.02	-0.22			-0.11	-0.14			-0.28	0.00
P2 _{B3'}	1.18	-0.41	0.02	-0.29					0.04		-0.54	0.00

b) Model A3' species

Species	V	O	H ₂ O	TPPCl ₈	Subs	SubsO	Subs-	OH	SubsOH	HCO ₄ ⁻	HCO ₃ ⁻	Total
Re _{A3',a}	1.05	-0.44	0.00	-0.94	-0.02					-0.64		-1.00
Re _{A3',b}	1.06	-0.46	-0.05	-0.95	-0.05					-0.56		-1.00
TS1 _{A3'}	1.06	-0.47	-0.01	-0.99		-0.22					-0.37	-1.00
P1 _{A3'}	1.05	-0.48	-0.01	-1.04		0.05					-0.57	-1.00
TS2 _{A3'}	1.06	-0.46	-0.02	-0.99			-0.17	-0.15			-0.28	-1.00
P2 _{A3'}	1.06	-0.48	0.02	-1.03					0.03		-0.60	-1.00



Scheme S1: Studies on the reaction mechanism with different substituents to the porphyrin periphery as investigated in this work.

Table S25: Absolute (free) energies (in au) of Model A5/B5/ and A6/B6 structures as calculated along the reaction mechanism with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Cl

	E [au]	ZPE [au]	G [au]	E [au]
	B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Pathway1: Reaction of VO(OO) with C ₆ H ₁₀				
Re(endon) _{A2''}	-6120.868309	0.673068	-6120.291410	-6121.810004
Re _{A2''}	-6120.896053	0.674772	-6120.320488	-6121.826190
TS4 _{A2''}	-6120.891371	0.675651	-6120.312254	-6121.826319
P1 _{A2''}	-6120.937356	0.677414	-6120.360395	-6121.871817
Re _{B2''}	-6120.857108	0.675251	-6120.292353	-6121.729760
TS4 _{B2''}	-6120.817602	0.678565	-6120.235859	-6121.692438
P1 _{B2''}	-6120.820015	0.677307	-6120.243168	-6121.697267
Pathway2: Reaction of VO(O) with C ₆ H ₁₀				
Re _{A2'}	-6045.732895	0.671607	-6045.162629	-6046.643750
TS5 _{A2'}	-6045.732003	0.669984	-6045.158455	-6046.641073
P2 _{A2'}	-6045.786926	0.673706	-6045.213556	-6046.691189
Re _{B2'}	-6045.599294	0.670621	-6045.031630	-6046.449508
TS5 _{A2'}	-6045.602431	0.669869	-6045.031247	-6046.454586
P2 _{B2'}	-6045.744456	0.676774	-6045.164432	-6046.586633

b) H

Species	E [au]	ZPE [au]	G [au]	E [au]
	B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Pathway1: Reaction of VO(OO) with C ₆ H ₁₀				
Re _{A2-H''}	-1520.051088	0.430072	-1519.682081	-1520.528022
TS4 _{A2-H''}	-1520.047055	0.428057	-1519.677070	-1520.526325
P1 _{A2-H''}	-1520.102137	0.430849	-1519.732486	-1520.584930
Re _{B2-H''}	-1519.971020	0.428598	-1519.607461	-1520.374805
TS4 _{B2-H''}	-1519.977875	0.430760	-1519.604423	-1520.379006
P1 _{B2-H''}	-1519.998931	0.432697	-1519.628824	-1520.398237
Pathway2: Reaction of VO(O) with C ₆ H ₁₀				
Re _{A2-H'}	-1444.896505	0.425177	-1444.533766	-1445.355892
TS5 _{A2-H'}	-1444.884112	0.424869	-1444.515806	-1445.340255
P2 _{A2-H'}	-1444.969261	0.428374	-1444.599785	-1445.410629
Re _{B2-H'}	-1444.793763	0.426874	-1444.430613	-1445.170598
TS5 _{B2-H'}	-1444.795956	0.426880	-1444.427785	-1445.172461
P2 _{B2-H'}	-1444.924303	0.432324	-1444.549431	-1445.294875

c) Substituent A

Model	E [au]	ZPE [au]	G [au]	E [au]
	B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Pathway1: Reaction of VO(OO) with C ₆ H ₁₀				
Re _{A2-A''}	-3360.392647	1.014603	-3359.492181	-3361.367525
TS4 _{A2-A''}	-3360.369664	1.014229	-3359.466367	-3361.349740
P1 _{A2-A''}	-3360.433800	1.016637	-3359.533063	-3361.411554
Re _{B2-A''}	-3360.324892	1.014121	-3359.425706	-3361.221348
TS4 _{B2-A''}	-3360.335948	1.018404	-3359.429512	-3361.236442
P1 _{B2-A''}	-3360.328555	1.015843	-3359.428943	-3361.229473
Pathway2: Reaction of VO(O) with C ₆ H ₁₀				
Re _{A2-A'}	-3285.227997	1.011297	-3284.329373	-3286.183932
TS5 _{A2-A'}	-3285.223645	1.009132	-3284.326436	-3286.178236
P2 _{A2-A'}	-3285.276472	1.013142	-3284.377833	-3286.218700
Re _{B2-A'}	-3285.143392	1.011807	-3284.246854	-3286.012457
TS5 _{B2-A'}	-3285.128733	1.010200	-3284.231410	-3286.005816
P2 _{B2-A'}	-3285.269179	1.016606	-3284.366337	-3286.135217

d) Substituent B

Species	E [au]	ZPE [au]	G [au]	E [au]
	B3LYP /BS1	B3LYP /BS1	B3LYP /BS1	B3LYP /BS2
Pathway1: Reaction of VO(OO) with C ₆ H ₁₀				
Re(endon) _{A2-B''}	-44493.07540	0.849457	-44492.38249	-44537.89797
Re _{A2-B''}	-44493.10300	0.850538	-44492.40512	-44537.91977
TS4 _{A2-B''}	-44493.06378	0.850865	-44492.36258	-44537.88514
P1 _{A2-B''}	-44493.14270	0.852868	-44492.44324	-44537.96300
Re _{B2-B''}	-44493.07583	0.850635	-44492.38689	-44537.82196
TS4 _{B2-B''}	-44493.03276	0.853810	-44492.32811	-44537.77875
P1 _{B2-B''}	-44493.03118	0.852055	-44492.33836	-44537.77862
Pathway2: Reaction of VO(O) with C ₆ H ₁₀				
Re _{A2-B'}	-44417.93653	0.847045	-44417.24240	-44462.73295
TS5 _{A2-B'}	-44417.90471	0.846094	-44417.20639	-44462.69582
P2 _{A2-B'}	-44418.00027	0.849227	-44417.30420	-44462.78648
Re _{B2-B'}	-44417.82988	0.846664	-44417.13874	-44462.55028
TS5 _{B2-B'}	-44417.84333	0.848019	-44417.14345	-44462.52146
P2 _{B2-B'}	-44417.95923	0.851686	-44417.26056	-44462.67933

Table S25: Relative (free) energies (in kcal mol⁻¹) of Model A5/B5/ and A6/B6 structures as calculated along the reaction mechanism with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Cl

Species	ΔE	$\Delta E + \text{ZPE}$	ΔG	ΔE	$\Delta E + \text{ZPE}$
	BS1	BS1	BS1	BS2	BS2
Pathway1: Reaction of VO(OO) with C ₆ H ₁₀					
Re(endon) _{A2''}	17.41	16.34	18.25	10.16	9.09
Re _{A2''}	0.00	0.00	0.00	0.00	0.00
TS4 _{A2''}	2.94	3.49	5.17	-0.08	0.47
P1 _{A2''}	-25.92	-24.26	-25.04	-28.63	-26.97
Re _{B2''}	0.00	0.00	0.00	0.00	0.00
TS4 _{B2''}	24.79	26.87	35.45	23.42	25.50
P1 _{B2''}	23.28	24.57	30.86	20.39	21.68
Pathway2: Reaction of VO(O) with C ₆ H ₁₀					
Re _{A2'}	0.00	0.00	0.00	0.00	0.00
TS5 _{A2'}	0.56	-0.46	2.62	0.93	-0.09
P2 _{A2'}	-33.91	-32.59	-31.96	-29.77	-28.45
Re _{B2'}	0.00	0.00	0.00	0.00	0.00
TS5 _{A2'}	-1.97	-2.44	0.24	-3.19	-3.66
P2 _{B2'}	-91.09	-87.23	-83.33	-86.05	-78.5

b) H

Species	ΔE	$\Delta E + \text{ZPE}$	ΔG	ΔE	$\Delta E + \text{ZPE}$
	BS1	BS1	BS1	BS2	BS2
Pathway1: Reaction of VO(OO) with C ₆ H ₁₀					
Re _{A2-H''}	0.00	0.00	0.00	0.00	0.00
TS4 _{A2-H''}	2.53	1.27	3.14	1.07	-0.20
P1 _{A2-H''}	-32.03	-31.55	-31.63	-35.71	-35.22
Re _{B2-H''}	0.00	0.00	0.00	0.00	0.00
TS4 _{B2-H''}	-4.30	-2.95	1.91	-2.64	-1.28
P1 _{B2-H''}	-17.51	-14.94	-13.41	-14.70	-12.13
Pathway2: Reaction of VO(O) with C ₆ H ₁₀					
Re _{A2-H'}	0.00	0.00	0.00	0.00	0.00
TS5 _{A2-H'}	7.78	7.58	11.27	9.81	9.62
P2 _{A2-H'}	-45.66	-43.65	-41.43	-34.35	-32.34
Re _{B2-H'}	0.00	0.00	0.00	0.00	0.00
TS5 _{B2-H'}	-1.38	-1.37	1.77	-1.17	-1.17
P2 _{B2-H'}	-81.92	-78.50	-74.56	-77.99	-74.57

c) Substituent A

Species	ΔE	$\Delta E + \text{ZPE}$	ΔG	ΔE	$\Delta E + \text{ZPE}$
	BS1	BS1	BS1	BS2	BS2
Pathway1: Reaction of VO(OO) with C ₆ H ₁₀					
Re _{A2-A''}	0.00	0.00	0.00	0.00	0.00
TS4 _{A2-A''}	14.42	14.19	16.20	11.16	10.93
P1 _{A2-A''}	-25.82	-24.55	-25.65	-27.63	-26.35
Re _{B2-A''}	0.00	0.00	0.00	0.00	0.00
TS4 _{B2-A''}	-6.94	-4.25	-2.39	-9.47	-6.78
P1 _{B2-A''}	-2.30	-1.22	-2.03	-5.10	-4.02
Pathway2: Reaction of VO(O) with C ₆ H ₁₀					
Re _{A2-A'}	0.00	0.00	0.00	0.00	0.00
TS5 _{A2-A'}	2.73	1.37	1.84	3.57	2.22
P2 _{A2-A'}	-30.42	-29.26	-30.41	-21.82	-20.66
Re _{B2-A'}	0.00	0.00	0.00	0.00	0.00
TS5 _{B2-A'}	9.20	8.19	9.69	4.17	3.16
P2 _{B2-A'}	-78.93	-75.92	-74.98	-77.03	-74.02

d) Substituent B

Species	ΔE	$\Delta E + \text{ZPE}$	ΔG	ΔE	$\Delta E + \text{ZPE}$
	BS1	BS1	BS1	BS2	BS2
Pathway1: Reaction of VO(OO) with C ₆ H ₁₀					
Re(endon) _{A2-B''}	17.31	16.64	14.20	13.68	13.00
Re _{A2-B''}	0.00	0.00	0.00	0.00	0.00
TS4 _{A2-B''}	24.61	24.81	26.69	21.73	21.93
P1 _{A2-B''}	-24.91	-23.45	-23.92	-27.13	-25.67
Re _{B2-B''}	0.00	0.00	0.00	0.00	0.00
TS4 _{B2-B''}	27.03	29.02	36.88	27.11	29.10
P1 _{B2-B''}	28.02	28.91	30.46	27.19	28.08
Pathway2: Reaction of VO(O) with C ₆ H ₁₀					
Re _{A2-B'}	0.00	0.00	0.00	0.00	0.00
TS5 _{A2-B'}	19.97	19.37	22.59	23.30	22.70
P2 _{A2-B'}	-40.00	-38.63	-38.78	-33.59	-32.22
Re _{B2-B'}	0.00	0.00	0.00	0.00	0.00
TS5 _{B2-B'}	-8.44	-7.59	-2.96	18.08	18.93
P2 _{B2-B'}	-81.17	-78.02	-76.44	-80.98	-77.83

Table S26: Group of spin density of Model A5/B5/ and A6/B6 structures as calculated along the reaction mechanism with cyclohexene after a geometry optimization at UB3LYP/BS1 in Gaussian-09.

a) Cl

Pathway1: Reaction of VO(OO) with C ₆ H ₁₀												
Cl	Spin Density						Charge Distribution					
	Re _{A2''}	TS4 _{,A2''}	P _{A2''}	Re _{B2''}	TS4 _{B2''}	P1 _{B2''}	Re _{A2''}	TS4 _{,A2''}	P _{A2''}	Re _{B2''}	TS4 _{B2''}	P1 _{B2''}
V	0.00	1.21	0.00	-0.02	1.20	-1.36	1.05	1.04	1.02	1.09	1.05	0.99
Porp	0.00	-1.01	0.00	1.00	-0.02	1.01	-0.98	-1.65	-0.94	-0.03	-0.73	-0.10
O	0.00	-0.18	0.00	0.02	-0.18	0.44	-0.46	-0.45	-0.52	-0.47	-0.43	-0.47
OO	0.00	-0.02	0.00	0.00	0.00	0.91	-0.59	-0.63	-1.00	-0.60	-0.63	-0.89
Subs	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.69	0.44	0.00	0.73	0.46
Total	0.00	0.00	0.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	0.00	0.00	0.00

Pathway2: Reaction of VO(O) with C ₆ H ₁₀												
Cl	Spin Density						Charge Distribution					
	Re _{A2'}	TS5 _{A2'}	P2 _{A2'}	Re _{B2'}	TS5 _{B2'}	P2 _{B2'}	Re _{A2'}	TS5 _{A2'}	P2 _{A2'}	Re _{B2'}	TS5 _{B2'}	P2 _{B2'}
V	-1.42	1.17	0.00	-0.62	1.25	1.18	1.01	0.98	0.82	1.01	1.02	1.08
Porp	0.05	-0.03	0.00	0.85	0.70	-0.01	-1.51	-1.56	-1.85	-0.51	-0.75	-1.11
O	0.00	-0.01	0.00	0.00	0.00	0.00	-0.30	-0.27	-0.26	-0.34	-0.28	-0.28
O	1.37	-0.63	0.00	0.76	-0.81	-0.17	-0.50	-0.63	-0.50	-0.48	-0.53	-0.45
Subs	0.00	-0.51	0.00	0.00	-0.13	0.00	0.30	0.47	0.79	0.33	0.54	0.77
Total	0.00	0.00	0.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	0.00	0.00	0.00

b) H

Pathway1: Reaction of VO(OO) with C ₆ H ₁₀												
H	Spin Density						Charge Distribution					
	Re _{A2-H''}	TS4 _{A2-H''}	P _{A2-H''}	Re _{B2-H''}	TS4 _{B2-H''}	P1 _{B2-H''}	Re _{A2-H''}	TS4 _{A2-H''}	P _{A2-H''}	Re _{B2-H''}	TS4 _{B2-H''}	P1 _{B2-H''}
V	0.00	1.21	-1.21	-1.05	1.25	-0.18	1.10	1.09	1.04	1.09	1.15	1.31
Porp	0.00	0.01	-0.04	1.00	-0.05	0.04	-0.92	-1.02	-1.06	-0.06	-0.82	-0.55
O	0.00	-0.17	0.13	0.14	-0.21	0.00	-0.49	-0.49	-0.49	-0.49	-0.43	-0.41
OO	0.00	-0.63	1.13	0.90	-0.70	1.14	-0.66	-0.60	-0.94	-0.53	-0.33	-0.79
Subs	0.00	-0.42	0.00	0.00	0.71	0.00	-0.03	0.01	0.45	-0.01	0.44	0.44
Total	0.00	0.00	0.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	0.00	0.00	0.00

Pathway2: Reaction of VO(O) with C ₆ H ₁₀												
H	Spin Density						Charge Distribution					
	Re _{A2-H'}	TS5 _{A2-H'}	P2 _{A2-H'}	Re _{B2-H'}	TS5 _{B2-H'}	P2 _{B2-H'}	Re _{A2-H'}	TS5 _{A2-H'}	P2 _{A2-H'}	Re _{B2-H'}	TS5 _{B2-H'}	P2 _{B2-H'}
V	-1.22	-1.20	-1.18	-1.34	-1.36	-1.19	1.04	1.05	1.08	1.12	1.11	1.13
Porp	-0.06	-0.08	1.00	0.74	0.57	1.98	-1.07	-1.07	-1.67	-0.26	-0.46	-0.76
O	0.13	0.15	0.18	0.43	0.32	0.21	-0.49	-0.48	-0.44	-0.43	-0.46	-0.41
O	1.15	0.62	0.00	1.17	1.11	0.00	-0.44	-0.52	-0.40	-0.42	-0.43	-0.43
Subs	0.00	0.52	0.00	0.00	0.36	0.00	-0.04	0.02	0.43	-0.01	0.24	0.47
Total	0.00	0.00	0.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	0.00	0.00	0.00

c) Substituent A

Pathway1: Reaction of VO(OO) with C ₆ H ₁₀												
A	Spin Density						Charge Distribution					
	Re _{A2-A''}	TS4 _{A2-A''}	P1 _{A2-A''}	Re _{B2-A''}	TS4 _{B2-A''}	P1 _{B2-A''}	Re _{A2-A''}	TS4 _{A2-A''}	P _{A2-A''}	Re _{B2-A''}	TS4 _{B2-A''}	P1 _{B2-A''}
V	0.00	1.20	0.00	-1.05	1.26	-0.38	1.07	1.01	1.03	1.08	1.12	1.05
Porp	0.00	-0.13	0.00	1.01	-0.02	0.99	-0.94	-1.16	-0.87	-0.05	-0.78	0.05
O	0.00	-0.26	0.00	0.14	-0.24	0.19	-0.50	-0.53	-0.54	-0.49	-0.46	-0.52
OO	0.00	-0.77	0.00	0.90	0.01	0.19	-0.65	-0.83	-0.58	-0.53	-0.63	-0.55
Subs	0.00	-0.05	0.00	0.00	0.00	0.00	0.01	0.51	-0.03	0.00	0.75	-0.02
Total	0.00	0.00	0.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	0.00	0.00	0.00

Pathway2: Reaction of VO(O) with C ₆ H ₁₀												
A	Spin Density						Charge Distribution					
	Re _{A2-A'}	TS5 _{A2-A'}	P2 _{A2-A'}	Re _{B2-A'}	TS5 _{B2-A'}	P2 _{B2-A'}	Re _{A2-A'}	TS5 _{A2-A'}	P2 _{A2-A'}	Re _{B2-A'}	TS5 _{B2-A'}	P2 _{B2-A'}
V	0.00	1.28	0.00	-1.31	1.23	1.38	1.05	1.03	0.85	1.08	1.08	1.08
Porp	0.00	-0.04	0.00	0.90	0.66	-0.02	-0.92	-1.03	-1.40	-0.17	-0.31	-0.72
O	0.00	-0.22	0.00	0.24	-0.19	-0.37	-0.50	-0.52	-0.49	-0.49	-0.49	-0.40
O	0.00	-1.16	0.00	1.18	-0.80	0.00	-0.61	-0.65	-0.49	-0.42	-0.59	-0.52
Subs	0.00	0.15	0.00	0.00	0.09	0.00	-0.01	0.16	0.53	0.00	0.31	0.56
Total	0.00	0.00	0.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	0.00	0.00	0.00

d) SubstituentB

Pathway1: Reaction of VO(OO) with C ₆ H ₁₀												
SubsB	Spin Density						Charge Distribution					
	Re _{A2-B''}	TS4 _{A2-B''}	P1 _{A2-B''}	Re _{B2-B''}	TS4 _{B2-B''}	P1 _{B2-B''}	Re _{A2-B''}	TS4 _{A2-B''}	P _{A2-B''}	Re _{B2-B''}	TS4 _{B2-B''}	P1 _{B2-B''}
V	0.00	0.00	0.00	-1.18	1.20	-0.64	1.01	0.97	0.97	1.05	1.06	1.03
Porp	0.00	0.00	0.00	0.02	-0.01	0.80	-1.00	-1.58	-0.94	-0.66	-0.74	-0.07
O	0.00	0.00	0.00	0.16	-0.19	0.42	-0.44	-0.47	-0.53	-0.41	-0.44	-0.46
OO	0.00	0.00	0.00	2.00	0.00	0.43	-0.57	-0.62	-0.51	0.03	-0.62	-0.48
Subs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.01	-0.02	0.74	-0.01
Total	0.00	0.00	0.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	0.00	0.00	0.00

Pathway2: Reaction of VO(O) with C ₆ H ₁₀												
SubsB	Spin Density						Charge Distribution					
	Re _{A2-B'}	TS5 _{A2-B'}	P2 _{A2-B'}	Re _{B2-B'}	TS5 _{B2-B'}	P2 _{B2-B'}	Re _{A2-B'}	TS5 _{A2-B'}	P2 _{A2-B'}	Re _{B2-B'}	TS5 _{B2-B'}	P2 _{B2-B'}
V	0.00	0.00	0.00	-0.66	0.93	1.18	0.99	1.02	0.83	1.04	1.11	1.09
Porp	0.00	0.00	0.00	0.76	-0.06	-0.01	-0.90	-1.00	-1.41	-0.10	-0.67	-0.67
O	0.00	0.00	0.00	0.45	-0.26	-0.17	-0.52	-0.51	-0.45	-0.45	-0.43	-0.41
O	0.00	0.00	0.00	0.46	-0.10	0.00	-0.54	-0.85	-0.49	-0.47	-0.86	-0.48
Subs	0.00	0.00	0.00	0.00	0.49	0.00	-0.03	0.34	0.53	-0.02	0.84	0.47
Total	0.00	0.00	0.00	1.00	1.00	1.00	-1.00	-1.00	-1.00	0.00	0.00	0.00

Cartesian coordinates of optimized geometries:

Model A1/B1

¹Re_{B1}⁺¹

23	0.247170000	2.587190000	-5.670456000
7	-0.807671000	3.423331000	-4.154795000
7	0.990308000	1.329711000	-4.261071000
7	0.662323000	1.135064000	-7.020846000
7	-1.325797000	3.053749000	-6.878158000
6	-1.228728000	4.706480000	-4.459622000
6	-0.871850000	5.580402000	-3.368653000
6	-0.404490000	4.784640000	-2.347318000
6	-0.374213000	3.425828000	-2.837624000
6	0.549811000	1.178370000	-2.959558000
6	0.959372000	-0.118816000	-2.485853000
6	1.790357000	-0.659154000	-3.440920000
6	1.822886000	0.264063000	-4.548040000
6	1.975372000	0.706277000	-6.949617000
6	2.533815000	0.706802000	-8.281457000
6	1.499279000	0.957843000	-9.153816000
6	-1.816243000	2.303822000	-7.930498000
6	-0.972774000	1.552054000	-8.786002000
6	-3.192970000	2.670202000	-8.150892000
6	-3.462996000	3.753160000	-7.345568000
6	-2.282227000	4.000803000	-6.554337000
6	-2.098824000	4.967897000	-5.549802000
6	0.063250000	2.263910000	-2.190729000
6	2.508607000	0.127817000	-5.769164000
17	0.433876000	-0.937799000	-1.074383000
6	0.318461000	1.217236000	-8.361859000
17	2.475440000	-2.226467000	-3.338835000
17	-0.884978000	7.295073000	-3.336168000
17	-5.000688000	4.500841000	-7.228255000
17	1.684941000	1.077914000	-10.851993000
17	4.176528000	0.553977000	-8.742397000
17	-4.355590000	1.861860000	-9.117515000
17	0.161269000	5.386730000	-0.847607000
6	3.725386000	-0.709092000	-5.802479000
6	3.819057000	-1.831518000	-6.644986000
6	4.793302000	-0.393899000	-4.941619000
6	4.956387000	-2.631351000	-6.618005000
6	5.941360000	-1.182283000	-4.944178000
6	6.022475000	-2.303785000	-5.773600000
1	2.988153000	-2.091075000	-7.294696000
1	4.722182000	0.481218000	-4.303168000
1	5.014648000	-3.508876000	-7.254933000
1	6.772631000	-0.924544000	-4.294617000
1	6.914293000	-2.923779000	-5.762820000
6	0.124931000	2.223269000	-0.711137000
6	-1.046302000	2.405101000	0.043290000
6	1.349807000	2.025551000	-0.050456000
6	-0.993564000	2.370246000	1.434629000
6	1.403248000	2.018342000	1.340699000
6	0.229897000	2.183693000	2.083457000
1	-1.996066000	2.550593000	-0.463786000
1	2.258890000	1.902178000	-0.632449000
1	-1.905177000	2.492449000	2.012057000
1	2.355852000	1.880332000	1.845547000
1	0.270248000	2.167415000	3.168818000
6	-2.905990000	6.206747000	-5.599905000

6	-2.838533000	7.028348000	-6.739357000
6	-3.763891000	6.562631000	-4.544009000
6	-3.598598000	8.192957000	-6.810365000
6	-4.544058000	7.710816000	-4.632958000
6	-4.457516000	8.531890000	-5.761875000
1	-2.171540000	6.761496000	-7.554110000
1	-3.836608000	5.923010000	-3.669261000
1	-3.525249000	8.832521000	-7.684782000
1	-5.218656000	7.968460000	-3.822053000
1	-5.059565000	9.433705000	-5.823554000
8	1.369888000	3.664305000	-5.941405000
6	-1.404760000	1.202736000	-10.160885000
6	-1.775851000	2.199575000	-11.079086000
6	-1.425064000	-0.144209000	-10.560405000
6	-2.152470000	1.853694000	-12.373604000
6	-1.827573000	-0.487570000	-11.848925000
6	-2.185727000	0.510197000	-12.758879000
1	-1.747319000	3.244024000	-10.781904000
1	-1.145877000	-0.918983000	-9.851905000
1	-2.422226000	2.630890000	-13.082399000
1	-1.857851000	-1.532138000	-12.144125000
1	-2.489564000	0.242316000	-13.766583000
8	3.963984000	2.821146000	-3.635109000
8	4.054222000	2.955806000	-5.081093000
1	3.243041000	3.469662000	-5.267025000
1	4.722741000	3.369663000	-3.364973000
6	5.849430000	0.687802000	1.620515000
6	5.189700000	1.626903000	2.603521000
6	4.547858000	1.213149000	3.703917000
6	4.378202000	-0.241259000	4.072698000
6	4.700946000	-1.175947000	2.895650000
6	5.988812000	-0.735673000	2.185628000
1	6.836628000	1.082215000	1.342378000
1	5.268891000	0.666607000	0.683244000
1	5.271675000	2.694746000	2.400994000
1	4.133627000	1.950631000	4.391222000
1	3.354309000	-0.418483000	4.429903000
1	5.029946000	-0.474842000	4.929257000
1	4.788349000	-2.210435000	3.248063000
1	3.867999000	-1.155763000	2.178185000
1	6.249254000	-1.437325000	1.383975000
1	6.818877000	-0.756091000	2.904861000

¹TS_{B1}⁺¹

23	0.384412000	2.696890000	-5.797137000
7	-0.655869000	3.431477000	-4.263575000
7	0.848362000	1.163395000	-4.447913000
7	0.723932000	1.256756000	-7.174603000
7	-1.317419000	3.009291000	-6.895837000
6	-1.292127000	4.641878000	-4.463716000
6	-0.980366000	5.509255000	-3.349436000
6	-0.312486000	4.752659000	-2.416152000
6	-0.177497000	3.417951000	-2.952422000
6	0.517693000	1.097966000	-3.113538000
6	0.766160000	-0.245849000	-2.638918000
6	1.414629000	-0.914862000	-3.645094000
6	1.531213000	0.001588000	-4.757818000
6	1.962590000	0.636501000	-7.060407000
6	2.635305000	0.715407000	-8.330496000
6	1.729812000	1.220271000	-9.238964000

6	-1.680391000	2.439353000	-8.104373000
6	-0.745476000	1.892630000	-9.000726000
6	-3.069273000	2.744512000	-8.359194000
6	-3.472015000	3.637474000	-7.400379000
6	-2.345176000	3.860729000	-6.519221000
6	-2.237455000	4.813156000	-5.492090000
6	0.220868000	2.238310000	-2.329081000
6	2.274017000	-0.155877000	-5.935600000
17	0.240162000	-0.958151000	-1.171459000
6	0.513321000	1.510972000	-8.519907000
17	1.826259000	-2.577280000	-3.598370000
17	-1.258857000	7.193194000	-3.215094000
17	-5.076098000	4.218517000	-7.239178000
17	2.084888000	1.539017000	-10.882056000
17	4.269783000	0.346017000	-8.684764000
17	-4.097048000	2.042557000	-9.536633000
17	0.314759000	5.367066000	-0.945780000
6	3.345141000	-1.179573000	-6.003425000
6	3.273084000	-2.234015000	-6.928252000
6	4.435932000	-1.107394000	-5.121759000
6	4.269655000	-3.205810000	-6.960101000
6	5.442938000	-2.068235000	-5.174069000
6	5.358482000	-3.121859000	-6.087690000
1	2.424950000	-2.302887000	-7.603553000
1	4.496669000	-0.283980000	-4.416885000
1	4.198665000	-4.027753000	-7.666183000
1	6.291713000	-1.997580000	-4.500282000
1	6.139312000	-3.876036000	-6.120483000
6	0.374503000	2.183488000	-0.850824000
6	-0.739285000	2.374977000	-0.018540000
6	1.632342000	1.942329000	-0.276138000
6	-0.595970000	2.314657000	1.365877000
6	1.778054000	1.906083000	1.109014000
6	0.661616000	2.086810000	1.930265000
1	-1.716831000	2.551927000	-0.458368000
1	2.498040000	1.797857000	-0.916936000
1	-1.464720000	2.448811000	2.003644000
1	2.758087000	1.736248000	1.547250000
1	0.772542000	2.049335000	3.010107000
6	-3.175580000	5.966918000	-5.464680000
6	-3.150369000	6.905290000	-6.508333000
6	-4.095809000	6.123772000	-4.416446000
6	-4.024471000	7.990637000	-6.495095000
6	-4.983282000	7.196871000	-4.419403000
6	-4.945733000	8.134598000	-5.455279000
1	-2.434386000	6.791552000	-7.317457000
1	-4.128200000	5.393139000	-3.613042000
1	-3.989477000	8.720542000	-7.298420000
1	-5.702974000	7.303239000	-3.613143000
1	-5.633644000	8.975037000	-5.451521000
8	0.997290000	4.127070000	-6.469442000
6	-1.070190000	1.749940000	-10.444155000
6	-1.349618000	2.882626000	-11.224861000
6	-1.090642000	0.478589000	-11.038864000
6	-1.636356000	2.744244000	-12.581102000
6	-1.399965000	0.342998000	-12.390474000
6	-1.667857000	1.474978000	-13.164390000
1	-1.323789000	3.869508000	-10.771333000
1	-0.884305000	-0.401563000	-10.436202000
1	-1.838362000	3.625968000	-13.181980000
1	-1.429617000	-0.644992000	-12.840299000
1	-1.900686000	1.368189000	-14.219838000
8	3.536990000	2.392707000	-4.961393000

8	2.359141000	3.186570000	-5.090724000
1	2.073456000	3.998513000	-5.989750000
1	4.002532000	2.874024000	-4.250973000
6	5.902843000	-0.277195000	2.253421000
6	5.601647000	1.203156000	2.225583000
6	5.148798000	1.886362000	3.284976000
6	4.856428000	1.250226000	4.622940000
6	4.800277000	-0.283548000	4.533667000
6	5.961598000	-0.825819000	3.688908000
1	6.853438000	-0.468542000	1.736507000
1	5.139111000	-0.820226000	1.673309000
1	5.791524000	1.730911000	1.290478000
1	4.993466000	2.962076000	3.203049000
1	3.912062000	1.643658000	5.024479000
1	5.629159000	1.558404000	5.344721000
1	4.816663000	-0.720910000	5.538783000
1	3.848593000	-0.585382000	4.073390000
1	5.951484000	-1.922086000	3.674817000
1	6.911840000	-0.524030000	4.150119000

¹Int_{B1}⁺¹			
23	0.517326000	2.755260000	-5.686126000
7	-0.657580000	3.505471000	-4.236100000
7	0.708555000	1.177830000	-4.331835000
7	0.873678000	1.298451000	-7.024691000
7	-1.235533000	3.003426000	-6.842657000
6	-1.379279000	4.670327000	-4.465285000
6	-1.112473000	5.587870000	-3.386489000
6	-0.368504000	4.909893000	-2.445089000
6	-0.173397000	3.570162000	-2.937706000
6	0.413810000	1.211520000	-2.975826000
6	0.551996000	-0.121277000	-2.440576000
6	1.099953000	-0.900314000	-3.428440000
6	1.300300000	-0.052963000	-4.578777000
6	1.979461000	0.478096000	-6.852119000
6	2.723560000	0.452579000	-8.085604000
6	1.973565000	1.119420000	-9.030058000
6	-1.472792000	2.482422000	-8.105549000
6	-0.450136000	1.989570000	-8.941152000
6	-2.858063000	2.707696000	-8.447341000
6	-3.396556000	3.494980000	-7.461209000
6	-2.347030000	3.759041000	-6.504565000
6	-2.335721000	4.736619000	-5.488462000
6	0.205435000	2.403165000	-2.257888000
6	2.106572000	-0.313725000	-5.702125000
17	0.000191000	-0.712536000	-0.930268000
6	0.764041000	1.562878000	-8.383804000
17	1.327081000	-2.595081000	-3.316563000
17	-1.525689000	7.247078000	-3.284748000
17	-5.053586000	3.920876000	-7.355693000
17	2.485309000	1.423327000	-10.636220000
17	4.289559000	-0.183606000	-8.363533000
17	-3.752918000	2.019793000	-9.737444000
17	0.264532000	5.614146000	-1.017884000
6	3.082020000	-1.436184000	-5.661378000
6	2.947156000	-2.539486000	-6.517360000
6	4.148754000	-1.393403000	-4.750628000
6	3.861451000	-3.588432000	-6.454539000
6	5.073945000	-2.434676000	-4.706714000
6	4.928559000	-3.535741000	-5.553747000
1	2.116496000	-2.582679000	-7.216157000
1	4.255879000	-0.536370000	-4.091718000
1	3.742804000	-4.446398000	-7.109629000

1	5.904643000	-2.389104000	-4.008631000	7	0.598534000	0.696693000	-6.962428000
1	5.644281000	-4.351546000	-5.511869000	7	-1.117014000	2.751970000	-6.922636000
6	0.375585000	2.412387000	-0.780906000	6	-1.167540000	4.544267000	-4.567077000
6	-0.713098000	2.674366000	0.064699000	6	-0.790065000	5.516829000	-3.572525000
6	1.637219000	2.149652000	-0.224489000	6	-0.116150000	4.841205000	-2.580840000
6	-0.541728000	2.661422000	1.446812000	6	-0.088871000	3.451106000	2.962203000
6	1.811026000	2.160460000	1.158380000	6	0.256855000	1.059744000	-2.843319000
6	0.719425000	2.410198000	1.993969000	6	0.201939000	-0.232739000	-2.208333000
1	-1.693850000	2.867176000	-0.361145000	6	0.567436000	-1.163779000	-3.145804000
1	2.481043000	1.953571000	-0.880250000	6	0.868213000	-0.452092000	-4.365208000
1	-1.391374000	2.849124000	2.096714000	6	1.536413000	-0.286152000	-6.710938000
1	2.792578000	1.971207000	1.585160000	6	2.291644000	-0.537676000	-7.912870000
1	0.851825000	2.408254000	3.072071000	6	1.717784000	0.210071000	-8.915460000
6	-3.361934000	5.813917000	-5.487521000	6	-1.419535000	2.222459000	-8.167572000
6	-3.410245000	6.740856000	-6.540166000	6	-0.488147000	1.526119000	-8.964640000
6	-4.294106000	5.908171000	-4.442531000	6	-2.750805000	2.619566000	-8.540190000
6	-4.367545000	7.753329000	-6.539938000	6	-3.195771000	3.499849000	-7.586480000
6	-5.264290000	6.907430000	-4.457727000	6	-2.135448000	3.668601000	-6.625462000
6	-5.299275000	7.834712000	-5.502490000	6	-2.058703000	4.669963000	-5.642311000
1	-2.689007000	6.676402000	-7.350316000	6	0.207789000	2.316278000	-2.203444000
1	-4.268694000	5.186270000	-3.631156000	6	1.554189000	-0.964081000	-5.480378000
1	-4.389095000	8.475069000	-7.351038000	17	-0.373365000	-0.611832000	-0.639408000
1	-5.991602000	6.964238000	-3.653320000	6	0.593967000	0.905141000	-8.341042000
1	-6.051487000	8.618053000	-5.508294000	17	0.491608000	-2.858249000	-2.897120000
8	1.006642000	4.234903000	-6.584462000	17	-0.992617000	7.217937000	-3.616556000
6	-0.675538000	1.891296000	-10.408637000	17	-4.795476000	4.112735000	-7.521156000
6	-0.888125000	3.051741000	-11.168651000	17	2.333019000	0.333442000	-10.510017000
6	-0.684468000	0.639792000	-11.043849000	17	3.712876000	-1.474401000	-8.100955000
6	-1.093581000	2.961717000	-12.543904000	17	-3.712401000	2.008567000	-9.820170000
6	-0.912875000	0.552191000	-12.415057000	17	0.628946000	5.588184000	-1.231815000
6	-1.112064000	1.712251000	-13.168090000	6	2.291090000	-2.249875000	-5.361699000
1	-0.877942000	4.024328000	-10.684199000	6	1.906607000	-3.364306000	-6.123571000
1	-0.532599000	-0.262889000	-10.458807000	6	3.381681000	-2.354250000	-4.484070000
1	-1.243430000	3.865590000	-13.126836000	6	2.594412000	-4.568534000	-5.997003000
1	-0.933486000	-0.420931000	-12.896620000	6	4.082480000	-3.553962000	-4.379892000
1	-1.281970000	1.642382000	-14.238485000	6	3.686363000	-4.663877000	-5.129928000
8	2.956635000	2.447431000	-4.097624000	1	1.056070000	-3.291212000	-6.795565000
8	2.205569000	3.137502000	-5.061090000	1	3.688132000	-1.491148000	-3.899880000
1	0.356585000	4.588164000	-7.216581000	1	2.280702000	-5.431902000	-6.576200000
1	3.760081000	3.005298000	-4.088442000	1	4.934608000	-3.623724000	-3.710343000
6	6.418715000	0.844574000	1.803799000	1	4.226986000	-5.601444000	-5.039120000
6	5.604322000	1.884983000	2.536970000	6	0.452939000	2.409633000	-0.742633000
6	4.884461000	1.620343000	3.635083000	6	-0.548593000	2.876788000	0.123371000
6	4.774001000	0.245354000	4.249165000	6	1.695356000	2.019589000	-0.216834000
6	5.282552000	-0.853355000	3.301460000	6	-0.311982000	2.940764000	1.493913000
6	6.601186000	-0.435700000	2.635849000	6	1.938210000	2.109507000	1.152508000
1	7.398088000	1.265419000	1.537562000	6	0.931711000	2.563627000	2.008721000
1	5.932915000	0.604286000	0.843675000	1	-1.516316000	3.165972000	-0.276733000
1	5.637119000	2.903761000	2.150842000	1	2.475340000	1.664915000	-0.884974000
1	4.357414000	2.431417000	4.137658000	1	-1.096697000	3.286495000	2.160361000
1	3.731773000	0.047537000	4.535757000	1	2.908025000	1.820190000	1.548791000
1	5.343853000	0.224467000	5.191409000	1	1.115951000	2.622580000	3.077546000
1	5.407503000	-1.795047000	3.848770000	6	-2.947421000	5.857746000	-5.728823000
1	4.527894000	-1.038290000	2.523503000	6	-2.857664000	6.727097000	-6.827465000
1	6.990711000	-1.244392000	2.005792000	6	-3.879391000	6.123489000	-4.712969000
1	7.353598000	-0.252570000	3.415001000	6	-3.679365000	7.849615000	-6.901523000
				6	-4.716724000	7.232329000	-4.803674000
				6	-4.614279000	8.100336000	-5.894206000
				1	-2.132464000	6.530890000	-7.612218000
				1	-3.960429000	5.448433000	-3.865709000
				1	-3.593546000	8.525809000	-7.746925000
				1	-5.446752000	7.421775000	-4.022382000
				1	-5.261640000	8.969987000	-5.958637000
¹TS_{B1}⁺¹							
23	0.487505000	2.321217000	-5.687371000				
7	-0.618971000	3.320624000	-4.237733000				
7	0.508368000	0.886399000	-4.193988000				

8	0.984767000	4.184706000	-6.213201000	17	2.514452000	1.370366000	-10.629861000
6	-0.687080000	1.438263000	-10.434362000	17	4.203605000	-0.420465000	-8.406840000
6	-0.703466000	2.606644000	-11.212366000	17	-3.695220000	2.151065000	-9.755445000
6	-0.873361000	0.193539000	-11.056079000	17	0.184126000	5.391730000	-0.846501000
6	-0.887173000	2.528929000	-12.591397000	6	2.958944000	-1.639344000	-5.711246000
6	-1.080359000	0.121838000	-12.431290000	6	2.771622000	-2.731358000	-6.572485000
6	-1.081443000	1.287688000	-13.201922000	6	4.043168000	-1.639691000	-4.820180000
1	-0.558962000	3.573422000	-10.737680000	6	3.649446000	-3.811863000	-6.533189000
1	-0.876679000	-0.712756000	-10.457281000	6	4.932325000	-2.712697000	-4.800490000
1	-0.883941000	3.436304000	-13.187962000	6	4.733672000	-3.802285000	-5.651498000
1	-1.239034000	-0.843553000	-12.902518000	1	1.927743000	-2.740749000	-7.256635000
1	-1.235050000	1.228746000	-14.275420000	1	4.195873000	-0.792326000	-4.157620000
8	2.235182000	2.963200000	-4.775520000	1	3.489489000	-4.660379000	-7.191822000
8	2.269927000	2.013256000	-5.814654000	1	5.777105000	-2.699841000	-4.118186000
1	1.138546000	4.293161000	-7.167333000	1	5.421699000	-4.642318000	-5.627980000
1	1.980119000	3.871371000	-5.434052000	6	0.311651000	2.187450000	-0.733230000
6	5.479218000	1.278669000	4.308796000	6	-0.784772000	2.411631000	0.113650000
6	5.208786000	0.618209000	2.977262000	6	1.573701000	1.925476000	-0.177367000
6	5.739185000	1.039710000	1.821668000	6	-0.621138000	2.360400000	1.495691000
6	6.642691000	2.244857000	1.709521000	6	1.739622000	1.899690000	1.206332000
6	6.598348000	3.117807000	2.974245000	6	0.640439000	2.110456000	2.042606000
6	6.667557000	2.252226000	4.239844000	1	-1.765372000	2.605068000	-0.312301000
1	5.664222000	0.507800000	5.069256000	1	2.426028000	1.761030000	-0.830976000
1	4.574573000	1.809357000	4.646725000	1	-1.476660000	2.518666000	2.145740000
1	4.561562000	-0.258806000	2.981923000	1	2.722212000	1.716226000	1.632844000
1	5.533847000	0.486461000	0.904715000	1	0.767395000	2.080189000	3.120967000
1	6.364737000	2.839158000	0.827641000	6	-3.242953000	5.839850000	-5.459741000
1	7.674255000	1.907560000	1.520722000	6	-3.193547000	6.780500000	-6.499941000
1	7.418017000	3.845746000	2.958593000	6	-4.217437000	5.970030000	-4.458240000
1	5.663057000	3.695409000	2.982937000	6	-4.098110000	7.840050000	-6.531359000
1	6.693228000	2.880726000	5.137783000	6	-5.134374000	7.017327000	-4.505446000
1	7.603677000	1.677240000	4.229901000	6	-5.073395000	7.956640000	-5.538372000
				1	-2.436616000	6.688591000	-7.273956000
				1	-4.267025000	5.238763000	-3.656417000
				1	-4.044848000	8.571393000	-7.332424000
				1	-5.895171000	7.102210000	-3.735185000
				1	-5.784624000	8.776846000	-5.569067000
				8	0.864779000	4.541497000	-6.771798000
				6	-0.634099000	1.989060000	-10.413438000
				6	-0.807394000	3.194312000	-11.111137000
				6	-0.669713000	0.775993000	-11.118583000
				6	-0.999511000	3.187485000	-12.491270000
				6	-0.883849000	0.770880000	-12.494826000
				6	-1.042929000	1.975709000	-13.184512000
				1	-0.785157000	4.138892000	-10.573485000
				1	-0.549382000	-0.161530000	-10.583352000
				1	-1.120737000	4.126056000	-13.023877000
				1	-0.924901000	-0.173225000	-13.029832000
				1	-1.202302000	1.969918000	-14.258753000
				8	1.801146000	3.440671000	-4.631474000
				8	2.329689000	2.653719000	-5.638710000
				1	0.767346000	4.453736000	-7.734970000
				1	1.784278000	4.819928000	-6.608206000
				6	6.590385000	1.136165000	2.075740000
				6	5.510524000	2.006751000	2.674696000
				6	4.786980000	1.654661000	3.745531000
				6	4.942097000	0.332603000	4.458894000
				6	5.752425000	-0.678158000	3.630987000
				6	6.991283000	-0.012622000	3.015948000
				1	7.467598000	1.752481000	1.835528000
				1	6.244784000	0.731027000	1.110601000
				1	5.342724000	2.978782000	2.210828000
				1	4.055460000	2.353927000	4.150978000

	¹ Int2 _{B1} ⁺¹		
23	0.510403000	2.592514000	-5.599666000
7	-0.703893000	3.390603000	-4.147299000
7	0.668006000	1.044509000	-4.327844000
7	0.834093000	1.158396000	-7.047964000
7	-1.186477000	2.957258000	-6.793783000
6	-1.365094000	4.588084000	-4.371046000
6	-1.104389000	5.471880000	-3.261239000
6	-0.417645000	4.745438000	-2.313604000
6	-0.242778000	3.416713000	-2.845770000
6	0.363167000	1.059635000	-2.967624000
6	0.481775000	-0.286327000	-2.465100000
6	1.015555000	-1.057010000	-3.467773000
6	1.234771000	-0.199991000	-4.605745000
6	1.908121000	0.304648000	-6.893494000
6	2.666852000	0.279115000	-8.119309000
6	1.963201000	1.019137000	-9.043902000
6	-1.424547000	2.491001000	-8.084595000
6	-0.419526000	1.997948000	-8.940723000
6	-2.792787000	2.775191000	-8.437896000
6	-3.316801000	3.554352000	-7.438632000
6	-2.276069000	3.754978000	-6.460446000
6	-2.270366000	4.714706000	-5.428622000
6	0.146696000	2.227514000	-2.210634000
6	2.021996000	-0.483931000	-5.737464000
17	-0.070738000	-0.904334000	-0.965909000
6	0.764648000	1.488348000	-8.393009000
17	1.212496000	-2.756697000	-3.374423000
17	-1.461783000	7.142768000	-3.130418000
17	-4.960705000	4.031354000	-7.347204000

1	3.952523000	-0.079791000	4.700269000
1	5.431841000	0.502468000	5.430714000
1	6.041386000	-1.531902000	4.255202000
1	5.119548000	-1.075518000	2.824665000
1	7.599017000	-0.748525000	2.475917000
1	7.621481000	0.386611000	3.822322000

¹TS3_{B1}⁺¹

23	0.488457000	2.570606000	-5.586595000
7	-0.943262000	2.628770000	-4.089281000
7	1.008784000	0.837979000	-4.756002000
7	1.243976000	1.755052000	-7.334125000
7	-1.117792000	3.006732000	-6.785127000
6	-1.868649000	3.658114000	-4.040492000
6	-1.874089000	4.218585000	-2.711281000
6	-1.043633000	3.440896000	-1.937204000
6	-0.528011000	2.398517000	-2.789459000
6	0.649846000	0.388682000	-3.481565000
6	1.023715000	-0.995035000	-3.371616000
6	1.726822000	-1.330218000	-4.504651000
6	1.815813000	-0.155501000	-5.327815000
6	2.470277000	1.122842000	-7.289570000
6	3.317670000	1.656564000	-8.326511000
6	2.557816000	2.546375000	-9.051104000
6	-1.124427000	3.008594000	-8.177099000
6	0.032923000	3.042941000	-8.981950000
6	-2.481850000	3.120805000	-8.636412000
6	-3.272044000	3.332573000	-7.533117000
6	-2.403547000	3.377938000	-6.387578000
6	-2.718947000	3.906451000	-5.122644000
6	0.133836000	1.208432000	-2.459557000
6	2.687246000	0.051425000	-6.410675000
17	0.575931000	-2.114391000	-2.155416000
6	1.233978000	2.541594000	-8.477713000
17	2.249117000	-2.918624000	-4.876480000
17	-2.652687000	5.645756000	-2.166246000
17	-4.984321000	3.378964000	-7.566112000
17	3.163761000	3.525036000	-10.321060000
17	4.987730000	1.374858000	-8.583767000
17	-3.084909000	2.885494000	-10.222709000
17	-0.647585000	3.772646000	-0.304207000
6	3.832027000	-0.872323000	-6.628918000
6	3.907107000	-1.643282000	-7.799365000
6	4.848545000	-0.975866000	-5.666646000
6	4.976032000	-2.514119000	-7.996240000
6	5.928002000	-1.831065000	-5.878405000
6	5.990426000	-2.605588000	-7.039366000
1	3.117623000	-1.573470000	-8.542460000
1	4.799108000	-0.373718000	-4.763647000
1	5.019559000	-3.119188000	-8.896967000
1	6.718133000	-1.895632000	-5.136197000
1	6.827673000	-3.278847000	-7.198455000
6	0.268824000	0.784380000	-1.041299000
6	-0.867837000	0.515086000	-0.262931000
6	1.544941000	0.647034000	-0.472475000
6	-0.726578000	0.104080000	1.060050000
6	1.682815000	0.258462000	0.858973000
6	0.546699000	-0.019319000	1.623156000
1	-1.857172000	0.607503000	-0.702268000
1	2.426257000	0.863231000	-1.070233000
1	-1.609415000	-0.118276000	1.652242000
1	2.672034000	0.166383000	1.299349000
1	0.654352000	-0.332761000	2.657549000

6	-3.948484000	4.722983000	-4.939313000
6	-4.097768000	5.938846000	-5.624346000
6	-4.967205000	4.286881000	-4.078106000
6	-5.243135000	6.710845000	-5.441315000
6	-6.120837000	5.050166000	-3.915462000
6	-6.258453000	6.265430000	-4.591441000
1	-3.311246000	6.281789000	-6.291198000
1	-4.861332000	3.341439000	-3.553571000
1	-5.345750000	7.656428000	-5.965442000
1	-6.911514000	4.698524000	-3.259340000
1	-7.155269000	6.863040000	-4.456925000
8	0.541149000	5.315551000	-6.583771000
6	-0.049329000	3.616577000	-10.350037000
6	-0.391212000	4.969248000	-10.506981000
6	0.203295000	2.829387000	-11.483980000
6	-0.469062000	5.526685000	-11.781970000
6	0.102195000	3.385604000	-12.756519000
6	-0.229575000	4.735123000	-12.907602000
1	-0.570022000	5.580284000	-9.626561000
1	0.456292000	1.779408000	-11.366820000
1	-0.720062000	6.577035000	-11.897116000
1	0.283393000	2.767507000	-13.630847000
1	-0.301144000	5.168099000	-13.901103000
8	1.373652000	3.586852000	-4.401827000
8	2.150081000	3.275630000	-5.511627000
1	1.506168000	5.427834000	-6.593459000
1	0.238994000	5.922057000	-5.888229000
6	4.289541000	-0.504396000	4.729266000
6	4.650259000	-0.877277000	3.310605000
6	5.353990000	-0.083130000	2.493459000
6	5.841461000	1.292249000	2.883059000
6	5.154354000	1.807339000	4.158644000
6	5.091456000	0.708953000	5.228913000
1	4.456744000	-1.366613000	5.389048000
1	3.209197000	-0.295267000	4.792160000
1	4.330313000	-1.858115000	2.959292000
1	5.615159000	-0.438545000	1.496485000
1	5.678957000	1.994989000	2.053656000
1	6.932822000	1.261306000	3.029206000
1	5.681279000	2.689642000	4.540698000
1	4.132603000	2.130947000	3.913737000
1	4.652241000	1.096440000	6.155788000
1	6.113261000	0.388251000	5.473863000

¹Int3_{B1}⁺¹

23	0.361102000	3.632673000	-5.709079000
7	-0.884644000	4.211712000	-4.265464000
7	1.228281000	2.453725000	-4.263461000
7	1.131789000	2.335052000	-7.008121000
7	-1.310434000	3.585532000	-6.911361000
6	-1.896349000	5.136225000	-4.536497000
6	-1.839181000	6.176273000	-3.543949000
6	-0.896794000	5.809132000	-2.610134000
6	-0.364862000	4.532696000	-3.007993000
6	0.981806000	2.518229000	-2.899906000
6	1.506364000	1.328410000	-2.277143000
6	2.169578000	0.618638000	-3.246117000
6	2.073176000	1.371498000	-4.472425000
6	2.417625000	1.824266000	-6.827583000
6	3.141937000	1.969189000	-8.061096000
6	2.261451000	2.439820000	-9.008987000
6	-1.400824000	2.999611000	-8.164547000
6	-0.283090000	2.720553000	-8.969847000

6	-2.792708000	2.853606000	-8.508295000
6	-3.523961000	3.464805000	-7.519972000
6	-2.588244000	4.004797000	-6.566119000
6	-2.846228000	4.931662000	-5.542705000
6	0.405494000	3.631854000	-2.265693000
6	2.808947000	1.178370000	-5.650762000
17	1.247725000	0.768626000	-0.678752000
6	0.975176000	2.571150000	-8.378730000
17	2.837168000	-0.941095000	-3.013056000
17	-2.664980000	7.676149000	-3.541509000
17	-5.233584000	3.424140000	-7.414836000
17	2.705102000	2.892010000	-10.600156000
17	4.816132000	1.741944000	-8.335278000
17	-3.472728000	1.959201000	-9.801737000
17	-0.401638000	6.796463000	-1.301767000
6	4.005977000	0.296135000	-5.648661000
6	4.017462000	-0.879716000	-6.414175000
6	5.128292000	0.636456000	-4.877427000
6	5.132393000	-1.715098000	-6.394070000
6	6.247478000	-0.193674000	-4.877172000
6	6.249397000	-1.372270000	-5.627960000
1	3.146353000	-1.149074000	-7.005301000
1	5.126576000	1.566077000	-4.317393000
1	5.130301000	-2.631784000	-6.976430000
1	7.119118000	0.078299000	-4.288873000
1	7.120201000	-2.021442000	-5.618095000
6	0.593682000	3.832327000	-0.803878000
6	-0.509004000	3.789753000	0.063675000
6	1.877909000	4.055191000	-0.283181000
6	-0.327532000	3.955078000	1.434624000
6	2.050336000	4.241152000	1.087397000
6	0.951717000	4.184458000	1.948293000
1	-1.502774000	3.606163000	-0.335509000
1	2.732614000	4.116267000	-0.950819000
1	-1.183003000	3.905995000	2.101795000
1	3.044344000	4.426880000	1.483678000
1	1.091212000	4.319633000	3.016911000
6	-4.123936000	5.692517000	-5.531005000
6	-4.438054000	6.561265000	-6.587760000
6	-5.026263000	5.545493000	-4.465973000
6	-5.631720000	7.279360000	-6.572351000
6	-6.228684000	6.248702000	-4.465346000
6	-6.530958000	7.120240000	-5.514926000
1	-3.738871000	6.685075000	-7.410119000
1	-4.792417000	4.865890000	-3.651186000
1	-5.861814000	7.960126000	-7.386545000
1	-6.928807000	6.118530000	-3.645472000
1	-7.465330000	7.673816000	-5.508791000
8	4.530440000	3.843783000	-5.432297000
6	-0.450820000	2.564063000	-10.438970000
6	-0.919653000	3.639083000	-11.210020000
6	-0.152738000	1.343384000	-11.064388000
6	-1.074240000	3.497765000	-12.587581000
6	-0.329390000	1.199663000	-12.438399000
6	-0.784740000	2.277380000	-13.202738000
1	-1.145184000	4.587832000	-10.731021000
1	0.198344000	0.504539000	-10.469920000
1	-1.423812000	4.338166000	-13.179873000
1	-0.110371000	0.247985000	-12.913411000
1	-0.914451000	2.165693000	-14.275238000
8	1.704023000	4.802147000	-5.489772000
8	0.775617000	5.207180000	-6.456597000
1	5.332033000	4.051443000	-5.936564000

1	4.053397000	4.685763000	-5.370567000
6	4.289193000	7.255077000	-3.302732000
6	4.158406000	6.792614000	-1.871002000
6	5.154272000	6.213060000	-1.189537000
6	6.512402000	5.920501000	-1.780244000
6	6.511998000	6.038349000	-3.313003000
6	5.756141000	7.297012000	-3.763794000
1	3.828774000	8.246295000	-3.414382000
1	3.700179000	6.589838000	-3.958373000
1	3.201932000	6.968393000	-1.379558000
1	5.002222000	5.945035000	-0.143974000
1	6.841853000	4.917150000	-1.476754000
1	7.251478000	6.613293000	-1.348150000
1	7.542147000	6.052316000	-3.689120000
1	6.023152000	5.153030000	-3.742878000
1	5.808415000	7.414608000	-4.853850000
1	6.240961000	8.182729000	-3.331947000

¹TS4_{B1}⁺¹

23	1.290761000	3.441706000	-4.754954000
7	-0.294811000	3.931308000	-3.628113000
7	1.188738000	1.636860000	-3.689199000
7	2.101015000	2.286124000	-6.179379000
7	0.081609000	4.160022000	-6.351086000
6	-0.923557000	5.163213000	-3.829901000
6	-1.011861000	5.833491000	-2.559002000
6	-0.594655000	4.949114000	-1.590425000
6	-0.233188000	3.721813000	-2.254396000
6	0.483101000	1.414210000	-2.522370000
6	0.529680000	-0.000059000	-2.221407000
6	1.388723000	-0.577613000	-3.119899000
6	1.875713000	0.475484000	-3.984154000
6	3.136579000	1.423291000	-5.833775000
6	4.231136000	1.638837000	-6.747085000
6	3.790398000	2.506739000	-7.719878000
6	0.230628000	3.841361000	-7.688289000
6	1.450653000	3.418540000	-8.248881000
6	-1.005036000	4.127132000	-8.376085000
6	-1.845625000	4.722594000	-7.469833000
6	-1.134201000	4.804537000	-6.217508000
6	-1.513847000	5.501381000	-5.054270000
6	-0.021770000	2.446984000	-1.712302000
6	2.969425000	0.422864000	-4.867436000
17	-0.408286000	-0.867944000	-1.078442000
6	2.420680000	2.836552000	-7.423399000
17	1.670630000	-2.263947000	-3.247669000
17	-1.431078000	7.471177000	-2.260286000
17	-3.490007000	5.110940000	-7.781632000
17	4.779819000	3.145598000	-8.968629000
17	5.836265000	1.051011000	-6.631783000
17	-1.460947000	3.671282000	-9.968575000
17	-0.441441000	5.336739000	0.071269000
6	3.934969000	-0.707614000	-4.783807000
6	4.060577000	-1.617646000	-5.844270000
6	4.725077000	-0.872149000	-3.636129000
6	4.956979000	-2.680127000	-5.753517000
6	5.634829000	-1.924972000	-3.557046000
6	5.748588000	-2.833044000	-4.612298000
1	3.442802000	-1.500856000	-6.730425000
1	4.636264000	-0.165733000	-2.815385000
1	5.038772000	-3.387950000	-6.573149000
1	6.251915000	-2.038497000	-2.670589000
1	6.451736000	-3.658156000	-4.545599000

6	-0.343525000	2.178687000	-0.283362000	6	-0.491291000	4.045561000	-0.677639000
6	-1.666824000	2.263434000	0.175262000	6	-0.379035000	2.946320000	-1.609450000
6	0.677269000	1.833151000	0.615089000	6	0.327562000	0.712287000	-2.261015000
6	-1.964450000	1.996553000	1.509826000	6	0.400781000	-0.727353000	-2.220559000
6	0.378397000	1.586395000	1.953829000	6	1.485734000	-1.104019000	-2.977760000
6	-0.942441000	1.662115000	2.401993000	6	2.035994000	0.095790000	-3.562286000
1	-2.462337000	2.520161000	-0.518846000	6	3.167827000	1.258166000	-5.396223000
1	1.704415000	1.773336000	0.265931000	6	4.215093000	1.572612000	-6.338005000
1	-2.993100000	2.050570000	1.854008000	6	3.651299000	2.338620000	-7.332353000
1	1.175666000	1.331196000	2.645722000	6	0.233794000	3.902835000	-6.904122000
1	-1.175090000	1.460512000	3.443584000	6	1.299248000	3.326483000	-7.636131000
6	-2.560116000	6.555748000	-5.119459000	6	-0.916162000	4.598670000	-7.424108000
6	-2.399335000	7.668104000	-5.962681000	6	-1.422109000	5.368764000	-6.404945000
6	-3.726711000	6.442750000	-4.345501000	6	-0.637220000	5.087237000	-5.228275000
6	-3.380936000	8.656393000	-6.010147000	6	-0.792185000	5.615857000	-3.935135000
6	-4.714378000	7.422136000	-4.413789000	6	-0.335688000	1.571466000	-1.351240000
6	-4.540183000	8.535189000	-5.240118000	6	3.126799000	0.210186000	-4.441860000
1	-1.509958000	7.754175000	-6.581921000	17	-0.705641000	-1.817703000	-1.494181000
1	-3.864756000	5.576269000	-3.704941000	6	2.275943000	2.583335000	-6.962760000
1	-3.244488000	9.521104000	-6.653475000	17	1.930326000	-2.733477000	-3.271470000
1	-5.618694000	7.318184000	-3.821528000	17	-0.345775000	6.780601000	-0.729830000
1	-5.306967000	9.303085000	-5.286108000	17	-2.836526000	6.328826000	-6.536372000
8	0.081433000	7.435812000	-8.499352000	17	4.523375000	2.973189000	-8.663693000
6	1.693362000	3.554785000	-9.709793000	17	5.886440000	1.199234000	-6.229520000
6	1.642339000	4.815678000	-10.327597000	17	-1.631552000	4.436196000	-8.973755000
6	1.967921000	2.418177000	-10.487604000	17	-0.507180000	3.986929000	1.034241000
6	1.884323000	4.933212000	-11.695195000	6	4.172817000	-0.838194000	-4.419425000
6	2.186636000	2.538930000	-11.857699000	6	4.460383000	-1.605395000	-5.561838000
6	2.153705000	3.797680000	-12.463048000	6	4.869355000	-1.093535000	-3.225262000
1	1.410589000	5.698975000	-9.737621000	6	5.418287000	-2.612977000	-5.505470000
1	1.991036000	1.438588000	-10.018516000	6	5.847847000	-2.083760000	-3.181611000
1	1.858083000	5.912422000	-12.165000000	6	6.118558000	-2.849421000	-4.318366000
1	2.384667000	1.652177000	-12.452508000	1	3.912860000	-1.427237000	-6.482851000
1	2.333485000	3.892462000	-13.530028000	1	4.655157000	-0.498758000	-2.341850000
8	2.580584000	3.749038000	-3.737862000	1	5.620922000	-3.214001000	-6.386854000
8	2.257965000	5.036188000	-4.873468000	1	6.394351000	-2.261948000	-2.260359000
1	-0.684591000	7.122114000	-9.005712000	1	6.872710000	-3.630042000	-4.280149000
1	0.284649000	8.304808000	-8.880404000	6	-0.900507000	1.047001000	-0.083691000
6	4.166578000	6.623019000	-6.426449000	6	-2.261789000	1.244084000	0.201944000
6	2.675512000	6.487865000	-6.512869000	6	-0.091545000	0.374868000	0.847805000
6	1.823329000	7.043610000	-5.592754000	6	-2.806608000	0.762158000	1.390017000
6	2.299027000	7.854377000	-4.424461000	6	-0.634664000	-0.083216000	2.044944000
6	3.805574000	7.701572000	-4.157275000	6	-1.993414000	0.103679000	2.315547000
6	4.605847000	7.743217000	-5.466508000	1	-2.892750000	1.756924000	-0.518576000
1	4.568952000	6.787125000	-7.434856000	1	0.965296000	0.232421000	0.640536000
1	4.577957000	5.655750000	-6.099942000	1	-3.863514000	0.903819000	1.595261000
1	2.250940000	5.977730000	-7.370606000	1	0.000505000	-0.587873000	2.766841000
1	0.755816000	6.990250000	-5.776286000	1	-2.416646000	-0.262819000	3.246218000
1	1.709724000	7.594242000	-3.536262000	6	-1.418553000	6.946121000	-3.780490000
1	2.052717000	8.907740000	-4.638560000	6	-0.864408000	8.045862000	-4.462140000
1	4.140537000	8.493873000	-3.479119000	6	-2.570388000	7.124986000	-2.993420000
1	3.983979000	6.746924000	-3.648675000	6	-1.443805000	9.306032000	-4.329855000
1	5.678691000	7.655890000	-5.264535000	6	-3.160645000	8.380324000	-2.893349000
1	4.456720000	8.715816000	-5.955382000	6	-2.592760000	9.475165000	-3.553212000
¹P_{B1} +1				1	0.018354000	7.901460000	-5.080406000
23	1.233278000	2.961383000	-4.156230000	1	-3.015074000	6.274270000	-2.485041000
7	-0.266128000	3.466021000	-2.890336000	1	-1.003314000	10.157571000	-4.840456000
7	1.260552000	1.173253000	-3.170351000	1	-4.061213000	8.507834000	-2.300178000
7	2.036154000	1.978266000	-5.737991000	1	-3.048770000	10.456998000	-3.464022000
7	0.304741000	4.125578000	-5.543366000	8	1.456585000	7.162825000	-6.864434000
6	-0.433752000	4.836740000	-2.804484000	6	1.446107000	3.595274000	-9.086529000
6	-0.459163000	5.210124000	-1.409341000	6	1.563846000	4.915088000	-9.556152000
				6	1.489402000	2.525109000	-9.995536000

6	1.731328000	5.151374000	-10.918414000
6	1.629488000	2.772047000	-11.359012000
6	1.757016000	4.084564000	-11.821493000
1	1.549488000	5.736584000	-8.843997000
1	1.390779000	1.505545000	-9.633050000
1	1.840238000	6.170330000	-11.278573000
1	1.643181000	1.942353000	-12.059577000
1	1.876876000	4.275446000	-12.884090000
8	2.453653000	3.781990000	-3.604303000
8	4.215286000	7.628356000	-7.057471000
1	1.143106000	7.886809000	-7.428704000
1	2.430740000	7.292851000	-6.838569000
6	5.037566000	6.010101000	-5.300408000
6	5.348822000	6.958308000	-6.447294000
6	5.169407000	8.417527000	-6.311366000
6	4.683823000	9.023094000	-5.013139000
6	3.963970000	8.001700000	-4.117150000
6	4.802934000	6.726396000	-3.956804000
1	5.862496000	5.294064000	-5.203153000
1	4.150691000	5.423316000	-5.575794000
1	6.057303000	6.598059000	-7.193365000
1	5.764720000	9.071926000	-6.949758000
1	4.034057000	9.880681000	-5.232604000
1	5.562199000	9.425850000	-4.489080000
1	3.770437000	8.453531000	-3.137556000
1	2.986878000	7.753989000	-4.550499000
1	4.320842000	6.033496000	-3.258274000
1	5.773351000	6.995748000	-3.516865000

¹TS5_{B1}⁺¹

23	1.010843000	3.276939000	-5.074011000
7	-0.264666000	3.980397000	-3.693304000
7	1.336597000	1.711380000	-3.831120000
7	1.607472000	2.046395000	-6.568528000
7	-0.455412000	3.853262000	-6.441870000
6	-0.898874000	5.209090000	-3.873190000
6	-0.819269000	5.940486000	-2.633609000
6	-0.285183000	5.093890000	-1.688158000
6	-0.005000000	3.837413000	-2.337288000
6	0.819133000	1.548749000	-2.549381000
6	1.007931000	0.173864000	-2.153023000
6	1.759162000	-0.436025000	-3.127336000
6	2.024042000	0.547895000	-4.147329000
6	2.748169000	1.282860000	-6.354686000
6	3.606037000	1.412552000	-7.509457000
6	2.908441000	2.118361000	-8.460795000
6	-0.589818000	3.444610000	-7.759034000
6	0.481506000	2.957739000	-8.531026000
6	-1.908183000	3.799777000	-8.226276000
6	-2.488906000	4.566251000	-7.249659000
6	-1.544677000	4.656372000	-6.159232000
6	-1.635159000	5.496735000	-5.031216000
6	0.349411000	2.608219000	-1.756379000
6	2.885544000	0.426129000	-5.252698000
17	0.323248000	-0.650941000	-0.814020000
6	1.621882000	2.445509000	-7.898003000
17	2.132208000	-2.110248000	-3.143659000
17	-1.175315000	7.598481000	-2.344269000
17	-4.107078000	5.133476000	-7.305084000
17	3.563497000	2.614851000	-9.969497000
17	5.244419000	0.930837000	-7.675405000
17	-2.709764000	3.261505000	-9.644837000
17	0.100243000	5.572989000	-0.082764000

6	3.918156000	-0.646494000	-5.261287000
6	3.877140000	-1.670712000	-6.219885000
6	4.938191000	-0.647113000	-4.297639000
6	4.835522000	-2.681366000	-6.208678000
6	5.906755000	-1.649208000	-4.300626000
6	5.854423000	-2.670201000	-5.252437000
1	3.082399000	-1.682434000	-6.960603000
1	4.976747000	0.146135000	-3.556019000
1	4.788150000	-3.477567000	-6.945810000
1	6.699238000	-1.635813000	-3.558032000
1	6.604400000	-3.455865000	-5.248464000
6	0.217002000	2.431253000	-0.282546000
6	-1.045806000	2.484185000	0.326652000
6	1.354259000	2.212600000	0.509556000
6	-1.168658000	2.310198000	1.703729000
6	1.230327000	2.057619000	1.888745000
6	-0.031205000	2.101211000	2.487541000
1	-1.930874000	2.643669000	-0.283078000
1	2.335057000	2.174511000	0.043215000
1	-2.151399000	2.338702000	2.165216000
1	2.116837000	1.898063000	2.495666000
1	-0.127742000	1.971642000	3.561625000
6	-2.525665000	6.687619000	-5.099312000
6	-2.250099000	7.691073000	-6.042616000
6	-3.641292000	6.816375000	-4.258549000
6	-3.072847000	8.813469000	-6.129315000
6	-4.471300000	7.929771000	-4.362845000
6	-4.185824000	8.932393000	-5.294097000
1	-1.389371000	7.586060000	-6.698638000
1	-3.867620000	6.034213000	-3.539325000
1	-2.849974000	9.590938000	-6.854425000
1	-5.341761000	8.015764000	-3.719062000
1	-4.832289000	9.801940000	-5.370543000
8	1.087961000	6.551110000	-7.962694000
6	0.408231000	3.015320000	-10.016542000
6	0.288656000	4.255026000	-10.664357000
6	0.453215000	1.839539000	-10.780378000
6	0.225827000	4.315697000	-12.054861000
6	0.370891000	1.903076000	-12.169794000
6	0.262447000	3.140463000	-12.809514000
1	0.250730000	5.163124000	-10.068455000
1	0.534230000	0.877225000	-10.282712000
1	0.140854000	5.278509000	-12.550631000
1	0.392080000	0.987520000	-12.753582000
1	0.204026000	3.188323000	-13.893049000
8	2.615335000	3.987304000	-4.616660000
8	2.023448000	4.908229000	-5.547555000
1	1.488687000	6.972283000	-8.739484000
1	1.578849000	5.721003000	-7.855790000
6	2.144100000	7.280302000	-4.411543000
6	2.701032000	6.927625000	-3.149251000
6	4.053257000	6.997630000	-2.917939000
6	5.032340000	7.443101000	-3.954242000
6	4.469392000	7.362770000	-5.382625000
6	3.033421000	7.904345000	-5.459887000
1	1.083884000	7.536051000	-4.440873000
1	1.953067000	5.898890000	-4.989901000
1	2.037940000	6.620187000	-2.346182000
1	4.429495000	6.777241000	-1.921079000
1	5.960903000	6.864502000	-3.862615000
1	5.322320000	8.480927000	-3.709058000
1	5.118845000	7.910740000	-6.072666000
1	4.473432000	6.314523000	-5.706433000

1	2.598506000	7.749373000	-6.453054000
1	3.026021000	8.995514000	-5.290331000

¹Int5_{B1}⁺¹

23	1.050079000	3.292447000	-4.991458000
7	-0.258053000	4.000364000	-3.615551000
7	1.386665000	1.736735000	-3.757636000
7	1.679282000	2.100285000	-6.510152000
7	-0.398836000	3.896250000	-6.382571000
6	-0.889435000	5.226106000	-3.797322000
6	-0.814541000	5.956347000	-2.554636000
6	-0.266506000	5.115171000	-1.613156000
6	0.016043000	3.859487000	-2.266232000
6	0.869856000	1.574334000	-2.475188000
6	1.052454000	0.196888000	-2.083677000
6	1.787619000	-0.418250000	-3.067951000
6	2.057625000	0.567270000	-4.086080000
6	2.803219000	1.321684000	-6.287239000
6	3.686552000	1.461159000	-7.425310000
6	3.019241000	2.197807000	-8.373381000
6	-0.498296000	3.522226000	-7.710298000
6	0.598388000	3.064230000	-8.470101000
6	-1.806109000	3.887295000	-8.203219000
6	-2.415233000	4.623539000	-7.220630000
6	-1.497598000	4.689275000	-6.104719000
6	-1.609552000	5.517235000	-4.968016000
6	0.389873000	2.632232000	-1.685523000
6	2.916369000	0.446059000	-5.194324000
17	0.375803000	-0.627812000	-0.739327000
6	1.722980000	2.528048000	-7.828247000
17	2.140675000	-2.097355000	-3.091518000
17	-1.201233000	7.610448000	-2.250895000
17	-4.035598000	5.184979000	-7.300301000
17	3.714075000	2.720211000	-9.856484000
17	5.322331000	0.960141000	-7.569262000
17	-2.568202000	3.386955000	-9.658160000
17	0.133522000	5.601735000	-0.010536000
6	3.928082000	-0.646929000	-5.220402000
6	3.864195000	-1.653823000	-6.195895000
6	4.951299000	-0.684830000	-4.260984000
6	4.802123000	-2.683683000	-6.205577000
6	5.899157000	-1.706276000	-4.283834000
6	5.823653000	-2.709737000	-5.252651000
1	3.067626000	-1.636338000	-6.934568000
1	5.008218000	0.094886000	-3.506265000
1	4.736687000	-3.465744000	-6.956412000
1	6.693814000	-1.721629000	-3.543506000
1	6.557692000	-3.510297000	-5.264415000
6	0.257344000	2.456208000	-0.211505000
6	-1.005388000	2.508732000	0.398292000
6	1.393975000	2.238341000	0.581896000
6	-1.128814000	2.335392000	1.775429000
6	1.269873000	2.083064000	1.961057000
6	0.008272000	2.126539000	2.559754000
1	-1.890347000	2.666879000	-0.211943000
1	2.374719000	2.199836000	0.115430000
1	-2.111837000	2.363403000	2.236478000
1	2.156224000	1.922837000	2.568159000
1	-0.088624000	1.996513000	3.633800000
6	-2.497797000	6.710662000	-5.041238000
6	-2.204747000	7.724851000	-5.968135000
6	-3.628230000	6.832478000	-4.219604000

6	-3.025118000	8.849129000	-6.057441000
6	-4.455018000	7.948409000	-4.325794000
6	-4.152413000	8.960929000	-5.240580000
1	-1.335054000	7.625107000	-6.613698000
1	-3.868330000	6.042338000	-3.513713000
1	-2.790226000	9.632869000	-6.772139000
1	-5.336912000	8.027980000	-3.696834000
1	-4.797087000	9.831631000	-5.319615000
8	1.170721000	6.799669000	-7.678870000
6	0.562971000	3.191824000	-9.953078000
6	0.458027000	4.462211000	-10.541130000
6	0.624395000	2.056973000	-10.774985000
6	0.426976000	4.594785000	-11.927715000
6	0.575448000	2.191195000	-12.160944000
6	0.481756000	3.459350000	-12.739855000
1	0.400984000	5.339430000	-9.901382000
1	0.693214000	1.070661000	-10.324867000
1	0.352074000	5.581665000	-12.375512000
1	0.610299000	1.306375000	-12.789797000
1	0.448421000	3.562054000	-13.820650000
8	2.595665000	4.129308000	-4.506626000
8	2.003584000	5.159500000	-5.360799000
1	1.622709000	6.986255000	-8.516667000
1	1.491428000	5.921568000	-7.416322000
6	2.035571000	8.015187000	-4.108589000
6	2.569537000	7.585907000	-2.892776000
6	3.942655000	7.585329000	-2.694365000
6	4.905892000	7.977471000	-3.758543000
6	4.313586000	7.843465000	-5.170495000
6	2.890742000	8.419552000	-5.258139000
1	0.958902000	8.157942000	-4.189338000
1	1.726758000	5.866910000	-4.723038000
1	1.905304000	7.326104000	-2.073847000
1	4.331312000	7.346029000	-1.706677000
1	5.832716000	7.398977000	-3.656413000
1	5.204222000	9.023279000	-3.553087000
1	4.965739000	8.331951000	-5.900246000
1	4.275513000	6.780106000	-5.434899000
1	2.397055000	8.130787000	-6.196113000
1	2.908178000	9.526324000	-5.267445000

¹TS6_{B1}⁺¹

23	0.905132000	3.097471000	-4.996263000
7	-0.331927000	3.829781000	-3.598816000
7	1.233737000	1.530783000	-3.728896000
7	1.617484000	1.889919000	-6.461422000
7	-0.377315000	3.815045000	-6.357963000
6	-0.977898000	5.048295000	-3.778838000
6	-0.870879000	5.799963000	-2.552818000
6	-0.290890000	4.982016000	-1.612930000
6	-0.033574000	3.710779000	-2.242941000
6	0.709950000	1.397028000	-2.449169000
6	0.796244000	0.015932000	-2.059323000
6	1.478306000	-0.651457000	-3.053247000
6	1.819563000	0.312491000	-4.063662000
6	2.700162000	1.059253000	-6.208249000
6	3.662348000	1.227732000	-7.266663000
6	3.101875000	2.068833000	-8.202937000
6	-0.393457000	3.499048000	-7.718219000
6	0.734606000	3.045798000	-8.422574000
6	-1.670299000	3.871606000	-8.256629000
6	-2.360664000	4.533838000	-7.265433000
6	-1.516483000	4.572533000	-6.103402000

6	-1.691677000	5.351591000	-4.944089000
6	0.303637000	2.488069000	-1.651819000
6	2.707863000	0.145127000	-5.142239000
17	0.084037000	-0.756007000	-0.704094000
6	1.785974000	2.417055000	-7.735702000
17	1.710584000	-2.349621000	-3.082023000
17	-1.244029000	7.455429000	-2.284629000
17	-3.983829000	5.060983000	-7.412787000
17	3.934436000	2.667864000	-9.579866000
17	5.274337000	0.645031000	-7.336914000
17	-2.332466000	3.467849000	-9.784771000
17	0.159301000	5.493612000	-0.036720000
6	3.651901000	-1.003581000	-5.157398000
6	3.585424000	-1.961888000	-6.181163000
6	4.619474000	-1.140080000	-4.149582000
6	4.464165000	-3.042580000	-6.189200000
6	5.510949000	-2.210443000	-4.172386000
6	5.431549000	-3.166087000	-5.188558000
1	2.832134000	-1.867194000	-6.958308000
1	4.679779000	-0.397620000	-3.358547000
1	4.396012000	-3.787296000	-6.976750000
1	6.264812000	-2.301277000	-3.395844000
1	6.121278000	-4.005044000	-5.200299000
6	0.223358000	2.329233000	-0.173529000
6	-1.008028000	2.451650000	0.488573000
6	1.379291000	2.048735000	0.571250000
6	-1.082003000	2.286222000	1.869903000
6	1.305334000	1.902615000	1.954985000
6	0.074383000	2.015839000	2.605959000
1	-1.908219000	2.657621000	-0.083851000
1	2.336405000	1.957770000	0.064773000
1	-2.041377000	2.368910000	2.372203000
1	2.206730000	1.696445000	2.524746000
1	0.016180000	1.892834000	3.683562000
6	-2.617921000	6.515754000	-4.991938000
6	-2.342423000	7.575789000	-5.871305000
6	-3.763666000	6.564183000	-4.184201000
6	-3.201051000	8.672579000	-5.929983000
6	-4.627532000	7.654402000	-4.260619000
6	-4.345739000	8.711605000	-5.130176000
1	-1.451908000	7.538667000	-6.494389000
1	-3.985523000	5.739177000	-3.512804000
1	-2.980018000	9.494080000	-6.605433000
1	-5.520710000	7.679477000	-3.643167000
1	-5.018727000	9.562489000	-5.185476000
8	1.055187000	6.700106000	-7.383924000
6	0.808588000	3.263015000	-9.890810000
6	0.752174000	4.572345000	-10.395870000
6	0.925861000	2.183448000	-10.779581000
6	0.824886000	4.795993000	-11.769252000
6	0.978441000	2.410870000	-12.152729000
6	0.933631000	3.716527000	-12.649539000
1	0.656182000	5.402734000	-9.701530000
1	0.956344000	1.168266000	-10.393749000
1	0.789468000	5.811283000	-12.153725000
1	1.054240000	1.570164000	-12.836102000
1	0.980345000	3.891167000	-13.720590000
8	2.204572000	4.256521000	-4.865555000
8	1.975803000	5.738626000	-4.722965000
1	1.835045000	6.777595000	-7.954564000
1	1.398372000	6.334319000	-6.548293000
6	2.268678000	8.373414000	-4.123901000
6	3.209765000	8.090326000	-3.126373000

6	4.558103000	8.366349000	-3.300219000
6	5.085333000	8.952457000	-4.575390000
6	4.147910000	8.683267000	-5.765297000
6	2.681326000	8.996547000	-5.422347000
1	1.210348000	8.254475000	-3.910597000
1	2.821638000	5.994735000	-4.303041000
1	2.865451000	7.689103000	-2.175197000
1	5.250073000	8.198297000	-2.478647000
1	6.093796000	8.571652000	-4.780032000
1	5.209614000	10.039928000	-4.432146000
1	4.467658000	9.261672000	-6.638038000
1	4.224818000	7.622082000	-6.042319000
1	2.010471000	8.668932000	-6.224705000
1	2.540193000	10.088536000	-5.336737000

$1p2_{B1}^{+1}$

23	1.016212000	3.289589000	-4.824926000
7	-0.406563000	3.921136000	-3.447345000
7	1.363377000	1.696126000	-3.536332000
7	1.777428000	2.073428000	-6.330829000
7	-0.221506000	4.087061000	-6.272507000
6	-1.004213000	5.144107000	-3.650719000
6	-0.889891000	5.930788000	-2.451453000
6	-0.304479000	5.124870000	-1.494525000
6	-0.065172000	3.844855000	-2.108992000
6	0.786098000	1.539566000	-2.297463000
6	0.835603000	0.147627000	-1.930740000
6	1.536416000	-0.506868000	-2.920438000
6	1.925733000	0.485345000	-3.890184000
6	2.859376000	1.274321000	-6.031515000
6	3.892122000	1.496339000	-7.008535000
6	3.381015000	2.372278000	-7.946316000
6	-0.164134000	3.792489000	-7.613631000
6	1.021190000	3.358239000	-8.266787000
6	-1.435846000	4.095146000	-8.216400000
6	-2.216793000	4.672455000	-7.241032000
6	-1.417318000	4.738300000	-6.044579000
6	-1.690268000	5.453739000	-4.855594000
6	0.325894000	2.628933000	-1.507352000
6	2.834217000	0.338704000	-4.966258000
17	0.043781000	-0.640712000	-0.627888000
6	2.030073000	2.673202000	-7.549454000
17	1.716835000	-2.211404000	-3.005858000
17	-1.239305000	7.593337000	-2.222533000
17	-3.877688000	5.055461000	-7.435139000
17	4.302063000	3.047458000	-9.226087000
17	5.517943000	0.948543000	-6.992540000
17	-1.994489000	3.680554000	-9.784664000
17	0.164315000	5.669781000	0.062974000
6	3.768521000	-0.804539000	-4.980091000
6	3.810232000	-1.676215000	-6.084065000
6	4.629729000	-1.031917000	-3.890542000
6	4.680984000	-2.761066000	-6.087594000
6	5.524014000	-2.097462000	-3.914880000
6	5.545070000	-2.968885000	-5.007995000
1	3.139172000	-1.513794000	-6.922480000
1	4.611243000	-0.354743000	-3.041665000
1	4.690628000	-3.442724000	-6.932723000
1	6.201197000	-2.252836000	-3.080442000
1	6.233882000	-3.808514000	-5.018791000
6	0.244857000	2.466702000	-0.041977000

6	-0.572015000	2.737920000	-12.329749000	17	-0.148777000	5.558487000	-0.502359000
6	-0.732344000	0.333944000	-12.128850000	6	3.183386000	-1.523443000	-4.940396000
6	-0.710025000	1.481788000	-12.924670000	6	2.997778000	-2.729940000	-5.628842000
1	-0.357652000	3.823470000	-10.480615000	6	4.332311000	-1.350214000	-4.156810000
1	-0.627910000	-0.451527000	-10.125372000	6	3.939538000	-3.752012000	-5.523658000
1	-0.549546000	3.633472000	-12.944581000	6	5.280852000	-2.368233000	-4.064423000
1	-0.843178000	-0.645209000	-12.586611000	6	5.083932000	-3.573048000	-4.742851000
1	-0.799528000	1.397522000	-14.004330000	1	2.107711000	-2.868910000	-6.236341000
8	3.350831000	2.996691000	-2.465578000	1	4.483858000	-0.404766000	-3.645656000
8	3.771498000	2.615316000	-3.803333000	1	3.781795000	-4.687235000	-6.053903000
1	3.012546000	2.950557000	-4.331606000	1	6.174345000	-2.219547000	-3.464080000
1	3.927502000	3.765337000	-2.308046000	1	5.820558000	-4.368269000	-4.666339000
6	5.883872000	1.614811000	-0.067357000	6	0.042430000	2.425591000	-0.256287000
6	5.565784000	2.079858000	1.334148000	6	-1.158648000	2.519532000	0.461382000
6	5.112564000	1.269509000	2.298829000	6	1.256171000	2.400594000	0.443599000
6	4.827808000	-0.198911000	2.088366000	6	-1.145882000	2.575266000	1.853856000
6	4.790014000	-0.570568000	0.597126000	6	1.268607000	2.473989000	1.835647000
6	5.954828000	0.081350000	-0.160596000	6	0.068266000	2.555757000	2.544407000
1	6.836573000	2.056703000	-0.392605000	1	-2.102959000	2.536152000	-0.075865000
1	5.125899000	1.996715000	-0.768893000	1	2.194323000	2.341349000	-0.099587000
1	5.733354000	3.133728000	1.556573000	1	-2.083455000	2.637819000	2.399540000
1	4.939189000	1.669784000	3.297938000	1	2.219810000	2.467544000	2.360278000
1	3.875118000	-0.464284000	2.567367000	1	0.077980000	2.606383000	3.629920000
1	5.594066000	-0.796808000	2.607915000	6	-3.249364000	5.821893000	-5.317600000
1	4.812881000	-1.660656000	0.478969000	6	-3.096259000	6.809689000	-6.300838000
1	3.841126000	-0.226893000	0.163061000	6	-4.334731000	5.899648000	-4.433050000
1	5.952681000	-0.231677000	-1.211993000	6	-4.008934000	7.859650000	-6.392953000
1	6.903982000	-0.264512000	0.272873000	6	-5.254215000	6.941519000	-4.535474000
$^2\text{TS}_{\text{A1}}^0$				6	-5.091651000	7.925644000	-5.513578000
23	0.475950000	2.611835000	-5.209627000	1	-2.253433000	6.756873000	-6.984380000
7	-0.751071000	3.432768000	-3.795486000	1	-4.462114000	5.133051000	-3.673697000
7	0.733201000	1.094508000	-3.741958000	1	-3.875612000	8.624642000	-7.152937000
7	0.975621000	1.106715000	-6.502064000	1	-6.096993000	6.986305000	-3.851127000
7	-1.111672000	2.941877000	-6.506056000	1	-5.806318000	8.740670000	-5.589777000
6	-1.438548000	4.594400000	-4.097264000	8	1.293619000	3.967524000	-5.875049000
6	-1.285354000	5.511901000	-2.991489000	6	-0.307658000	1.745224000	-9.997603000
6	-0.631869000	4.838808000	-1.989092000	6	-0.297907000	2.907454000	-10.781795000
6	-0.366407000	3.502908000	-2.470283000	6	-0.424928000	0.497103000	-10.625661000
6	0.377586000	1.174333000	-2.408600000	6	-0.396719000	2.821855000	-12.169796000
6	0.605874000	-0.119182000	-1.794278000	6	-0.538457000	0.413766000	-12.011951000
6	1.227603000	-0.904186000	-2.723566000	6	-0.521065000	1.575601000	-12.787424000
6	1.379959000	-0.107852000	-3.925783000	1	-0.200867000	3.876096000	-10.299451000
6	2.058458000	0.287109000	-6.243425000	1	-0.438717000	-0.406326000	-10.022229000
6	2.849058000	0.181869000	-7.448833000	1	-0.378742000	3.728456000	-12.768390000
6	2.162969000	0.831561000	-8.444111000	1	-0.638373000	-0.558096000	-12.487485000
6	-1.248182000	2.429716000	-7.781935000	1	-0.604003000	1.509562000	-13.868898000
6	-0.197267000	1.843371000	-8.511926000	8	3.504777000	2.228152000	-4.036639000
6	-2.572411000	2.755441000	-8.267007000	8	2.372172000	3.117907000	-4.119315000
6	-3.157207000	3.571160000	-7.336902000	1	2.181208000	3.855464000	-5.209331000
6	-2.202699000	3.755233000	-6.264493000	1	3.825445000	2.441349000	-3.143442000
6	-2.267293000	4.701339000	-5.224032000	6	5.136457000	1.197699000	-0.879253000
6	0.024144000	2.365561000	-1.748964000	6	5.174262000	2.236066000	0.218201000
6	2.181460000	-0.420555000	-5.042135000	6	5.193101000	1.931283000	1.521467000
17	0.079388000	-0.684385000	-0.254448000	6	5.142056000	0.517502000	2.049241000
6	0.941962000	1.343286000	-7.864469000	6	4.717462000	-0.486515000	0.965622000
17	1.583162000	-2.573402000	-2.489311000	6	5.452776000	-0.213356000	-0.353585000
17	-1.705984000	7.178922000	-2.916200000	1	5.848559000	1.473690000	-1.670711000
17	-4.792759000	4.104416000	-7.417827000	1	4.141962000	1.198141000	-1.357807000
17	2.769205000	1.058384000	-10.038839000	1	5.202430000	3.281574000	-0.087951000
17	4.409758000	-0.511617000	-7.653490000	1	5.257014000	2.733672000	2.256193000
17	-3.385605000	2.138514000	-9.654136000	1	4.454137000	0.464514000	2.904476000
				1	6.130730000	0.244661000	2.452014000
				1	4.906174000	-1.511936000	1.305218000

1	3.634836000	-0.403625000	0.799016000
1	5.185734000	-0.965594000	-1.105225000
1	6.535747000	-0.297869000	-0.186962000

$^2\text{Int}_{A1}^0$

23	0.537995000	2.744679000	-5.584223000
7	-0.735955000	3.469106000	-4.137088000
7	0.700907000	1.138283000	-4.157940000
7	0.892095000	1.250012000	-6.928349000
7	-1.218168000	3.001882000	-6.846357000
6	-1.489519000	4.600932000	-4.387956000
6	-1.312574000	5.518550000	-3.283624000
6	-0.570857000	4.869611000	-2.328260000
6	-0.294658000	3.540597000	-2.827959000
6	0.397514000	1.199190000	-2.818339000
6	0.538467000	-0.125185000	-2.245670000
6	1.037882000	-0.934676000	-3.227512000
6	1.225555000	-0.110884000	-4.406859000
6	1.915254000	0.346980000	-6.714622000
6	2.689393000	0.245459000	-7.931268000
6	2.032930000	0.968286000	-8.896543000
6	-1.375507000	2.535533000	-8.129207000
6	-0.315885000	2.014668000	-8.902947000
6	-2.726972000	2.825218000	-8.568149000
6	-3.318833000	3.569348000	-7.584905000
6	-2.332422000	3.752933000	-6.536568000
6	-2.385283000	4.675852000	-5.468836000
6	0.136443000	2.402678000	-2.131308000
6	1.982550000	-0.433372000	-5.550533000
17	0.031199000	-0.680907000	-0.696053000
6	0.839067000	1.513218000	-8.288844000
17	1.221744000	-2.640907000	-3.073953000
17	-1.802159000	7.165427000	-3.169956000
17	-4.981348000	4.021956000	-7.584271000
17	2.635194000	1.226293000	-10.487875000
17	4.215072000	-0.516436000	-8.168431000
17	-3.547342000	2.240585000	-9.965662000
17	-0.012050000	5.603598000	-0.875966000
6	2.890664000	-1.616973000	-5.511789000
6	2.641768000	-2.744756000	-6.306113000
6	4.013810000	-1.603998000	-4.672347000
6	3.496716000	-3.844085000	-6.255361000
6	4.876481000	-2.698385000	-4.634157000
6	4.617728000	-3.822074000	-5.422172000
1	1.769442000	-2.762010000	-6.953542000
1	4.207675000	-0.728073000	-4.060004000
1	3.289252000	-4.717372000	-6.867706000
1	5.748611000	-2.675505000	-3.986336000
1	5.286652000	-4.677742000	-5.386960000
6	0.297504000	2.444702000	-0.648791000
6	-0.811766000	2.614186000	0.192173000
6	1.571834000	2.302056000	-0.081220000
6	-0.649105000	2.633388000	1.575670000
6	1.736651000	2.336917000	1.303231000
6	0.624895000	2.498264000	2.133075000
1	-1.802296000	2.717452000	-0.242179000
1	2.432551000	2.175050000	-0.732033000
1	-1.516475000	2.755174000	2.218827000
1	2.729489000	2.234866000	1.733650000
1	0.750912000	2.518454000	3.212350000
6	-3.430601000	5.743144000	-5.479311000
6	-3.395303000	6.760361000	-6.443560000
6	-4.460758000	5.740161000	-4.527915000

6	-4.367042000	7.759814000	-6.451652000
6	-5.440394000	6.731026000	-4.545930000
6	-5.393802000	7.745240000	-5.505318000
1	-2.599222000	6.770382000	-7.183170000
1	-4.496914000	4.950910000	-3.782203000
1	-4.323986000	8.547651000	-7.198599000
1	-6.239216000	6.712696000	-3.809665000
1	-6.154917000	8.520678000	-5.515475000
8	0.939009000	4.389498000	-6.287803000
6	-0.450179000	1.972350000	-10.389469000
6	-0.471058000	3.164532000	-11.126821000
6	-0.565370000	0.749045000	-11.064986000
6	-0.596256000	3.133067000	-12.515223000
6	-0.704925000	0.719341000	-12.451062000
6	-0.717071000	1.911069000	-13.179849000
1	-0.377332000	4.114891000	-10.608744000
1	-0.557162000	-0.177799000	-10.498205000
1	-0.601912000	4.063056000	-13.077060000
1	-0.802507000	-0.234196000	-12.962781000
1	-0.820765000	1.887055000	-14.261267000
8	3.190986000	2.065661000	-4.621799000
8	2.292303000	3.105006000	-5.038912000
1	0.142003000	4.928916000	-6.430975000
1	4.030296000	2.501813000	-4.855070000
6	6.467037000	1.394564000	1.618427000
6	5.658038000	2.136918000	2.655751000
6	4.989766000	1.530261000	3.644653000
6	4.937635000	0.031173000	3.819531000
6	5.434295000	-0.712755000	2.568797000
6	6.715061000	-0.068771000	2.020053000
1	7.423821000	1.910897000	1.458450000
1	5.946749000	1.436903000	0.648079000
1	5.639296000	3.224076000	2.584003000
1	4.453398000	2.133350000	4.377068000
1	3.911535000	-0.278659000	4.061441000
1	5.543675000	-0.254345000	4.694410000
1	5.601953000	-1.771554000	2.800659000
1	4.654333000	-0.678065000	1.795475000
1	7.096958000	-0.636614000	1.162839000
1	7.494388000	-0.102596000	2.794244000

$^2\text{TS}_{A1}^0$

23	0.546589000	2.493985000	-5.274229000
7	-0.719363000	3.382545000	-3.887836000
7	0.603985000	0.945565000	-3.858885000
7	0.843046000	0.939345000	-6.648347000
7	-1.087068000	2.874509000	-6.584405000
6	-1.329403000	4.581043000	-4.179952000
6	-1.135398000	5.482858000	-3.066277000
6	-0.528285000	4.764668000	-2.066403000
6	-0.341818000	3.416889000	-2.560081000
6	0.240226000	1.038196000	-2.529014000
6	0.321068000	-0.280694000	-1.938095000
6	0.856684000	-1.115978000	-2.880024000
6	1.113008000	-0.322432000	-4.064049000
6	1.832898000	0.013438000	-6.387882000
6	2.631703000	-0.153941000	-7.583761000
6	2.035742000	0.581850000	-8.576692000
6	-1.250977000	2.408676000	-7.876278000
6	-0.236077000	1.795353000	-8.636967000
6	-2.553318000	2.818549000	-8.358100000
6	-3.089872000	3.647919000	-7.414923000
6	-2.123553000	3.760560000	-6.340804000

6	-2.136743000	4.725537000	-5.315349000
6	-0.013374000	2.250905000	-1.854662000
6	1.879440000	-0.705575000	-5.184159000
17	-0.279104000	-0.811685000	-0.413375000
6	0.860727000	1.198344000	-8.002174000
17	1.001834000	-2.820787000	-2.678549000
17	-1.465038000	7.169720000	-2.979656000
17	-4.697579000	4.262653000	-7.478175000
17	2.685319000	0.782228000	-10.158780000
17	4.121563000	-0.994020000	-7.774381000
17	-3.399504000	2.263511000	-9.752030000
17	-0.005593000	5.443439000	-0.573771000
6	2.748509000	-1.915296000	-5.085922000
6	2.463754000	-3.065696000	-5.835249000
6	3.864087000	-1.909732000	-4.236687000
6	3.274796000	-4.193596000	-5.729750000
6	4.684010000	-3.033600000	-4.144544000
6	4.388746000	-4.179035000	-4.886764000
1	1.596528000	-3.077186000	-6.489627000
1	4.091714000	-1.017199000	-3.660751000
1	3.038822000	-5.083488000	-6.306841000
1	5.551705000	-3.015551000	-3.490823000
1	5.024030000	-5.057206000	-4.808938000
6	0.061521000	2.283764000	-0.364777000
6	-1.087844000	2.504297000	0.407675000
6	1.292004000	2.089995000	0.279053000
6	-1.007971000	2.521593000	1.798619000
6	1.374469000	2.121861000	1.670670000
6	0.222924000	2.333428000	2.432246000
1	-2.045071000	2.649181000	-0.085557000
1	2.186021000	1.926106000	-0.316345000
1	-1.906424000	2.683253000	2.388034000
1	2.335903000	1.973715000	2.155025000
1	0.284108000	2.351198000	3.517147000
6	-3.037975000	5.909194000	-5.435025000
6	-2.802267000	6.871583000	-6.427008000
6	-4.122995000	6.076902000	-4.562657000
6	-3.635010000	7.984163000	-6.540717000
6	-4.963047000	7.181305000	-4.687205000
6	-4.719351000	8.139060000	-5.674727000
1	-1.956805000	6.749140000	-7.097955000
1	-4.313495000	5.331463000	-3.795554000
1	-3.437931000	8.728731000	-7.307143000
1	-5.807062000	7.295800000	-4.012578000
1	-5.371892000	9.002935000	-5.768205000
8	1.018031000	4.364877000	-5.987668000
6	-0.347787000	1.761684000	-10.124862000
6	-0.282063000	2.950974000	-10.864632000
6	-0.522544000	0.545768000	-10.801386000
6	-0.382040000	2.923818000	-12.255073000
6	-0.637531000	0.521159000	-12.189637000
6	-0.563988000	1.709701000	-12.920170000
1	-0.145720000	3.896499000	-10.346860000
1	-0.581014000	-0.378338000	-10.233174000
1	-0.321419000	3.851091000	-12.818114000
1	-0.782778000	-0.426003000	-12.701801000
1	-0.648571000	1.689340000	-14.003290000
8	2.116482000	3.352692000	-4.226157000
8	2.405199000	2.386736000	-5.247636000
1	1.516440000	4.303234000	-6.818427000
1	1.887005000	4.174773000	-4.918186000
6	6.281900000	2.293203000	2.128381000
6	5.356831000	1.403044000	2.924381000

6	4.793842000	0.292972000	2.431326000
6	4.986875000	-0.180127000	1.010130000
6	5.606627000	0.909543000	0.119444000
6	6.767033000	1.611815000	0.838099000
1	7.140948000	2.582142000	2.749849000
1	5.765939000	3.236073000	1.886233000
1	5.159452000	1.691207000	3.956679000
1	4.160651000	-0.318511000	3.073738000
1	4.023551000	-0.508268000	0.595732000
1	5.626783000	-1.077213000	1.008599000
1	5.944120000	0.476748000	-0.830286000
1	4.837985000	1.655107000	-0.129480000
1	7.242947000	2.346797000	0.177856000
1	7.535096000	0.867391000	1.090613000

²Int3_{A1}⁰

23	0.899147000	3.535422000	-5.564246000
7	-0.219045000	4.310114000	-4.048888000
7	1.627812000	2.204601000	-4.109109000
7	1.410040000	2.074227000	-6.885478000
7	-0.816230000	3.770980000	-6.733743000
6	-1.064546000	5.382276000	-4.298125000
6	-0.858797000	6.374148000	-3.270282000
6	0.012353000	5.842948000	-2.352804000
6	0.358494000	4.515771000	-2.804485000
6	1.451526000	2.324116000	-2.745731000
6	1.904810000	1.103103000	-2.113106000
6	2.456940000	0.320093000	-3.089119000
6	2.345962000	1.047554000	-4.336618000
6	2.598056000	1.371313000	-6.747078000
6	3.247096000	1.309541000	-8.034662000
6	2.393847000	1.871311000	-8.950949000
6	-1.049156000	3.189927000	-7.964323000
6	-0.035941000	2.656030000	-8.781994000
6	-2.449782000	3.341487000	-8.289803000
6	-3.015239000	4.106754000	-7.304973000
6	-1.968902000	4.437349000	-6.363804000
6	-2.030944000	5.371998000	-5.314042000
6	1.028633000	3.503527000	-2.103090000
6	2.973347000	0.736072000	-5.556444000
17	1.680597000	0.592142000	-0.484301000
6	1.201609000	2.274965000	-8.244768000
17	3.015794000	-1.286058000	-2.828121000
17	-1.444843000	7.990196000	-3.212582000
17	-4.702631000	4.427977000	-7.185741000
17	2.801429000	2.142079000	-10.601357000
17	4.836698000	0.776209000	-8.409482000
17	-3.343735000	2.590168000	-9.555020000
17	0.628701000	6.716542000	-1.006086000
6	4.061361000	-0.285877000	-5.581689000
6	3.848101000	-1.534539000	-6.181697000
6	5.305958000	0.002254000	-5.003728000
6	4.860841000	-2.492131000	-6.188262000
6	6.319758000	-0.954547000	-5.023630000
6	6.098662000	-2.203526000	-5.608799000
1	2.882774000	-1.758447000	-6.627905000
1	5.480670000	0.988523000	-4.586371000
1	4.684447000	-3.461655000	-6.646174000
1	7.286128000	-0.722200000	-4.584418000
1	6.889848000	-2.948546000	-5.617630000
6	1.298678000	3.674951000	-0.645086000
6	0.243771000	3.691922000	0.278670000
6	2.615546000	3.820039000	-0.186414000

6	0.502231000	3.843004000	1.639351000	6	0.623859000	0.005710000	-2.115945000
6	2.870530000	3.987994000	1.174264000	6	1.466428000	-0.581580000	-3.019515000
6	1.815973000	3.994870000	2.089835000	6	1.902374000	0.453922000	-3.938092000
1	-0.777627000	3.573152000	-0.072557000	6	3.106141000	1.351009000	-5.882276000
1	3.433125000	3.823081000	-0.902609000	6	4.193450000	1.513631000	-6.825106000
1	-0.321273000	3.844003000	2.348165000	6	3.770041000	2.393523000	-7.789040000
1	3.892937000	4.114159000	1.517965000	6	0.234949000	3.854756000	-7.702509000
1	2.016423000	4.119196000	3.150561000	6	1.457242000	3.415339000	-8.258633000
6	-3.148953000	6.359008000	-5.280775000	6	-0.979363000	4.194305000	-8.416249000
6	-3.267101000	7.327789000	-6.287754000	6	-1.828460000	4.780649000	-7.510869000
6	-4.096064000	6.327895000	-4.246690000	6	-1.140128000	4.805198000	-6.236220000
6	-4.308008000	8.254314000	-6.255077000	6	-1.535823000	5.488590000	-5.064445000
6	-5.145444000	7.244119000	-4.224382000	6	-0.023588000	2.451134000	-1.691333000
6	-5.251482000	8.211985000	-5.226162000	6	2.951643000	0.380387000	-4.876319000
1	-2.532455000	7.359556000	-7.087535000	17	-0.258368000	-0.860368000	-0.916334000
1	-4.013220000	5.575000000	-3.467757000	6	2.417384000	2.779695000	-7.456465000
1	-4.383626000	9.007628000	-7.034328000	17	1.771998000	-2.275352000	-3.093444000
1	-5.879098000	7.204681000	-3.423953000	17	-1.612669000	7.431013000	-2.235076000
1	-6.066323000	8.930503000	-5.204876000	17	-3.470367000	5.190308000	-7.849802000
8	5.047617000	3.329004000	-5.687971000	17	4.770078000	2.997295000	-9.055227000
6	-0.296909000	2.479022000	-10.240147000	17	5.787522000	0.868217000	-6.746203000
6	-0.507684000	3.597648000	-11.059180000	17	-1.425408000	3.776338000	-10.030254000
6	-0.343925000	1.197084000	-10.807198000	17	-0.613939000	5.319337000	0.097973000
6	-0.752447000	3.436985000	-12.422037000	6	3.910807000	-0.761460000	-4.805630000
6	-0.604752000	1.037256000	-12.166452000	6	3.953585000	-1.723711000	-5.824799000
6	-0.806032000	2.156782000	-12.977566000	6	4.781550000	-0.884000000	-3.713375000
1	-0.466660000	4.592921000	-10.625425000	6	4.845251000	-2.791891000	-5.749714000
1	-0.188397000	0.326682000	-10.175782000	6	5.683392000	-1.944982000	-3.646457000
1	-0.904338000	4.311040000	-13.049244000	6	5.714646000	-2.903136000	-4.661970000
1	-0.649195000	0.039138000	-12.593369000	1	3.276520000	-1.637166000	-6.670149000
1	-1.003744000	2.031538000	-14.038662000	1	4.756715000	-0.137296000	-2.924573000
8	2.464115000	4.502910000	-5.266478000	1	4.862928000	-3.536514000	-6.540855000
8	1.611704000	4.983920000	-6.336230000	1	6.360049000	-2.024582000	-2.800049000
1	4.166522000	3.729669000	-5.543109000	1	6.413648000	-3.733283000	-4.606240000
1	5.341052000	3.703525000	-6.531801000	6	-0.333809000	2.197498000	-0.253036000
6	5.049134000	7.341710000	-4.935455000	6	-1.659948000	2.184497000	0.202610000
6	4.484909000	8.530801000	-4.194378000	6	0.704561000	1.964926000	0.660121000
6	4.353817000	8.578022000	-2.863887000	6	-1.942396000	1.935942000	1.544342000
6	4.724540000	7.434711000	-1.948920000	6	0.421700000	1.731379000	2.005136000
6	4.946674000	6.125884000	-2.724029000	6	-0.902107000	1.712042000	2.449413000
6	5.772996000	6.363265000	-3.995635000	1	-2.468983000	2.357876000	-0.501645000
1	5.733260000	7.688776000	-5.723361000	1	1.733916000	1.980530000	0.312938000
1	4.234104000	6.816883000	-5.457850000	1	-2.974372000	1.918758000	1.884091000
1	4.174858000	9.387517000	-4.792775000	1	1.235047000	1.561728000	2.705347000
1	3.957637000	9.478212000	-2.393987000	1	-1.122557000	1.523331000	3.496620000
1	3.938804000	7.297629000	-1.192412000	6	-2.575692000	6.553488000	-5.150339000
1	5.633358000	7.698652000	-1.383378000	6	-2.367414000	7.696952000	-5.938375000
1	5.439208000	5.385399000	-2.079744000	6	-3.785414000	6.418803000	-4.450923000
1	3.975282000	5.703408000	-3.015887000	6	-3.343793000	8.690336000	-6.005677000
1	5.952124000	5.412628000	-4.509754000	6	-4.765712000	7.404828000	-4.534747000
1	6.751081000	6.781779000	-3.718025000	6	-4.544489000	8.547495000	-5.307224000
²TS4_{A1}⁰				1	-1.446554000	7.806101000	-6.505337000
23	1.293259000	3.395872000	-4.727970000	1	-3.958266000	5.530037000	-3.850536000
7	-0.349060000	3.933393000	-3.608553000	1	-3.166941000	9.576738000	-6.609062000
7	1.213528000	1.609042000	-3.643521000	1	-5.701071000	7.282588000	-3.995519000
7	2.100995000	2.234440000	-6.224431000	1	-5.305742000	9.320750000	-5.366554000
7	0.059288000	4.144372000	-6.369349000	8	0.039463000	7.455456000	-8.530205000
6	-0.988468000	5.142391000	-3.819141000	6	1.705657000	3.593951000	-9.717912000
6	-1.139973000	5.803216000	-2.542698000	6	1.723875000	4.876445000	-10.289767000
6	-0.717540000	4.926835000	-1.574971000	6	1.914679000	2.477042000	-10.542077000
6	-0.295463000	3.714810000	-2.245606000	6	1.966678000	5.033034000	-11.654052000
6	0.528302000	1.410848000	-2.466085000	6	2.138993000	2.636281000	-11.907570000
				6	2.173048000	3.916134000	-12.466351000

1	1.540955000	5.750553000	-9.670184000
1	1.888039000	1.481530000	-10.107997000
1	1.991303000	6.030905000	-12.083856000
1	2.289809000	1.762091000	-12.534957000
1	2.356156000	4.041528000	-13.530164000
8	2.598551000	3.820689000	-3.769640000
8	2.318557000	5.109054000	-4.902788000
1	-0.486123000	6.638760000	-8.502354000
1	-0.362297000	7.971027000	-9.246751000
6	4.251474000	6.670790000	-6.371941000
6	2.759990000	6.507652000	-6.487322000
6	1.879997000	7.061463000	-5.603767000
6	2.310989000	7.901103000	-4.433089000
6	3.806250000	7.742548000	-4.115585000
6	4.646176000	7.796288000	-5.399344000
1	4.673366000	6.860274000	-7.368577000
1	4.674934000	5.713464000	-6.038143000
1	2.375482000	5.977772000	-7.351517000
1	0.817260000	6.993324000	-5.806712000
1	1.699918000	7.645043000	-3.559006000
1	2.081721000	8.954652000	-4.664720000
1	4.123827000	8.525858000	-3.416336000
1	3.959414000	6.777417000	-3.619993000
1	5.715228000	7.726228000	-5.164692000
1	4.495004000	8.768664000	-5.890330000

²P_{A1}⁰

23	1.322259000	2.900825000	-4.248786000
7	-0.148687000	3.530523000	-2.938452000
7	1.281984000	1.095784000	-3.216349000
7	2.096141000	1.821934000	-5.836411000
7	0.338500000	4.036599000	-5.680061000
6	-0.579993000	4.842690000	-2.998020000
6	-0.606671000	5.374961000	-1.653047000
6	-0.295937000	4.347039000	-0.799852000
6	-0.066286000	3.169240000	-1.607340000
6	0.559838000	0.839978000	-2.066974000
6	0.492433000	-0.592616000	-1.882301000
6	1.260388000	-1.168377000	-2.860499000
6	1.810397000	-0.099258000	-3.663694000
6	3.026241000	0.832020000	-5.582409000
6	4.131602000	0.998297000	-6.500391000
6	3.805643000	2.021853000	-7.353072000
6	0.507618000	3.936908000	-7.045330000
6	1.651830000	3.390590000	-7.662109000
6	-0.601972000	4.599187000	-7.692302000
6	-1.356051000	5.184095000	-6.710721000
6	-0.722337000	4.886628000	-5.446221000
6	-1.025223000	5.444466000	-4.187494000
6	0.094888000	1.837921000	-1.185878000
6	2.807305000	-0.202025000	-4.655783000
17	-0.485546000	-1.485422000	-0.779770000
6	2.492731000	2.497727000	-6.975484000
17	1.359454000	-2.867625000	-3.128313000
17	-0.824620000	7.007257000	-1.148253000
17	-2.865167000	5.966436000	-6.992842000
17	4.883587000	2.667350000	-8.531990000
17	5.662246000	0.207397000	-6.489672000
17	-1.051284000	4.553088000	-9.355031000
17	-0.085649000	4.539263000	0.899250000
6	3.638237000	-1.438546000	-4.724167000
6	3.584319000	-2.273664000	-5.850113000
6	4.483055000	-1.784267000	-3.659078000

6	4.353131000	-3.434307000	-5.905866000
6	5.263352000	-2.937356000	-3.722150000
6	5.197144000	-3.767205000	-4.843628000
1	2.926914000	-2.014738000	-6.675434000
1	4.533642000	-1.138381000	-2.786906000
1	4.294939000	-4.078378000	-6.779046000
1	5.921170000	-3.189391000	-2.894874000
1	5.800649000	-4.669704000	-4.889860000
6	-0.238940000	1.467992000	0.219823000
6	-1.553634000	1.587009000	0.694582000
6	0.757625000	0.992555000	1.084983000
6	-1.866893000	1.229620000	2.004338000
6	0.446424000	0.649887000	2.399655000
6	-0.866915000	0.763343000	2.861158000
1	-2.331022000	1.948867000	0.027372000
1	1.779037000	0.904113000	0.725314000
1	-2.890944000	1.316511000	2.357034000
1	1.228856000	0.291806000	3.063153000
1	-1.110243000	0.489591000	3.884242000
6	-1.828608000	6.698426000	-4.128780000
6	-1.333195000	7.874607000	-4.713936000
6	-3.080805000	6.717829000	-3.496721000
6	-2.077856000	9.051905000	-4.648876000
6	-3.829006000	7.892144000	-3.451039000
6	-3.325996000	9.063909000	-4.021895000
1	-0.367153000	7.855033000	-5.212998000
1	-3.470430000	5.805883000	-3.052626000
1	-1.684423000	9.962575000	-5.093128000
1	-4.802516000	7.893982000	-2.968288000
1	-3.906290000	9.981927000	-3.979990000
8	1.467258000	7.368189000	-6.751697000
6	1.973630000	3.786473000	-9.062265000
6	2.232573000	5.133174000	-9.363994000
6	2.021930000	2.829982000	-10.087218000
6	2.551421000	5.506917000	-10.668872000
6	2.322387000	3.211264000	-11.393097000
6	2.594785000	4.550043000	-11.685576000
1	2.176954000	5.875351000	-8.571029000
1	1.811895000	1.788830000	-9.857975000
1	2.762745000	6.549108000	-10.893637000
1	2.346972000	2.464134000	-12.181734000
1	2.836891000	4.846062000	-12.702922000
8	2.587806000	3.714966000	-3.746879000
8	4.117531000	8.323138000	-6.672997000
1	1.064249000	7.939468000	-7.423176000
1	2.376725000	7.721069000	-6.647437000
6	4.834723000	6.335149000	-5.280830000
6	5.213122000	7.542883000	-6.123740000
6	4.950794000	8.919237000	-5.656295000
6	4.311394000	9.175506000	-4.309125000
6	3.582613000	7.941650000	-3.750259000
6	4.473496000	6.694702000	-3.827756000
1	5.666821000	5.621168000	-5.294795000
1	3.988010000	5.829774000	-5.762766000
1	6.009737000	7.396131000	-6.853895000
1	5.576183000	9.724938000	-6.045950000
1	3.630105000	10.033572000	-4.388337000
1	5.113534000	9.477713000	-3.619764000
1	3.290050000	8.136287000	-2.711866000
1	2.655645000	7.769999000	-4.310567000
1	3.977176000	5.837053000	-3.363623000
1	5.396745000	6.882466000	-3.259888000

²TS5_{A1}⁰

23	0.912785000	3.259468000	-5.086343000
7	-0.380304000	4.009350000	-3.655382000
7	1.274525000	1.698376000	-3.795021000
7	1.558658000	1.980658000	-6.623072000
7	-0.524107000	3.900477000	-6.485105000
6	-1.102823000	5.168627000	-3.848944000
6	-1.076387000	5.925363000	-2.612793000
6	-0.442278000	5.151837000	-1.672882000
6	-0.070510000	3.905922000	-2.314829000
6	0.847260000	1.618209000	-2.484149000
6	1.064457000	0.262937000	-2.022252000
6	1.715060000	-0.413189000	-3.021167000
6	1.914314000	0.513047000	-4.115311000
6	2.628321000	1.149513000	-6.392926000
6	3.509431000	1.209750000	-7.544205000
6	2.895656000	2.001174000	-8.481005000
6	-0.543076000	3.592188000	-7.832496000
6	0.555524000	3.078066000	-8.555361000
6	-1.814328000	4.020876000	-8.379332000
6	-2.487954000	4.674296000	-7.383150000
6	-1.637525000	4.667264000	-6.208680000
6	-1.824466000	5.424749000	-5.028294000
6	0.387935000	2.715257000	-1.721145000
6	2.719519000	0.319283000	-5.257790000
17	0.493949000	-0.488263000	-0.579778000
6	1.631050000	2.431686000	-7.918914000
17	2.042623000	-2.104504000	-2.970664000
17	-1.583163000	7.549424000	-2.328214000
17	-4.116161000	5.220644000	-7.531972000
17	3.634135000	2.484435000	-9.964554000
17	5.101154000	0.573022000	-7.722133000
17	-2.496045000	3.669176000	-9.921971000
17	-0.059669000	5.703817000	-0.083769000
6	3.695788000	-0.810290000	-5.267059000
6	3.542760000	-1.878868000	-6.162507000
6	4.782970000	-0.813380000	-4.381072000
6	4.453235000	-2.933588000	-6.165322000
6	5.701973000	-1.861373000	-4.394991000
6	5.537044000	-2.925766000	-5.283983000
1	2.699973000	-1.884776000	-6.848193000
1	4.910206000	0.015474000	-3.690235000
1	4.318387000	-3.760819000	-6.856824000
1	6.545510000	-1.848031000	-3.710167000
1	6.250099000	-3.745767000	-5.290198000
6	0.371404000	2.595670000	-0.231922000
6	-0.841545000	2.567140000	0.471331000
6	1.575150000	2.509538000	0.482115000
6	-0.850411000	2.448110000	1.859637000
6	1.566165000	2.404734000	1.872298000
6	0.353479000	2.370629000	2.563988000
1	-1.777956000	2.626481000	-0.076489000
1	2.518240000	2.533855000	-0.057069000
1	-1.796987000	2.417546000	2.392346000
1	2.505764000	2.346671000	2.415028000
1	0.346203000	2.282924000	3.647101000
6	-2.827167000	6.532770000	-5.036572000
6	-2.611709000	7.673697000	-5.823047000
6	-3.993215000	6.449164000	-4.262034000
6	-3.539946000	8.713852000	-5.828235000
6	-4.927763000	7.482547000	-4.279009000
6	-4.701589000	8.619225000	-5.059013000

1	-1.711650000	7.744146000	-6.427927000
1	-4.169366000	5.564516000	-3.656332000
1	-3.358287000	9.595675000	-6.436565000
1	-5.832124000	7.401677000	-3.682098000
1	-5.428567000	9.426857000	-5.068331000
8	2.706541000	5.884093000	-8.276995000
6	0.574396000	3.220820000	-10.042198000
6	0.739738000	4.487522000	-10.621567000
6	0.435770000	2.096696000	-10.868704000
6	0.759553000	4.622506000	-12.009508000
6	0.442926000	2.237998000	-12.255062000
6	0.604510000	3.501718000	-12.828412000
1	0.898760000	5.347029000	-9.977226000
1	0.306045000	1.115067000	-10.420930000
1	0.898026000	5.605436000	-12.451980000
1	0.323812000	1.362494000	-12.887665000
1	0.613734000	3.611156000	-13.909692000
8	2.610365000	3.957275000	-4.733113000
8	2.044775000	4.888939000	-5.648118000
1	3.333323000	5.351272000	-8.789767000
1	2.587769000	5.389267000	-7.445731000
6	2.071683000	7.223313000	-4.520248000
6	2.681024000	6.936047000	-3.250711000
6	4.019375000	7.103409000	-3.025297000
6	4.958626000	7.632149000	-4.071994000
6	4.375474000	7.536072000	-5.491886000
6	2.905387000	7.980943000	-5.542270000
1	1.003401000	7.454524000	-4.497310000
1	1.985117000	5.941190000	-5.063311000
1	2.051283000	6.558665000	-2.448527000
1	4.424809000	6.886064000	-2.039026000
1	5.917872000	7.099928000	-4.014258000
1	5.195778000	8.682105000	-3.827455000
1	4.974745000	8.134289000	-6.187388000
1	4.435583000	6.497568000	-5.838433000
1	2.513489000	7.831304000	-6.554145000
1	2.829461000	9.059871000	-5.327884000

²Int5_{A1}⁰

23	1.093298000	3.292006000	-4.972363000
7	-0.266774000	4.030274000	-3.619850000
7	1.402454000	1.723333000	-3.726492000
7	1.699718000	2.091044000	-6.530734000
7	-0.358831000	3.954090000	-6.410471000
6	-0.965950000	5.213117000	-3.790416000
6	-0.946220000	5.937200000	-2.536239000
6	-0.345431000	5.127575000	-1.606440000
6	0.008397000	3.889038000	-2.272881000
6	0.907676000	1.598089000	-2.441741000
6	1.099299000	0.228372000	-2.017269000
6	1.799290000	-0.414770000	-3.007112000
6	2.046868000	0.547050000	-4.057653000
6	2.782380000	1.266497000	-6.295454000
6	3.668637000	1.341365000	-7.442666000
6	3.036091000	2.092322000	-8.398410000
6	-0.430770000	3.585897000	-7.744646000
6	0.668368000	3.097470000	-8.489831000
6	-1.722771000	3.959558000	-8.262412000
6	-2.369033000	4.660711000	-7.276377000
6	-1.486198000	4.711257000	-6.136305000
6	-1.655844000	5.503218000	-4.974131000
6	0.416256000	2.676965000	-1.680941000
6	2.872767000	0.399246000	-5.189515000

17	0.466271000	-0.567683000	-0.626487000
6	1.759510000	2.499767000	-7.849033000
17	2.139861000	-2.103495000	-2.993148000
17	-1.435814000	7.559445000	-2.214933000
17	-4.001715000	5.198896000	-7.395679000
17	3.754512000	2.549598000	-9.896098000
17	5.284824000	0.762365000	-7.589935000
17	-2.449020000	3.505089000	-9.757323000
17	0.031010000	5.631748000	-0.000204000
6	3.848817000	-0.729727000	-5.226055000
6	3.710045000	-1.763456000	-6.163871000
6	4.915808000	-0.772720000	-4.316799000
6	4.615748000	-2.822063000	-6.187145000
6	5.829969000	-1.824499000	-4.350365000
6	5.679884000	-2.853431000	-5.282719000
1	2.882160000	-1.739327000	-6.867108000
1	5.031944000	0.028613000	-3.592287000
1	4.492157000	-3.621955000	-6.912088000
1	6.658064000	-1.841868000	-3.647067000
1	6.389114000	-3.676458000	-5.304469000
6	0.302567000	2.520642000	-0.199738000
6	-0.954648000	2.503818000	0.421587000
6	1.454591000	2.384011000	0.588136000
6	-1.057556000	2.346155000	1.802385000
6	1.351609000	2.241163000	1.970835000
6	0.095307000	2.218217000	2.580723000
1	-1.851283000	2.602335000	-0.184100000
1	2.431331000	2.400734000	0.112396000
1	-2.037512000	2.324860000	2.271331000
1	2.251762000	2.144911000	2.571786000
1	0.014763000	2.100744000	3.658020000
6	-2.580201000	6.672802000	-5.045683000
6	-2.265995000	7.746334000	-5.893528000
6	-3.763006000	6.716175000	-4.294016000
6	-3.118152000	8.847321000	-5.977832000
6	-4.619774000	7.810166000	-4.391909000
6	-4.297607000	8.879863000	-5.231371000
1	-1.349772000	7.717773000	-6.478251000
1	-4.015320000	5.882375000	-3.644815000
1	-2.862235000	9.676713000	-6.631448000
1	-5.539367000	7.828641000	-3.813356000
1	-4.965118000	9.734290000	-5.304448000
8	1.099493000	6.578869000	-7.621051000
6	0.661220000	3.256785000	-9.972774000
6	0.684696000	4.543803000	-10.532173000
6	0.627782000	2.138631000	-10.818258000
6	0.682447000	4.703808000	-11.917369000
6	0.610022000	2.303422000	-12.201551000
6	0.640732000	3.586409000	-12.754182000
1	0.717141000	5.408628000	-9.874004000
1	0.601191000	1.141730000	-10.386832000
1	0.709491000	5.703249000	-12.343102000
1	0.573145000	1.431250000	-12.848680000
1	0.631315000	3.713839000	-13.833434000
8	2.666889000	4.059672000	-4.474223000
8	2.217544000	5.130239000	-5.362748000
1	2.048148000	6.381608000	-7.662860000
1	0.743710000	5.820085000	-7.128193000
6	2.027424000	7.929101000	-4.071727000
6	2.705748000	7.457677000	-2.947975000
6	4.089208000	7.546639000	-2.826835000
6	4.928051000	8.162409000	-3.911637000
6	4.230597000	8.093132000	-5.282722000

6	2.770288000	8.576872000	-5.210250000
1	0.940242000	7.948426000	-4.080881000
1	2.054709000	5.883061000	-4.736835000
1	2.133085000	7.027057000	-2.128619000
1	4.575505000	7.198064000	-1.919526000
1	5.909407000	7.672540000	-3.959213000
1	5.136459000	9.215944000	-3.654880000
1	4.788956000	8.679272000	-6.021873000
1	4.240107000	7.050673000	-5.626680000
1	2.249655000	8.376300000	-6.154248000
1	2.747200000	9.672396000	-5.076971000

²TS6_{A1}⁰

23	0.915716000	3.091558000	-4.938502000
7	-0.430893000	3.773192000	-3.535107000
7	1.316807000	1.515520000	-3.633439000
7	1.617269000	1.877736000	-6.446219000
7	-0.361117000	3.911261000	-6.368740000
6	-1.016785000	5.017790000	-3.719918000
6	-0.926789000	5.747811000	-2.476655000
6	-0.388237000	4.902294000	-1.539210000
6	-0.128058000	3.639720000	-2.191211000
6	0.766133000	1.358796000	-2.376240000
6	0.908407000	-0.027325000	-1.984991000
6	1.621687000	-0.659282000	-2.969262000
6	1.925787000	0.326729000	-3.983862000
6	2.707936000	1.064078000	-6.192142000
6	3.649716000	1.212849000	-7.277901000
6	3.073263000	2.034149000	-8.213951000
6	-0.383352000	3.583395000	-7.706705000
6	0.729795000	3.065673000	-8.400236000
6	-1.653268000	3.995768000	-8.261681000
6	-2.327498000	4.666649000	-7.276533000
6	-1.483580000	4.663229000	-6.102175000
6	-1.673523000	5.387012000	-4.906347000
6	0.263729000	2.422138000	-1.601765000
6	2.770448000	0.176515000	-5.101314000
17	0.187952000	-0.840593000	-0.647704000
6	1.765645000	2.401101000	-7.721668000
17	1.905119000	-2.358334000	-3.010033000
17	-1.264059000	7.412182000	-2.180166000
17	-3.950932000	5.222558000	-7.419860000
17	3.889222000	2.606956000	-9.618284000
17	5.270128000	0.636901000	-7.374339000
17	-2.325653000	3.595284000	-9.795995000
17	0.026810000	5.386219000	0.061950000
6	3.736819000	-0.957997000	-5.134490000
6	3.640729000	-1.947531000	-6.124568000
6	4.753831000	-1.052897000	-4.172771000
6	4.538025000	-3.013023000	-6.147736000
6	5.660654000	-2.110737000	-4.206069000
6	5.552502000	-3.095312000	-5.190834000
1	2.851271000	-1.883672000	-6.868286000
1	4.837752000	-0.285938000	-3.407823000
1	4.446966000	-3.778558000	-6.913420000
1	6.450460000	-2.167531000	-3.462039000
1	6.255872000	-3.923325000	-5.212630000
6	0.137537000	2.251149000	-0.126215000
6	-1.119702000	2.310758000	0.493875000
6	1.275873000	2.024439000	0.662016000
6	-1.236536000	2.138341000	1.871583000
6	1.159823000	1.867564000	2.041811000
6	-0.096861000	1.919837000	2.649368000

1	-2.005992000	2.478795000	-0.111664000
1	2.252945000	1.984048000	0.188620000
1	-2.216852000	2.175767000	2.338674000
1	2.049911000	1.702226000	2.642645000
1	-0.187849000	1.790987000	3.724510000
6	-2.575971000	6.571603000	-4.934509000
6	-2.270192000	7.652219000	-5.778092000
6	-3.735200000	6.618629000	-4.145896000
6	-3.109722000	8.765077000	-5.817172000
6	-4.579411000	7.725110000	-4.202025000
6	-4.265813000	8.802876000	-5.034501000
1	-1.372511000	7.616398000	-6.390998000
1	-3.979417000	5.778330000	-3.501749000
1	-2.862671000	9.601554000	-6.465294000
1	-5.481483000	7.747428000	-3.596601000
1	-4.922566000	9.667911000	-5.074090000
8	0.802253000	6.856596000	-7.554440000
6	0.805341000	3.270862000	-9.872865000
6	0.811134000	4.577638000	-10.386388000
6	0.858273000	2.183312000	-10.757069000
6	0.883469000	4.788195000	-11.762349000
6	0.913399000	2.398050000	-12.132403000
6	0.931615000	3.700714000	-12.637758000
1	0.760183000	5.414725000	-9.694578000
1	0.842254000	1.170894000	-10.362889000
1	0.895438000	5.802422000	-12.152399000
1	0.942842000	1.549511000	-12.810510000
1	0.979826000	3.866722000	-13.710691000
8	2.209036000	4.165497000	-4.718326000
8	2.392559000	5.570682000	-5.615160000
1	1.570252000	7.194461000	-8.039361000
1	1.200312000	6.281354000	-6.864971000
6	2.271759000	8.373310000	-4.121538000
6	3.240368000	8.000190000	-3.192022000
6	4.598755000	8.209552000	-3.409550000
6	5.092375000	8.841349000	-4.682080000
6	4.091767000	8.647593000	-5.836662000
6	2.657702000	9.026227000	-5.421947000
1	1.216952000	8.261959000	-3.882848000
1	2.474864000	6.162356000	-4.836871000
1	2.921248000	7.549152000	-2.253654000
1	5.319314000	7.938603000	-2.642287000
1	6.072526000	8.429865000	-4.957064000
1	5.261067000	9.919804000	-4.515167000
1	4.403923000	9.231856000	-6.710595000
1	4.101500000	7.590465000	-6.133953000
1	1.943891000	8.741046000	-6.204431000
1	2.576572000	10.122384000	-5.319359000

²P_{2A1}⁰

23	1.076347000	3.299824000	-4.852698000
7	-0.322552000	3.986218000	-3.467261000
7	1.381246000	1.703993000	-3.562097000
7	1.823435000	2.059141000	-6.352733000
7	-0.147025000	4.117257000	-6.305360000
6	-0.966853000	5.187983000	-3.676990000
6	-0.888745000	5.973135000	-2.461479000
6	-0.284192000	5.194475000	-1.509802000
6	-0.005198000	3.907526000	-2.116867000
6	0.775644000	1.575502000	-2.333445000
6	0.728898000	0.205696000	-1.979035000
6	1.397823000	-0.499718000	-2.979293000
6	1.849931000	0.450896000	-3.930379000

6	2.842550000	1.172566000	-6.070968000
6	3.872761000	1.318337000	-7.079004000
6	3.415496000	2.217759000	-8.006542000
6	-0.089894000	3.793235000	-7.642282000
6	1.125981000	3.351354000	-8.296781000
6	-1.334357000	4.099716000	-8.245383000
6	-2.129837000	4.699396000	-7.265318000
6	-1.356441000	4.758293000	-6.076604000
6	-1.629454000	5.492565000	-4.876380000
6	0.395853000	2.713914000	-1.520264000
6	2.774995000	0.259022000	-5.006560000
17	-0.077548000	-0.534614000	-0.644264000
6	2.085366000	2.623331000	-7.594585000
17	1.502784000	-2.221008000	-3.036462000
17	-1.303693000	7.626088000	-2.230851000
17	-3.779183000	5.141399000	-7.505543000
17	4.362445000	2.818161000	-9.310966000
17	5.460189000	0.651472000	-7.084739000
17	-1.879454000	3.727893000	-9.839441000
17	0.167598000	5.759082000	0.052287000
6	3.666203000	-0.924634000	-4.980376000
6	3.658375000	-1.848284000	-6.038955000
6	4.523442000	-1.146107000	-3.889046000
6	4.484127000	-2.969123000	-6.003935000
6	5.366806000	-2.253696000	-3.868672000
6	5.345178000	-3.171223000	-4.922609000
1	2.987942000	-1.691575000	-6.879118000
1	4.533402000	-0.436684000	-3.066768000
1	4.457805000	-3.683865000	-6.821686000
1	6.037419000	-2.404969000	-3.027441000
1	5.995348000	-4.041493000	-4.899778000
6	0.432252000	2.552349000	-0.047839000
6	-0.718491000	2.760015000	0.731001000
6	1.619549000	2.149139000	0.587505000
6	-0.681917000	2.570901000	2.110075000
6	1.659784000	1.984081000	1.969609000
6	0.508263000	2.189257000	2.734210000
1	-1.646211000	3.048818000	0.245759000
1	2.512236000	1.980780000	-0.007906000
1	-1.582920000	2.721018000	2.698267000
1	2.588409000	1.689029000	2.450132000
1	0.537307000	2.047569000	3.811088000
6	-2.631611000	6.584710000	-4.913639000
6	-2.459700000	7.682856000	-5.774865000
6	-3.768310000	6.527059000	-4.089492000
6	-3.406213000	8.704753000	-5.795471000
6	-4.723036000	7.539730000	-4.134249000
6	-4.541297000	8.634062000	-4.983632000
1	-1.576913000	7.747126000	-6.405336000
1	-3.908371000	5.674422000	-3.430828000
1	-3.257507000	9.557614000	-6.451864000
1	-5.606686000	7.476456000	-3.505230000
1	-5.282366000	9.428380000	-5.012913000
8	0.344522000	7.312543000	-7.792242000
6	1.303810000	3.680939000	-9.730970000
6	1.288507000	5.022591000	-10.153050000
6	1.461995000	2.660849000	-10.684577000
6	1.449245000	5.328390000	-11.503149000
6	1.596405000	2.973202000	-12.034549000
6	1.596772000	4.308506000	-12.446588000
1	1.171916000	5.821735000	-9.424513000
1	1.455026000	1.623019000	-10.363582000
1	1.452755000	6.368153000	-11.818124000

1	1.701272000	2.175575000	-12.764842000
1	1.707998000	4.552344000	-13.499758000
8	2.271897000	4.329094000	-4.651475000
8	1.476429000	7.067505000	-5.243834000
1	-0.309480000	6.605447000	-7.899702000
1	0.755752000	7.134794000	-6.915262000
6	2.366721000	8.181576000	-4.998507000
6	2.871461000	8.136093000	-3.577371000
6	4.148207000	7.890987000	-3.259238000
6	5.230073000	7.626692000	-4.277007000
6	4.647232000	7.274102000	-5.653823000
6	3.513323000	8.240412000	-6.020124000
1	1.720627000	9.056579000	-5.132878000
1	1.936998000	6.237675000	-5.012626000
1	2.129476000	8.292647000	-2.796377000
1	4.443063000	7.881186000	-2.210172000
1	5.883532000	6.819876000	-3.918944000
1	5.875950000	8.516531000	-4.357261000
1	5.432654000	7.295360000	-6.418279000
1	4.260209000	6.246374000	-5.629254000
1	3.109630000	8.027191000	-7.016242000
1	3.904986000	9.267572000	-6.043530000

Model A3/B3

¹Re_{B3a}⁰

23	-0.148839000	3.192335000	-5.632868000
7	-1.797999000	3.648835000	-4.335143000
7	-0.059112000	1.389628000	-4.347925000
7	0.504284000	1.784600000	-6.971442000
7	-1.668255000	3.591131000	-7.020350000
6	-2.497643000	4.825691000	-4.541406000
6	-2.543035000	5.569027000	-3.305236000
6	-1.983628000	4.774471000	-2.336514000
6	-1.596301000	3.535041000	-2.972412000
6	-0.706012000	1.253578000	-3.133361000
6	-0.635615000	-0.135973000	-2.725113000
6	0.157285000	-0.782646000	-3.631156000
6	0.569243000	0.201741000	-4.605210000
6	1.579730000	0.947747000	-6.673127000
6	2.558688000	1.085382000	-7.724352000
6	2.012696000	1.880223000	-8.700679000
6	-1.542734000	3.268617000	-8.362585000
6	-0.352645000	2.843743000	-8.987558000
6	-2.802358000	3.554833000	-9.014664000
6	-3.611944000	4.162257000	-8.093550000
6	-2.865110000	4.261911000	-6.863366000
6	-3.169283000	5.058929000	-5.744762000
6	-1.230685000	2.318357000	-2.374313000
6	1.559907000	0.058751000	-5.599460000
17	-1.511840000	-0.930087000	-1.473423000
6	0.689803000	2.250563000	-8.262060000
17	0.423981000	-2.482483000	-3.662798000
17	-3.073448000	7.186040000	-3.053480000
17	-5.264834000	4.560600000	-8.361079000
17	2.861438000	2.403073000	-10.102406000
17	4.168580000	0.486039000	-7.766799000
17	-3.323441000	3.085404000	-10.587177000
17	-1.709826000	5.284004000	-0.717769000
6	2.572232000	-1.020801000	-5.455330000
6	2.691280000	-2.036624000	-6.415520000
6	3.407732000	-1.033515000	-4.326118000
6	3.632783000	-3.050029000	-6.253185000
6	4.361985000	-2.040314000	-4.180115000
6	4.475261000	-3.049896000	-5.138209000
1	2.034686000	-2.036269000	-7.281263000
1	3.309308000	-0.260041000	-3.567958000
1	3.710324000	-3.838757000	-6.996535000
1	5.013905000	-2.036998000	-3.311023000
1	5.214381000	-3.837201000	-5.015807000
6	-1.390453000	2.130684000	-0.906465000
6	-2.652334000	2.215384000	-0.298972000
6	-0.260539000	1.856427000	-0.118540000
6	-2.786283000	2.023915000	1.073825000
6	-0.398768000	1.686198000	1.258422000
6	-1.658147000	1.764928000	1.856744000
1	-3.528725000	2.414935000	-0.909420000
1	0.718097000	1.777735000	-0.586719000
1	-3.769377000	2.078320000	1.533291000
1	0.479714000	1.485331000	1.865735000
1	-1.761816000	1.622534000	2.929132000
6	-4.201455000	6.128374000	-5.850969000
6	-3.992979000	7.226522000	-6.698080000
6	-5.391156000	6.050056000	-5.112298000
6	-4.953838000	8.231576000	-6.798111000
6	-6.357418000	7.047456000	-5.225643000

6	-6.139547000	8.142005000	-6.065937000
1	-3.070729000	7.294887000	-7.268317000
1	-5.560330000	5.198305000	-4.459477000
1	-4.777472000	9.082844000	-7.449729000
1	-7.279752000	6.971539000	-4.656460000
1	-6.891285000	8.922140000	-6.149358000
8	0.709405000	4.270606000	-6.409499000
6	-0.219941000	3.002386000	-10.465253000
6	-0.181251000	4.284493000	-11.031829000
6	-0.133155000	1.880324000	-11.302167000
6	-0.048577000	4.440778000	-12.410834000
6	-0.017479000	2.038238000	-12.681308000
6	0.029157000	3.318732000	-13.238440000
1	-0.240686000	5.156101000	-10.386102000
1	-0.170983000	0.884940000	-10.868485000
1	-0.008404000	5.438642000	-12.838677000
1	0.038497000	1.162265000	-13.321598000
1	0.125546000	3.441087000	-14.313814000
8	2.450110000	4.193418000	-2.670069000
8	3.811424000	3.743700000	-2.433301000
1	3.345693000	2.053849000	-1.709987000
1	3.388601000	0.955610000	-0.629969000
6	7.092590000	2.940907000	-5.076652000
6	6.197280000	2.074852000	-4.223182000
6	6.308318000	1.986772000	-2.890283000
6	7.355237000	2.724849000	-2.089411000
6	8.467669000	3.299023000	-2.982554000
6	7.878933000	3.960487000	-4.236583000
1	6.490138000	3.456148000	-5.836942000
1	7.789129000	2.298975000	-5.639791000
1	5.430371000	1.496911000	-4.736273000
1	5.606436000	1.361221000	-2.339544000
1	7.786188000	2.051864000	-1.334535000
1	6.871658000	3.534397000	-1.520396000
1	9.074818000	4.015482000	-2.415600000
1	9.141405000	2.485990000	-3.288217000
1	8.671467000	4.418767000	-4.840821000
1	7.204242000	4.772064000	-3.930252000
6	1.974349000	3.624297000	-3.833841000
8	0.727263000	3.908510000	-3.968318000
8	2.710767000	2.959219000	-4.556717000
1	4.054131000	3.373405000	-3.324024000
8	3.034966000	1.146106000	-1.511652000

¹Re_{B3b}⁰

23	-0.231383000	3.214554000	-5.546796000
7	-1.918386000	3.621673000	-4.268394000
7	-0.046917000	1.469045000	-4.268145000
7	0.509567000	1.832433000	-6.898996000
7	-1.679239000	3.631760000	-6.968549000
6	-2.638134000	4.784693000	-4.487724000
6	-2.723787000	5.527782000	-3.252983000
6	-2.157554000	4.750728000	-2.274654000
6	-1.728558000	3.521253000	-2.903350000
6	-0.717722000	1.297096000	-3.067602000
6	-0.632853000	-0.093929000	-2.683216000
6	0.188530000	-0.714805000	-3.584036000
6	0.608820000	0.287685000	-4.528851000
6	1.627235000	1.062288000	-6.574610000
6	2.633553000	1.266896000	-7.586917000
6	2.072845000	2.043555000	-8.571732000
6	-1.526726000	3.308387000	-8.313251000

6	-0.321849000	2.907534000	-8.917962000
6	-2.785359000	3.548730000	-8.980974000
6	-3.630788000	4.123463000	-8.070428000
6	-2.908668000	4.249565000	-6.829638000
6	-3.275628000	5.017292000	-5.708607000
6	-1.298490000	2.328609000	-2.301551000
6	1.619427000	0.165086000	-5.505603000
17	-1.526159000	-0.922036000	-1.468515000
6	0.719202000	2.333578000	-8.170604000
17	0.470612000	-2.409576000	-3.641882000
17	-3.291400000	7.133697000	-3.014229000
17	-5.293577000	4.455262000	-8.361060000
17	2.936036000	2.641435000	-9.934077000
17	4.276414000	0.772218000	-7.563919000
17	-3.266661000	3.061190000	-10.559739000
17	-1.907740000	5.274716000	-0.658029000
6	2.636676000	-0.908446000	-5.381276000
6	2.801602000	-1.854028000	-6.406698000
6	3.425502000	-0.993734000	-4.221436000
6	3.742264000	-2.872114000	-6.278529000
6	4.380831000	-2.004510000	-4.112187000
6	4.540098000	-2.944321000	-5.133064000
1	2.178209000	-1.797425000	-7.294949000
1	3.297400000	-0.277380000	-3.410409000
1	3.854383000	-3.607071000	-7.070855000
1	4.997739000	-2.058715000	-3.219552000
1	5.280141000	-3.734335000	-5.036119000
6	-1.430506000	2.121835000	-0.837327000
6	-2.680300000	2.197417000	-0.201737000
6	-0.282419000	1.832136000	-0.078297000
6	-2.784967000	1.983997000	1.169596000
6	-0.393033000	1.642196000	1.298375000
6	-1.639517000	1.713198000	1.923872000
1	-3.570047000	2.403904000	-0.790189000
1	0.688438000	1.755865000	-0.562188000
1	-3.758039000	2.029667000	1.650741000
1	0.498868000	1.432243000	1.881884000
1	-1.720607000	1.554715000	2.995947000
6	-4.333876000	6.057200000	-5.835024000
6	-4.142006000	7.157646000	-6.683552000
6	-5.532486000	5.949284000	-5.114186000
6	-5.127214000	8.136665000	-6.801158000
6	-6.523010000	6.920016000	-5.246136000
6	-6.321174000	8.017583000	-6.086642000
1	-3.213350000	7.249010000	-7.240062000
1	-5.689243000	5.095222000	-4.461348000
1	-4.963569000	8.990569000	-7.452547000
1	-7.451743000	6.821231000	-4.691189000
1	-7.091871000	8.777244000	-6.183996000
8	0.743046000	4.270953000	-6.255410000
6	-0.164584000	3.062890000	-10.391734000
6	-0.185256000	4.340839000	-10.969670000
6	0.006697000	1.940464000	-11.215823000
6	-0.027872000	4.493192000	-12.346188000
6	0.145325000	2.093737000	-12.593205000
6	0.132953000	3.370419000	-13.160981000
1	-0.310014000	5.213068000	-10.334190000
1	0.015240000	0.947983000	-10.774140000
1	-0.033443000	5.488105000	-12.782459000
1	0.265661000	1.217325000	-13.223796000
1	0.248198000	3.489298000	-14.234807000
8	2.087297000	3.616990000	-2.306163000
8	3.474566000	3.557104000	-1.982918000

1	3.320450000	1.899478000	-1.662339000
1	3.645032000	0.643891000	-0.806844000
6	8.182925000	1.843460000	-4.953464000
6	6.961260000	1.284006000	-4.260887000
6	6.244246000	1.969861000	-3.363061000
6	6.589053000	3.367021000	-2.910421000
6	8.000835000	3.789365000	-3.346961000
6	8.280134000	3.370197000	-4.797074000
1	8.162531000	1.574868000	-6.019609000
1	9.092178000	1.367349000	-4.550269000
1	6.657231000	0.272628000	-4.530629000
1	5.351103000	1.527693000	-2.925464000
1	6.495316000	3.431614000	-1.817350000
1	5.827832000	4.060221000	-3.295318000
1	8.127258000	4.872924000	-3.227210000
1	8.743322000	3.311921000	-2.690954000
1	9.267818000	3.723045000	-5.121063000
1	7.540511000	3.846227000	-5.456227000
6	1.804637000	3.943276000	-3.519838000
8	0.572569000	4.049453000	-3.818030000
8	2.782570000	4.156907000	-4.379892000
1	2.357328000	4.407477000	-5.229452000
8	3.094709000	0.931594000	-1.550381000

¹TS_{4B3}⁰

23	-0.157814000	3.121329000	-5.933159000
7	-1.551259000	3.690207000	-4.409206000
7	0.175973000	1.427905000	-4.583523000
7	0.278393000	1.610677000	-7.272318000
7	-1.872385000	3.442004000	-7.073935000
6	-2.294111000	4.847368000	-4.580546000
6	-2.126742000	5.689669000	-3.420925000
6	-1.381804000	4.982213000	-2.511225000
6	-1.097694000	3.693865000	-3.104206000
6	-0.202471000	1.412184000	-3.253184000
6	-0.037900000	0.067340000	-2.740326000
6	0.557279000	-0.671272000	-3.723756000
6	0.761265000	0.213004000	-4.846176000
6	1.390837000	0.786062000	-7.108246000
6	2.173984000	0.835587000	-8.319122000
6	1.464684000	1.568596000	-9.239569000
6	-1.978627000	3.018130000	-8.393187000
6	-0.915428000	2.535847000	-9.180460000
6	-3.335141000	3.254152000	-8.834701000
6	-3.982160000	3.926227000	-7.832985000
6	-3.036438000	4.118300000	-6.762385000
6	-3.160864000	4.991539000	-5.665595000
6	-0.578197000	2.541112000	-2.496236000
6	1.553417000	-0.028000000	-5.985964000
17	-0.633739000	-0.595287000	-1.268232000
6	0.238521000	1.982474000	-8.605044000
17	0.821730000	-2.368322000	-3.647785000
17	-2.631349000	7.319899000	-3.207348000
17	-5.661604000	4.298970000	-7.837976000
17	2.058283000	1.986512000	-10.799026000
17	3.751606000	0.215284000	-8.593092000
17	-4.116362000	2.669330000	-10.252691000
17	-0.821582000	5.631475000	-1.023525000
6	2.548930000	-1.133067000	-5.973452000
6	2.429547000	-2.206418000	-6.869777000
6	3.607343000	-1.106979000	-5.050586000
6	3.354784000	-3.246785000	-6.844577000
6	4.541739000	-2.143055000	-5.048763000

6	4.417533000	-3.213081000	-5.937478000
1	1.602287000	-2.229954000	-7.574169000
1	3.698190000	-0.279336000	-4.347368000
1	3.249025000	-4.080930000	-7.532816000
1	5.368075000	-2.114024000	-4.343694000
1	5.144591000	-4.020854000	-5.923194000
6	-0.378041000	2.487935000	-1.024013000
6	-1.453776000	2.613855000	-0.132419000
6	0.922390000	2.300925000	-0.525745000
6	-1.236293000	2.546365000	1.240956000
6	1.134704000	2.258031000	0.851821000
6	0.059883000	2.374815000	1.735670000
1	-2.460433000	2.745869000	-0.519591000
1	1.754287000	2.198805000	-1.219009000
1	-2.075702000	2.629934000	1.925761000
1	2.143100000	2.128946000	1.235194000
1	0.229830000	2.330817000	2.808170000
6	-4.207204000	6.052199000	-5.674766000
6	-4.155385000	7.083368000	-6.624073000
6	-5.254080000	6.031983000	-4.741600000
6	-5.129014000	8.080920000	-6.633912000
6	-6.235358000	7.020812000	-4.763527000
6	-6.173027000	8.049312000	-5.706972000
1	-3.343066000	7.106729000	-7.345198000
1	-5.302498000	5.231432000	-4.008832000
1	-5.073495000	8.881085000	-7.366670000
1	-7.047638000	6.990029000	-4.042725000
1	-6.935517000	8.823267000	-5.719298000
8	0.610070000	4.095818000	-6.950063000
6	-1.044518000	2.578309000	-10.665445000
6	-1.127063000	3.812618000	-11.326079000
6	-1.087711000	1.394333000	-11.416297000
6	-1.242160000	3.860991000	-12.714522000
6	-1.220955000	1.444546000	-12.801879000
6	-1.294097000	2.677875000	-13.454463000
1	-1.086936000	4.732047000	-10.748777000
1	-1.032374000	0.435602000	-10.908410000
1	-1.294247000	4.822388000	-13.217779000
1	-1.265242000	0.521456000	-13.373030000
1	-1.391301000	2.716177000	-14.535962000
8	2.857500000	4.035039000	-3.368439000
8	4.494962000	3.805529000	-3.445184000
1	4.065993000	2.206544000	-3.032799000
1	4.108787000	1.075273000	-1.960024000
6	7.065502000	1.840923000	-3.065066000
6	6.778002000	3.147003000	-3.760585000
6	6.604194000	4.318449000	-3.106001000
6	6.675989000	4.444005000	-1.606962000
6	6.534264000	3.080240000	-0.916970000
6	7.441647000	2.036342000	-1.584881000
1	7.873474000	1.313288000	-3.592828000
1	6.180505000	1.193929000	-3.149725000
1	6.725193000	3.132375000	-4.846103000
1	6.478774000	5.234041000	-3.675277000
1	5.886631000	5.125534000	-1.269471000
1	7.633436000	4.911917000	-1.322726000
1	6.763544000	3.165831000	0.152812000
1	5.486575000	2.765363000	-1.004534000
1	7.390901000	1.076888000	-1.053403000
1	8.485014000	2.376070000	-1.515616000
6	2.294965000	3.987452000	-4.490914000
8	1.000501000	3.918596000	-4.515184000
8	2.996001000	4.006451000	-5.614774000

1	2.359617000	4.098357000	-6.357155000
8	3.686279000	1.303822000	-2.800350000

¹P3_{B3}⁰

23	0.185309000	1.931706000	-4.664523000
7	-0.960530000	3.036068000	-3.362643000
7	0.138819000	0.449597000	-3.227427000
7	0.566771000	0.415635000	-6.009406000
7	-0.922881000	2.811239000	-6.176925000
6	-1.279175000	4.341959000	-3.689327000
6	-1.013146000	5.178696000	-2.540370000
6	-0.638662000	4.352752000	-1.510727000
6	-0.673296000	2.995938000	-2.008763000
6	-0.402099000	0.563724000	-1.962533000
6	-0.593317000	-0.763360000	-1.426272000
6	-0.053761000	-1.647886000	-2.323959000
6	0.473032000	-0.876381000	-3.423970000
6	1.461665000	-0.575116000	-5.640615000
6	2.419515000	-0.740540000	-6.708028000
6	2.020267000	0.066770000	-7.746559000
6	-1.023613000	2.352817000	-7.480078000
6	-0.065397000	1.526901000	-8.098662000
6	-2.177269000	2.969546000	-8.091715000
6	-2.686097000	3.870178000	-7.192210000
6	-1.856557000	3.817242000	-6.010399000
6	-1.886244000	4.693370000	-4.906192000
6	-0.578321000	1.792140000	-1.292841000
6	1.310323000	-1.327478000	-4.463666000
17	-1.477619000	-1.228202000	-0.024521000
6	0.816546000	0.746150000	-7.328760000
17	-0.176059000	-3.359738000	-2.189074000
17	-1.002748000	6.895536000	-2.449331000
17	-4.149772000	4.741920000	-7.430694000
17	2.932614000	0.302763000	-9.190844000
17	3.892462000	-1.636227000	-6.695952000
17	-2.929578000	2.572692000	-9.587726000
17	-0.098331000	4.915642000	0.023975000
6	2.046587000	-2.609468000	-4.288108000
6	1.851368000	-3.680915000	-5.172770000
6	2.942680000	-2.756208000	-3.216543000
6	2.537229000	-4.879474000	-4.989535000
6	3.638644000	-3.952293000	-3.046535000
6	3.436794000	-5.015903000	-3.929178000
1	1.149254000	-3.575025000	-5.995166000
1	3.084159000	-1.930890000	-2.522236000
1	2.370342000	-5.706907000	-5.673677000
1	4.335265000	-4.056749000	-2.219034000
1	3.975190000	-5.949487000	-3.789557000
6	-0.636643000	1.791732000	0.195440000
6	-1.777724000	2.244810000	0.873724000
6	0.460618000	1.318920000	0.933335000
6	-1.824148000	2.222550000	2.265909000
6	0.416299000	1.314513000	2.326847000
6	-0.725289000	1.761902000	2.995735000
1	-2.632276000	2.601344000	0.305251000
1	1.343598000	0.962253000	0.408837000
1	-2.716917000	2.565383000	2.781647000
1	1.272531000	0.955195000	2.891390000
1	-0.760325000	1.749852000	4.081819000
6	-2.591498000	6.000664000	-5.027161000
6	-2.142988000	6.966326000	-5.941343000
6	-3.712969000	6.275623000	-4.229622000
6	-2.805558000	8.188465000	-6.046044000

6	-4.381667000	7.491723000	-4.349577000
6	-3.926612000	8.452642000	-5.256110000
1	-1.268944000	6.764077000	-6.551941000
1	-4.066531000	5.526252000	-3.526509000
1	-2.445071000	8.934465000	-6.748867000
1	-5.255672000	7.690253000	-3.735229000
1	-4.444540000	9.403848000	-5.345888000
8	3.646528000	3.293859000	-6.342318000
6	0.006624000	1.457961000	-9.585243000
6	0.300174000	2.603334000	-10.341530000
6	-0.219298000	0.239732000	-10.245053000
6	0.373559000	2.524918000	-11.731153000
6	-0.161050000	0.168742000	-11.635127000
6	0.139989000	1.310911000	-12.381158000
1	0.484486000	3.547444000	-9.839539000
1	-0.456311000	-0.647217000	-9.663805000
1	0.611646000	3.415293000	-12.306327000
1	-0.349493000	-0.777023000	-12.135783000
1	0.191403000	1.254757000	-13.465204000
8	3.376162000	0.174096000	-1.147704000
8	1.615591000	2.647810000	-4.581876000
1	3.019856000	3.139672000	-5.597866000
1	3.812567000	2.411195000	-6.711092000
6	5.116991000	0.896365000	0.523701000
6	4.774359000	0.181764000	-0.774705000
6	4.302643000	0.923565000	-1.960202000
6	4.166706000	2.430104000	-1.935721000
6	4.088952000	2.993815000	-0.507577000
6	5.213986000	2.426039000	0.368460000
1	6.063961000	0.499030000	0.910061000
1	4.347083000	0.636295000	1.262553000
1	5.256455000	-0.784660000	-0.932164000
1	4.467177000	0.479375000	-2.944115000
1	3.289241000	2.723732000	-2.524669000
1	5.044629000	2.847733000	-2.450581000
1	4.154384000	4.087294000	-0.546632000
1	3.114574000	2.752263000	-0.065845000
1	5.206093000	2.896216000	1.359145000
1	6.180688000	2.680827000	-0.089382000
6	1.379567000	5.400545000	-7.621411000
8	1.270212000	5.694475000	-6.398930000
8	2.264995000	4.585870000	-8.127496000
1	2.828211000	4.135398000	-7.403236000
8	0.519793000	5.969650000	-8.356470000

²Re_{B3a}⁻¹

23	-0.313160000	2.962960000	-6.124183000
7	-1.541524000	3.498412000	-4.522472000
7	-0.361963000	0.978959000	-4.967829000
7	-0.054413000	1.584101000	-7.676646000
7	-1.947995000	3.613681000	-7.286410000
6	-2.133906000	4.742128000	-4.556337000
6	-1.941188000	5.368044000	-3.264459000
6	-1.355568000	4.439056000	-2.443872000
6	-1.183640000	3.224889000	-3.218385000
6	-0.720576000	0.841948000	-3.654368000
6	-0.686859000	-0.572773000	-3.307197000
6	-0.196183000	-1.237730000	-4.392756000
6	0.079531000	-0.236115000	-5.413625000
6	0.864029000	0.557030000	-7.606881000
6	1.639697000	0.562506000	-8.831184000
6	1.084753000	1.501782000	-9.661178000
6	-2.088880000	3.415495000	-8.639603000
6	-1.091158000	2.865605000	-9.474034000
6	-3.344631000	4.013529000	-9.053678000
6	-3.864347000	4.661296000	-7.967936000
6	-2.935867000	4.474549000	-6.868522000
6	-2.922904000	5.168441000	-5.638367000
6	-0.907696000	1.925380000	-2.764535000
6	0.842610000	-0.409137000	-6.589177000
17	-1.294622000	-1.354398000	-1.890776000
6	-0.041470000	2.084167000	-8.961313000
17	-0.106159000	-2.959925000	-4.511428000
17	-2.254241000	7.001684000	-2.797664000
17	-5.429056000	5.397309000	-7.946318000
17	1.740800000	1.931068000	-11.200917000
17	3.061234000	-0.333759000	-9.216449000
17	-4.179490000	3.839044000	-10.557956000
17	-0.859368000	4.776313000	-0.826673000
6	1.656122000	-1.654349000	-6.739903000
6	1.282592000	-2.654015000	-7.648192000
6	2.806864000	-1.829539000	-5.958521000
6	2.039690000	-3.818386000	-7.766271000
6	3.568149000	-2.991240000	-6.086686000
6	3.185299000	-3.989431000	-6.985394000
1	0.389757000	-2.519510000	-8.253151000
1	3.102530000	-1.035033000	-5.280773000
1	1.736345000	-4.591409000	-8.468166000
1	4.463143000	-3.116326000	-5.482366000
1	3.778124000	-4.896245000	-7.079303000
6	-0.762119000	1.667469000	-1.299081000
6	-1.865276000	1.684986000	-0.434715000
6	0.511400000	1.400997000	-0.777617000
6	-1.697367000	1.432299000	0.925733000
6	0.681753000	1.161478000	0.586043000
6	-0.423487000	1.171945000	1.439285000
1	-2.855335000	1.887073000	-0.835013000
1	1.378695000	1.405670000	-1.429974000
1	-2.561286000	1.440439000	1.586143000
1	1.684287000	0.971586000	0.958091000
1	-0.294886000	0.979479000	2.501941000
6	-3.784089000	6.381271000	-5.485957000
6	-3.481442000	7.554136000	-6.191691000
6	-4.903805000	6.367591000	-4.642321000
6	-4.278534000	8.690026000	-6.053284000
6	-5.707130000	7.498836000	-4.511881000
6	-5.395415000	8.664551000	-5.215672000
1	-2.611226000	7.572191000	-6.841791000

1	-5.145248000	5.460582000	-4.095085000
1	-4.027272000	9.594866000	-6.600855000
1	-6.575764000	7.471343000	-3.858788000
1	-6.019443000	9.548670000	-5.110743000
8	0.541206000	4.210734000	-6.615654000
6	-1.174331000	3.106717000	-10.947359000
6	-0.951143000	4.390108000	-11.465362000
6	-1.479013000	2.062233000	-11.831672000
6	-1.026101000	4.622723000	-12.838399000
6	-1.565417000	2.296366000	-13.202694000
6	-1.336545000	3.577415000	-13.710506000
1	-0.708542000	5.201622000	-10.785064000
1	-1.655991000	1.065935000	-11.436079000
1	-0.843131000	5.621479000	-13.226618000
1	-1.809072000	1.478013000	-13.875567000
1	-1.399336000	3.759545000	-14.780544000
8	3.175312000	2.703753000	-3.325143000
8	4.430580000	1.963042000	-3.206555000
1	4.116297000	1.519588000	-1.386292000
1	3.373768000	2.512216000	-0.523941000
6	9.296005000	4.041359000	-0.479663000
6	8.062895000	3.274947000	-0.058200000
6	6.876175000	3.390202000	-0.665606000
6	6.621273000	4.328311000	-1.820457000
6	7.760599000	5.341945000	-2.013224000
6	9.131091000	4.663906000	-1.876006000
1	10.171938000	3.375844000	-0.465970000
1	9.518206000	4.831193000	0.257772000
1	8.171665000	2.587280000	0.780860000
1	6.033000000	2.781550000	-0.340442000
1	5.669782000	4.854727000	-1.661886000
1	6.460840000	3.736920000	-2.733567000
1	7.669088000	5.834899000	-2.989372000
1	7.677869000	6.131729000	-1.252049000
1	9.941555000	5.378600000	-2.072375000
1	9.215101000	3.872102000	-2.633680000
6	2.495921000	2.280310000	-4.503431000
8	1.422005000	2.897657000	-4.628630000
8	3.058870000	1.396509000	-5.176550000
1	4.322210000	1.405103000	-4.032665000
8	3.839594000	1.664306000	-0.457194000

²TS_{B3}⁻¹

23	-0.265947000	2.904173000	-5.592666000
7	-1.653519000	3.443806000	-4.147550000
7	-0.503996000	0.918648000	-4.493015000
7	0.182613000	1.546092000	-7.099356000
7	-1.781102000	3.531814000	-6.924179000
6	-2.240878000	4.688289000	-4.246363000
6	-2.177720000	5.317452000	-2.945242000
6	-1.676097000	4.391489000	-2.065634000
6	-1.427353000	3.174824000	-2.813810000
6	-0.948792000	0.785865000	-3.206047000
6	-0.831689000	-0.613851000	-2.813672000
6	-0.161042000	-1.250358000	-3.814196000
6	0.126183000	-0.247176000	-4.832880000
6	1.157842000	0.587446000	-6.904297000
6	2.051469000	0.617573000	-8.046691000
6	1.513556000	1.489567000	-8.959304000
6	-1.807310000	3.294955000	-8.279468000
6	-0.730927000	2.751183000	-9.012791000
6	-3.032395000	3.859662000	-8.812902000
6	-3.646690000	4.533106000	-7.793762000

6	-2.812915000	4.387859000	-6.616356000
6	-2.919050000	5.103719000	-5.403562000
6	-1.192797000	1.875175000	-2.339229000
6	1.090820000	-0.350194000	-5.861258000
17	-1.527936000	-1.411007000	-1.448403000
6	0.294119000	2.019623000	-8.389407000
17	0.113961000	-2.952563000	-3.870445000
17	-2.540583000	6.951326000	-2.519074000
17	-5.213351000	5.252569000	-7.921527000
17	2.276921000	1.907347000	-10.451117000
17	3.547340000	-0.200820000	-8.280920000
17	-3.737997000	3.625160000	-10.373321000
17	-1.364001000	4.732678000	-0.403945000
6	2.119060000	-1.434610000	-5.770891000
6	2.062308000	-2.583008000	-6.572091000
6	3.182036000	-1.271017000	-4.872165000
6	3.052747000	-3.557924000	-6.467637000
6	4.183711000	-2.239118000	-4.782063000
6	4.116227000	-3.385547000	-5.575412000
1	1.238557000	-2.711821000	-7.269679000
1	3.259583000	-0.377851000	-4.258479000
1	2.997979000	-4.449959000	-7.087596000
1	5.002727000	-2.051920000	-4.093474000
1	4.892602000	-4.144371000	-5.505816000
6	-1.074608000	1.635900000	-0.866932000
6	-2.192770000	1.590513000	-0.025258000
6	0.206395000	1.457875000	-0.323914000
6	-2.035833000	1.364429000	1.341119000
6	0.360838000	1.242111000	1.045908000
6	-0.758153000	1.191877000	1.879731000
1	-3.185393000	1.724844000	-0.446740000
1	1.072080000	1.508268000	-0.979776000
1	-2.910247000	1.324122000	1.986008000
1	1.357420000	1.113018000	1.459812000
1	-0.635872000	1.018827000	2.946233000
6	-3.790770000	6.316903000	-5.354460000
6	-3.426591000	7.474883000	-6.055735000
6	-4.982507000	6.317902000	-4.615716000
6	-4.233909000	8.611372000	-6.014774000
6	-5.795470000	7.449194000	-4.583909000
6	-5.422160000	8.600428000	-5.281679000
1	-2.501774000	7.480995000	-6.625797000
1	-5.272272000	5.422260000	-4.073284000
1	-3.934979000	9.504718000	-6.557101000
1	-6.720006000	7.433304000	-4.012328000
1	-6.054156000	9.484595000	-5.253145000
8	0.639136000	4.181466000	-5.987246000
6	-0.693328000	2.952530000	-10.493574000
6	-0.470049000	4.229611000	-11.027086000
6	-0.883021000	1.874472000	-11.369672000
6	-0.431828000	4.423370000	-12.407480000
6	-0.856980000	2.069786000	-12.749196000
6	-0.628676000	3.344811000	-13.272174000
1	-0.316339000	5.067261000	-10.352534000
1	-1.058306000	0.882809000	-10.961892000
1	-0.249425000	5.417512000	-12.807460000
1	-1.011957000	1.225859000	-13.416598000
1	-0.603376000	3.496514000	-14.348420000
8	3.294438000	2.167983000	-3.238972000
8	4.961458000	2.481501000	-3.371415000
1	5.299728000	0.856201000	-3.054340000
1	4.859706000	-0.121811000	-1.964600000
6	7.044406000	4.107284000	-1.993977000

6	7.081463000	2.846601000	-2.820485000
6	6.938659000	2.837748000	-4.167550000
6	6.732609000	4.085509000	-4.987032000
6	6.300558000	5.273357000	-4.115364000
6	7.173435000	5.374894000	-2.856388000
1	7.844846000	4.084227000	-1.237910000
1	6.096141000	4.125897000	-1.439854000
1	7.236541000	1.905848000	-2.299686000
1	7.042470000	1.900145000	-4.707366000
1	5.969336000	3.888576000	-5.748205000
1	7.664306000	4.329044000	-5.528746000
1	6.348051000	6.206879000	-4.693282000
1	5.258119000	5.109563000	-3.824628000
1	6.902633000	6.260780000	-2.265375000
1	8.225178000	5.506849000	-3.155065000
6	2.550113000	2.784960000	-4.066461000
8	1.299649000	2.567055000	-4.083988000
8	3.092258000	3.662250000	-4.918887000
1	2.330566000	4.041714000	-5.418876000
8	5.469670000	-0.076930000	-2.715959000

$^2P_{3B_3}^{-1}$

23	0.223505000	1.852937000	-4.535458000
7	-0.991212000	2.960800000	-3.270375000
7	0.068820000	0.340726000	-3.113373000
7	0.666739000	0.342357000	-5.877876000
7	-0.788971000	2.759786000	-6.092902000
6	-1.267831000	4.272697000	-3.601189000
6	-1.062384000	5.091315000	-2.425837000
6	-0.753407000	4.248074000	-1.389533000
6	-0.772599000	2.898392000	-1.905483000
6	-0.523422000	0.458643000	-1.871818000
6	-0.757628000	-0.867240000	-1.354673000
6	-0.202706000	-1.755466000	-2.238771000
6	0.381726000	-0.987786000	-3.311307000
6	1.486290000	-0.702064000	-5.483878000
6	2.458275000	-0.932024000	-6.529970000
6	2.142796000	-0.108526000	-7.577606000
6	-0.780557000	2.354656000	-7.412420000
6	0.176497000	1.492050000	-7.978952000
6	-1.843719000	3.051527000	-8.106169000
6	-2.395081000	3.937220000	-7.224583000
6	-1.679226000	3.805891000	-5.974672000
6	-1.773603000	4.655869000	-4.855281000
6	-0.713049000	1.685328000	-1.201181000
6	1.250843000	-1.452200000	-4.322883000
17	-1.705984000	-1.329997000	0.013489000
6	0.978707000	0.657570000	-7.183239000
17	-0.369177000	-3.470715000	-2.115834000
17	-1.041534000	6.809394000	-2.298909000
17	-3.800057000	4.878115000	-7.562051000
17	3.083576000	0.023652000	-9.006020000
17	3.867113000	-1.930513000	-6.481785000
17	-2.469167000	2.760826000	-9.686960000
17	-0.287508000	4.790470000	0.183780000
6	1.940967000	-2.757823000	-4.111081000
6	1.719813000	-3.844456000	-4.969381000
6	2.816454000	-2.911332000	-3.024440000
6	2.359391000	-5.062214000	-4.747288000
6	3.465592000	-4.127402000	-2.812492000
6	3.237822000	-5.205711000	-3.670391000
1	1.036896000	-3.731208000	-5.806761000

1	2.978716000	-2.072525000	-2.351434000
1	2.173690000	-5.899146000	-5.415725000
1	4.146683000	-4.233905000	-1.971883000
1	3.740374000	-6.154721000	-3.499916000
6	-0.816753000	1.669582000	0.286463000
6	-1.977434000	2.112018000	0.937610000
6	0.257659000	1.193437000	1.054968000
6	-2.065829000	2.077895000	2.327774000
6	0.171736000	1.172730000	2.446658000
6	-0.989396000	1.611780000	3.086631000
1	-2.813793000	2.474158000	0.346134000
1	1.157930000	0.842791000	0.556426000
1	-2.974471000	2.416428000	2.819199000
1	1.012628000	0.808755000	3.031502000
1	-1.056419000	1.589435000	4.171605000
6	-2.422397000	5.991831000	-5.002116000
6	-1.843152000	6.960960000	-5.837088000
6	-3.603844000	6.286143000	-4.304510000
6	-2.448951000	8.212220000	-5.957091000
6	-4.210107000	7.532890000	-4.444110000
6	-3.630065000	8.500716000	-5.269249000
1	-0.920381000	6.716091000	-6.367146000
1	-4.050995000	5.530635000	-3.662885000
1	-1.992473000	8.961404000	-6.598963000
1	-5.131216000	7.750277000	-3.908419000
1	-4.099960000	9.476296000	-5.374459000
8	2.921174000	3.032733000	-7.097133000
6	0.338079000	1.449895000	-9.462435000
6	0.870225000	2.552923000	-10.145894000
6	-0.034877000	0.301122000	-10.176097000
6	1.019729000	2.493400000	-11.532301000
6	0.104278000	0.256231000	-11.561721000
6	0.634551000	1.354954000	-12.243370000
1	1.194586000	3.437326000	-9.597486000
1	-0.447369000	-0.550981000	-9.641339000
1	1.443679000	3.347303000	-12.054473000
1	-0.197541000	-0.634471000	-12.107751000
1	0.749250000	1.320254000	-13.324582000
8	3.343975000	0.125128000	-1.087014000
8	1.628689000	2.555897000	-4.314505000
1	2.623510000	3.782328000	-7.671198000
1	2.586469000	3.280916000	-6.221129000
6	5.654655000	0.703204000	-0.278636000
6	4.741715000	0.281660000	-1.420466000
6	3.727897000	1.195516000	-1.980273000
6	3.573852000	2.601403000	-1.444554000
6	4.170212000	2.766732000	-0.038389000
6	5.601390000	2.214253000	0.016978000
1	6.684520000	0.406577000	-0.516927000
1	5.364276000	0.129826000	0.612656000
1	5.115345000	-0.521555000	-2.058530000
1	3.400306000	1.049147000	-3.008135000
1	2.512985000	2.877040000	-1.459424000
1	4.074396000	3.279702000	-2.149504000
1	4.163054000	3.827866000	0.238234000
1	3.541737000	2.243710000	0.693504000
1	6.058082000	2.414771000	0.994759000
1	6.210653000	2.746866000	-0.727430000
6	1.235015000	5.809125000	-8.047593000
8	2.082638000	5.144786000	-8.714529000
8	0.952765000	7.082615000	-8.569815000
1	1.523433000	7.131739000	-9.354253000
8	0.619058000	5.506975000	-7.011093000

Model A2'/B2' and Model A2''/B2''

Re_{B2''}

23	0.272685000	3.533769000	-6.018984000
7	-0.736832000	4.650639000	-4.562844000
7	1.674201000	2.863368000	-4.578596000
7	1.307207000	2.485866000	-7.474117000
7	-1.318587000	3.815815000	-7.388103000
6	-1.807136000	5.444887000	-4.839407000
6	-1.885309000	6.431462000	-3.763242000
6	-0.912211000	6.123077000	-2.850969000
6	-0.210247000	4.938250000	-3.341302000
6	1.494279000	3.071330000	-3.241965000
6	2.291297000	2.057137000	-2.548107000
6	2.963116000	1.339599000	-3.498384000
6	2.599317000	1.894885000	-4.799525000
6	2.584339000	2.010761000	-7.307413000
6	3.171697000	1.893906000	-8.634680000
6	2.199222000	2.202528000	-9.547318000
6	-1.427255000	3.177745000	-8.580812000
6	-0.320584000	2.700879000	-9.329200000
6	-2.840723000	3.189989000	-8.950052000
6	-3.504838000	3.903877000	-7.991644000
6	-2.515626000	4.347677000	-7.006743000
6	-2.713580000	5.234510000	-5.913851000
6	0.747576000	4.134236000	-2.665471000
6	3.147107000	1.597211000	-6.073712000
17	2.325534000	1.650756000	-0.864611000
6	0.985126000	2.519203000	-8.808518000
17	3.919916000	-0.058619000	-3.138425000
17	-2.868900000	7.852725000	-3.650788000
17	-5.230025000	4.057715000	-7.960310000
17	2.505204000	2.328047000	-11.246876000
17	4.819649000	1.595551000	-9.074470000
17	-3.638275000	2.353938000	-10.240513000
17	-0.550914000	7.119708000	-1.481139000
6	4.397096000	0.774665000	-6.113006000
6	4.372454000	-0.539267000	-6.601921000
6	5.612314000	1.301177000	-5.652633000
6	5.533854000	-1.309720000	-6.627643000
6	6.777096000	0.536069000	-5.688986000
6	6.740973000	-0.773045000	-6.174215000
1	3.432849000	-0.955308000	-6.954709000
1	5.638840000	2.319049000	-5.273657000
1	5.496843000	-2.329312000	-7.003411000
1	7.713204000	0.961641000	-5.335899000
1	7.648319000	-1.371860000	-6.198179000
6	0.971271000	4.414476000	-1.211266000
6	-0.020054000	4.120088000	-0.264369000
6	2.179646000	4.974023000	-0.773285000
6	0.193874000	4.372970000	1.089403000
6	2.390257000	5.239062000	0.579270000
6	1.399095000	4.936187000	1.515250000
1	-0.956958000	3.682386000	-0.597584000
1	2.950423000	5.207223000	-1.502634000
1	-0.581498000	4.132080000	1.812549000
1	3.330034000	5.679876000	0.902763000
1	1.564826000	5.137889000	2.570883000
6	-4.002718000	5.996213000	-5.879449000
6	-4.246240000	7.021845000	-6.803513000
6	-4.987176000	5.695350000	-4.927564000

6	-5.444125000	7.734679000	-6.773232000
6	-6.190172000	6.398712000	-4.904127000
6	-6.421210000	7.422875000	-5.825457000
1	-3.485311000	7.261670000	-7.540990000
1	-4.805358000	4.898329000	-4.211969000
1	-5.615741000	8.532516000	-7.491685000
1	-6.947287000	6.148682000	-4.164917000
1	-7.357779000	7.975084000	-5.804602000
6	-0.557333000	2.353413000	-10.765776000
6	-0.828539000	3.357289000	-11.706220000
6	-0.520746000	1.018632000	-11.193573000
6	-1.048017000	3.035698000	-13.044828000
6	-0.752035000	0.694492000	-12.529440000
6	-1.012975000	1.702671000	-13.460146000
1	-0.856561000	4.393475000	-11.380811000
1	-0.316994000	0.235586000	-10.468495000
1	-1.249054000	3.826198000	-13.763726000
1	-0.726721000	-0.345809000	-12.844564000
1	-1.188916000	1.450800000	-14.503248000
8	1.576203000	4.944344000	-5.912923000
8	0.607733000	5.243448000	-6.818923000
8	-0.633759000	2.278063000	-5.487143000
6	4.629256000	6.523089000	-5.789791000
6	4.989467000	7.987750000	-5.838755000
6	5.639441000	8.559899000	-6.858689000
6	6.119582000	7.796569000	-8.071294000
6	6.103777000	6.276415000	-7.836982000
6	4.799198000	5.840711000	-7.155808000
1	3.594685000	6.394929000	-5.449406000
1	5.258317000	6.022794000	-5.033766000
1	4.686054000	8.600249000	-4.989071000
1	5.840330000	9.631629000	-6.836490000
1	7.132421000	8.129268000	-8.343947000
1	5.485533000	8.047618000	-8.937370000
1	6.241822000	5.745582000	-8.787392000
1	6.955080000	6.004754000	-7.195521000
1	4.764422000	4.751618000	-7.039067000
1	3.946806000	6.108367000	-7.793598000

TS1_{B2''}

23	0.597971000	1.959852000	-5.598731000
7	-0.067612000	3.302006000	-4.098247000
7	2.253591000	1.525691000	-4.387684000
7	1.668386000	1.225637000	-7.264063000
7	-0.686757000	2.926334000	-6.928893000
6	-0.929421000	4.344946000	-4.342522000
6	-0.669809000	5.372477000	-3.386132000
6	0.315094000	4.899326000	-2.530114000
6	0.660591000	3.584451000	-2.966439000
6	2.151249000	1.602803000	-3.005207000
6	2.833545000	0.436369000	-2.463564000
6	3.404060000	-0.240045000	-3.503132000
6	3.099282000	0.479134000	-4.731630000
6	2.979781000	0.825270000	-7.185790000
6	3.584936000	1.024215000	-8.466338000
6	2.602016000	1.498542000	-9.317427000
6	-0.922111000	2.372377000	-8.180837000
6	0.073535000	1.889564000	-9.030738000
6	-2.352055000	2.456414000	-8.440005000
6	-2.925635000	3.130116000	-7.402526000
6	-1.869046000	3.489310000	-6.467038000
6	-1.967157000	4.299209000	-5.335106000

6	1.530841000	2.642366000	-2.317134000
6	3.567404000	0.228816000	-6.020318000
17	2.803032000	-0.163318000	-0.839069000
6	1.392685000	1.586933000	-8.559514000
17	4.167193000	-1.784822000	-3.328203000
17	-1.306018000	6.991550000	-3.326892000
17	-4.637835000	3.311665000	-7.211510000
17	2.902283000	2.023273000	-10.947122000
17	5.259326000	0.886468000	-8.911015000
17	-3.260852000	1.697703000	-9.704486000
17	1.045467000	5.861328000	-1.278729000
6	4.722916000	-0.689930000	-6.226755000
6	4.589948000	-1.833909000	-7.030250000
6	5.973446000	-0.423379000	-5.646949000
6	5.669010000	-2.691309000	-7.236431000
6	7.056226000	-1.274862000	-5.859106000
6	6.907838000	-2.414557000	-6.652664000
1	3.627340000	-2.048092000	-7.485862000
1	6.090471000	0.465892000	-5.033812000
1	5.543198000	-3.577066000	-7.854626000
1	8.018217000	-1.047559000	-5.405525000
1	7.751695000	-3.080471000	-6.817548000
6	1.753953000	2.808677000	-0.852957000
6	0.672392000	2.774167000	0.042323000
6	3.041017000	3.026782000	-0.335993000
6	0.872988000	2.938463000	1.411523000
6	3.242775000	3.199387000	1.032222000
6	2.159500000	3.153251000	1.912535000
1	-0.328213000	2.608553000	-0.346925000
1	3.883283000	3.068221000	-1.021063000
1	0.023532000	2.898737000	2.089330000
1	4.247205000	3.371934000	1.411910000
1	2.315877000	3.286261000	2.980511000
6	-3.173941000	5.143549000	-5.111182000
6	-3.559300000	6.122523000	-6.041455000
6	-3.942502000	4.995574000	-3.944650000
6	-4.677422000	6.923827000	-5.817641000
6	-5.065366000	5.790105000	-3.722392000
6	-5.437300000	6.759496000	-4.657479000
1	-2.968580000	6.252906000	-6.944191000
1	-3.653074000	4.243650000	-3.216107000
1	-4.955604000	7.678500000	-6.549720000
1	-5.651845000	5.652702000	-2.817036000
1	-6.310714000	7.383151000	-4.481944000
6	-0.214016000	1.669781000	-10.476164000
6	-0.629437000	2.727836000	-11.300274000
6	-0.050412000	0.399829000	-11.052995000
6	-0.879502000	2.523775000	-12.656090000
6	-0.308416000	0.191538000	-12.406491000
6	-0.722828000	1.253326000	-13.214676000
1	-0.747219000	3.717350000	-10.867137000
1	0.273850000	-0.425391000	-10.425397000
1	-1.195909000	3.357953000	-13.278075000
1	-0.185164000	-0.801609000	-12.831901000
1	-0.919341000	1.092118000	-14.272061000
8	2.180676000	4.577931000	-6.636774000
8	2.316112000	3.312410000	-5.582539000
8	-0.269064000	0.667800000	-5.229732000
6	3.845194000	6.072083000	-7.736837000
6	3.334956000	5.462658000	-6.453278000
6	2.025886000	5.848182000	-5.890295000
6	1.131983000	6.858931000	-6.578933000
6	1.844075000	7.626624000	-7.708684000

6	2.719393000	6.706183000	-8.572484000
1	4.378437000	5.303850000	-8.309670000
1	4.585385000	6.837293000	-7.459518000
1	4.054802000	5.001833000	-5.783458000
1	1.844491000	5.630590000	-4.843462000
1	0.747663000	7.550226000	-5.820643000
1	0.262233000	6.313098000	-6.964907000
1	1.097839000	8.137419000	-8.328517000
1	2.477832000	8.412553000	-7.272001000
1	3.159073000	7.267256000	-9.405519000
1	2.103901000	5.911783000	-9.011382000

P1B2"

23	0.213699000	2.351443000	-5.890812000
7	-0.780929000	3.394893000	-4.396945000
7	1.808635000	2.028346000	-4.481784000
7	1.179503000	1.361219000	-7.534469000
7	-1.413172000	2.655897000	-7.142894000
6	-1.881632000	4.184367000	-4.622304000
6	-1.894696000	5.228107000	-3.615296000
6	-0.855299000	4.985019000	-2.760161000
6	-0.169762000	3.787559000	-3.218543000
6	1.714598000	2.149111000	-3.142457000
6	2.632768000	1.185823000	-2.544637000
6	3.274990000	0.554671000	-3.573586000
6	2.763330000	1.117070000	-4.832362000
6	2.504227000	1.069704000	-7.384346000
6	3.075636000	1.063147000	-8.738158000
6	2.060789000	1.311652000	-9.621823000
6	-1.546040000	2.035146000	-8.372972000
6	-0.497866000	1.655834000	-9.249001000
6	-2.970045000	1.921686000	-8.642890000
6	-3.642208000	2.534917000	-7.621731000
6	-2.650697000	3.055338000	-6.700094000
6	-2.862629000	3.920932000	-5.604106000
6	0.866439000	3.104441000	-2.533584000
6	3.183908000	0.798418000	-6.156989000
17	2.810831000	0.746492000	-0.877960000
6	0.842808000	1.469978000	-8.836307000
17	4.344277000	-0.784357000	-3.318787000
17	-2.884473000	6.646486000	-3.536847000
17	-5.364863000	2.494348000	-7.452767000
17	2.295651000	1.541452000	-11.324007000
17	4.735104000	0.963463000	-9.232836000
17	-3.770399000	1.035321000	-9.896578000
17	-0.405103000	6.074673000	-1.492170000
6	4.490485000	0.078172000	-6.281209000
6	4.527439000	-1.228988000	-6.789584000
6	5.691913000	0.693786000	-5.896253000
6	5.736484000	-1.912449000	-6.904613000
6	6.901967000	0.013307000	-6.028296000
6	6.929298000	-1.290863000	-6.527800000
1	3.597600000	-1.709127000	-7.081754000
1	5.680032000	1.710406000	-5.511409000
1	5.747905000	-2.929094000	-7.290343000
1	7.827023000	0.504569000	-5.735970000
1	7.874575000	-1.820513000	-6.622635000
6	1.079587000	3.402324000	-1.085290000
6	0.092124000	3.088166000	-0.140045000
6	2.276692000	3.985582000	-0.643775000
6	0.295995000	3.350248000	1.213972000
6	2.475681000	4.260251000	0.707781000

6	1.486846000	3.941259000	1.641629000
1	-0.833698000	2.628578000	-0.474703000
1	3.045749000	4.230944000	-1.370781000
1	-0.475986000	3.093797000	1.935390000
1	3.405337000	4.720595000	1.033088000
1	1.644443000	4.150532000	2.697026000
6	-4.192179000	4.591917000	-5.475149000
6	-4.613450000	5.535464000	-6.423479000
6	-5.042732000	4.287899000	-4.402178000
6	-5.851876000	6.162989000	-6.300021000
6	-6.286118000	4.906566000	-4.283269000
6	-6.693701000	5.848291000	-5.230757000
1	-3.957869000	5.778710000	-7.254991000
1	-4.724507000	3.554690000	-3.666309000
1	-6.160883000	6.897333000	-7.039866000
1	-6.936980000	4.654280000	-3.449708000
1	-7.661824000	6.334345000	-5.136463000
6	-0.821487000	1.442208000	-10.692064000
6	-1.249346000	2.513872000	-11.489234000
6	-0.690756000	0.174659000	-11.278554000
6	-1.539305000	2.323694000	-12.839658000
6	-0.993088000	-0.019411000	-12.624837000
6	-1.416392000	1.055285000	-13.410755000
1	-1.345295000	3.499666000	-11.042735000
1	-0.361034000	-0.659916000	-10.666274000
1	-1.863188000	3.166190000	-13.445844000
1	-0.895935000	-1.010101000	-13.062072000
1	-1.647839000	0.904954000	-14.462550000
8	5.825693000	4.087669000	-5.394498000
8	1.327795000	3.481135000	-6.420624000
8	0.025121000	0.760587000	-5.442180000
6	4.102133000	5.272764000	-6.785320000
6	5.352479000	4.426636000	-6.714496000
6	6.622934000	4.976442000	-6.200175000
6	6.721615000	6.409060000	-5.694740000
6	5.478719000	7.258938000	-6.026033000
6	4.170377000	6.477461000	-5.834799000
1	3.221260000	4.650283000	-6.579099000
1	4.002322000	5.626141000	-7.823640000
1	5.402035000	3.592780000	-7.417458000
1	7.558623000	4.524948000	-6.539411000
1	7.620558000	6.878998000	-6.116425000
1	6.872083000	6.367508000	-4.607163000
1	5.484353000	8.169527000	-5.412479000
1	5.539190000	7.589072000	-7.073881000
1	3.308316000	7.131134000	-6.013086000
1	4.094702000	6.127603000	-4.797907000

ReB₂'

23	0.354974000	3.317824000	-6.184256000
7	-0.687485000	4.554880000	-4.703377000
7	2.060989000	2.853282000	-4.884968000
7	1.279672000	2.197846000	-7.635802000
7	-1.214143000	3.684922000	-7.455746000
6	-1.601270000	5.504771000	-5.029498000
6	-1.390239000	6.649492000	-4.155039000
6	-0.362146000	6.319073000	-3.310966000
6	0.074312000	4.960396000	-3.652287000
6	1.860314000	3.101740000	-3.563368000
6	2.551546000	2.041368000	-2.821472000
6	3.163246000	1.225470000	-3.737422000
6	2.856828000	1.766367000	-5.053791000
6	2.583702000	1.762610000	-7.541332000

6	3.119327000	1.687620000	-8.883332000
6	2.103113000	1.993796000	-9.756678000
6	-1.446692000	2.938659000	-8.589812000
6	-0.411908000	2.420886000	-9.406650000
6	-2.871253000	2.917916000	-8.828620000
6	-3.453290000	3.731493000	-7.886200000
6	-2.398027000	4.260911000	-7.049708000
6	-2.538940000	5.287662000	-6.058431000
6	1.108518000	4.195357000	-3.013635000
6	3.246835000	1.344849000	-6.340530000
17	2.501282000	1.691712000	-1.133612000
6	0.924362000	2.257979000	-8.964644000
17	3.977570000	-0.240914000	-3.339312000
17	-2.127418000	8.206233000	-4.222509000
17	-5.157713000	3.896391000	-7.693595000
17	2.322129000	2.168441000	-11.455960000
17	4.753451000	1.443893000	-9.373001000
17	-3.763576000	1.960491000	-9.948016000
17	0.347343000	7.439682000	-2.208289000
6	4.378633000	0.390422000	-6.463758000
6	4.189537000	-0.864753000	-7.064492000
6	5.649374000	0.729120000	-5.971478000
6	5.247927000	-1.765096000	-7.161518000
6	6.711932000	-0.162392000	-6.093681000
6	6.512656000	-1.413226000	-6.683644000
1	3.206167000	-1.135979000	-7.437866000
1	5.802006000	1.701282000	-5.511926000
1	5.087045000	-2.739683000	-7.613740000
1	7.694732000	0.116431000	-5.724178000
1	7.340307000	-2.111947000	-6.769760000
6	1.441436000	4.581488000	-1.619391000
6	0.446349000	4.594800000	-0.626927000
6	2.756049000	4.939572000	-1.274528000
6	0.763320000	4.943045000	0.683082000
6	3.063327000	5.317737000	0.029450000
6	2.070131000	5.312718000	1.012527000
1	-0.568581000	4.308218000	-0.886521000
1	3.525779000	4.942670000	-2.040833000
1	-0.009415000	4.931604000	1.446591000
1	4.078340000	5.612214000	0.280786000
1	2.313868000	5.596604000	2.032697000
6	-3.717858000	6.187009000	-6.149707000
6	-3.937543000	6.955818000	-7.304151000
6	-4.622365000	6.284567000	-5.080159000
6	-5.034780000	7.810332000	-7.382170000
6	-5.732694000	7.119843000	-5.171294000
6	-5.938748000	7.888343000	-6.319943000
1	-3.235115000	6.892654000	-8.130316000
1	-4.459730000	5.687415000	-4.187613000
1	-5.186884000	8.412368000	-8.273587000
1	-6.435028000	7.175047000	-4.344347000
1	-6.800465000	8.546856000	-6.386502000
6	-0.744347000	2.024421000	-10.802751000
6	-1.192881000	2.981260000	-11.725916000
6	-0.609588000	0.688362000	-11.210191000
6	-1.488444000	2.609789000	-13.035583000
6	-0.929426000	0.315116000	-12.513631000
6	-1.363196000	1.275640000	-13.430562000
1	-1.292743000	4.017749000	-11.416552000
1	-0.268127000	-0.056489000	-10.497015000
1	-1.820830000	3.360670000	-13.746855000
1	-0.835616000	-0.724339000	-12.815195000
1	-1.603061000	0.985416000	-14.449795000

8	1.154683000	4.781675000	-6.170705000
8	-0.186412000	2.151446000	-5.130983000
6	4.021211000	6.806936000	-5.270300000
6	3.704659000	8.268335000	-5.063124000
6	4.430512000	9.265240000	-5.581467000
6	5.678082000	9.047044000	-6.404910000
6	6.201821000	7.606116000	-6.285869000
6	5.051117000	6.595252000	-6.391617000
1	3.100804000	6.252506000	-5.494806000
1	4.403594000	6.382663000	-4.325717000
1	2.826687000	8.500847000	-4.460858000
1	4.124751000	10.297589000	-5.412066000
1	6.456880000	9.758973000	-6.095898000
1	5.468107000	9.283927000	-7.460663000
1	6.960917000	7.414917000	-7.055008000
1	6.699032000	7.483570000	-5.312937000
1	5.434319000	5.567280000	-6.364617000
1	4.552295000	6.718716000	-7.362971000

TS2_{B2'}

23	0.782960000	3.275798000	-5.704564000
7	-0.034634000	4.589441000	-4.278883000
7	2.014783000	2.463318000	-4.244398000
7	1.870578000	2.246165000	-7.181149000
7	-0.297696000	4.279564000	-7.221531000
6	-0.755940000	5.698925000	-4.615200000
6	-0.576757000	6.689564000	-3.565683000
6	0.192988000	6.110623000	-2.591519000
6	0.495637000	4.757667000	-3.034662000
6	1.723580000	2.569924000	-2.910421000
6	2.178547000	1.355337000	-2.256537000
6	2.807875000	0.592929000	-3.207658000
6	2.745754000	1.328124000	-4.458833000
6	3.058448000	1.620880000	-6.932601000
6	3.840518000	1.630651000	-8.159963000
6	3.060091000	2.202463000	-9.129471000
6	-0.442074000	3.695209000	-8.450026000
6	0.616576000	3.045307000	-9.140824000
6	-1.802920000	3.920157000	-8.903076000
6	-2.421574000	4.693391000	-7.953525000
6	-1.446373000	4.947978000	-6.908616000
6	-1.584812000	5.785520000	-5.765974000
6	1.159363000	3.728138000	-2.312804000
6	3.387138000	1.018895000	-5.690123000
17	1.873772000	0.813505000	-0.649123000
6	1.791352000	2.549681000	-8.508524000
17	3.378153000	-1.008283000	-2.923008000
17	-1.040488000	8.351290000	-3.563541000
17	-4.099622000	5.085986000	-7.985396000
17	3.620668000	2.580845000	-10.716055000
17	5.493473000	1.200276000	-8.392624000
17	-2.619506000	3.233109000	-10.256901000
17	0.797756000	6.960059000	-1.218882000
6	4.483888000	0.014041000	-5.672159000
6	4.365985000	-1.176438000	-6.406281000
6	5.649215000	0.247515000	-4.925368000
6	5.388788000	-2.121701000	-6.380784000
6	6.681743000	-0.687148000	-4.924016000
6	6.551127000	-1.876390000	-5.645627000
1	3.462779000	-1.363258000	-6.980114000
1	5.747073000	1.171535000	-4.362776000
1	5.281234000	-3.047429000	-6.939118000

1	7.586372000	-0.490310000	-4.355515000
1	7.352825000	-2.609779000	-5.635146000
6	1.280894000	3.886547000	-0.838612000
6	0.130222000	3.949424000	-0.037332000
6	2.544196000	3.983350000	-0.234569000
6	0.242552000	4.090930000	1.343881000
6	2.652552000	4.152386000	1.143595000
6	1.503017000	4.199419000	1.936345000
1	-0.848770000	3.868845000	-0.501009000
1	3.436587000	3.944305000	-0.852586000
1	-0.653562000	4.121980000	1.957292000
1	3.634250000	4.242534000	1.600149000
1	1.589388000	4.320634000	3.012708000
6	-2.667246000	6.802344000	-5.771344000
6	-2.713366000	7.788058000	-6.770738000
6	-3.659906000	6.785510000	-4.777965000
6	-3.724124000	8.745834000	-6.766143000
6	-4.685092000	7.727957000	-4.792752000
6	-4.715739000	8.713999000	-5.782057000
1	-1.939271000	7.807031000	-7.531962000
1	-3.633125000	6.018771000	-4.009190000
1	-3.741951000	9.514879000	-7.533386000
1	-5.457810000	7.696094000	-4.029824000
1	-5.509865000	9.455652000	-5.786108000
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6	0.323545000	3.969982000	-11.456067000
6	0.523460000	1.573503000	-11.167847000
6	0.214969000	3.793930000	-12.832954000
6	0.385358000	1.398309000	-12.542492000
6	0.238360000	2.507851000	-13.378713000
1	0.297668000	4.968754000	-11.029644000
1	0.640119000	0.712481000	-10.516196000
1	0.105541000	4.659430000	-13.480415000
1	0.397466000	0.396331000	-12.962035000
1	0.141935000	2.370911000	-14.452304000
8	2.219471000	4.591172000	-5.821947000
8	-0.402188000	2.168390000	-5.578941000
6	2.545995000	6.751428000	-7.170486000
6	1.415328000	7.712626000	-7.182178000
6	0.966330000	8.312280000	-8.299623000
6	1.604126000	8.117208000	-9.653774000
6	3.017029000	7.522184000	-9.534779000
6	3.026322000	6.333331000	-8.559102000
1	2.247183000	5.760837000	-6.565124000
1	3.361886000	7.104366000	-6.523939000
1	0.955035000	7.954247000	-6.225117000
1	0.136110000	9.015052000	-8.233483000
1	1.636459000	9.076571000	-10.188329000
1	0.971178000	7.459146000	-10.272815000
1	3.384268000	7.210836000	-10.520479000
1	3.702291000	8.298849000	-9.168758000
1	4.024644000	5.887176000	-8.495598000
1	2.359736000	5.553061000	-8.951276000

P2_{B2'}

23	0.358480000	3.226624000	-6.048591000
7	-0.263587000	4.730848000	-4.752988000
7	1.963154000	2.902090000	-4.780604000
7	1.520857000	2.459137000	-7.594147000
7	-0.871215000	4.073279000	-7.501196000
6	-1.189217000	5.703284000	-5.058040000
6	-1.030080000	6.788746000	-4.111024000

6	-0.072040000	6.407625000	-3.208694000
6	0.372569000	5.079958000	-3.583811000
6	1.824860000	3.087229000	-3.422105000
6	2.500327000	1.996959000	-2.744640000
6	3.105469000	1.231080000	-3.705565000
6	2.812120000	1.837013000	-4.990323000
6	2.806829000	1.989079000	-7.456687000
6	3.422630000	1.971479000	-8.768788000
6	2.465653000	2.347011000	-9.674644000
6	-1.080008000	3.396424000	-8.686308000
6	-0.040980000	2.849989000	-9.464670000
6	-2.493891000	3.449891000	-8.996940000
6	-3.095610000	4.222504000	-8.037953000
6	-2.062577000	4.656250000	-7.119404000
6	-2.176051000	5.580688000	-6.062359000
6	1.217555000	4.220288000	-2.847228000
6	3.355790000	1.508462000	-6.247030000
17	2.463611000	1.579325000	-1.073555000
6	1.246093000	2.602329000	-8.935143000
17	3.912983000	-0.254506000	-3.374349000
17	-1.735481000	8.362381000	-4.149546000
17	-4.800119000	4.449140000	-7.926587000
17	2.786148000	2.623812000	-11.346988000
17	5.078535000	1.717951000	-9.178371000
17	-3.360528000	2.599903000	-10.219876000
17	0.558485000	7.450893000	-1.988535000
6	4.554151000	0.621068000	-6.307809000
6	4.470620000	-0.643019000	-6.909890000
6	5.778741000	1.038356000	-5.765723000
6	5.587304000	-1.475344000	-6.961864000
6	6.898923000	0.212334000	-5.832508000
6	6.804994000	-1.048015000	-6.427635000
1	3.522847000	-0.974914000	-7.324533000
1	5.850656000	2.018363000	-5.302059000
1	5.507465000	-2.456868000	-7.421098000
1	7.844534000	0.550681000	-5.417676000
1	7.677014000	-1.694797000	-6.474033000
6	1.475178000	4.528008000	-1.409829000
6	0.428174000	4.490997000	-0.477110000
6	2.765748000	4.861158000	-0.972666000
6	0.668873000	4.773658000	0.866295000
6	3.002664000	5.159000000	0.367729000
6	1.955518000	5.112488000	1.291171000
1	-0.572229000	4.226618000	-0.808240000
1	3.579830000	4.896775000	-1.691332000
1	-0.148363000	4.731277000	1.581113000
1	4.004943000	5.425006000	0.692439000
1	2.141733000	5.338876000	2.337577000
6	-3.380333000	6.458754000	-5.995566000
6	-3.636269000	7.395726000	-7.007753000
6	-4.273558000	6.359487000	-4.918376000
6	-4.755738000	8.222459000	-6.939910000
6	-5.401831000	7.175340000	-4.859124000
6	-5.643398000	8.111756000	-5.866970000
1	-2.947212000	7.479900000	-7.843766000
1	-4.085794000	5.630124000	-4.135387000
1	-4.937531000	8.950667000	-7.725664000
1	-6.091753000	7.081475000	-4.024969000
1	-6.520119000	8.751841000	-5.817020000
6	-0.302768000	2.511199000	-10.893648000
6	-0.637986000	3.512620000	-11.817196000
6	-0.213274000	1.182130000	-11.333987000
6	-0.869986000	3.193577000	-13.153514000

6	-0.460726000	0.861275000	-12.667434000
6	-0.785379000	1.866410000	-13.581272000
1	-0.706287000	4.544624000	-11.483993000
1	0.038596000	0.400601000	-10.622644000
1	-1.119623000	3.979903000	-13.860690000
1	-0.398464000	-0.173301000	-12.993578000
1	-0.972446000	1.616715000	-14.622184000
8	1.951969000	5.298360000	-6.728572000
8	-0.554029000	1.999454000	-5.640099000
6	2.502230000	7.686495000	-6.207750000
6	1.642190000	6.690183000	-6.953315000
6	2.204119000	5.865102000	-8.039607000
6	3.666357000	5.964920000	-8.441674000
6	4.386672000	7.174298000	-7.815854000
6	4.002636000	7.380466000	-6.343925000
1	2.200447000	7.709799000	-5.152813000
1	2.286032000	8.683979000	-6.617598000
1	0.571450000	6.894156000	-6.969045000
1	1.515378000	5.486789000	-8.793819000
1	3.732112000	6.012460000	-9.535397000
1	4.159412000	5.030971000	-8.142551000
1	5.470949000	7.046920000	-7.917035000
1	4.125921000	8.082274000	-8.378724000
1	4.582309000	8.204373000	-5.911354000
1	4.245650000	6.479485000	-5.767196000

TS3_{B2'}

23	0.782960000	3.275798000	-5.704564000
7	-0.034634000	4.589441000	-4.278883000
7	2.014783000	2.463318000	-4.244398000
7	1.870578000	2.246165000	-7.181149000
7	-0.297696000	4.279564000	-7.221531000
6	-0.755940000	5.698925000	-4.615200000
6	-0.576757000	6.689564000	-3.565683000
6	0.192988000	6.110623000	-2.591519000
6	0.495637000	4.757667000	-3.034662000
6	1.723580000	2.569924000	-2.910421000
6	2.178547000	1.355337000	-2.256537000
6	2.807875000	0.592929000	-3.207658000
6	2.745754000	1.328124000	-4.458833000
6	3.058448000	1.620880000	-6.932601000
6	3.840518000	1.630651000	-8.159963000
6	3.060091000	2.202463000	-9.129471000
6	-0.442074000	3.695209000	-8.450026000
6	0.616576000	3.045307000	-9.140824000
6	-1.802920000	3.920157000	-8.903076000
6	-2.421574000	4.693391000	-7.953525000
6	-1.446373000	4.947978000	-6.908616000
6	-1.584812000	5.785520000	-5.765974000
6	1.159363000	3.728138000	-2.312804000
6	3.387138000	1.018895000	-5.690123000
17	1.873772000	0.813505000	-0.649123000
6	1.791352000	2.549681000	-8.508524000
17	3.378153000	-1.008283000	-2.923008000
17	-1.040488000	8.351290000	-3.563541000
17	-4.099622000	5.085986000	-7.985396000
17	3.620668000	2.580845000	-10.716055000
17	5.493473000	1.200276000	-8.392624000
17	-2.619506000	3.233109000	-10.256901000
17	0.797756000	6.960059000	-1.218882000
6	4.483888000	0.014041000	-5.672159000
6	4.365985000	-1.176438000	-6.406281000

6	5.649215000	0.247515000	-4.925368000
6	5.388788000	-2.121701000	-6.380784000
6	6.681743000	-0.687148000	-4.924016000
6	6.551127000	-1.876390000	-5.645627000
1	3.462779000	-1.363258000	-6.980114000
1	5.747073000	1.171535000	-4.362776000
1	5.281234000	-3.047429000	-6.939118000
1	7.586372000	-0.490310000	-4.355515000
1	7.352825000	-2.609779000	-5.635146000
6	1.280894000	3.886547000	-0.838612000
6	0.130222000	3.949424000	-0.037332000
6	2.544196000	3.983350000	-0.234569000
6	0.242552000	4.090930000	1.343881000
6	2.652552000	4.152386000	1.143595000
6	1.503017000	4.199419000	1.936345000
1	-0.848770000	3.868845000	-0.501009000
1	3.436587000	3.944305000	-0.852586000
1	-0.653562000	4.121980000	1.957292000
1	3.634250000	4.242534000	1.600149000
1	1.589388000	4.320634000	3.012708000
6	-2.667246000	6.802344000	-5.771344000
6	-2.713366000	7.788058000	-6.770738000
6	-3.659906000	6.785510000	-4.777965000
6	-3.724124000	8.745834000	-6.766143000
6	-4.685092000	7.727957000	-4.792752000
6	-4.715739000	8.713999000	-5.782057000
1	-1.939271000	7.807031000	-7.531962000
1	-3.633125000	6.018771000	-4.009190000
1	-3.741951000	9.514879000	-7.533386000
1	-5.457810000	7.696094000	-4.029824000
1	-5.509865000	9.455652000	-5.786108000
6	0.487252000	2.861623000	-10.609351000
6	0.323545000	3.969982000	-11.456067000
6	0.523460000	1.573503000	-11.167847000
6	0.214969000	3.793930000	-12.832954000
6	0.385358000	1.398309000	-12.542492000
6	0.238360000	2.507851000	-13.378713000
1	0.297668000	4.968754000	-11.029644000
1	0.640119000	0.712481000	-10.516196000
1	0.105541000	4.659430000	-13.480415000
1	0.397466000	0.396331000	-12.962035000
1	0.141935000	2.370911000	-14.452304000
8	2.219471000	4.591172000	-5.821947000
8	-0.402188000	2.168390000	-5.578941000
6	2.545995000	6.751428000	-7.170486000
6	1.415328000	7.712626000	-7.182178000
6	0.966330000	8.312280000	-8.299623000
6	1.604126000	8.117208000	-9.653774000
6	3.017029000	7.522184000	-9.534779000
6	3.026322000	6.333331000	-8.559102000
1	2.247183000	5.760837000	-6.565124000
1	3.361886000	7.104366000	-6.523939000
1	0.955035000	7.954247000	-6.225117000
1	0.136110000	9.015052000	-8.233483000
1	1.636459000	9.076571000	-10.188329000
1	0.971178000	7.459146000	-10.272815000
1	3.384268000	7.210836000	-10.520479000
1	3.702291000	8.298849000	-9.168758000
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7	-1.298980000	3.820016000	-7.661199000
6	-1.367111000	5.658905000	-5.299484000
6	-1.119772000	6.838095000	-4.485803000
6	-0.059833000	6.548365000	-3.666159000
6	0.355171000	5.187000000	-3.968087000
6	1.908034000	3.208837000	-3.813782000
6	2.630168000	2.170895000	-3.094908000
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6	2.707074000	1.790315000	-5.335158000
6	2.413626000	1.666870000	-7.831332000
6	2.906248000	1.535240000	-9.194889000
6	1.873734000	1.869831000	-10.031822000
6	-1.593025000	3.064763000	-8.757874000
6	-0.606382000	2.458406000	-9.589798000
6	-3.034469000	3.083496000	-8.944759000
6	-3.555071000	3.919202000	-7.988724000
6	-2.438239000	4.423117000	-7.207962000
6	-2.443113000	5.430077000	-6.205896000
6	1.323243000	4.398673000	-3.289254000
6	3.076784000	1.310557000	-6.620450000
17	2.747128000	1.914107000	-1.394884000
6	0.733164000	2.203869000	-9.191992000
17	3.909840000	-0.183608000	-3.636304000
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17	-5.243999000	4.132939000	-7.721556000
17	2.038135000	2.022663000	-11.740945000
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6	4.062082000	-0.907793000	-7.243938000
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6	5.143047000	-1.782111000	-7.328740000
6	6.595615000	-0.079628000	-6.410192000
6	6.412825000	-1.367885000	-6.919265000
1	3.074739000	-1.226350000	-7.565521000
1	5.651271000	1.786811000	-5.897748000
1	4.995751000	-2.784892000	-7.719745000
1	7.582490000	0.248122000	-6.095811000
1	7.257596000	-2.046841000	-6.996737000
6	1.762269000	4.842805000	-1.940321000
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6	3.106896000	5.174039000	-1.708690000
6	1.258349000	5.326436000	0.381692000
6	3.515802000	5.596890000	-0.446163000
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1	0.540885000	5.374726000	1.196041000
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1	-1.302911000	-0.681546000	-12.957168000	1	2.950887000	-5.163982000	-8.399588000
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6	3.779681000	6.742556000	-5.543310000	6	-2.207677000	-1.029083000	-0.770640000
6	3.825161000	8.124223000	-5.391402000	6	-4.945863000	-0.959640000	-0.229842000
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6	5.886187000	7.856009000	-3.973236000	6	-4.052935000	-1.422692000	0.740277000
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1	2.281319000	4.634634000	-7.248644000	1	-1.142764000	-1.050155000	-0.983211000
1	4.808916000	4.857515000	-5.401485000	1	-6.012644000	-0.941045000	-0.024830000
1	2.875049000	6.287673000	-5.944798000	1	-1.984152000	-1.801575000	1.222987000
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1	6.836073000	8.328081000	-3.694358000	6	-5.912521000	4.489776000	-5.664839000
1	5.337466000	7.659892000	-3.042420000	6	-5.121740000	7.041513000	-6.476512000
1	6.634718000	5.810545000	-4.002142000	6	-6.832370000	5.535110000	-5.666743000
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6	2.323682000	-0.242606000	-7.665034000	1	1.479035000	1.402055000	-13.447139000
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6	-2.399968000	3.208423000	-9.519795000	6	-3.037887000	-2.099249000	-9.027547000
6	-3.391388000	3.623294000	-8.670833000	6	-3.501447000	-0.678935000	-9.117943000
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6	-2.959275000	2.722813000	-2.001725000
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6	-2.400114000	-2.160532000	-3.441251000
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6	1.473421000	-3.458174000	-5.391113000
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6	-6.344290000	6.612229000	-4.364982000
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1	-3.413547000	-0.016011000	-8.998926000
1	-5.015954000	1.271610000	-7.624413000
1	-6.454873000	0.029368000	-5.895014000
1	-6.937974000	-0.129124000	-7.582796000
1	-6.963171000	-2.366210000	-6.378638000
1	-5.236225000	-2.175640000	-6.063074000

ReA2"

23	0.272685000	3.533769000	-6.018984000
7	-0.736832000	4.650639000	-4.562844000
7	1.674201000	2.863368000	-4.578596000
7	1.307207000	2.485866000	-7.474117000
7	-1.318587000	3.815815000	-7.388103000
6	-1.807136000	5.444887000	-4.839407000
6	-1.885309000	6.431462000	-3.763242000
6	-0.912211000	6.123077000	-2.850969000
6	-0.210247000	4.938250000	-3.341302000
6	1.494279000	3.071330000	-3.241965000
6	2.291297000	2.057137000	-2.548107000
6	2.963116000	1.339599000	-3.498384000
6	2.599317000	1.894885000	-4.799525000
6	2.584339000	2.010761000	-7.307413000
6	3.171697000	1.893906000	-8.634680000
6	2.199222000	2.202528000	-9.547318000
6	-1.427255000	3.177745000	-8.580812000
6	-0.320584000	2.700879000	-9.329200000
6	-2.840723000	3.189989000	-8.950052000
6	-3.504838000	3.903877000	-7.991644000
6	-2.515626000	4.347677000	-7.006743000
6	-2.713580000	5.234510000	-5.913851000
6	0.747576000	4.134236000	-2.665471000
6	3.147107000	1.597211000	-6.073712000
17	2.325534000	1.650756000	-0.864611000
6	0.985126000	2.519203000	-8.808518000
17	3.919916000	-0.058619000	-3.138425000
17	-2.868900000	7.852725000	-3.650788000
17	-5.230025000	4.057715000	-7.960310000
17	2.505204000	2.328047000	-11.246876000
17	4.819649000	1.595551000	-9.074470000
17	-3.638275000	2.353938000	-10.240513000
17	-0.550914000	7.119708000	-1.481139000
6	4.397096000	0.774665000	-6.113006000
6	4.372454000	-0.539267000	-6.601921000
6	5.612314000	1.301177000	-5.652633000
6	5.533854000	-1.309720000	-6.627643000
6	6.777096000	0.536069000	-5.688986000
6	6.740973000	-0.773045000	-6.174215000
1	3.432849000	-0.955308000	-6.954709000
1	5.638840000	2.319049000	-5.273657000
1	5.496843000	-2.329312000	-7.003411000
1	7.713204000	0.961641000	-5.335899000
1	7.648319000	-1.371860000	-6.198179000
6	0.971271000	4.414476000	-1.211266000
6	-0.020054000	4.120088000	-0.264369000
6	2.179646000	4.974023000	-0.773285000
6	0.193874000	4.372970000	1.089403000
6	2.390257000	5.239062000	0.579270000
6	1.399095000	4.936187000	1.515250000
1	-0.956958000	3.682386000	-0.597584000
1	2.950423000	5.207223000	-1.502634000
1	-0.581498000	4.132080000	1.812549000
1	3.330034000	5.679876000	0.902763000
1	1.564826000	5.137889000	2.570883000
6	-4.002718000	5.996213000	-5.879449000
6	-4.246240000	7.021845000	-6.803513000
6	-4.987176000	5.695350000	-4.927564000
6	-5.444125000	7.734679000	-6.773232000
6	-6.190172000	6.398712000	-4.904127000
6	-6.421210000	7.422875000	-5.825457000
1	-3.485311000	7.261670000	-7.540990000

1	-4.805358000	4.898329000	-4.211969000
1	-5.615741000	8.532516000	-7.491685000
1	-6.947287000	6.148682000	-4.164917000
1	-7.357779000	7.975084000	-5.804602000
6	-0.557333000	2.353413000	-10.765776000
6	-0.828539000	3.357289000	-11.706220000
6	-0.520746000	1.018632000	-11.193573000
6	-1.048017000	3.035698000	-13.044828000
6	-0.752035000	0.694492000	-12.529440000
6	-1.012975000	1.702671000	-13.460146000
1	-0.856561000	4.393475000	-11.380811000
1	-0.316994000	0.235586000	-10.468495000
1	-1.249054000	3.826198000	-13.763726000
1	-0.726721000	-0.345809000	-12.844564000
1	-1.188916000	1.450800000	-14.503248000
8	1.576203000	4.944344000	-5.912923000
8	0.607733000	5.243448000	-6.818923000
8	-0.633759000	2.278063000	-5.487143000
6	4.629256000	6.523089000	-5.789791000
6	4.989467000	7.987750000	-5.838755000
6	5.639441000	8.559899000	-6.858689000
6	6.119582000	7.796569000	-8.071294000
6	6.103777000	6.276415000	-7.836982000
6	4.799198000	5.840711000	-7.155808000
1	3.594685000	6.394929000	-5.449406000
1	5.258317000	6.022794000	-5.033766000
1	4.686054000	8.600249000	-4.989071000
1	5.840330000	9.631629000	-6.836490000
1	7.132421000	8.129268000	-8.343947000
1	5.485533000	8.047618000	-8.937370000
1	6.241822000	5.745582000	-8.787392000
1	6.955080000	6.004754000	-7.195521000
1	4.764422000	4.751618000	-7.039067000
1	3.946806000	6.108367000	-7.793598000

TS1 A2"

23	0.597971000	1.959852000	-5.598731000
7	-0.067612000	3.302006000	-4.098247000
7	2.253591000	1.525691000	-4.387684000
7	1.668386000	1.225637000	-7.264063000
7	-0.686757000	2.926334000	-6.928893000
6	-0.929421000	4.344946000	-4.342522000
6	-0.669809000	5.372477000	-3.386132000
6	0.315094000	4.899326000	-2.530114000
6	0.660591000	3.584451000	-2.966439000
6	2.151249000	1.602803000	-3.005207000
6	2.833545000	0.436369000	-2.463564000
6	3.404060000	-0.240045000	-3.503132000
6	3.099282000	0.479134000	-4.731630000
6	2.979781000	0.825270000	-7.185790000
6	3.584936000	1.024215000	-8.466338000
6	2.602016000	1.498542000	-9.317427000
6	-0.922111000	2.372377000	-8.180837000
6	0.073535000	1.889564000	-9.030738000
6	-2.352055000	2.456414000	-8.440005000
6	-2.925635000	3.130116000	-7.402526000
6	-1.869046000	3.489310000	-6.467038000
6	-1.967157000	4.299209000	-5.335106000
6	1.530841000	2.642366000	-2.317134000
6	3.567404000	0.228816000	-6.020318000
17	2.803032000	-0.163318000	-0.839069000
6	1.392685000	1.586933000	-8.559514000
17	4.167193000	-1.784822000	-3.328203000

17	-1.306018000	6.991550000	-3.326892000
17	-4.637835000	3.311665000	-7.211510000
17	2.902283000	2.023273000	-10.947122000
17	5.259326000	0.886468000	-8.911015000
17	-3.260852000	1.697703000	-9.704486000
17	1.045467000	5.861328000	-1.278729000
6	4.722916000	-0.689930000	-6.226755000
6	4.589948000	-1.833909000	-7.030250000
6	5.973446000	-0.423379000	-5.646949000
6	5.669010000	-2.691309000	-7.236431000
6	7.056226000	-1.274862000	-5.859106000
6	6.907838000	-2.414557000	-6.652664000
1	3.627340000	-2.048092000	-7.485862000
1	6.090471000	0.465892000	-5.033812000
1	5.543198000	-3.577066000	-7.854626000
1	8.018217000	-1.047559000	-5.405525000
1	7.751695000	-3.080471000	-6.817548000
6	1.753953000	2.808677000	-0.852957000
6	0.672392000	2.774167000	0.042323000
6	3.041017000	3.026782000	-0.335993000
6	0.872988000	2.938463000	1.411523000
6	3.242775000	3.199387000	1.032222000
6	2.159500000	3.153251000	1.912535000
1	-0.328213000	2.608553000	-0.346925000
1	3.883283000	3.068221000	-1.021063000
1	0.023532000	2.898737000	2.089330000
1	4.247205000	3.371934000	1.411910000
1	2.315877000	3.286261000	2.980511000
6	-3.173941000	5.143549000	-5.111182000
6	-3.559300000	6.122523000	-6.041455000
6	-3.942502000	4.995574000	-3.944650000
6	-4.677422000	6.923827000	-5.817641000
6	-5.065366000	5.790105000	-3.722392000
6	-5.437300000	6.759496000	-4.657479000
1	-2.968580000	6.252906000	-6.944191000
1	-3.653074000	4.243650000	-3.216107000
1	-4.955604000	7.678500000	-6.549720000
1	-5.651845000	5.652702000	-2.817036000
1	-6.310714000	7.383151000	-4.481944000
6	-0.214016000	1.669781000	-10.476164000
6	-0.629437000	2.727836000	-11.300274000
6	-0.050412000	0.399829000	-11.052995000
6	-0.879502000	2.523775000	-12.656090000
6	-0.308416000	0.191538000	-12.406491000
6	-0.722828000	1.253326000	-13.214676000
1	-0.747219000	3.717350000	-10.867137000
1	0.273850000	-0.425391000	-10.425397000
1	-1.195909000	3.357953000	-13.278075000
1	-0.185164000	-0.801609000	-12.831901000
1	-0.919341000	1.092118000	-14.272061000
8	2.180676000	4.577931000	-6.636774000
8	2.316112000	3.312410000	-5.582539000
8	-0.269064000	0.667800000	-5.229732000
6	3.845194000	6.072083000	-7.736837000
6	3.334956000	5.462658000	-6.453278000
6	2.025886000	5.848182000	-5.890295000
6	1.131983000	6.858931000	-6.578933000
6	1.844075000	7.626624000	-7.708684000
6	2.719393000	6.706183000	-8.572484000
1	4.378437000	5.303850000	-8.309670000
1	4.585385000	6.837293000	-7.459518000
1	4.054802000	5.001833000	-5.783458000
1	1.844491000	5.630590000	-4.843462000

1	0.747663000	7.550226000	-5.820643000
1	0.262233000	6.313098000	-6.964907000
1	1.097839000	8.137419000	-8.328517000
1	2.477832000	8.412553000	-7.272001000
1	3.159073000	7.267256000	-9.405519000
1	2.103901000	5.911783000	-9.011382000

P1 A2"

23	0.213699000	2.351443000	-5.890812000
7	-0.780929000	3.394893000	-4.396945000
7	1.808635000	2.028346000	-4.481784000
7	1.179503000	1.361219000	-7.534469000
7	-1.413172000	2.655897000	-7.142894000
6	-1.881632000	4.184367000	-4.622304000
6	-1.894696000	5.228107000	-3.615296000
6	-0.855299000	4.985019000	-2.760161000
6	-0.169762000	3.787559000	-3.218543000
6	1.714598000	2.149111000	-3.142457000
6	2.632768000	1.185823000	-2.544637000
6	3.274990000	0.554671000	-3.573586000
6	2.763330000	1.117070000	-4.832362000
6	2.504227000	1.069704000	-7.384346000
6	3.075636000	1.063147000	-8.738158000
6	2.060789000	1.311652000	-9.621823000
6	-1.546040000	2.035146000	-8.372972000
6	-0.497866000	1.655834000	-9.249001000
6	-2.970045000	1.921686000	-8.642890000
6	-3.642208000	2.534917000	-7.621731000
6	-2.650697000	3.055338000	-6.700094000
6	-2.862629000	3.920932000	-5.604106000
6	0.866439000	3.104441000	-2.533584000
6	3.183908000	0.798418000	-6.156989000
17	2.810831000	0.746492000	-0.877960000
6	0.842808000	1.469978000	-8.836307000
17	4.344277000	-0.784357000	-3.318787000
17	-2.884473000	6.646486000	-3.536847000
17	-5.364863000	2.494348000	-7.452767000
17	2.295651000	1.541452000	-11.324007000
17	4.735104000	0.963463000	-9.232836000
17	-3.770399000	1.035321000	-9.896578000
17	-0.405103000	6.074673000	-1.492170000
6	4.490485000	0.078172000	-6.281209000
6	4.527439000	-1.228988000	-6.789584000
6	5.691913000	0.693786000	-5.896253000
6	5.736484000	-1.912449000	-6.904613000
6	6.901967000	0.013307000	-6.028296000
6	6.929298000	-1.290863000	-6.527800000
1	3.597600000	-1.709127000	-7.081754000
1	5.680032000	1.710406000	-5.511409000
1	5.747905000	-2.929094000	-7.290343000
1	7.827023000	0.504569000	-5.735970000
1	7.874575000	-1.820513000	-6.622635000
6	1.079587000	3.402324000	-1.085290000
6	0.092124000	3.088166000	-0.140045000
6	2.276692000	3.985582000	-0.643775000
6	0.295995000	3.350248000	1.213972000
6	2.475681000	4.260251000	0.707781000
6	1.486846000	3.941259000	1.641629000
1	-0.833698000	2.628578000	-0.474703000
1	3.045749000	4.230944000	-1.370781000
1	-0.475986000	3.093797000	1.935390000
1	3.405337000	4.720595000	1.033088000
1	1.644443000	4.150532000	2.697026000

6	-4.192179000	4.591917000	-5.475149000	6	-2.398027000	4.260911000	-7.049708000
6	-4.613450000	5.535464000	-6.423479000	6	-2.538940000	5.287662000	-6.058431000
6	-5.042732000	4.287899000	-4.402178000	6	1.108518000	4.195357000	-3.013635000
6	-5.851876000	6.162989000	-6.300021000	6	3.246835000	1.344849000	-6.340530000
6	-6.286118000	4.906566000	-4.283269000	17	2.501282000	1.691712000	-1.133612000
6	-6.693701000	5.848291000	-5.230757000	6	0.924362000	2.257979000	-8.964644000
1	-3.957869000	5.778710000	-7.254991000	17	3.977570000	-0.240914000	-3.339312000
1	-4.724507000	3.554690000	-3.666309000	17	-2.127418000	8.206233000	-4.222509000
1	-6.160883000	6.897333000	-7.039866000	17	-5.157713000	3.896391000	-7.693595000
1	-6.936980000	4.654280000	-3.449708000	17	2.322129000	2.168441000	-11.455960000
1	-7.661824000	6.334345000	-5.136463000	17	4.753451000	1.443893000	-9.373001000
6	-0.821487000	1.442208000	-10.692064000	17	-3.763576000	1.960491000	-9.948016000
6	-1.249346000	2.513872000	-11.489234000	17	0.347343000	7.439682000	-2.208289000
6	-0.690756000	0.174659000	-11.278554000	6	4.378633000	0.390422000	-6.463758000
6	-1.539305000	2.323694000	-12.839658000	6	4.189537000	-0.864753000	-7.064492000
6	-0.993088000	-0.019411000	-12.624837000	6	5.649374000	0.729120000	-5.971478000
6	-1.416392000	1.055285000	-13.410755000	6	5.247927000	-1.765096000	-7.161518000
1	-1.345295000	3.499666000	-11.042735000	6	6.711932000	-0.162392000	-6.093681000
1	-0.361034000	-0.659916000	-10.666274000	6	6.512656000	-1.413226000	-6.683644000
1	-1.863188000	3.166190000	-13.445844000	1	3.206167000	-1.135979000	-7.437866000
1	-0.895935000	-1.010101000	-13.062072000	1	5.802006000	1.701282000	-5.511926000
1	-1.647839000	0.904954000	-14.462550000	1	5.087045000	-2.739683000	-7.613740000
8	5.825693000	4.087669000	-5.394498000	1	7.694732000	0.116431000	-5.724178000
8	1.327795000	3.481135000	-6.420624000	1	7.340307000	-2.111947000	-6.769760000
8	0.025121000	0.760587000	-5.442180000	6	1.441436000	4.581488000	-1.619391000
6	4.102133000	5.272764000	-6.785320000	6	0.446349000	4.594800000	-0.626927000
6	5.352479000	4.426636000	-6.714496000	6	2.756049000	4.939572000	-1.274528000
6	6.622934000	4.976442000	-6.200175000	6	0.763320000	4.943045000	0.683082000
6	6.721615000	6.409060000	-5.694740000	6	3.063327000	5.317737000	0.029450000
6	5.478719000	7.258938000	-6.026033000	6	2.070131000	5.312718000	1.012527000
6	4.170377000	6.477461000	-5.834799000	1	-0.568581000	4.308218000	-0.886521000
1	3.221260000	4.650283000	-6.579099000	1	3.525779000	4.942670000	-2.040833000
1	4.002322000	5.626141000	-7.823640000	1	-0.009415000	4.931604000	1.446591000
1	5.402035000	3.592780000	-7.417458000	1	4.078340000	5.612214000	0.280786000
1	7.558623000	4.524948000	-6.539411000	1	2.313868000	5.596604000	2.032697000
1	7.620558000	6.878998000	-6.116425000	6	-3.717858000	6.187009000	-6.149707000
1	6.872083000	6.367508000	-4.607163000	6	-3.937543000	6.955818000	-7.304151000
1	5.484353000	8.169527000	-5.412479000	6	-4.622365000	6.284567000	-5.080159000
1	5.539190000	7.589072000	-7.073881000	6	-5.034780000	7.810332000	-7.382170000
1	3.308316000	7.131134000	-6.013086000	6	-5.732694000	7.119843000	-5.171294000
1	4.094702000	6.127603000	-4.797907000	6	-5.938748000	7.888343000	-6.319943000
ReA2'				1	-3.235115000	6.892654000	-8.130316000
23	0.354974000	3.317824000	-6.184256000	1	-4.459730000	5.687415000	-4.187613000
7	-0.687485000	4.554880000	-4.703377000	1	-5.186884000	8.412368000	-8.273587000
7	2.060989000	2.853282000	-4.884968000	1	-6.435028000	7.175047000	-4.344347000
7	1.279672000	2.197846000	-7.635802000	1	-6.800465000	8.546856000	-6.386502000
7	-1.214143000	3.684922000	-7.455746000	6	-0.744347000	2.024421000	-10.802751000
6	-1.601270000	5.504771000	-5.029498000	6	-1.192881000	2.981260000	-11.725916000
6	-1.390239000	6.649492000	-4.155039000	6	-0.609588000	0.688362000	-11.210191000
6	-0.362146000	6.319073000	-3.310966000	6	-1.488444000	2.609789000	-13.035583000
6	0.074312000	4.960396000	-3.652287000	6	-0.929426000	0.315116000	-12.513631000
6	1.860314000	3.101740000	-3.563368000	6	-1.363196000	1.275640000	-13.430562000
6	2.551546000	2.041368000	-2.821472000	1	-1.292743000	4.017749000	-11.416552000
6	3.163246000	1.225470000	-3.737422000	1	-0.268127000	-0.056489000	-10.497015000
6	2.856828000	1.766367000	-5.053791000	1	-1.820830000	3.360670000	-13.746855000
6	2.583702000	1.762610000	-7.541332000	1	-0.835616000	-0.724339000	-12.815195000
6	3.119327000	1.687620000	-8.883332000	1	-1.603061000	0.985416000	-14.449795000
6	2.103113000	1.993796000	-9.756678000	8	1.154683000	4.781675000	-6.170705000
6	-1.446692000	2.938659000	-8.589812000	8	-0.186412000	2.151446000	-5.130983000
6	-0.411908000	2.420886000	-9.406650000	6	4.021211000	6.806936000	-5.270300000
6	-2.871253000	2.917916000	-8.828620000	6	3.704659000	8.268335000	-5.063124000
6	-3.453290000	3.731493000	-7.886200000	6	4.430512000	9.265240000	-5.581467000
				6	5.678082000	9.047044000	-6.404910000

6	6.201821000	7.606116000	-6.285869000
6	5.051117000	6.595252000	-6.391617000
1	3.100804000	6.252506000	-5.494806000
1	4.403594000	6.382663000	-4.325717000
1	2.826687000	8.500847000	-4.460858000
1	4.124751000	10.297589000	-5.412066000
1	6.456880000	9.758973000	-6.095898000
1	5.468107000	9.283927000	-7.460663000
1	6.960917000	7.414917000	-7.055008000
1	6.699032000	7.483570000	-5.312937000
1	5.434319000	5.567280000	-6.364617000
1	4.552295000	6.718716000	-7.362971000

TS2_{A2'}

23	0.578125000	3.312594000	-5.946535000
7	-0.212221000	4.585637000	-4.466914000
7	2.006299000	2.641343000	-4.591669000
7	1.626669000	2.366451000	-7.508706000
7	-0.684488000	4.216331000	-7.369630000
6	-1.056799000	5.623609000	-4.742007000
6	-0.882798000	6.635265000	-3.711377000
6	0.015299000	6.136897000	-2.805579000
6	0.402075000	4.812457000	-3.270529000
6	1.822932000	2.743167000	-3.239039000
6	2.430329000	1.578595000	-2.617827000
6	3.034806000	0.855076000	-3.613566000
6	2.806815000	1.564335000	-4.860945000
6	2.874753000	1.838219000	-7.355497000
6	3.550025000	1.887516000	-8.644475000
6	2.651467000	2.383258000	-9.551040000
6	-0.881413000	3.614504000	-8.584549000
6	0.162226000	3.043158000	-9.362740000
6	-2.285232000	3.732180000	-8.929130000
6	-2.887278000	4.459649000	-7.933416000
6	-1.859300000	4.795437000	-6.967014000
6	-1.980009000	5.626413000	-5.820083000
6	1.212908000	3.856295000	-2.602303000
6	3.357346000	1.284073000	-6.139622000
17	2.306991000	1.036269000	-0.986775000
6	1.415407000	2.643733000	-8.829771000
17	3.751523000	-0.692443000	-3.366308000
17	-1.498188000	8.245804000	-3.667831000
17	-4.588264000	4.721062000	-7.838312000
17	3.049978000	2.775508000	-11.182551000
17	5.206888000	1.581664000	-9.010236000
17	-3.148923000	2.980939000	-10.217637000
17	0.653505000	7.051722000	-1.490934000
6	4.523484000	0.362803000	-6.210760000
6	4.430485000	-0.843589000	-6.922121000
6	5.729126000	0.690943000	-5.571276000
6	5.518576000	-1.711373000	-6.979262000
6	6.824070000	-0.165859000	-5.653132000
6	6.719221000	-1.371742000	-6.350953000
1	3.496970000	-1.104096000	-7.412639000
1	5.807190000	1.627001000	-5.025720000
1	5.431402000	-2.650383000	-7.518646000
1	7.757772000	0.104543000	-5.167970000
1	7.570759000	-2.044519000	-6.405286000
6	1.446850000	4.043620000	-1.144973000
6	0.368698000	4.016188000	-0.246579000
6	2.744351000	4.254921000	-0.652815000
6	0.586986000	4.182722000	1.119023000
6	2.956294000	4.447831000	0.710123000

6	1.879694000	4.405390000	1.599566000
1	-0.636122000	3.846381000	-0.622709000
1	3.580548000	4.284925000	-1.345462000
1	-0.252244000	4.143725000	1.807810000
1	3.962352000	4.626427000	1.079270000
1	2.047766000	4.545642000	2.663889000
6	-3.141813000	6.550192000	-5.741656000
6	-3.336579000	7.535843000	-6.722460000
6	-4.058441000	6.447673000	-4.682832000
6	-4.417166000	8.410112000	-6.637101000
6	-5.153823000	7.305090000	-4.615234000
6	-5.331895000	8.292383000	-5.587549000
1	-2.627861000	7.623301000	-7.541080000
1	-3.917338000	5.680906000	-3.926604000
1	-4.549205000	9.179664000	-7.392486000
1	-5.866122000	7.206309000	-3.800936000
1	-6.180995000	8.967736000	-5.527792000
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6	-0.365167000	3.950444000	-11.642464000
6	-0.003589000	1.569539000	-11.385347000
6	-0.571474000	3.770493000	-13.007816000
6	-0.237803000	1.388835000	-12.746313000
6	-0.515443000	2.488905000	-13.561565000
1	-0.414518000	4.945784000	-11.210092000
1	0.213894000	0.715837000	-10.750051000
1	-0.781899000	4.629123000	-13.639267000
1	-0.199269000	0.390028000	-13.171846000
1	-0.687850000	2.348011000	-14.625085000
8	1.947438000	4.709730000	-6.135728000
8	-0.452681000	2.084543000	-5.670167000
6	2.472385000	7.782673000	-6.103261000
6	1.668667000	7.041737000	-7.137357000
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6	3.706636000	6.310377000	-8.411743000
6	4.481154000	7.346680000	-7.580427000
6	3.957529000	7.391899000	-6.138196000
1	2.051303000	7.584972000	-5.110030000
1	2.358418000	8.867264000	-6.268730000
1	0.585637000	7.067354000	-7.040995000
1	1.577651000	5.864819000	-8.881954000
1	3.923033000	6.436208000	-9.482055000
1	4.041953000	5.295026000	-8.153443000
1	5.552935000	7.112740000	-7.596138000
1	4.369256000	8.339372000	-8.040419000
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P2_{A2'}

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7	1.963154000	2.902090000	-4.780604000
7	1.520857000	2.459137000	-7.594147000
7	-0.871215000	4.073279000	-7.501196000
6	-1.189217000	5.703284000	-5.058040000
6	-1.030080000	6.788746000	-4.111024000
6	-0.072040000	6.407625000	-3.208694000
6	0.372569000	5.079958000	-3.583811000
6	1.824860000	3.087229000	-3.422105000
6	2.500327000	1.996959000	-2.744640000
6	3.105469000	1.231080000	-3.705565000
6	2.812120000	1.837013000	-4.990323000
6	2.806829000	1.989079000	-7.456687000
6	3.422630000	1.971479000	-8.768788000

6	2.465653000	2.347011000	-9.674644000
6	-1.080008000	3.396424000	-8.686308000
6	-0.040980000	2.849989000	-9.464670000
6	-2.493891000	3.449891000	-8.996940000
6	-3.095610000	4.222504000	-8.037953000
6	-2.062577000	4.656250000	-7.119404000
6	-2.176051000	5.580688000	-6.062359000
6	1.217555000	4.220288000	-2.847228000
6	3.355790000	1.508462000	-6.247030000
17	2.463611000	1.579325000	-1.073555000
6	1.246093000	2.602329000	-8.935143000
17	3.912983000	-0.254506000	-3.374349000
17	-1.735481000	8.362381000	-4.149546000
17	-4.800119000	4.449140000	-7.926587000
17	2.786148000	2.623812000	-11.346988000
17	5.078535000	1.717951000	-9.178371000
17	-3.360528000	2.599903000	-10.219876000
17	0.558485000	7.450893000	-1.988535000
6	4.554151000	0.621068000	-6.307809000
6	4.470620000	-0.643019000	-6.909890000
6	5.778741000	1.038356000	-5.765723000
6	5.587304000	-1.475344000	-6.961864000
6	6.898923000	0.212334000	-5.832508000
6	6.804994000	-1.048015000	-6.427635000
1	3.522847000	-0.974914000	-7.324533000
1	5.850656000	2.018363000	-5.302059000
1	5.507465000	-2.456868000	-7.421098000
1	7.844534000	0.550681000	-5.417676000
1	7.677014000	-1.694797000	-6.474033000
6	1.475178000	4.528008000	-1.409829000
6	0.428174000	4.490997000	-0.477110000
6	2.765748000	4.861158000	-0.972666000
6	0.668873000	4.773658000	0.866295000
6	3.002664000	5.159000000	0.367729000
6	1.955518000	5.112488000	1.291171000
1	-0.572229000	4.226618000	-0.808240000
1	3.579830000	4.896775000	-1.691332000
1	-0.148363000	4.731277000	1.581113000
1	4.004943000	5.425006000	0.692439000
1	2.141733000	5.338876000	2.337577000
6	-3.380333000	6.458754000	-5.995566000
6	-3.636269000	7.395726000	-7.007753000
6	-4.273558000	6.359487000	-4.918376000
6	-4.755738000	8.222459000	-6.939910000
6	-5.401831000	7.175340000	-4.859124000
6	-5.643398000	8.111756000	-5.866970000
1	-2.947212000	7.479900000	-7.843766000
1	-4.085794000	5.630124000	-4.135387000
1	-4.937531000	8.950667000	-7.725664000
1	-6.091753000	7.081475000	-4.024969000
1	-6.520119000	8.751841000	-5.817020000
6	-0.302768000	2.511199000	-10.893648000
6	-0.637986000	3.512620000	-11.817196000
6	-0.213274000	1.182130000	-11.333987000
6	-0.869986000	3.193577000	-13.153514000
6	-0.460726000	0.861275000	-12.667434000
6	-0.785379000	1.866410000	-13.581272000
1	-0.706287000	4.544624000	-11.483993000
1	0.038596000	0.400601000	-10.622644000
1	-1.119623000	3.979903000	-13.860690000
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1	-0.972446000	1.616715000	-14.622184000
8	1.951969000	5.298360000	-6.728572000

8	-0.554029000	1.999454000	-5.640099000
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6	1.642190000	6.690183000	-6.953315000
6	2.204119000	5.865102000	-8.039607000
6	3.666357000	5.964920000	-8.441674000
6	4.386672000	7.174298000	-7.815854000
6	4.002636000	7.380466000	-6.343925000
1	2.200447000	7.709799000	-5.152813000
1	2.286032000	8.683979000	-6.617598000
1	0.571450000	6.894156000	-6.969045000
1	1.515378000	5.486789000	-8.793819000
1	3.732112000	6.012460000	-9.535397000
1	4.159412000	5.030971000	-8.142551000
1	5.470949000	7.046920000	-7.917035000
1	4.125921000	8.082274000	-8.378724000
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1	4.245650000	6.479485000	-5.767196000

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7	1.870578000	2.246165000	-7.181149000
7	-0.297696000	4.279564000	-7.221531000
6	-0.755940000	5.698925000	-4.615200000
6	-0.576757000	6.689564000	-3.565683000
6	0.192988000	6.110623000	-2.591519000
6	0.495637000	4.757667000	-3.034662000
6	1.723580000	2.569924000	-2.910421000
6	2.178547000	1.355337000	-2.256537000
6	2.807875000	0.592929000	-3.207658000
6	2.745754000	1.328124000	-4.458833000
6	3.058448000	1.620880000	-6.932601000
6	3.840518000	1.630651000	-8.159963000
6	3.060091000	2.202463000	-9.129471000
6	-0.442074000	3.695209000	-8.450026000
6	0.616576000	3.045307000	-9.140824000
6	-1.802920000	3.920157000	-8.903076000
6	-2.421574000	4.693391000	-7.953525000
6	-1.446373000	4.947978000	-6.908616000
6	-1.584812000	5.785520000	-5.765974000
6	1.159363000	3.728138000	-2.312804000
6	3.387138000	1.018895000	-5.690123000
17	1.873772000	0.813505000	-0.649123000
6	1.791352000	2.549681000	-8.508524000
17	3.378153000	-1.008283000	-2.923008000
17	-1.040488000	8.351290000	-3.563541000
17	-4.099622000	5.085986000	-7.985396000
17	3.620668000	2.580845000	-10.716055000
17	5.493473000	1.200276000	-8.392624000
17	-2.619506000	3.233109000	-10.256901000
17	0.797756000	6.960059000	-1.218882000
6	4.483888000	0.014041000	-5.672159000
6	4.365985000	-1.176438000	-6.406281000
6	5.649215000	0.247515000	-4.925368000
6	5.388788000	-2.121701000	-6.380784000
6	6.681743000	-0.687148000	-4.924016000
6	6.551127000	-1.876390000	-5.645627000
1	3.462779000	-1.363258000	-6.980114000
1	5.747073000	1.171535000	-4.362776000
1	5.281234000	-3.047429000	-6.939118000
1	7.586372000	-0.490310000	-4.355515000
1	7.352825000	-2.609779000	-5.635146000

6	1.280894000	3.886547000	-0.838612000
6	0.130222000	3.949424000	-0.037332000
6	2.544196000	3.983350000	-0.234569000
6	0.242552000	4.090930000	1.343881000
6	2.652552000	4.152386000	1.143595000
6	1.503017000	4.199419000	1.936345000
1	-0.848770000	3.868845000	-0.501009000
1	3.436587000	3.944305000	-0.852586000
1	-0.653562000	4.121980000	1.957292000
1	3.634250000	4.242534000	1.600149000
1	1.589388000	4.320634000	3.012708000
6	-2.667246000	6.802344000	-5.771344000
6	-2.713366000	7.788058000	-6.770738000
6	-3.659906000	6.785510000	-4.777965000
6	-3.724124000	8.745834000	-6.766143000
6	-4.685092000	7.727957000	-4.792752000
6	-4.715739000	8.713999000	-5.782057000
1	-1.939271000	7.807031000	-7.531962000
1	-3.633125000	6.018771000	-4.009190000
1	-3.741951000	9.514879000	-7.533386000
1	-5.457810000	7.696094000	-4.029824000
1	-5.509865000	9.455652000	-5.786108000
6	0.487252000	2.861623000	-10.609351000
6	0.323545000	3.969982000	-11.456067000
6	0.523460000	1.573503000	-11.167847000
6	0.214969000	3.793930000	-12.832954000
6	0.385358000	1.398309000	-12.542492000
6	0.238360000	2.507851000	-13.378713000
1	0.297668000	4.968754000	-11.029644000
1	0.640119000	0.712481000	-10.516196000
1	0.105541000	4.659430000	-13.480415000
1	0.397466000	0.396331000	-12.962035000
1	0.141935000	2.370911000	-14.452304000
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6	2.545995000	6.751428000	-7.170486000
6	1.415328000	7.712626000	-7.182178000
6	0.966330000	8.312280000	-8.299623000
6	1.604126000	8.117208000	-9.653774000
6	3.017029000	7.522184000	-9.534779000
6	3.026322000	6.333331000	-8.559102000
1	2.247183000	5.760837000	-6.565124000
1	3.361886000	7.104366000	-6.523939000
1	0.955035000	7.954247000	-6.225117000
1	0.136110000	9.015052000	-8.233483000
1	1.636459000	9.076571000	-10.188329000
1	0.971178000	7.459146000	-10.272815000
1	3.384268000	7.210836000	-10.520479000
1	3.702291000	8.298849000	-9.168758000
1	4.024644000	5.887176000	-8.495598000
1	2.359736000	5.553061000	-8.951276000

Int3_{A2'}

23	0.258206000	3.301598000	-6.367580000
7	-0.416596000	4.730105000	-5.000171000
7	1.927594000	2.897099000	-5.140291000
7	1.137214000	2.142566000	-7.888424000
7	-1.298980000	3.820016000	-7.661199000
6	-1.367111000	5.658905000	-5.299484000
6	-1.119772000	6.838095000	-4.485803000
6	-0.059833000	6.548365000	-3.666159000
6	0.355171000	5.187000000	-3.968087000
6	1.908034000	3.208837000	-3.813782000

6	2.630168000	2.170895000	-3.094908000
6	3.118780000	1.295965000	-4.031352000
6	2.707074000	1.790315000	-5.335158000
6	2.413626000	1.666870000	-7.831332000
6	2.906248000	1.535240000	-9.194889000
6	1.873734000	1.869831000	-10.031822000
6	-1.593025000	3.064763000	-8.757874000
6	-0.606382000	2.458406000	-9.589798000
6	-3.034469000	3.083496000	-8.944759000
6	-3.555071000	3.919202000	-7.988724000
6	-2.438239000	4.423117000	-7.207962000
6	-2.443113000	5.430077000	-6.205896000
6	1.323243000	4.398673000	-3.289254000
6	3.076784000	1.310557000	-6.620450000
17	2.747128000	1.914107000	-1.394884000
6	0.733164000	2.203869000	-9.191992000
17	3.909840000	-0.183608000	-3.636304000
17	-1.846731000	8.397113000	-4.595543000
17	-5.243999000	4.132939000	-7.721556000
17	2.038135000	2.022663000	-11.740945000
17	4.512380000	1.214465000	-9.734456000
17	-3.999683000	2.136935000	-10.013634000
17	0.686756000	7.703559000	-2.629181000
6	4.234420000	0.383039000	-6.719174000
6	4.062082000	-0.907793000	-7.243938000
6	5.511194000	0.786481000	-6.297318000
6	5.143047000	-1.782111000	-7.328740000
6	6.595615000	-0.079628000	-6.410192000
6	6.412825000	-1.367885000	-6.919265000
1	3.074739000	-1.226350000	-7.565521000
1	5.651271000	1.786811000	-5.897748000
1	4.995751000	-2.784892000	-7.719745000
1	7.582490000	0.248122000	-6.095811000
1	7.257596000	-2.046841000	-6.996737000
6	1.762269000	4.842805000	-1.940321000
6	0.839539000	4.930314000	-0.886144000
6	3.106896000	5.174039000	-1.708690000
6	1.258349000	5.326436000	0.381692000
6	3.515802000	5.596890000	-0.446163000
6	2.595415000	5.666190000	0.602869000
1	-0.199706000	4.667466000	-1.061620000
1	3.815553000	5.127206000	-2.530518000
1	0.540885000	5.374726000	1.196041000
1	4.554552000	5.868020000	-0.279019000
1	2.918936000	5.985020000	1.590028000
6	-3.639252000	6.305225000	-6.097385000
6	-4.029318000	7.114036000	-7.176662000
6	-4.389293000	6.334909000	-4.910913000
6	-5.140165000	7.946354000	-7.065077000
6	-5.516803000	7.146632000	-4.812904000
6	-5.890154000	7.959224000	-5.886261000
1	-3.446218000	7.100329000	-8.092890000
1	-4.093884000	5.706068000	-4.076006000
1	-5.424041000	8.581411000	-7.899521000
1	-6.100616000	7.150000000	-3.896762000
1	-6.763130000	8.600985000	-5.804250000
6	-1.008166000	2.069691000	-10.967464000
6	-1.454443000	3.041404000	-11.877195000
6	-0.946716000	0.726891000	-11.372655000
6	-1.817338000	2.677512000	-13.171568000
6	-1.337897000	0.362413000	-12.658677000
6	-1.766967000	1.337205000	-13.562856000
1	-1.496845000	4.082298000	-11.569758000

1	-0.609328000	-0.028822000	-10.669186000
1	-2.145178000	3.439007000	-13.873610000
1	-1.302911000	-0.681546000	-12.957168000
1	-2.061542000	1.053319000	-14.569475000
8	1.326505000	4.745255000	-7.138408000
8	-0.513180000	2.028588000	-5.717719000
6	4.862797000	5.929266000	-5.222321000
6	3.779681000	6.742556000	-5.543310000
6	3.825161000	8.124223000	-5.391402000
6	5.047575000	8.809087000	-4.844195000
6	5.886187000	7.856009000	-3.973236000
6	6.141751000	6.515178000	-4.686060000
1	2.281319000	4.634634000	-7.248644000
1	4.808916000	4.857515000	-5.401485000
1	2.875049000	6.287673000	-5.944798000
1	2.974087000	8.730127000	-5.690884000
1	4.762742000	9.697661000	-4.264802000
1	5.667153000	9.186816000	-5.676825000
1	6.836073000	8.328081000	-3.694358000
1	5.337466000	7.659892000	-3.042420000
1	6.634718000	5.810545000	-4.002142000
1	6.856911000	6.670970000	-5.513112000

TS4A2'

23	-1.250396000	1.070209000	-6.030510000
7	-2.849340000	1.654428000	-4.779227000
7	-0.990218000	-0.647864000	-4.849853000
7	0.132194000	0.325339000	-7.410974000
7	-1.820604000	2.536199000	-7.415581000
6	-3.349747000	2.926419000	-4.858546000
6	-3.610979000	3.394011000	-3.520593000
6	-3.310393000	2.357512000	-2.660860000
6	-2.872665000	1.248411000	-3.471173000
6	-1.851664000	-1.014312000	-3.856570000
6	-1.815159000	-2.466359000	-3.739777000
6	-0.869443000	-2.919246000	-4.618833000
6	-0.307328000	-1.752833000	-5.284402000
6	1.083123000	-0.577364000	-7.013072000
6	2.323682000	-0.242606000	-7.665034000
6	2.069912000	0.828927000	-8.497090000
6	-1.380207000	2.560077000	-8.707107000
6	-0.108366000	2.078768000	-9.120942000
6	-2.399968000	3.208423000	-9.519795000
6	-3.391388000	3.623294000	-8.670833000
6	-2.994303000	3.243210000	-7.324347000
6	-3.612275000	3.588389000	-6.099835000
6	-2.586124000	-0.092909000	-3.064663000
6	0.798702000	-1.692939000	-6.163697000
17	-2.866492000	-3.497287000	-2.840534000
6	0.670285000	1.148443000	-8.361986000
17	-0.590460000	-4.588037000	-4.955338000
17	-4.049420000	4.977221000	-2.993109000
17	-4.892255000	4.288847000	-9.203217000
17	3.293720000	1.668129000	-9.377342000
17	3.899681000	-0.889517000	-7.392179000
17	-2.508078000	3.298591000	-11.239961000
17	-3.331965000	2.502456000	-0.941504000
6	1.725029000	-2.852737000	-6.213904000
6	1.942466000	-3.537291000	-7.420698000
6	2.399799000	-3.274705000	-5.056957000
6	2.802787000	-4.631212000	-7.464412000
6	3.282083000	-4.351052000	-5.109973000

6	3.479918000	-5.036264000	-6.311161000
1	1.421289000	-3.215899000	-8.317852000
1	2.242955000	-2.741913000	-4.123643000
1	2.950887000	-5.163982000	-8.399588000
1	3.811843000	-4.658338000	-4.212666000
1	4.160621000	-5.882388000	-6.349037000
6	-3.096225000	-0.551056000	-1.747944000
6	-4.470703000	-0.513766000	-1.460186000
6	-2.207677000	-1.029083000	-0.770640000
6	-4.945863000	-0.959640000	-0.229842000
6	-2.682865000	-1.449399000	0.469280000
6	-4.052935000	-1.422692000	0.740277000
1	-5.163847000	-0.148424000	-2.212485000
1	-1.142764000	-1.050155000	-0.983211000
1	-6.012644000	-0.941045000	-0.024830000
1	-1.984152000	-1.801575000	1.222987000
1	-4.423802000	-1.760168000	1.704276000
6	-4.592121000	4.704664000	-6.092342000
6	-4.207387000	5.991272000	-6.502970000
6	-5.912521000	4.489776000	-5.664839000
6	-5.121740000	7.041513000	-6.476512000
6	-6.832370000	5.535110000	-5.666743000
6	-6.437648000	6.814649000	-6.066115000
1	-3.184051000	6.165263000	-6.822472000
1	-6.215528000	3.496479000	-5.346392000
1	-4.808650000	8.036454000	-6.780327000
1	-7.855595000	5.353846000	-5.349736000
1	-7.152894000	7.632581000	-6.055362000
8	-0.204099000	1.987782000	-5.211518000
6	0.439253000	2.561314000	-10.413654000
6	0.648909000	3.933532000	-10.628460000
6	0.755678000	1.654441000	-11.438751000
6	1.172173000	4.386084000	-11.837274000
6	1.253111000	2.111704000	-12.656088000
6	1.468350000	3.477839000	-12.856482000
1	0.416864000	4.638806000	-9.835665000
1	0.595184000	0.591966000	-11.279446000
1	1.344998000	5.448365000	-11.985635000
1	1.479035000	1.402055000	-13.447139000
1	1.867064000	3.832759000	-13.802935000
8	-2.616773000	-0.129831000	-6.931600000
1	-3.500987000	-0.034104000	-6.547769000
6	-3.037887000	-2.099249000	-9.027547000
6	-3.501447000	-0.678935000	-9.117943000
6	-4.866745000	-0.366935000	-9.016171000
6	-5.813518000	-1.333689000	-8.753119000
6	-5.442148000	-2.773898000	-8.539965000
6	-3.966972000	-2.934298000	-8.133220000
1	-2.012917000	-2.126324000	-8.646451000
1	-3.012096000	-2.525990000	-10.046994000
1	-2.800748000	0.076490000	-9.449682000
1	-5.181455000	0.663898000	-9.164907000
1	-6.867336000	-1.064237000	-8.732290000
1	-6.099884000	-3.226409000	-7.785339000
1	-5.639364000	-3.335757000	-9.470539000
1	-3.678630000	-3.991373000	-8.159317000
1	-3.833479000	-2.582947000	-7.104045000

P2A2'

23	-1.481727000	1.424676000	-5.587287000
7	-2.914696000	2.057965000	-4.195814000
7	-1.501420000	-0.422487000	-4.629276000

7	-0.661177000	0.482730000	-7.232656000	1	-5.082920000	0.382813000	-1.298813000
7	-2.267135000	2.842591000	-6.896580000	1	-1.024184000	-0.926794000	-0.766380000
6	-3.245352000	3.401386000	-4.152109000	1	-5.636472000	-0.390935000	0.988574000
6	-3.227737000	3.827524000	-2.771304000	1	-1.566983000	-1.681575000	1.531155000
6	-2.959275000	2.722813000	-2.001725000	1	-3.877651000	-1.422124000	2.413254000
6	-2.811108000	1.596546000	-2.894488000	6	-4.365222000	5.420005000	-5.110995000
6	-2.247442000	-0.721964000	-3.513084000	6	-3.805120000	6.638711000	-5.522913000
6	-2.400114000	-2.160532000	-3.441251000	6	-5.640675000	5.420544000	-4.526505000
6	-1.677192000	-2.699304000	-4.471899000	6	-4.502944000	7.832113000	-5.347260000
6	-1.065108000	-1.599255000	-5.190311000	6	-6.344290000	6.612229000	-4.364982000
6	0.189622000	-0.588657000	-7.058531000	6	-5.775669000	7.821515000	-4.771816000
6	1.314589000	-0.425726000	-7.957343000	1	-2.814046000	6.646727000	-5.967854000
6	1.076327000	0.691877000	-8.713770000	1	-6.082833000	4.480325000	-4.208468000
6	-2.053849000	2.864992000	-8.255751000	1	-4.053731000	8.770433000	-5.660791000
6	-0.948221000	2.263027000	-8.898519000	1	-7.335408000	6.597804000	-3.919834000
6	-3.080981000	3.688899000	-8.861144000	1	-6.321933000	8.751633000	-4.640415000
6	-3.837314000	4.211661000	-7.844804000	8	-0.198750000	2.140031000	-4.998928000
6	-3.284647000	3.722503000	-6.598396000	6	-0.564601000	2.739789000	-10.259303000
6	-3.614612000	4.143930000	-5.290466000	6	-0.119597000	4.056567000	-10.448603000
6	-2.683633000	0.233022000	-2.567563000	6	-0.645530000	1.882275000	-11.366484000
6	-0.096627000	-1.679017000	-6.214691000	6	0.245246000	4.503148000	-11.717487000
17	-3.427023000	-3.077764000	-2.403818000	6	-0.295695000	2.334037000	-12.637168000
6	-0.201355000	1.233461000	-8.295192000	6	0.154228000	3.644528000	-12.815292000
17	-1.690352000	-4.373756000	-4.879133000	1	-0.047596000	4.723506000	-9.593957000
17	-3.348093000	5.425526000	-2.139407000	1	-0.994756000	0.862792000	-11.227773000
17	-5.277623000	5.126928000	-8.092976000	1	0.598885000	5.522041000	-11.849402000
17	2.213569000	1.354405000	-9.825205000	1	-0.371776000	1.662889000	-13.488319000
17	2.783056000	-1.324498000	-8.014364000	1	0.432942000	3.994817000	-13.805463000
17	-3.458396000	3.882066000	-10.531909000	8	-3.866782000	0.242418000	-6.236807000
17	-2.701415000	2.782134000	-0.299621000	1	-4.192709000	0.826731000	-5.528209000
6	0.643158000	-2.959593000	-6.406109000	6	-5.703438000	-2.519205000	-8.146219000
6	0.517017000	-3.684096000	-7.600816000	6	-4.622523000	-1.735540000	-8.846987000
6	1.473421000	-3.458174000	-5.391113000	6	-4.219351000	-0.518147000	-8.468626000
6	1.199842000	-4.886346000	-7.773127000	6	-4.832157000	0.231734000	-7.313810000
6	2.168897000	-4.652428000	-5.570798000	6	-6.155874000	-0.401842000	-6.859943000
6	2.030686000	-5.371414000	-6.760247000	6	-6.037690000	-1.927367000	-6.769296000
1	-0.129845000	-3.306309000	-8.387714000	1	-5.390358000	-3.567179000	-8.045706000
1	1.580649000	-2.898029000	-4.466407000	1	-6.604379000	-2.540672000	-8.781171000
1	1.085902000	-5.443700000	-8.698920000	1	-4.156171000	-2.204599000	-9.713094000
1	2.817355000	-5.022831000	-4.781542000	1	-3.413547000	-0.016011000	-8.998926000
1	2.568389000	-6.305711000	-6.897469000	1	-5.015954000	1.271610000	-7.624413000
6	-3.016542000	-0.220932000	-1.187398000	1	-6.454873000	0.029368000	-5.895014000
6	-4.314617000	-0.068393000	-0.676980000	1	-6.937974000	-0.129124000	-7.582796000
6	-2.033081000	-0.812422000	-0.380051000	1	-6.963171000	-2.366210000	-6.378638000
6	-4.624817000	-0.505398000	0.608949000	1	-5.236225000	-2.175640000	-6.063074000
6	-2.340018000	-1.234746000	0.912012000				
6	-3.637229000	-1.086545000	1.408072000				

Model A4/B4

Re_{B4}

23	-0.501546000	1.323788000	-4.636036000
7	-0.861109000	1.844018000	-2.696645000
7	1.471359000	1.565367000	-4.307717000
7	-0.061238000	0.466553000	-6.403871000
7	-2.374821000	0.560835000	-4.729184000
6	-2.082614000	2.391768000	-2.369969000
6	-1.862597000	3.361215000	-1.316826000
6	-0.550848000	3.247358000	-0.924898000
6	0.090012000	2.295072000	-1.815024000
6	2.083944000	1.522287000	-3.072564000
6	3.489062000	1.239673000	-3.288135000
6	3.710430000	1.283422000	-4.642371000
6	2.427881000	1.476261000	-5.290633000
6	0.911787000	1.020643000	-7.201012000
6	0.520704000	0.809860000	-8.580801000
6	-0.581174000	-0.009628000	-8.571433000
6	-2.704169000	-0.564579000	-5.454814000
6	-2.098346000	-0.896088000	-6.692504000
6	-3.903646000	-1.118940000	-4.868566000
6	-4.343245000	-0.239392000	-3.908039000
6	-3.359659000	0.818883000	-3.805500000
6	-3.304931000	1.850378000	-2.833863000
6	1.464189000	1.962148000	-1.880773000
6	2.156045000	1.448299000	-6.681301000
17	4.685728000	0.801684000	-2.140966000
6	-0.957345000	-0.224493000	-7.183886000
17	5.245493000	0.981404000	-5.354757000
17	-2.944820000	4.550460000	-0.704515000
17	-5.737630000	-0.521239000	-2.940000000
17	-1.399992000	-0.503957000	-9.999865000
17	1.175095000	1.519831000	-10.004553000
17	-4.641413000	-2.651380000	-5.155211000
17	0.145437000	4.204499000	0.319813000
6	3.274544000	1.776326000	-7.609920000
6	3.845352000	0.801951000	-8.442655000
6	3.786838000	3.082078000	-7.629350000
6	4.912210000	1.128388000	-9.275424000
6	4.841493000	3.411355000	-8.479929000
6	5.409381000	2.434392000	-9.299761000
1	3.464227000	-0.214873000	-8.418782000
1	3.347934000	3.838878000	-6.985115000
1	5.356538000	0.363609000	-9.906105000
1	5.222968000	4.428355000	-8.496521000
1	6.238379000	2.688250000	-9.954605000
6	2.293874000	2.182854000	-0.660783000
6	2.128575000	1.329519000	0.439162000
6	3.229691000	3.226539000	-0.598365000
6	2.904377000	1.513415000	1.584057000
6	3.980431000	3.422239000	0.557566000
6	3.821970000	2.563107000	1.649629000
1	1.441855000	0.489789000	0.393954000
1	3.354205000	3.891007000	-1.449199000
1	2.787506000	0.824231000	2.415008000
1	4.693617000	4.240606000	0.605125000
1	4.418123000	2.710437000	2.546255000

6	-4.590246000	2.272903000	-2.210996000
6	-5.564732000	2.894800000	-3.006133000
6	-4.862617000	2.030791000	-0.855635000
6	-6.785212000	3.282931000	-2.453242000
6	-6.089012000	2.400131000	-0.309862000
6	-7.050221000	3.030400000	-1.105428000
1	-5.356910000	3.085698000	-4.055268000
1	-4.119011000	1.536026000	-0.237488000
1	-7.529912000	3.765155000	-3.080192000
1	-6.294793000	2.196572000	0.737181000
1	-8.004178000	3.322759000	-0.675132000
8	-0.809357000	2.766699000	-5.223761000
6	-2.708196000	-1.932334000	-7.571019000
6	-3.987411000	-1.772759000	-8.124935000
6	-1.967266000	-3.086211000	-7.871880000
6	-4.515041000	-2.748596000	-8.967621000
6	-2.504251000	-4.069082000	-8.702004000
6	-3.775388000	-3.899339000	-9.255012000
1	-4.572209000	-0.883971000	-7.907940000
1	-0.978649000	-3.214936000	-7.440137000
1	-5.509956000	-2.608391000	-9.377799000
1	-1.928228000	-4.964506000	-8.918151000
1	-4.190146000	-4.663011000	-9.907472000
8	1.587560000	-1.813660000	0.984560000
8	0.415753000	-2.672714000	1.003735000
1	-0.128781000	-2.239188000	0.318551000
1	1.996775000	-2.082473000	0.131715000
6	-8.182121000	3.032977000	-6.717797000
6	-9.174125000	3.764296000	-5.844525000
6	-9.931872000	3.159579000	-4.921376000
6	-9.905864000	1.671348000	-4.663389000
6	-9.191431000	0.907331000	-5.790164000
6	-7.891562000	1.615544000	-6.199299000
1	-7.249535000	3.610713000	-6.784848000
1	-8.568638000	2.986999000	-7.748599000
1	-9.268230000	4.839505000	-5.994448000
1	-10.619308000	3.753133000	-4.319094000
1	-10.932474000	1.298675000	-4.542710000
1	-9.405309000	1.474766000	-3.702079000
1	-8.985861000	-0.122733000	-5.467648000
1	-9.858808000	0.845247000	-6.662007000
1	-7.356395000	1.028125000	-6.953253000
1	-7.236069000	1.679094000	-5.320003000
8	-7.172761000	-1.470025000	-7.671475000
1	-8.053405000	-1.246696000	-7.334533000
1	-6.725218000	-1.893949000	-6.922217000
8	-0.328293000	-0.697814000	-3.857736000
8	-0.099129000	-1.462947000	-1.603893000
6	1.047261000	-1.633305000	-2.260583000
8	2.072273000	-2.087880000	-1.797000000
8	0.999297000	-1.226849000	-3.556502000
1	-0.686720000	-1.067182000	-2.327768000

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23	-1.401038000	0.743097000	-4.660164000
7	-1.753487000	1.273674000	-2.682905000

7	0.390326000	1.715291000	-4.585373000	6	-6.870525000	-0.862740000	0.592586000
7	-0.911273000	-0.010507000	-6.525283000	1	-6.454547000	-0.251619000	-2.731464000
7	-2.981367000	-0.631715000	-4.551524000	1	-3.493361000	-0.489035000	0.390917000
6	-2.996765000	1.089240000	-2.115156000	1	-8.241001000	-0.695036000	-1.065948000
6	-3.285806000	2.248200000	-1.294191000	1	-5.270487000	-0.963649000	2.037485000
6	-2.184926000	3.065397000	-1.333277000	1	-7.651658000	-1.062045000	1.321441000
6	-1.195484000	2.415604000	-2.166535000	8	-2.374525000	1.937813000	-5.291689000
6	0.922227000	2.264982000	-3.433926000	6	-3.500503000	-2.451893000	-7.802868000
6	2.363409000	2.273139000	-3.567024000	6	-4.885865000	-2.348594000	-8.004188000
6	2.664069000	1.805038000	-4.820561000	6	-2.777123000	-3.420666000	-8.514292000
6	1.414302000	1.502292000	-5.486653000	6	-5.530349000	-3.190946000	-8.908565000
6	0.020090000	0.600043000	-7.325103000	6	-3.426276000	-4.272712000	-9.405334000
6	-0.419255000	0.470996000	-8.703585000	6	-4.803476000	-4.156786000	-9.608579000
6	-1.562187000	-0.284186000	-8.699991000	1	-5.449234000	-1.598180000	-7.455135000
6	-3.170288000	-1.634643000	-5.466443000	1	-1.706448000	-3.510894000	-8.353996000
6	-2.812284000	-1.545005000	-6.838340000	1	-6.601417000	-3.095696000	-9.066645000
6	-3.878604000	-2.712178000	-4.805388000	1	-2.857165000	-5.026360000	-9.942575000
6	-4.142302000	-2.302088000	-3.516925000	1	-5.308106000	-4.817409000	-10.308405000
6	-3.610638000	-0.962377000	-3.372048000	8	-0.330609000	0.295438000	0.707782000
6	-3.784905000	-0.069647000	-2.284748000	8	-1.163648000	-0.837607000	1.079311000
6	0.154385000	2.786920000	-2.372785000	1	-1.263937000	-1.275144000	0.208592000
6	1.224637000	1.159340000	-6.842732000	1	0.511736000	-0.155361000	0.485301000
17	3.546430000	2.609430000	-2.365844000	6	-3.888035000	3.258928000	-7.172882000
6	-1.844426000	-0.642604000	-7.319742000	6	-4.254966000	2.378410000	-6.009828000
17	4.268803000	1.495935000	-5.361326000	6	-4.759212000	2.907967000	-4.818085000
17	-4.772438000	2.687986000	-0.536987000	6	-4.645636000	4.353087000	-4.472595000
17	-4.814024000	-3.329939000	-2.306691000	6	-3.767132000	5.132191000	-5.463707000
17	-2.522798000	-0.565497000	-10.104740000	6	-4.129953000	4.757515000	-6.907091000
17	0.219175000	1.235158000	-10.111080000	1	-4.461690000	2.920170000	-8.046771000
17	-4.197398000	-4.305952000	-5.380876000	1	-2.836062000	3.070422000	-7.418269000
17	-2.139375000	4.644950000	-0.644388000	1	-4.436633000	1.326953000	-6.201782000
6	2.339103000	1.390028000	-7.807497000	1	-5.206540000	2.225930000	-4.100706000
6	2.944305000	0.309203000	-8.466116000	1	-4.276110000	4.447827000	-3.441582000
6	2.794512000	2.690317000	-8.071833000	1	-5.664762000	4.779122000	-4.443080000
6	3.988108000	0.524280000	-9.363945000	1	-3.888553000	6.208571000	-5.300760000
6	3.827509000	2.905959000	-8.981830000	1	-2.713448000	4.892198000	-5.275104000
6	4.429225000	1.823184000	-9.627409000	1	-3.551126000	5.353526000	-7.620852000
1	2.602749000	-0.701018000	-8.258331000	1	-5.187743000	4.996651000	-7.084761000
1	2.327889000	3.532061000	-7.567343000	8	-6.316800000	-0.223932000	-5.356265000
1	4.456776000	-0.321959000	-9.858717000	1	-5.821612000	-0.987408000	-5.015763000
1	4.165575000	3.918543000	-9.184602000	1	-7.219492000	-0.558399000	-5.474503000
1	5.239564000	1.990935000	-10.331713000	8	-0.537621000	-0.996205000	-3.901994000
6	0.781218000	3.743224000	-1.420008000	8	-0.647796000	-1.779783000	-1.609560000
6	0.836586000	3.444015000	-0.048765000	6	0.523032000	-1.187924000	-1.854170000
6	1.317318000	4.956346000	-1.880235000	8	1.414123000	-1.034747000	-1.048810000
6	1.433364000	4.338330000	0.837807000	8	0.666849000	-0.744185000	-3.129734000
6	1.896475000	5.855596000	-0.987900000	1	-1.122317000	-1.708218000	-2.488324000
6	1.961429000	5.545235000	0.372853000				
1	0.413567000	2.512171000	0.316293000				
1	1.269182000	5.194231000	-2.939541000				
1	1.482035000	4.092349000	1.894916000				
1	2.300062000	6.795837000	-1.353843000				
1	2.420541000	6.242755000	1.068430000				
6	-4.855560000	-0.350256000	-1.286482000				
6	-6.200492000	-0.413949000	-1.686831000				
6	-4.529764000	-0.541021000	0.066123000				
6	-7.201612000	-0.660069000	-0.749927000				
6	-5.534512000	-0.806131000	0.995533000				

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23	-1.702518000	0.570842000	-4.768343000
7	-2.283805000	1.355674000	-2.956896000
7	-0.179629000	1.938445000	-4.878379000
7	-1.393373000	0.052432000	-6.735697000
7	-3.358543000	-0.703549000	-4.713275000
6	-3.486947000	1.066531000	-2.343383000
6	-3.863750000	2.213507000	-1.547077000
6	-2.840101000	3.126717000	-1.626034000
6	-1.812094000	2.554851000	-2.469605000
6	0.307431000	2.591117000	-3.764274000

6	1.733439000	2.782928000	-3.949512000
6	2.050740000	2.321969000	-5.201441000
6	0.826364000	1.835924000	-5.813539000
6	-0.539228000	0.728478000	-7.573841000
6	-1.002789000	0.526500000	-8.933960000
6	-2.077837000	-0.326100000	-8.883174000
6	-3.436961000	-1.772176000	-5.586837000
6	-3.140860000	-1.673643000	-6.968449000
6	-3.929224000	-2.914083000	-4.854820000
6	-4.192443000	-2.500040000	-3.567551000
6	-3.880310000	-1.093390000	-3.489874000
6	-4.142365000	-0.184401000	-2.437132000
6	-0.502886000	3.047110000	-2.701684000
6	0.623567000	1.417974000	-7.147398000
17	2.903366000	3.311889000	-2.803875000
6	-2.288139000	-0.678378000	-7.493208000
17	3.663867000	2.213400000	-5.793621000
17	-5.372967000	2.530116000	-0.776727000
17	-4.654074000	-3.561796000	-2.291910000
17	-3.052737000	-0.717300000	-10.249602000
17	-0.477593000	1.307302000	-10.378522000
17	-4.043226000	-4.552136000	-5.373363000
17	-2.928108000	4.715399000	-0.963667000
6	1.680007000	1.712071000	-8.160118000
6	2.373939000	0.665129000	-8.784897000
6	1.991966000	3.036002000	-8.503267000
6	3.363684000	0.937311000	-9.727642000
6	2.970500000	3.307221000	-9.457217000
6	3.661278000	2.258502000	-10.069277000
1	2.143223000	-0.362340000	-8.517367000
1	1.456108000	3.851549000	-8.025288000
1	3.901812000	0.118040000	-10.196393000
1	3.196648000	4.336769000	-9.721028000
1	4.429034000	2.470309000	-10.808498000
6	0.035953000	4.073491000	-1.764752000
6	0.160241000	3.785197000	-0.396096000
6	0.416227000	5.340063000	-2.234983000
6	0.670497000	4.743493000	0.477908000
6	0.908608000	6.301748000	-1.355726000
6	1.042836000	6.003031000	0.002466000
1	-0.147184000	2.812985000	-0.020780000
1	0.317941000	5.569610000	-3.292763000
1	0.771970000	4.506629000	1.533343000
1	1.190902000	7.282052000	-1.729996000
1	1.434062000	6.750246000	0.687730000
6	-5.160237000	-0.556202000	-1.415908000
6	-6.475846000	-0.847378000	-1.815368000
6	-4.823240000	-0.625106000	-0.054344000
6	-7.440122000	-1.187637000	-0.869587000
6	-5.788051000	-0.984721000	0.885307000
6	-7.097144000	-1.260466000	0.482980000
1	-6.736275000	-0.802806000	-2.870069000
1	-3.805667000	-0.417162000	0.266884000
1	-8.456746000	-1.401150000	-1.188254000
1	-5.514615000	-1.047774000	1.934849000
1	-7.847348000	-1.533915000	1.220131000
8	-2.941231000	2.224105000	-5.726406000
6	-3.760708000	-2.673392000	-7.883001000
6	-5.158774000	-2.750227000	-7.986486000
6	-2.968903000	-3.556601000	-8.632587000
6	-5.750624000	-3.685534000	-8.833570000
6	-3.563347000	-4.501479000	-9.465782000
6	-4.955210000	-4.565030000	-9.571711000
1	-5.776043000	-2.066553000	-7.409202000
1	-1.886918000	-3.508602000	-8.546171000
1	-6.833206000	-3.729973000	-8.914289000

1	-2.941074000	-5.188381000	-10.032784000
1	-5.417934000	-5.299009000	-10.225931000
8	-0.768955000	0.491008000	0.347066000
8	-1.467600000	-0.681194000	0.846833000
1	-1.522323000	-1.218078000	0.030112000
1	0.143500000	0.144450000	0.267082000
6	-3.972051000	3.025726000	-7.883520000
6	-4.166327000	2.589475000	-6.442275000
6	-3.664636000	3.411351000	-5.319708000
6	-2.959045000	4.724744000	-5.564912000
6	-2.411764000	4.841444000	-6.996389000
6	-3.492961000	4.482955000	-8.025127000
1	-4.920794000	2.887189000	-8.415352000
1	-3.255179000	2.339974000	-8.350854000
1	-4.982724000	1.898241000	-6.242257000
1	-4.148985000	3.301593000	-4.350064000
1	-2.160002000	4.845805000	-4.823293000
1	-3.688341000	5.525285000	-5.374614000
1	-2.052558000	5.863520000	-7.163606000
1	-1.548678000	4.174735000	-7.114316000
1	-3.124255000	4.647100000	-9.043963000
1	-4.348008000	5.160466000	-7.889198000
8	-6.268445000	0.278642000	-5.317587000
1	-6.531224000	0.785151000	-4.533506000
1	-5.345504000	0.025506000	-5.136245000
8	-0.697196000	-0.829001000	-4.083106000
8	-0.710559000	-1.805863000	-1.801739000
6	0.353822000	-1.020895000	-1.999911000
8	1.211204000	-0.803803000	-1.178459000
8	0.434566000	-0.435774000	-3.223415000
1	-1.216366000	-1.810439000	-2.648399000

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23	-1.305997000	0.770425000	-4.684820000
7	-1.658446000	1.321040000	-2.718796000
7	0.530053000	1.636508000	-4.588030000
7	-0.843571000	0.001859000	-6.559259000
7	-2.985866000	-0.491119000	-4.609237000
6	-2.902982000	1.183995000	-2.146232000
6	-3.132242000	2.336660000	-1.298800000
6	-1.997142000	3.105274000	-1.331921000
6	-1.042506000	2.425497000	-2.182847000
6	1.075677000	2.160438000	-3.433890000
6	2.517406000	2.092156000	-3.548465000
6	2.809483000	1.605029000	-4.796695000
6	1.555099000	1.369595000	-5.479301000
6	0.131555000	0.559437000	-7.339972000
6	-0.294278000	0.470087000	-8.724681000
6	-1.483343000	-0.210553000	-8.739284000
6	-3.202631000	-1.485552000	-5.526804000
6	-2.832965000	-1.405235000	-6.897164000
6	-3.921874000	-2.555516000	-4.869431000
6	-4.164432000	-2.154225000	-3.577065000
6	-3.611194000	-0.824586000	-3.427725000
6	-3.740952000	0.057435000	-2.325424000
6	0.323653000	2.726141000	-2.380500000
6	1.363731000	1.041652000	-6.836116000
17	3.701143000	2.370439000	-2.333841000
6	-1.807645000	-0.560355000	-7.367840000
17	4.402294000	1.207464000	-5.313960000
17	-4.585052000	2.817619000	-0.502040000
17	-4.847639000	-3.179534000	-2.372421000
17	-2.432300000	-0.420148000	-10.170888000
17	0.410619000	1.198040000	-10.118337000
17	-4.279241000	-4.134056000	-5.461983000

17	-1.873445000	4.662981000	-0.607488000
6	2.503007000	1.197550000	-7.785758000
6	3.041804000	0.077575000	-8.436775000
6	3.045827000	2.464810000	-8.045635000
6	4.108164000	0.221533000	-9.322139000
6	4.100791000	2.609628000	-8.944321000
6	4.637168000	1.488094000	-9.581375000
1	2.631645000	-0.907441000	-8.231942000
1	2.629429000	3.336322000	-7.548053000
1	4.525788000	-0.654641000	-9.810435000
1	4.506957000	3.597269000	-9.144776000
1	5.464938000	1.600643000	-10.276291000
6	0.996835000	3.653740000	-1.430602000
6	1.052050000	3.351830000	-0.059973000
6	1.583226000	4.840654000	-1.897560000
6	1.698418000	4.218080000	0.819632000
6	2.211141000	5.712949000	-1.011381000
6	2.276015000	5.399756000	0.348655000
1	0.592428000	2.439368000	0.309960000
1	1.535007000	5.080399000	-2.956397000
1	1.747302000	3.970124000	1.876282000
1	2.653017000	6.633940000	-1.381883000
1	2.773832000	6.075453000	1.039104000
6	-4.785715000	-0.214206000	-1.299590000
6	-6.142102000	-0.282593000	-1.657915000
6	-4.423746000	-0.402649000	0.044781000
6	-7.118179000	-0.521919000	-0.694057000
6	-5.402279000	-0.662077000	1.003342000
6	-6.749463000	-0.716560000	0.639972000
1	-6.428942000	-0.143219000	-2.696828000
1	-3.378608000	-0.357843000	0.341013000
1	-8.164987000	-0.562027000	-0.983016000
1	-5.107885000	-0.817838000	2.037331000
1	-7.509840000	-0.911002000	1.391594000
8	-2.183978000	2.042305000	-5.328230000
6	-3.572986000	-2.260675000	-7.866564000
6	-4.964844000	-2.122748000	-8.006626000
6	-2.905632000	-3.219866000	-8.642477000
6	-5.668015000	-2.909392000	-8.918709000
6	-3.611888000	-4.018472000	-9.540221000
6	-4.991939000	-3.860601000	-9.687155000
1	-5.492286000	-1.400834000	-7.388412000
1	-1.832899000	-3.345539000	-8.527720000
1	-6.742939000	-2.788102000	-9.020962000
1	-3.083866000	-4.765030000	-10.126866000
1	-5.539387000	-4.480299000	-10.391858000
8	-0.223244000	0.245921000	0.590374000
8	-1.094136000	-0.840455000	1.010585000
1	-1.221045000	-1.304021000	0.156543000
1	0.601766000	-0.243204000	0.385104000
6	-4.654234000	2.607229000	-5.968593000
6	-5.509996000	2.203084000	-4.880807000
6	-5.963078000	3.080028000	-3.930186000
6	-5.620112000	4.539011000	-3.947098000
6	-4.416804000	4.854564000	-4.851981000
6	-4.505955000	4.107787000	-6.190489000
1	-4.743757000	1.998289000	-6.877294000
1	-3.486693000	2.244899000	-5.597351000
1	-5.788187000	1.153820000	-4.811163000
1	-6.624354000	2.720873000	-3.144715000
1	-5.438931000	4.884095000	-2.920828000
1	-6.512631000	5.093669000	-4.286496000
1	-4.345732000	5.935493000	-5.016390000
1	-3.495890000	4.547822000	-4.340549000
1	-3.618687000	4.309799000	-6.800960000
1	-5.372882000	4.463955000	-6.769549000

8	-5.250078000	1.102923000	-8.951222000
1	-5.218418000	0.137904000	-9.049381000
1	-4.483695000	1.400808000	-9.464925000
8	-0.570795000	-1.019175000	-3.943679000
8	-0.670881000	-1.856962000	-1.668501000
6	0.523843000	-1.318896000	-1.924772000
8	1.436832000	-1.230976000	-1.134148000
8	0.663947000	-0.849111000	-3.189845000
1	-1.159836000	-1.742014000	-2.534181000

Int2B4

23	-1.231151000	0.888256000	-
4.590245000			
7	-1.597407000	1.470135000	-2.643523000
7	0.569824000	1.737914000	-4.516867000
7	-0.837770000	0.188194000	-6.494079000
7	-3.018468000	-0.255974000	-4.570754000
6	-2.867891000	1.394488000	-2.101421000
6	-3.069050000	2.568771000	-1.280551000
6	-1.898793000	3.285876000	-1.289345000
6	-0.954828000	2.558923000	-2.107211000
6	1.146621000	2.233810000	-3.350492000
6	2.576718000	2.116582000	-3.482488000
6	2.844812000	1.649382000	-4.748538000
6	1.587100000	1.471319000	-5.429444000
6	0.128229000	0.754786000	-7.285579000
6	-0.332014000	0.715242000	-8.659042000
6	-1.532245000	0.052216000	-8.668241000
6	-3.256779000	-1.247668000	-5.488929000
6	-2.867864000	-1.173621000	-6.851756000
6	-4.014194000	-2.293286000	-4.836338000
6	-4.254478000	-1.881248000	-3.546023000
6	-3.657769000	-0.572514000	-3.391715000
6	-3.753036000	0.309678000	-2.286610000
6	0.423284000	2.813346000	-2.291771000
6	1.377411000	1.195045000	-6.793525000
17	3.779182000	2.329295000	-2.274345000
6	-1.830625000	-0.333789000	-7.302196000
17	4.420329000	1.219387000	-5.287551000
17	-4.525448000	3.131990000	-0.551271000
17	-4.989033000	-2.876021000	-2.346088000
17	-2.529306000	-0.096781000	-10.067156000
17	0.354940000	1.478526000	-10.041984000
17	-4.425122000	-3.855812000	-5.429875000
17	-1.721951000	4.844509000	-0.580704000
6	2.507275000	1.362981000	-7.752455000
6	3.012217000	0.258333000	-8.454718000
6	3.075973000	2.626968000	-7.969191000
6	4.070275000	0.413510000	-9.348150000
6	4.124197000	2.783630000	-8.873972000
6	4.626447000	1.676842000	-9.562479000
1	2.581186000	-0.724447000	-8.285011000
1	2.684717000	3.487615000	-7.433623000
1	4.460346000	-0.451406000	-9.877548000
1	4.550716000	3.769061000	-9.040107000
1	5.448162000	1.798356000	-10.263023000
6	1.125299000	3.707976000	-1.330841000
6	1.153831000	3.399574000	0.039119000
6	1.761678000	4.873586000	-1.785830000

6	1.823239000	4.237070000	0.929539000
6	2.415031000	5.716529000	-0.889683000
6	2.452697000	5.396375000	0.469704000
1	0.654539000	2.504943000	0.401259000
1	1.731431000	5.120896000	-2.843570000
1	1.849571000	3.984382000	1.985888000
1	2.896217000	6.621026000	-1.251705000
1	2.968660000	6.049689000	1.168271000
6	-4.829274000	0.095438000	-1.281152000
6	-6.178733000	0.087065000	-1.670913000
6	-4.505680000	-0.094814000	0.072681000
6	-7.185571000	-0.096221000	-0.726581000
6	-5.515990000	-0.297075000	1.011576000
6	-6.855775000	-0.292895000	0.617259000
1	-6.434381000	0.232769000	-2.716960000
1	-3.465812000	-0.095486000	0.389989000
1	-8.226377000	-0.090010000	-1.038565000
1	-5.253378000	-0.454595000	2.053857000
1	-7.640980000	-0.443263000	1.353306000
8	-2.196185000	2.216065000	-5.228761000
6	-3.578656000	-2.034884000	-7.838394000
6	-4.958980000	-1.886776000	-8.048189000
6	-2.875541000	-3.012351000	-8.559938000
6	-5.617660000	-2.698979000	-8.970210000
6	-3.540893000	-3.832710000	-9.468395000
6	-4.913230000	-3.675829000	-9.678172000
1	-5.515265000	-1.122379000	-7.512387000
1	-1.809336000	-3.136593000	-8.391918000
1	-6.685158000	-2.571514000	-9.128956000
1	-2.988938000	-4.594498000	-10.012091000
1	-5.431100000	-4.313813000	-10.389384000
8	-0.263149000	0.336394000	0.574053000
8	-1.157306000	-0.700585000	1.061663000
1	-1.334436000	-1.184693000	0.229017000
1	0.554672000	-0.178860000	0.415858000
6	-4.987927000	2.963409000	-6.537130000
6	-5.604613000	2.513859000	-5.370381000
6	-5.931432000	3.374165000	-4.323020000
6	-5.613177000	4.840794000	-4.397960000
6	-4.445959000	5.122995000	-5.362353000
6	-4.636251000	4.416133000	-6.717806000
1	-4.782302000	2.262675000	-7.343072000
1	-3.165721000	2.233249000	-5.369168000
1	-5.849982000	1.456570000	-5.284709000
1	-6.436929000	2.988070000	-3.442382000
1	-5.382808000	5.228545000	-3.397753000
1	-6.511216000	5.391036000	-4.729637000
1	-4.329336000	6.202280000	-5.511523000
1	-3.515436000	4.760468000	-4.907783000
1	-3.728785000	4.513891000	-7.326693000
1	-5.435456000	4.918344000	-7.289910000
8	-7.134866000	0.678259000	-7.714329000
1	-6.814349000	0.744237000	-8.626778000
1	-7.007020000	1.569188000	-7.351836000
8	-0.720760000	-0.878140000	-3.901676000
8	-0.810584000	-1.785622000	-1.627264000
6	0.396739000	-1.289804000	-1.906669000
8	1.332399000	-1.261086000	-1.143754000

8	0.536415000	-0.791663000	-3.166868000
1	-1.343157000	-1.647279000	-2.452469000

TS3_{B4}

23	-1.406510000	0.901640000	-4.660321000
7	-1.809022000	1.712073000	-2.802120000
7	0.249290000	2.111701000	-4.843138000
7	-1.233510000	0.389182000	-6.655208000
7	-3.205706000	-0.160012000	-4.560994000
6	-3.015384000	1.559920000	-2.156559000
6	-3.248347000	2.742987000	-1.357119000
6	-2.148109000	3.553596000	-1.492039000
6	-1.213550000	2.871758000	-2.359609000
6	0.841021000	2.695318000	-3.739057000
6	2.274535000	2.706046000	-3.951528000
6	2.508135000	2.200622000	-5.204483000
6	1.221689000	1.873387000	-5.790237000
6	-0.305843000	0.940378000	-7.512305000
6	-0.808652000	0.793216000	-8.862656000
6	-1.985619000	0.091591000	-8.790440000
6	-3.503886000	-1.151458000	-5.469058000
6	-3.221049000	-1.069184000	-6.854696000
6	-4.190640000	-2.212552000	-4.762912000
6	-4.336402000	-1.813475000	-3.455898000
6	-3.765766000	-0.487967000	-3.339118000
6	-3.831692000	0.404268000	-2.245694000
6	0.123794000	3.236258000	-2.650502000
6	0.944928000	1.472995000	-7.114853000
17	3.522633000	3.087436000	-2.829982000
6	-2.232889000	-0.215515000	-7.395244000
17	4.083689000	1.880692000	-5.821322000
17	-4.680579000	3.208974000	-0.521410000
17	-4.942074000	-2.834419000	-2.206869000
17	-2.981736000	-0.202315000	-10.173652000
17	-0.202921000	1.482757000	-10.321757000
17	-4.624577000	-3.780330000	-5.333640000
17	-2.057766000	5.152823000	-0.856936000
6	2.013352000	1.615294000	-8.147509000
6	2.553795000	0.478949000	-8.767546000
6	2.489995000	2.882662000	-8.514096000
6	3.554265000	0.607496000	-9.729363000
6	3.478806000	3.011628000	-9.487187000
6	4.015681000	1.874073000	-10.094961000
1	2.195725000	-0.506088000	-8.481181000
1	2.074450000	3.767258000	-8.039145000
1	3.972903000	-0.280889000	-10.194197000
1	3.833242000	3.999370000	-9.768978000
1	4.791591000	1.974446000	-10.849070000
6	0.800087000	4.214810000	-1.754196000
6	0.942978000	3.941116000	-0.384085000
6	1.297283000	5.422862000	-2.267700000
6	1.585640000	4.855579000	0.448332000
6	1.922595000	6.342504000	-1.429013000
6	2.073575000	6.057766000	-0.069572000
1	0.551293000	3.012785000	0.022822000
1	1.181908000	5.641464000	-3.325925000
1	1.701131000	4.629908000	1.504800000
1	2.294598000	7.278968000	-1.835736000
1	2.568185000	6.771454000	0.583916000
6	-4.806507000	0.143782000	-1.150074000
6	-6.182745000	0.075468000	-1.420557000
6	-4.357901000	-0.022663000	0.170486000
6	-7.094272000	-0.148552000	-0.391965000
6	-5.272716000	-0.265140000	1.194258000
6	-6.640434000	-0.324240000	0.918032000

1	-6.535349000	0.212803000	-2.439252000	6	-3.295824000	-1.479866000	-6.609255000
1	-3.295666000	0.027989000	0.396611000	6	-4.138734000	-2.693181000	-4.499272000
1	-8.157757000	-0.187236000	-0.611604000	6	-4.273276000	-2.307057000	-3.189619000
1	-4.913656000	-0.403011000	2.210291000	6	-3.752782000	-0.956224000	-3.079964000
1	-7.351085000	-0.505093000	1.720098000	6	-3.808052000	-0.087538000	-1.965013000
8	-2.761189000	2.509270000	-5.331304000	6	0.105298000	2.789186000	-2.369534000
6	-4.021428000	-1.929616000	-7.775504000	6	0.693157000	1.297690000	-6.973141000
6	-5.409309000	-1.738274000	-7.880164000	17	3.485347000	2.634288000	-2.732722000
6	-3.416971000	-2.939823000	-8.536728000	6	-2.385305000	-0.548573000	-7.164105000
6	-6.171390000	-2.526128000	-8.743544000	17	3.881454000	1.617129000	-5.824947000
6	-4.181010000	-3.737591000	-9.386806000	17	-4.627728000	2.630008000	-0.083756000
6	-5.557782000	-3.528864000	-9.498280000	17	-4.808192000	-3.358082000	-1.933452000
1	-5.889294000	-0.975137000	-7.271878000	17	-3.425586000	-0.323362000	-9.825404000
1	-2.346528000	-3.103741000	-8.450833000	17	-0.712795000	1.516197000	-10.084452000
1	-7.243270000	-2.364343000	-8.818080000	17	-4.490258000	-4.281034000	-5.069478000
1	-3.700954000	-4.523054000	-9.963928000	17	-2.008728000	4.590489000	-0.377774000
1	-6.150836000	-4.148625000	-10.165060000	6	1.685982000	1.571570000	-8.052017000
8	-0.154203000	0.716896000	0.389290000	6	2.201162000	0.520320000	-8.825644000
8	-0.930876000	-0.387217000	0.927843000	6	2.116099000	2.881420000	-8.313082000
1	-1.068757000	-0.917935000	0.116636000	6	3.130924000	0.773064000	-9.832457000
1	0.717877000	0.289494000	0.266756000	6	3.034084000	3.135640000	-9.330016000
6	-2.686804000	3.573859000	-6.351316000	6	3.546240000	2.081554000	-10.090300000
6	-3.962448000	3.552449000	-7.147767000	1	1.881148000	-0.497583000	-8.621498000
6	-4.905053000	4.496284000	-7.022282000	1	1.721243000	3.701276000	-7.719034000
6	-4.797564000	5.677770000	-6.092821000	1	3.531263000	-0.051391000	-10.416010000
6	-3.708276000	5.476360000	-5.029118000	1	3.353019000	4.155556000	-9.526997000
6	-2.429849000	4.914022000	-5.661277000	1	4.267474000	2.278937000	-10.878741000
1	-1.831379000	3.304546000	-6.978290000	6	0.824365000	3.721060000	-1.456931000
1	-3.644086000	2.103894000	-5.359806000	6	1.025692000	3.380664000	-0.109156000
1	-4.126811000	2.715649000	-7.824234000	6	1.304648000	4.951538000	-1.932069000
1	-5.803762000	4.414849000	-7.632066000	6	1.708128000	4.252721000	0.737325000
1	-5.770311000	5.862062000	-5.618072000	6	1.970869000	5.827781000	-1.078484000
1	-4.586551000	6.581104000	-6.688059000	6	2.179065000	5.477315000	0.257852000
1	-3.497841000	6.419423000	-4.512943000	1	0.650231000	2.433692000	0.269132000
1	-4.067343000	4.773016000	-4.266861000	1	1.146291000	5.221570000	-2.972884000
1	-1.639863000	4.784195000	-4.914115000	1	1.868872000	3.974909000	1.775308000
1	-2.048277000	5.613414000	-6.418829000	1	2.330355000	6.781377000	-1.455759000
8	-5.754301000	1.485658000	-9.199674000	1	2.705414000	6.156957000	0.922799000
1	-5.665902000	0.526253000	-9.081564000	6	-4.737880000	-0.404880000	-0.844796000
1	-5.172877000	1.667574000	-9.953341000	6	-6.121565000	-0.486774000	-1.066974000
8	-0.555384000	-0.614035000	-4.006871000	6	-4.235616000	-0.617819000	0.449501000
8	-0.497822000	-1.570704000	-1.729248000	6	-6.989048000	-0.769497000	-0.014711000
6	0.637615000	-0.925100000	-2.020218000	6	-5.106170000	-0.919306000	1.495792000
8	1.574334000	-0.807274000	-1.268682000	6	-6.482340000	-0.991527000	1.268567000
8	0.695067000	-0.372103000	-3.260385000	1	-6.513705000	-0.314489000	-2.065691000
1	-1.065800000	-1.505764000	-2.534056000	1	-3.166040000	-0.558137000	0.636041000
P2_{B4}				1	-8.059458000	-0.818793000	-0.195390000
23	-1.624809000	0.713154000	-4.497131000	1	-4.706425000	-1.093521000	2.490837000
7	-1.828806000	1.279294000	-2.538413000	1	-7.158651000	-1.219004000	2.088314000
7	0.109309000	1.779670000	-4.620489000	8	-2.739976000	1.995286000	-5.089859000
7	-1.367620000	0.054830000	-6.461656000	6	-4.039938000	-2.386675000	-7.530484000
7	-3.248805000	-0.596891000	-4.310521000	6	-5.442823000	-2.359683000	-7.578762000
6	-3.013569000	1.078503000	-1.859233000	6	-3.349547000	-3.279455000	-8.365002000
6	-3.222302000	2.215292000	-0.989634000	6	-6.138977000	-3.195355000	-8.449932000
6	-2.125816000	3.034187000	-1.109248000	6	-4.046543000	-4.126432000	-9.224061000
6	-1.218670000	2.410040000	-2.046221000	6	-5.442057000	-4.082817000	-9.273088000
6	0.763048000	2.300943000	-3.518011000	1	-5.987944000	-1.678709000	-6.929476000
6	2.180109000	2.322782000	-3.807596000	1	-2.264605000	-3.315180000	-8.324556000
6	2.343891000	1.896541000	-5.102074000	1	-7.224345000	-3.157562000	-8.482665000
6	1.031753000	1.604563000	-5.637875000	1	-3.500505000	-4.820927000	-9.856527000
6	-0.551451000	0.728702000	-7.335218000	1	-5.984070000	-4.739993000	-9.947628000
6	-1.154004000	0.659947000	-8.651710000	8	0.033537000	0.198331000	0.523405000
6	-2.279610000	-0.117795000	-8.545488000	8	-0.719305000	-0.933994000	1.037863000
6	-3.522473000	-1.591957000	-5.215690000	1	-0.927487000	-1.399128000	0.201378000
				1	0.863709000	-0.238788000	0.239575000
				6	-2.401063000	4.215864000	-5.588233000

6	-2.653144000	4.268717000	-6.980235000
6	-3.794127000	4.843729000	-7.483547000
6	-4.854375000	5.434256000	-6.596279000
6	-4.795965000	4.864141000	-5.168587000
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1	-1.406086000	3.963747000	-5.241495000
1	-3.582718000	1.844411000	-5.592710000
1	-1.902480000	3.873637000	-7.661028000
1	-3.915862000	4.935462000	-8.561492000
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1	-4.720755000	6.529861000	-6.576184000
1	-5.444142000	5.443332000	-4.502488000
1	-5.181946000	3.838216000	-5.181091000
1	-3.307973000	4.338375000	-3.657511000
1	-3.013816000	5.880270000	-4.441934000
8	-4.863280000	1.680009000	-6.765850000
1	-4.755260000	0.791503000	-7.144856000
1	-4.524629000	2.288056000	-7.445556000
8	-0.769293000	-0.963391000	-3.928154000
8	-0.521889000	-1.902153000	-1.693369000
6	0.595748000	-1.279276000	-2.078738000
8	1.594028000	-1.163388000	-1.405553000
8	0.551413000	-0.753785000	-3.329763000
1	-1.138460000	-1.799339000	-2.467595000

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7	-1.388101000	1.272973000	-2.194684000
7	0.126720000	2.264164000	-4.496702000
7	-1.395903000	0.439347000	-6.240526000
7	-2.826056000	-0.581429000	-3.914059000
6	-2.428066000	0.914858000	-1.359363000
6	-2.570995000	1.948325000	-0.342020000
6	-1.550483000	2.836364000	-0.517936000
6	-0.765412000	2.378690000	-1.655640000
6	0.962709000	2.595335000	-3.435053000
6	2.294029000	2.634921000	-3.900297000
6	2.260627000	2.378258000	-5.279436000
6	0.912758000	2.183648000	-5.641941000
6	-0.854275000	1.318550000	-7.163302000
6	-1.709995000	1.330746000	-8.338799000
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6	-3.122032000	-1.307448000	-6.262417000
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6	-3.382568000	-2.486316000	-2.801303000
6	-3.088394000	-1.104518000	-2.665253000
6	-3.123975000	-0.295032000	-1.467758000
6	0.457589000	2.888560000	-2.116833000
6	0.350972000	2.009156000	-6.960208000
17	3.755671000	2.831033000	-3.009166000
6	-2.455461000	-0.214923000	-6.843928000
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17	-3.867589000	2.173395000	0.768679000
17	-3.610241000	-3.676657000	-1.576242000
17	-4.027602000	0.166102000	-9.203949000
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17	-3.566929000	-4.369196000	-4.805127000
17	-1.392477000	4.317337000	0.346055000
6	1.093137000	2.570702000	-8.110662000
6	1.443480000	1.757084000	-9.202608000
6	1.485369000	3.921189000	-8.117302000
6	2.167757000	2.279846000	-10.270532000
6	2.187348000	4.447682000	-9.197540000
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1	1.222582000	4.556923000	-7.276845000
1	2.444924000	1.635932000	-11.100470000
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6	1.289129000	3.707833000	-1.206878000
6	1.702749000	3.167812000	0.023644000
6	1.693372000	5.005600000	-1.561447000
6	2.502132000	3.919150000	0.882216000
6	2.470344000	5.761180000	-0.688154000
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1	1.426351000	2.147178000	0.272808000
1	1.379088000	5.423345000	-2.513841000
1	2.831617000	3.489123000	1.823913000
1	2.762090000	6.771574000	-0.961036000
1	3.494536000	5.806027000	1.209943000
6	-3.906644000	-0.793342000	-0.311682000
6	-5.283228000	-1.046016000	-0.429675000
6	-3.266538000	-1.035950000	0.915360000
6	-6.008921000	-1.508086000	0.664861000
6	-3.991080000	-1.524078000	2.000191000
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1	-2.197326000	-0.864645000	1.001013000
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1	-7.009620000	4.893430000	-5.426875000
1	-9.411843000	7.700929000	-3.716405000
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8	0.408639000	-3.299799000	-4.202143000
1	1.323298000	-3.623922000	-4.203470000
1	0.451814000	-2.392023000	-4.567041000
8	0.121271000	-0.642569000	-3.938653000
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6	0.610783000	2.903769000	-3.334166000
6	1.925397000	3.021023000	-3.901865000
6	1.811715000	2.852939000	-5.265161000
6	0.426424000	2.624477000	-5.572734000
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6	-2.266744000	1.831253000	-8.188113000
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6	-3.742970000	-0.791686000	-6.129693000
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6	-4.080207000	-2.075608000	-2.737627000
6	-3.580942000	-0.731187000	-2.536946000
6	-3.478660000	-0.018992000	-1.321668000
6	0.212612000	3.081247000	-1.994274000
6	-0.168752000	2.454054000	-6.840959000
17	3.433695000	3.170951000	-3.089359000
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17	-3.928453000	2.303626000	1.138404000
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17	-4.534287000	-3.822225000	-4.787600000
17	-1.405344000	4.367958000	0.695153000
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6	0.924520000	2.086749000	-9.074558000
6	0.886266000	4.320660000	-8.151166000
6	1.612866000	2.559775000	-10.189367000
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6	1.133756000	3.767918000	-1.045676000
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6	1.482784000	5.115025000	-1.221105000
6	2.534198000	3.679535000	0.929781000
6	2.338195000	5.742743000	-0.318279000
6	2.866393000	5.025499000	0.758496000
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6	-4.192911000	-0.541765000	-0.121279000
6	-5.594033000	-0.589077000	-0.086367000
6	-3.462774000	-0.991738000	0.989086000
6	-6.254405000	-1.067618000	1.043454000
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1	-4.337178000	-3.754068000	-9.680369000
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6	-0.444715000	3.692577000	-2.017074000
6	-0.622053000	2.970731000	-6.842270000
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17	-2.252866000	3.486564000	-9.820651000
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17	-1.832509000	5.500769000	0.513213000
6	0.287633000	3.187278000	-7.996761000
6	0.581259000	2.105126000	-8.842519000
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6	1.195589000	5.399841000	-1.173569000
6	1.714900000	3.822450000	1.073720000
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6	-8.033092000	6.674672000	-4.809662000
6	-6.735106000	6.763459000	-5.135054000
6	-5.636096000	7.000502000	-4.125898000
6	-6.126232000	6.775460000	-2.685858000

6	-7.492844000	7.437657000	-2.460221000
6	-8.553171000	6.840314000	-3.400589000
1	-8.769612000	6.487752000	-5.591135000
1	-5.254217000	8.027261000	-4.244948000
1	-6.437902000	6.666577000	-6.179374000
1	-4.787525000	6.338466000	-4.342999000
1	-5.387642000	7.155629000	-1.970116000
1	-6.216808000	5.694996000	-2.513552000
1	-7.810235000	7.325108000	-1.416469000
1	-7.407996000	8.516820000	-2.651203000
1	-6.967543000	4.392076000	-4.494683000
1	-8.887900000	5.862994000	-3.018391000
8	-1.104004000	-0.519103000	-6.536769000
1	-0.516109000	-1.266702000	-6.352951000
1	-1.301626000	-0.148076000	-5.646891000
8	-1.818021000	0.530326000	-3.969431000
8	-2.233867000	-0.618699000	-1.847782000
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8	-0.354441000	0.156688000	-0.849885000
8	-0.727308000	0.614416000	-3.001741000
1	-2.532344000	-0.477875000	-2.789821000

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7	-2.748138000	1.936043000	-6.214513000
7	-4.467389000	1.264449000	-3.981549000
6	-3.866194000	2.734579000	-1.415674000
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6	-2.435229000	4.220187000	-0.465263000
6	-1.800400000	3.554087000	-1.583663000
6	-0.006437000	3.380415000	-3.320421000
6	1.361014000	3.257037000	-3.786572000
6	1.309770000	3.070880000	-5.144010000
6	-0.089562000	3.063755000	-5.524580000
6	-1.950610000	2.587527000	-7.123011000
6	-2.638893000	2.601201000	-8.396756000
6	-3.777505000	1.848523000	-8.245951000
6	-4.893729000	0.322187000	-4.895947000
6	-4.693968000	0.441962000	-6.283840000
6	-5.655677000	-0.681282000	-4.178729000
6	-5.766636000	-0.253192000	-2.879320000
6	-5.030739000	0.990327000	-2.775331000
6	-4.930832000	1.838261000	-1.625715000
6	-0.444715000	3.692577000	-2.017074000
6	-0.622053000	2.970731000	-6.842270000
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6	-3.806847000	1.393951000	-6.871421000
17	2.699678000	2.746166000	-6.105325000
17	-4.894127000	4.359876000	0.708528000
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17	-4.976004000	1.661163000	-9.466063000
17	-2.252866000	3.486564000	-9.820651000
17	-6.223893000	-2.210781000	-4.724332000
17	-1.832509000	5.500769000	0.513213000
6	0.287633000	3.187278000	-7.996761000
6	0.581259000	2.105126000	-8.842519000
6	0.858957000	4.443248000	-8.246180000
6	1.445432000	2.282255000	-9.920403000
6	1.699917000	4.620052000	-9.342599000
6	1.998902000	3.539508000	-10.177009000
1	0.151522000	1.132057000	-8.619852000
1	0.629181000	5.279219000	-7.591281000
1	1.684538000	1.439819000	-10.563409000

1	2.126902000	5.598685000	-9.543047000
1	2.663825000	3.677375000	-11.025326000
6	0.537379000	4.170864000	-1.011488000
6	0.798680000	3.381435000	0.120672000
6	1.195589000	5.399841000	-1.173569000
6	1.714900000	3.822450000	1.073720000
6	2.087517000	5.846307000	-0.202553000
6	2.351054000	5.056882000	0.920633000
1	0.320878000	2.410262000	0.215945000
1	0.988317000	6.009392000	-2.048738000
1	1.931141000	3.200335000	1.937566000
1	2.580766000	6.806774000	-0.323069000
1	3.054893000	5.402409000	1.673036000
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6	-7.327693000	2.104018000	-1.017117000
6	-5.785409000	1.283813000	0.675020000
6	-8.371005000	2.016207000	-0.096779000
6	-6.838776000	1.172497000	1.578224000
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1	-9.374024000	2.312500000	-0.391234000
1	-6.651869000	0.798700000	2.580959000
1	-8.950383000	1.463302000	1.905627000
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6	-4.599908000	-1.372305000	-7.978108000
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6	-6.605603000	-2.236408000	-9.017762000
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1	-8.461530000	-1.325809000	-8.396509000
1	-4.613328000	-2.951669000	-9.437141000
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1	-5.254217000	8.027261000	-4.244948000
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8	-0.727308000	0.614416000	-3.001741000
1	-2.532344000	-0.477875000	-2.789821000

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23	-1.408516000	0.761537000	-4.660473000
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7	-0.926295000	-0.012427000	-6.532254000
7	-3.012473000	-0.580147000	-4.552682000
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6	-3.258077000	2.290364000	-1.254857000
6	-2.140630000	3.083435000	-1.289450000
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6	2.399073000	2.345033000	-3.602649000
6	2.685721000	1.889850000	-4.857645000
6	1.419952000	1.560571000	-5.503027000
6	0.009501000	0.599731000	-7.326416000
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6	-1.575284000	-0.285142000	-8.702978000
6	-3.214295000	-1.589147000	-5.462333000
6	-2.853977000	-1.515105000	-6.832439000
6	-3.922906000	-2.661440000	-4.788668000
6	-4.177996000	-2.244890000	-3.505195000
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6	-3.802454000	-0.010695000	-2.280097000
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6	1.210391000	1.181292000	-6.849499000
17	3.602378000	2.695778000	-2.416372000
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17	4.294188000	1.604986000	-5.424739000
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17	-2.055921000	4.648902000	-0.562210000
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6	2.933586000	0.309708000	-8.461742000
6	2.758726000	2.695682000	-8.132617000
6	3.969243000	0.510882000	-9.372495000
6	3.784976000	2.898506000	-9.053410000
6	4.395513000	1.806303000	-9.674228000
1	2.602446000	-0.697383000	-8.224257000
1	2.284403000	3.544204000	-7.647374000
1	4.443451000	-0.344244000	-9.847554000
1	4.110594000	3.909675000	-9.284493000
1	5.200162000	1.963890000	-10.388276000
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6	0.906386000	3.284915000	-0.017666000
6	1.332221000	4.939391000	-1.734026000
6	1.501785000	4.119792000	0.926769000
6	1.912416000	5.777685000	-0.784373000
6	2.002980000	5.367435000	0.548330000
1	0.506890000	2.318258000	0.279314000
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1	2.295669000	6.750050000	-1.084082000
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6	-4.542303000	-0.490305000	0.072098000
6	-7.215919000	-0.598287000	-0.732468000
6	-5.543292000	-0.752981000	1.005930000
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1	-8.255468000	-0.633821000	-1.048467000

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1	-5.405519000	-4.777937000	-10.277524000
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6	-4.334031000	4.529149000	-7.058390000
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1	-4.618504000	6.046267000	-5.514736000
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8	-6.541599000	-0.171915000	-5.470164000
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8	-0.418480000	-0.933882000	-3.855707000
8	-0.599439000	-1.557291000	-1.563864000
6	0.612732000	-1.057528000	-1.799519000
8	1.491995000	-0.919975000	-0.967104000
8	0.808880000	-0.700942000	-3.085598000
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23	-1.728033000	0.595534000	-4.818819000
7	-2.330131000	1.365585000	-3.001947000
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7	-3.385717000	-0.670386000	-4.817912000
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6	-2.929439000	3.148547000	-1.733455000
6	-1.880917000	2.578828000	-2.510177000
6	0.293573000	2.599904000	-3.712796000
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6	2.080226000	2.329223000	-5.104162000
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6	-0.949674000	0.704524000	-8.922042000
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6	-3.173482000	-1.569133000	-7.100357000
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6	-4.219155000	-0.194566000	-2.551658000
6	-0.529120000	3.039457000	-2.675628000
6	0.708061000	1.446841000	-7.092804000
17	2.877626000	3.330771000	-2.695399000
6	-2.275961000	-0.557647000	-7.579396000
17	3.717227000	2.206618000	-5.649230000
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17	-5.006070000	-3.535277000	-2.586175000
17	-3.030114000	-0.429902000	-10.330093000
17	-0.391928000	1.546849000	-10.332651000
17	-4.386835000	-4.423589000	-5.673103000
17	-3.032507000	4.733885000	-1.039367000
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6	2.204163000	2.994346000	-8.406151000
6	3.446216000	0.835023000	-9.654081000
6	3.210951000	3.217802000	-9.343484000
6	3.837842000	2.138224000	-9.969727000
1	2.127519000	-0.399476000	-8.478719000
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1	3.506521000	4.235827000	-9.585693000
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6	0.381271000	5.288730000	-1.990835000
6	0.538518000	4.471181000	0.668864000
6	0.844703000	6.173229000	-1.018421000
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6	-7.272754000	-1.201349000	-0.504172000
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6	-6.726136000	-1.296422000	0.777449000
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1	-1.525126000	4.733547000	-6.115006000
1	-3.053742000	5.611034000	-6.190156000
1	-2.352357000	5.191587000	-8.492541000
1	-2.050472000	3.487534000	-8.168271000
1	-4.247216000	3.850160000	-9.366093000
1	-4.794096000	4.850444000	-8.023005000
8	-6.662953000	1.178480000	-4.284651000
1	-6.592831000	1.609100000	-3.416190000
1	-5.923875000	0.547552000	-4.270258000
8	-0.811376000	-0.863734000	-4.045229000
8	-0.929897000	-1.390201000	-1.645957000
6	0.246337000	-0.845372000	-1.970960000
8	1.147948000	-0.647577000	-1.184606000
8	0.395938000	-0.516565000	-3.272386000
1	-1.457328000	-1.406733000	-2.485133000

TS2_{A4}

23	-1.252852000	0.791637000	-4.554924000
7	-1.547320000	1.295785000	-2.539565000
7	0.623080000	1.699899000	-4.479787000
7	-0.858644000	0.101927000	-6.472224000
7	-2.935376000	-0.441306000	-4.482856000
6	-2.788188000	1.192598000	-1.966920000
6	-2.958232000	2.317866000	-1.066321000
6	-1.786697000	3.028047000	-1.074794000
6	-0.876316000	2.348702000	-1.977717000
6	1.209388000	2.150019000	-3.322693000
6	2.652551000	2.121177000	-3.514199000
6	2.883769000	1.725851000	-4.801730000
6	1.588851000	1.497410000	-5.428280000
6	0.094999000	0.696295000	-7.262297000
6	-0.364213000	0.615028000	-8.638468000
6	-1.537470000	-0.092050000	-8.641211000
6	-3.226669000	-1.393725000	-5.427974000
6	-2.857031000	-1.308047000	-6.792675000
6	-4.027996000	-2.423070000	-4.789905000
6	-4.245601000	-2.032287000	-3.494892000
6	-3.594513000	-0.747071000	-3.310241000
6	-3.672852000	0.108602000	-2.185767000
6	0.496423000	2.622303000	-2.198930000
6	1.328591000	1.201211000	-6.788003000
17	3.903520000	2.340063000	-2.345178000
6	-1.828230000	-0.461181000	-7.266570000
17	4.461821000	1.400252000	-5.429204000
17	-4.388520000	2.840102000	-0.248651000
17	-5.012876000	-3.035199000	-2.314785000
17	-2.515219000	-0.307222000	-10.053886000
17	0.282922000	1.383403000	-10.047142000
17	-4.505932000	-3.963037000	-5.412076000
17	-1.578729000	4.542921000	-0.269954000
6	2.422083000	1.429216000	-7.780476000
6	2.991931000	0.352608000	-8.476008000
6	2.896442000	2.724731000	-8.033407000
6	4.014908000	0.565419000	-9.398257000
6	3.910028000	2.939937000	-8.965561000
6	4.474502000	1.860414000	-9.648855000
1	2.634810000	-0.654208000	-8.278439000
1	2.457479000	3.563328000	-7.500009000
1	4.453118000	-0.280180000	-9.922412000

1	4.261587000	3.950750000	-9.156737000
1	5.269226000	2.027332000	-10.371846000
6	1.210068000	3.419338000	-1.160154000
6	1.288692000	2.934049000	0.155057000
6	1.794588000	4.656399000	-1.469738000
6	1.953786000	3.669823000	1.134770000
6	2.444762000	5.396534000	-0.484570000
6	2.530642000	4.902234000	0.819635000
1	0.828784000	1.980718000	0.403397000
1	1.726639000	5.037870000	-2.484980000
1	2.015935000	3.278977000	2.146955000
1	2.886126000	6.358240000	-0.734576000
1	3.043335000	5.477163000	1.587231000
6	-4.729502000	-0.140130000	-1.161120000
6	-6.088233000	-0.049373000	-1.499080000
6	-4.374496000	-0.456934000	0.159901000
6	-7.073655000	-0.267247000	-0.538700000
6	-5.362897000	-0.690230000	1.115256000
6	-6.712951000	-0.593402000	0.771092000
1	-6.365531000	0.205756000	-2.518179000
1	-3.326899000	-0.529325000	0.440912000
1	-8.122577000	-0.184707000	-0.812508000
1	-5.073614000	-0.944787000	2.131390000
1	-7.481286000	-0.769707000	1.520105000
8	-2.070845000	2.246039000	-5.069924000
6	-3.588062000	-2.159252000	-7.780565000
6	-4.949615000	-1.943318000	-8.043042000
6	-2.919456000	-3.185535000	-8.464672000
6	-5.622940000	-2.732195000	-8.975304000
6	-3.597241000	-3.983310000	-9.384667000
6	-4.951152000	-3.757225000	-9.644812000
1	-5.485217000	-1.141257000	-7.542992000
1	-1.866610000	-3.360264000	-8.260877000
1	-6.673904000	-2.540258000	-9.174868000
1	-3.067816000	-4.780836000	-9.900122000
1	-5.478547000	-4.376178000	-10.366703000
8	0.044476000	-0.251086000	1.211843000
8	-0.981884000	-1.285323000	1.232220000
1	-1.126113000	-1.422373000	0.272844000
1	0.758741000	-0.702942000	0.706918000
6	-4.273477000	2.259250000	-6.407672000
6	-5.394174000	2.031477000	-5.518081000
6	-6.218763000	3.024961000	-5.091027000
6	-6.029199000	4.463630000	-5.502017000
6	-4.617731000	4.721777000	-6.059468000
6	-4.194053000	3.629497000	-7.054775000
1	-3.989600000	1.415301000	-7.039298000
1	-3.090133000	2.220422000	-5.585172000
1	-5.554886000	1.016597000	-5.157256000
1	-7.040242000	2.792658000	-4.415371000
1	-6.220347000	5.122153000	-4.643127000
1	-6.789280000	4.736552000	-6.254139000
1	-4.573167000	5.711400000	-6.531302000
1	-3.900354000	4.727126000	-5.229296000
1	-3.176088000	3.818174000	-7.416793000
1	-4.852182000	3.664297000	-7.941381000
8	-6.995092000	0.872114000	-8.044029000
1	-6.173774000	0.937261000	-8.554086000
1	-6.808366000	1.407059000	-7.252848000
8	-0.365764000	-0.963576000	-3.845211000
8	-0.596703000	-1.715325000	-1.581271000
6	0.638121000	-1.256676000	-1.788350000
8	1.520638000	-1.217678000	-0.949821000
8	0.855423000	-0.822167000	-3.045227000
1	-1.014712000	-1.568363000	-2.495016000

Int2_{A4}

23	-1.252852000	0.791637000	-4.554924000
7	-1.547320000	1.295785000	-2.539565000
7	0.623080000	1.699899000	-4.479787000
7	-0.858644000	0.101927000	-6.472224000
7	-2.935376000	-0.441306000	-4.482856000
6	-2.788188000	1.192598000	-1.966920000
6	-2.958232000	2.317866000	-1.066321000
6	-1.786697000	3.028047000	-1.074794000
6	-0.876316000	2.348702000	-1.977717000
6	1.209388000	2.150019000	-3.322693000
6	2.652551000	2.121177000	-3.514199000
6	2.883769000	1.725851000	-4.801730000
6	1.588851000	1.497410000	-5.428280000
6	0.094999000	0.696295000	-7.262297000
6	-0.364213000	0.615028000	-8.638468000
6	-1.537470000	-0.092050000	-8.641211000
6	-3.226669000	-1.393725000	-5.427974000
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6	-4.027996000	-2.423070000	-4.789905000
6	-4.245601000	-2.032287000	-3.494892000
6	-3.594513000	-0.747071000	-3.310241000
6	-3.672852000	0.108602000	-2.185767000
6	0.496423000	2.622303000	-2.198930000
6	1.328591000	1.201211000	-6.788003000
17	3.903520000	2.340063000	-2.345178000
6	-1.828230000	-0.461181000	-7.266570000
17	4.461821000	1.400252000	-5.429204000
17	-4.388520000	2.840102000	-0.248651000
17	-5.012876000	-3.035199000	-2.314785000
17	-2.515219000	-0.307222000	-10.053886000
17	0.282922000	1.383403000	-10.047142000
17	-4.505932000	-3.963037000	-5.412076000
17	-1.578729000	4.542921000	-0.269954000
6	2.422083000	1.429216000	-7.780476000
6	2.991931000	0.352608000	-8.476008000
6	2.896442000	2.724731000	-8.033407000
6	4.014908000	0.565419000	-9.398257000
6	3.910028000	2.939937000	-8.965561000
6	4.474502000	1.860414000	-9.648855000
1	2.634810000	-0.654208000	-8.278439000
1	2.457479000	3.563328000	-7.500009000
1	4.453118000	-0.280180000	-9.922412000
1	4.261587000	3.950750000	-9.156737000
1	5.269226000	2.027332000	-10.371846000
6	1.210068000	3.419338000	-1.160154000
6	1.288692000	2.934049000	0.155057000
6	1.794588000	4.656399000	-1.469738000
6	1.953786000	3.669823000	1.134770000
6	2.444762000	5.396534000	-0.484570000
6	2.530642000	4.902234000	0.819635000
1	0.828784000	1.980718000	0.403397000
1	1.726639000	5.037870000	-2.484980000
1	2.015935000	3.278977000	2.146955000
1	2.886126000	6.358240000	-0.734576000
1	3.043335000	5.477163000	1.587231000
6	-4.729502000	-0.140130000	-1.161120000
6	-6.088233000	-0.049373000	-1.499080000
6	-4.374496000	-0.456934000	0.159901000
6	-7.073655000	-0.267247000	-0.538700000
6	-5.362897000	-0.690230000	1.115256000
6	-6.712951000	-0.593402000	0.771092000
1	-6.365531000	0.205756000	-2.518179000
1	-3.326899000	-0.529325000	0.440912000
1	-8.122577000	-0.184707000	-0.812508000

1	-5.073614000	-0.944787000	2.131390000
1	-7.481286000	-0.769707000	1.520105000
8	-2.070845000	2.246039000	-5.069924000
6	-3.588062000	-2.159252000	-7.780565000
6	-4.949615000	-1.943318000	-8.043042000
6	-2.919456000	-3.185535000	-8.464672000
6	-5.622940000	-2.732195000	-8.975304000
6	-3.597241000	-3.983310000	-9.384667000
6	-4.951152000	-3.757225000	-9.644812000
1	-5.485217000	-1.141257000	-7.542992000
1	-1.866610000	-3.360264000	-8.260877000
1	-6.673904000	-2.540258000	-9.174868000
1	-3.067816000	-4.780836000	-9.900122000
1	-5.478547000	-4.376178000	-10.366703000
8	0.044476000	-0.251086000	1.211843000
8	-0.981884000	-1.285323000	1.232220000
1	-1.126113000	-1.422373000	0.272844000
1	0.758741000	-0.702942000	0.706918000
6	-4.273477000	2.259250000	-6.407672000
6	-5.394174000	2.031477000	-5.518081000
6	-6.218763000	3.024961000	-5.091027000
6	-6.029199000	4.463630000	-5.502017000
6	-4.617731000	4.721777000	-6.059468000
6	-4.194053000	3.629497000	-7.054775000
1	-3.989600000	1.415301000	-7.039298000
1	-3.090133000	2.220422000	-5.585172000
1	-5.554886000	1.016597000	-5.157256000
1	-7.040242000	2.792658000	-4.415371000
1	-6.220347000	5.122153000	-4.643127000
1	-6.789280000	4.736552000	-6.254139000
1	-4.573167000	5.711400000	-6.531302000
1	-3.900354000	4.727126000	-5.229296000
1	-3.176088000	3.818174000	-7.416793000
1	-4.852182000	3.664297000	-7.941381000
8	-6.995092000	0.872114000	-8.044029000
1	-6.173774000	0.937261000	-8.554086000
1	-6.808366000	1.407059000	-7.252848000
8	-0.365764000	-0.963576000	-3.845211000
8	-0.596703000	-1.715325000	-1.581271000
6	0.638121000	-1.256676000	-1.788350000
8	1.520638000	-1.217678000	-0.949821000
8	0.855423000	-0.822167000	-3.045227000
1	-1.014712000	-1.568363000	-2.495016000

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23	-1.636070000	0.727232000	-4.591816000
7	-1.871018000	1.309711000	-2.596204000
7	0.119572000	1.819536000	-4.690622000
7	-1.367857000	0.073123000	-6.546798000
7	-3.297712000	-0.560746000	-4.412020000
6	-3.076335000	1.140777000	-1.959754000
6	-3.290456000	2.284025000	-1.111120000
6	-2.174292000	3.087463000	-1.212458000
6	-1.261849000	2.442488000	-2.122216000
6	0.751867000	2.355013000	-3.584948000
6	2.176408000	2.426820000	-3.886505000
6	2.344486000	2.021049000	-5.179023000
6	1.028963000	1.682428000	-5.712538000
6	-0.547829000	0.752083000	-7.413317000
6	-1.131981000	0.660384000	-8.729634000
6	-2.255789000	-0.132090000	-8.630593000
6	-3.539682000	-1.583353000	-5.309389000
6	-3.281331000	-1.491240000	-6.691766000
6	-4.161396000	-2.674103000	-4.578536000
6	-4.325050000	-2.268336000	-3.281849000

6	-3.819702000	-0.907521000	-3.174941000
6	-3.874813000	-0.038763000	-2.068618000
6	0.085571000	2.802754000	-2.432805000
6	0.694089000	1.347382000	-7.040157000
17	3.487163000	2.768568000	-2.815704000
6	-2.377562000	-0.542695000	-7.254647000
17	3.893868000	1.794248000	-5.913974000
17	-4.714759000	2.722795000	-0.230947000
17	-4.875740000	-3.311962000	-2.017929000
17	-3.358897000	-0.397802000	-9.943160000
17	-0.681228000	1.495226000	-10.180817000
17	-4.490764000	-4.280628000	-5.128909000
17	-2.040431000	4.643306000	-0.464022000
6	1.687840000	1.611697000	-8.122618000
6	2.227302000	0.554126000	-8.871141000
6	2.095784000	2.921046000	-8.419631000
6	3.154656000	0.798110000	-9.882444000
6	3.014682000	3.167848000	-9.438098000
6	3.549412000	2.106545000	-10.171767000
1	1.921391000	-0.463350000	-8.644454000
1	1.680826000	3.746985000	-7.848382000
1	3.569796000	-0.034064000	-10.445624000
1	3.314857000	4.189412000	-9.658247000
1	4.269618000	2.297693000	-10.963621000
6	0.798504000	3.667514000	-1.448849000
6	0.972820000	3.224358000	-0.127460000
6	1.282750000	4.933002000	-1.812934000
6	1.632696000	4.028581000	0.800737000
6	1.929187000	5.740481000	-0.879311000
6	2.109674000	5.288121000	0.430174000
1	0.595305000	2.248203000	0.167131000
1	1.141462000	5.283059000	-2.832025000
1	1.770065000	3.668269000	1.816904000
1	2.292832000	6.722113000	-1.173576000
1	2.617980000	5.915797000	1.158454000
6	-4.789790000	-0.354598000	-0.933595000
6	-6.176508000	-0.442427000	-1.132458000
6	-4.275781000	-0.554266000	0.358425000
6	-7.030945000	-0.722240000	-0.068046000
6	-5.131020000	-0.847911000	1.419377000
6	-6.509807000	-0.929866000	1.211328000
1	-6.581042000	-0.278171000	-2.127579000
1	-3.205167000	-0.491120000	0.534203000
1	-8.103588000	-0.777907000	-0.237127000
1	-4.715935000	-1.010239000	2.410568000
1	-7.175292000	-1.152414000	2.042061000
8	-2.703003000	2.200624000	-5.124015000
6	-3.996279000	-2.422883000	-7.613446000
6	-5.395700000	-2.382139000	-7.714236000
6	-3.289970000	-3.346738000	-8.398494000
6	-6.072443000	-3.241783000	-8.577921000
6	-3.966510000	-4.214107000	-9.253950000
6	-5.359649000	-4.163007000	-9.348365000
1	-5.947554000	-1.658739000	-7.119165000
1	-2.206983000	-3.386261000	-8.322983000
1	-7.156112000	-3.192135000	-8.649268000
1	-3.406057000	-4.931269000	-9.848528000
1	-5.886256000	-4.837236000	-10.019393000
8	0.250737000	0.010074000	1.069307000
8	-0.697207000	-1.080839000	1.249968000
1	-0.969491000	-1.244553000	0.323888000
1	0.917727000	-0.411432000	0.480924000
6	-2.281258000	4.191215000	-5.813088000
6	-2.754818000	4.214367000	-7.150914000
6	-3.932107000	4.823834000	-7.491626000
6	-4.810094000	5.503599000	-6.477140000

6	-4.527875000	5.005500000	-5.049472000
6	-3.020439000	4.954179000	-4.756125000
1	-1.247819000	3.928333000	-5.626103000
1	-3.587674000	2.036402000	-5.509328000
1	-2.154224000	3.734078000	-7.920092000
1	-4.240967000	4.848671000	-8.534956000
1	-5.867576000	5.348456000	-6.731717000
1	-4.652088000	6.595817000	-6.535482000
1	-5.037056000	5.640863000	-4.315308000
1	-4.936336000	3.994143000	-4.941626000
1	-2.827504000	4.510716000	-3.774314000
1	-2.610110000	5.979864000	-4.720412000
8	-5.247216000	1.175671000	-6.010649000
1	-4.878369000	0.560690000	-5.347748000
1	-4.889344000	0.833612000	-6.845903000
8	-0.723370000	-0.926134000	-3.916335000
8	-0.654586000	-1.557060000	-1.586910000
6	0.524679000	-1.066484000	-1.973973000
8	1.496726000	-0.949049000	-1.251865000
8	0.577881000	-0.700664000	-3.270092000
1	-1.206411000	-1.481829000	-2.424200000

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23	-1.356934000	0.937031000	-4.663651000
7	-1.748076000	1.745877000	-2.793165000
7	0.330906000	2.098359000	-4.818083000
7	-1.191774000	0.425539000	-6.664022000
7	-3.169186000	-0.101871000	-4.570591000
6	-2.983637000	1.636502000	-2.191576000
6	-3.222161000	2.833301000	-1.455759000
6	-2.092451000	3.632896000	-1.580671000
6	-1.155013000	2.922976000	-2.382483000
6	0.926341000	2.705013000	-3.715569000
6	2.366388000	2.703539000	-3.942506000
6	2.592164000	2.195558000	-5.186754000
6	1.297961000	1.874593000	-5.782775000
6	-0.266215000	1.004225000	-7.510536000
6	-0.786410000	0.936900000	-8.836252000
6	-1.995107000	0.253749000	-8.777151000
6	-3.536051000	-1.048803000	-5.512327000
6	-3.246922000	-0.963493000	-6.878782000
6	-4.283080000	-2.088284000	-4.815560000
6	-4.404381000	-1.715346000	-3.507403000
6	-3.770323000	-0.412369000	-3.353531000
6	-3.805511000	0.456032000	-2.260134000
6	0.224419000	3.236990000	-2.636074000
6	1.024426000	1.483121000	-7.094559000
17	3.627637000	3.085521000	-2.825935000
6	-2.229258000	-0.105801000	-7.416585000
17	4.171541000	1.853657000	-5.803301000
17	-4.671694000	3.336656000	-0.649826000
17	-5.054114000	-2.740997000	-2.275291000
17	-3.008148000	0.033110000	-10.177202000
17	-0.174069000	1.662318000	-10.287898000
17	-4.790199000	-3.630059000	-5.417532000
17	-1.980450000	5.243713000	-0.950714000
6	2.095647000	1.550877000	-8.132369000
6	2.546005000	0.382407000	-8.766411000
6	2.660147000	2.778294000	-8.512083000
6	3.539181000	0.438166000	-9.742853000
6	3.647139000	2.837423000	-9.494342000
6	4.092197000	1.666628000	-10.112252000
1	2.115316000	-0.573127000	-8.480055000
1	2.312910000	3.689817000	-8.033286000
1	3.882005000	-0.478679000	-10.216275000

1	4.069324000	3.798512000	-9.777908000
1	4.863758000	1.711102000	-10.877165000
6	0.903643000	4.133093000	-1.656326000
6	0.982317000	3.764407000	-0.303095000
6	1.448845000	5.362054000	-2.057740000
6	1.607858000	4.602277000	0.618869000
6	2.063477000	6.203464000	-1.132252000
6	2.148079000	5.823947000	0.209397000
1	0.558852000	2.817346000	0.022030000
1	1.380342000	5.656493000	-3.101646000
1	1.670056000	4.298137000	1.660559000
1	2.475986000	7.155409000	-1.458192000
1	2.629712000	6.478311000	0.932319000
6	-4.730335000	0.204733000	-1.117364000
6	-6.119406000	0.141303000	-1.312154000
6	-4.226558000	0.061614000	0.186172000
6	-6.982054000	-0.066685000	-0.238103000
6	-5.089406000	-0.157421000	1.259131000
6	-6.469180000	-0.220697000	1.052084000
1	-6.519339000	0.267397000	-2.314610000
1	-3.156513000	0.117408000	0.364876000
1	-8.055412000	-0.105755000	-0.407863000
1	-4.678850000	-0.275071000	2.258510000
1	-7.141154000	-0.384556000	1.891187000
8	-2.734422000	2.575179000	-5.302850000
6	-4.043567000	-1.793094000	-7.829410000
6	-5.430031000	-1.594284000	-7.947855000
6	-3.439591000	-2.776642000	-8.626575000
6	-6.188834000	-2.350128000	-8.842836000
6	-4.197233000	-3.539725000	-9.513250000
6	-5.573270000	-3.326533000	-9.629109000
1	-5.910510000	-0.848592000	-7.318384000
1	-2.369403000	-2.941926000	-8.540517000
1	-7.260122000	-2.181435000	-8.920226000
1	-3.712406000	-4.303076000	-10.116769000
1	-6.161921000	-3.919048000	-10.324925000
8	0.205943000	0.565195000	1.054993000
8	-0.739058000	-0.517396000	1.284347000
1	-1.019167000	-0.715527000	0.368686000
1	0.902975000	0.100442000	0.542100000
6	-2.723948000	3.582649000	-6.368076000
6	-3.866256000	3.299888000	-7.306032000
6	-4.982225000	4.039543000	-7.340931000
6	-5.207563000	5.252832000	-6.473679000
6	-4.227612000	5.311719000	-5.291555000
6	-2.801136000	4.979224000	-5.745333000
1	-1.762395000	3.444989000	-6.870553000
1	-3.591084000	2.114973000	-5.299500000
1	-3.777563000	2.425952000	-7.945946000
1	-5.767986000	3.749336000	-8.036529000
1	-6.245498000	5.261316000	-6.113618000
1	-5.106479000	6.158152000	-7.095373000
1	-4.259191000	6.299031000	-4.816501000
1	-4.531575000	4.586575000	-4.525795000
1	-2.099493000	5.031811000	-4.906315000
1	-2.468461000	5.707398000	-6.499511000
8	-5.953188000	1.570012000	-9.564166000
1	-5.894523000	0.672635000	-9.198431000
1	-5.091168000	1.673807000	-9.995755000
8	-0.550306000	-0.615451000	-3.960517000
8	-0.650841000	-1.143658000	-1.557318000
6	0.562966000	-0.715159000	-1.915832000
8	1.501891000	-0.610264000	-1.155872000
8	0.708248000	-0.397902000	-3.221095000
1	-1.203935000	-1.098975000	-2.377875000

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23	-1.507230000	1.159489000	-4.133682000
7	-1.474024000	1.529806000	-2.107750000
7	-0.089240000	2.698962000	-4.397299000
7	-1.911447000	1.223262000	-6.182343000
7	-3.194327000	0.000687000	-3.878771000
6	-2.457129000	1.129427000	-1.218953000
6	-2.390359000	2.010041000	-0.056639000
6	-1.314621000	2.827248000	-0.218983000
6	-0.695155000	2.497462000	-1.497902000
6	0.858452000	2.873838000	-3.387110000
6	2.135077000	2.979217000	-3.996680000
6	1.951395000	2.918161000	-5.375551000
6	0.563931000	2.772440000	-5.626400000
6	-1.363751000	2.154865000	-7.054381000
6	-2.281100000	2.299506000	-8.178918000
6	-3.286004000	1.393315000	-8.016546000
6	-3.619689000	-0.839304000	-4.900863000
6	-3.746886000	-0.417814000	-6.261633000
6	-4.019477000	-2.075084000	-4.317191000
6	-3.906197000	-1.945423000	-2.939942000
6	-3.425132000	-0.630466000	-2.668371000
6	-3.276295000	0.014791000	-1.399420000
6	0.504855000	2.997075000	-2.009292000
6	-0.121483000	2.770472000	-6.884108000
17	3.696519000	3.036978000	-3.249950000
6	-3.036281000	0.668524000	-6.776386000
17	3.260963000	2.878775000	-6.511894000
17	-3.541639000	2.178987000	1.224158000
17	-4.189821000	-3.249128000	-1.836376000
17	-4.685489000	1.326702000	-9.035950000
17	-2.281101000	3.518444000	-9.410478000
17	-4.456007000	-3.556536000	-5.104346000
17	-0.932855000	4.140457000	0.839882000
6	0.547320000	3.436357000	-8.037412000
6	0.858970000	2.718946000	-9.203457000
6	0.901186000	4.793822000	-7.973840000
6	1.498422000	3.339580000	-10.274938000
6	1.533042000	5.418328000	-9.047308000
6	1.835390000	4.693023000	-10.202562000
1	0.603050000	1.664470000	-9.257706000
1	0.669076000	5.358469000	-7.075033000
1	1.736545000	2.765018000	-11.166853000
1	1.791180000	6.472546000	-8.982034000
1	2.333477000	5.178412000	-11.038414000
6	1.485938000	3.615517000	-1.072622000
6	2.048032000	2.836225000	-0.048864000
6	1.875613000	4.957133000	-1.197313000
6	2.970560000	3.393085000	0.836155000
6	2.790387000	5.515015000	-0.306334000
6	3.340101000	4.734420000	0.714253000
1	1.774677000	1.786821000	0.022417000
1	1.447051000	5.563207000	-1.991069000
1	3.404078000	2.776537000	1.619774000
1	3.075510000	6.559515000	-0.407857000
1	4.056913000	5.169054000	1.407153000
6	-4.014618000	-0.552751000	-0.233793000
6	-5.417245000	-0.585784000	-0.218376000
6	-3.315895000	-1.077519000	0.864377000
6	-6.104586000	-1.115897000	0.871899000
6	-4.002536000	-1.617388000	1.950739000
6	-5.398976000	-1.635199000	1.960223000
1	-5.965478000	-0.184457000	-1.066407000
1	-2.229631000	-1.070345000	0.851445000
1	-7.191980000	-1.125551000	0.871920000

1	-3.445695000	-2.026328000	2.790226000
1	-5.934734000	-2.053945000	2.808879000
6	-4.686117000	-1.168061000	-7.145612000
6	-6.057808000	-1.225796000	-6.852783000
6	-4.215330000	-1.838522000	-8.284782000
6	-6.935785000	-1.919421000	-7.683159000
6	-5.090540000	-2.542118000	-9.110799000
6	-6.454793000	-2.581646000	-8.815542000
1	-6.431406000	-0.718772000	-5.967243000
1	-3.153171000	-1.812016000	-8.511144000
1	-7.996423000	-1.945707000	-7.445236000
1	-4.706399000	-3.061463000	-9.985390000
1	-7.138499000	-3.128126000	-9.460715000
8	-2.365742000	4.252721000	-4.120063000
8	-3.017363000	2.950866000	-4.055267000
1	-3.631663000	3.008533000	-4.819245000
1	-1.434978000	3.929473000	-4.259207000
6	-5.246297000	4.231128000	-6.179671000
6	-5.855943000	3.217170000	-5.546146000
6	-6.549343000	3.368488000	-4.211828000
6	-6.814489000	4.843528000	-3.868461000
6	-5.570897000	5.701366000	-4.142861000
6	-5.161814000	5.632680000	-5.623943000
1	-4.792233000	4.056012000	-7.154272000
1	-5.931208000	2.904991000	-3.428031000
1	-5.869473000	2.230474000	-6.007958000
1	-7.491794000	2.803219000	-4.222189000
1	-7.121777000	4.935819000	-2.819302000
1	-7.652211000	5.211213000	-4.479161000
1	-5.750291000	6.744164000	-3.851404000
1	-4.737478000	5.338319000	-3.529410000
1	-4.138166000	6.008885000	-5.745861000
1	-5.801552000	6.294346000	-6.231040000
8	0.194459000	-2.652960000	-5.266275000
1	1.162287000	-2.685249000	-5.331399000
1	-0.010988000	-1.692862000	-5.306582000
8	-0.283514000	-0.233507000	-4.229313000
8	0.010939000	-2.265395000	-2.545975000
6	0.644950000	-1.148479000	-2.218901000
8	1.165206000	-0.946049000	-1.147433000
8	0.759147000	-0.168476000	-3.177166000
1	-0.087767000	-2.379936000	-3.529380000

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23	-2.802815000	2.576203000	-3.751493000
7	-2.826869000	2.535243000	-1.675637000
7	-0.906065000	3.444365000	-3.689273000
7	-2.588055000	2.266071000	-5.795715000
7	-4.364108000	1.189740000	-3.761554000
6	-3.934320000	2.150044000	-0.960122000
6	-3.972400000	2.938371000	0.258471000
6	-2.854553000	3.727095000	0.271810000
6	-2.099866000	3.432643000	-0.932790000
6	-0.215012000	3.705277000	-2.532397000
6	1.196381000	3.805446000	-2.866374000
6	1.310501000	3.628794000	-4.216396000
6	-0.029140000	3.443181000	-4.748363000
6	-1.687144000	2.978343000	-6.543007000
6	-2.262482000	3.184149000	-7.859863000
6	-3.476112000	2.553101000	-7.882763000
6	-4.832799000	0.550809000	-4.879352000
6	-4.660815000	1.008391000	-6.207820000
6	-5.594108000	-0.605370000	-4.446582000
6	-5.607562000	-0.600548000	-3.077991000
6	-4.879805000	0.577755000	-2.641798000

6	-4.803196000	1.102542000	-1.333642000
6	-0.795985000	3.865031000	-1.256419000
6	-0.401190000	3.365539000	-6.104568000
17	2.563463000	3.956203000	-1.823391000
6	-3.657626000	1.916113000	-6.590009000
17	2.835383000	3.506742000	-5.021727000
17	-5.221405000	3.044221000	1.447568000
17	-6.269945000	-1.887901000	-2.135519000
17	-4.577552000	2.671518000	-9.209825000
17	-1.679573000	4.162216000	-9.161046000
17	-6.254164000	-1.889113000	-5.395459000
17	-2.558527000	4.935406000	1.470709000
6	0.622374000	3.638205000	-7.159232000
6	1.103897000	2.565782000	-7.924910000
6	1.106006000	4.930793000	-7.400809000
6	2.053712000	2.791149000	-8.921286000
6	2.047234000	5.153481000	-8.404148000
6	2.522896000	4.083712000	-9.167163000
1	0.748920000	1.564012000	-7.695956000
1	0.732021000	5.760727000	-6.807085000
1	2.429696000	1.954771000	-9.505487000
1	2.410632000	6.161123000	-8.590665000
1	3.259387000	4.257654000	-9.948230000
6	0.034478000	4.435765000	-0.152298000
6	0.479783000	3.595254000	0.879222000
6	0.379560000	5.793431000	-0.131122000
6	1.257358000	4.111522000	1.914851000
6	1.146933000	6.309077000	0.912158000
6	1.588055000	5.468702000	1.937316000
1	0.240190000	2.535761000	0.838316000
1	0.033844000	6.443864000	-0.930196000
1	1.607657000	3.451401000	2.704291000
1	1.402379000	7.365859000	0.924355000
1	2.190385000	5.869978000	2.748979000
6	-5.669093000	0.506673000	-0.270594000
6	-7.057060000	0.700950000	-0.274363000
6	-5.085595000	-0.258245000	0.749551000
6	-7.848152000	0.149189000	0.731620000
6	-5.880279000	-0.820091000	1.748037000
6	-7.261776000	-0.614190000	1.744259000
1	-7.509771000	1.294965000	-1.063614000
1	-4.012099000	-0.424757000	0.737100000
1	-8.922843000	0.313188000	0.724229000
1	-5.419580000	-1.419042000	2.529503000
1	-7.879890000	-1.048299000	2.526530000
6	-5.632770000	0.521605000	-7.234030000
6	-6.960968000	0.968984000	-7.177747000
6	-5.247303000	-0.370118000	-8.243885000
6	-7.887589000	0.526318000	-8.121935000
6	-6.178526000	-0.818949000	-9.178408000
6	-7.500873000	-0.370819000	-9.120159000
1	-7.240123000	1.683348000	-6.407270000
1	-4.218912000	-0.718660000	-8.283920000
1	-8.913655000	0.883267000	-8.077538000
1	-5.872453000	-1.517795000	-9.952953000
1	-8.226405000	-0.719077000	-9.851592000
8	-6.443667000	3.777633000	-5.006643000
8	-3.715651000	3.897398000	-3.887092000
1	-8.091971000	7.530767000	-7.031890000
1	-6.150851000	4.301310000	-5.771299000
6	-6.280621000	6.390025000	-7.216676000
6	-4.996903000	6.387483000	-6.830837000
6	-4.518255000	6.944165000	-5.511096000
6	-5.682392000	7.220443000	-4.544969000
6	-6.858598000	7.889748000	-5.269914000
6	-7.397329000	6.976789000	-6.383951000

1	-6.551924000	5.948440000	-8.175602000
1	-3.944991000	7.867508000	-5.698222000
1	-4.241701000	5.962304000	-7.491484000
1	-3.816372000	6.237874000	-5.050151000
1	-5.338075000	7.838591000	-3.706473000
1	-6.021145000	6.265167000	-4.125828000
1	-7.661687000	8.132865000	-4.562332000
1	-6.523901000	8.840466000	-5.710752000
1	-5.632971000	3.720189000	-4.465259000
1	-7.984206000	6.158211000	-5.939969000
8	0.105008000	0.087692000	-5.725881000
1	0.894845000	0.265821000	-5.193926000
1	-0.620359000	0.249897000	-5.078512000
8	-1.639571000	0.673335000	-3.587499000
8	-1.937580000	-0.692448000	-1.590809000
6	-0.842603000	0.054760000	-1.480943000
8	-0.113059000	0.112661000	-0.515493000
8	-0.562343000	0.788590000	-2.595866000
1	-2.258010000	-0.453099000	-2.512342000

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¹Re_{B2}⁺¹

23	-0.720445000	0.835465000	-4.719910000
7	-2.532653000	1.246248000	-3.714120000
7	-0.886868000	-1.122532000	-4.007020000
7	0.564499000	0.099285000	-6.180445000
7	-1.158524000	2.427764000	-5.992947000
6	-2.844829000	2.586372000	-3.575772000
6	-3.073354000	2.870887000	-2.189246000
6	-2.967463000	1.672064000	-1.502180000
6	-2.676656000	0.653602000	-2.469202000
6	-1.910853000	-1.580445000	-3.211399000
6	-2.042167000	-3.005632000	-3.398986000
6	-1.024543000	-3.397387000	-4.240524000
6	-0.265181000	-2.212334000	-4.568145000
6	1.426496000	-0.922372000	-5.843117000
6	2.755267000	-0.572468000	-6.280217000
6	2.655740000	0.624371000	-6.960152000
6	-0.643450000	2.563827000	-7.256609000
6	0.636350000	2.075273000	-7.635828000
6	-1.567357000	3.338413000	-8.055707000
6	-2.590080000	3.729799000	-7.223708000
6	-2.296670000	3.196602000	-5.912791000
6	-2.969770000	3.460888000	-4.692700000
6	-2.604850000	-0.752059000	-2.287732000
6	0.979433000	-2.131819000	-5.252839000
17	-3.304471000	-4.037627000	-2.861596000
6	1.265851000	1.008998000	-6.939140000
17	-0.860484000	-4.982564000	-4.881226000
17	-3.280355000	4.394052000	-1.429458000
17	-4.010794000	4.534936000	-7.751124000
17	4.004503000	1.508415000	-7.544680000
17	4.241576000	-1.349568000	-5.920386000
17	-1.553910000	3.596373000	-9.752475000
17	-3.026312000	1.541717000	0.206390000
6	1.818419000	-3.342379000	-5.354607000
6	2.244466000	-3.810778000	-6.611535000
6	2.198618000	-4.042648000	-4.194252000
6	3.017623000	-4.963207000	-6.704791000
6	3.003043000	-5.173606000	-4.290606000
6	3.406016000	-5.641334000	-5.545082000
1	1.944438000	-3.282207000	-7.511675000
1	1.884324000	-3.678649000	-3.220479000
1	3.322859000	-5.331215000	-7.679661000
1	3.312442000	-5.694147000	-3.389362000
1	4.021867000	-6.532828000	-5.619130000
6	-3.252533000	-1.365662000	-1.114362000
6	-4.608727000	-1.111425000	-0.833323000
6	-2.520471000	-2.212811000	-0.260112000
6	-5.220536000	-1.705973000	0.264837000
6	-3.127589000	-2.775516000	0.857638000
6	-4.479802000	-2.531368000	1.117051000
1	-5.183523000	-0.470829000	-1.495700000
1	-1.470120000	-2.400330000	-0.462269000
1	-6.272943000	-1.524415000	0.460686000
1	-2.549815000	-3.407831000	1.524869000
1	-4.956011000	-2.983433000	1.982141000
6	-3.819378000	4.657873000	-4.568757000
6	-3.310587000	5.932407000	-4.887739000
6	-5.149763000	4.538105000	-4.120365000
6	-4.114392000	7.058741000	-4.745023000

6	-5.958545000	5.664028000	-4.016562000
6	-5.440153000	6.927329000	-4.320454000
1	-2.277718000	6.039241000	-5.206385000
1	-5.551336000	3.556477000	-3.886491000
1	-3.708465000	8.040813000	-4.967969000
1	-6.990630000	5.560642000	-3.695601000
1	-6.068940000	7.807762000	-4.224719000
8	0.306625000	1.477402000	-3.707719000
6	1.323471000	2.679446000	-8.793238000
6	1.559266000	4.067069000	-8.836640000
6	1.749981000	1.871968000	-9.865195000
6	2.223395000	4.626302000	-9.923963000
6	2.378162000	2.443761000	-10.966095000
6	2.623978000	3.820433000	-10.993945000
1	1.256827000	4.695297000	-8.003609000
1	1.557550000	0.803279000	-9.842205000
1	2.425299000	5.693094000	-9.939796000
1	2.681007000	1.818491000	-11.800560000
1	3.127939000	4.263474000	-11.848011000
8	-2.370489000	-0.121761000	-6.391912000
8	-3.746356000	-0.133031000	-5.913188000
1	-3.600546000	0.333036000	-5.057254000
1	-2.221867000	-1.072743000	-6.541802000
6	0.629635000	8.372120000	-6.587132000
6	0.221497000	6.925875000	-6.431609000
6	0.685624000	6.126866000	-5.459682000
6	1.693014000	6.571093000	-4.426069000
6	2.375504000	7.892278000	-4.816557000
6	1.349258000	8.907587000	-5.337898000
1	-0.255394000	8.983997000	-6.809473000
1	1.280488000	8.473117000	-7.470088000
1	-0.489627000	6.532450000	-7.159087000
1	0.333461000	5.096786000	-5.391708000
1	2.443219000	5.782095000	-4.279619000
1	1.189234000	6.678515000	-3.452394000
1	2.922319000	8.301181000	-3.959212000
1	3.119295000	7.696465000	-5.601356000
1	1.832287000	9.865124000	-5.564050000
1	0.608343000	9.106334000	-4.550978000

¹TS1_{B2}⁺¹

23	-0.922452000	1.613277000	-5.256166000
7	-2.619299000	1.944955000	-4.148038000
7	-0.565472000	-0.006592000	-4.048586000
7	0.378092000	0.828402000	-6.620154000
7	-1.743492000	2.722388000	-6.805317000
6	-3.164209000	3.227508000	-4.262498000
6	-3.422655000	3.723300000	-2.937609000
6	-3.155894000	2.703274000	-2.047803000
6	-2.681148000	1.577320000	-2.804738000
6	-1.454232000	-0.517962000	-3.113184000
6	-1.178982000	-1.924492000	-2.942650000
6	-0.058151000	-2.220211000	-3.684493000
6	0.354498000	-1.004663000	-4.343626000
6	1.521858000	0.243498000	-6.103238000
6	2.660786000	0.745738000	-6.835883000
6	2.183325000	1.530022000	-7.857408000
6	-1.461816000	2.538974000	-8.139907000
6	-0.179896000	2.176724000	-8.606252000
6	-2.619198000	2.917845000	-8.919421000
6	-3.546396000	3.425137000	-8.043402000
6	-2.979262000	3.324066000	-6.713607000

6	-3.532886000	3.793911000	-5.502088000
6	-2.332751000	0.289331000	-2.356190000
6	1.492898000	-0.795885000	-5.144623000
17	-2.124984000	-3.094836000	-2.118562000
6	0.742363000	1.557145000	-7.744815000
17	0.567858000	-3.806436000	-3.886535000
17	-3.832369000	5.324516000	-2.469313000
17	-5.132300000	3.901519000	-8.489063000
17	3.184785000	2.424769000	-8.926757000
17	4.329458000	0.567478000	-6.453152000
17	-2.906062000	2.650065000	-10.589792000
17	-3.227114000	2.876733000	-0.339881000
6	2.650596000	-1.718208000	-5.015022000
6	3.118782000	-2.442515000	-6.124218000
6	3.283067000	-1.889663000	-3.772349000
6	4.190552000	-3.321323000	-5.990280000
6	4.368332000	-2.753568000	-3.644931000
6	4.821545000	-3.474213000	-4.752665000
1	2.627379000	-2.328342000	-7.086329000
1	2.924225000	-1.339305000	-2.906334000
1	4.534740000	-3.886900000	-6.851097000
1	4.856561000	-2.869618000	-2.681744000
1	5.661931000	-4.154718000	-4.651480000
6	-2.864871000	-0.196524000	-1.056551000
6	-4.251613000	-0.276278000	-0.848923000
6	-1.995284000	-0.568589000	-0.018157000
6	-4.756684000	-0.730717000	0.367271000
6	-2.502469000	-1.003864000	1.203437000
6	-3.883862000	-1.090611000	1.396946000
1	-4.931134000	0.000957000	-1.650056000
1	-0.920950000	-0.501841000	-0.167341000
1	-5.830562000	-0.802612000	0.512243000
1	-1.821649000	-1.277901000	2.004028000
1	-4.278508000	-1.437984000	2.347335000
6	-4.547076000	4.876962000	-5.543341000
6	-4.240590000	6.105416000	-6.152823000
6	-5.823940000	4.687860000	-4.988126000
6	-5.187096000	7.126267000	-6.194004000
6	-6.775276000	5.702369000	-5.050064000
6	-6.457308000	6.925120000	-5.647856000
1	-3.253263000	6.260843000	-6.578740000
1	-6.074441000	3.736052000	-4.528107000
1	-4.936034000	8.076982000	-6.655083000
1	-7.764727000	5.540386000	-4.632782000
1	-7.198207000	7.718268000	-5.688988000
8	0.105297000	2.775228000	-4.532655000
6	0.219700000	2.488176000	-10.001259000
6	0.178977000	3.808182000	-10.480745000
6	0.651494000	1.460804000	-10.856637000
6	0.573599000	4.094522000	-11.784838000
6	1.025196000	1.747600000	-12.167400000
6	0.993001000	3.064860000	-12.631928000
1	-0.144860000	4.609063000	-9.821922000
1	0.672861000	0.436167000	-10.496073000
1	0.552081000	5.119813000	-12.142343000
1	1.342848000	0.944577000	-12.825963000
1	1.292505000	3.288667000	-13.651698000
8	-2.372917000	0.033140000	-6.398524000
8	-3.739170000	0.004387000	-5.898983000
1	-3.637755000	0.664232000	-5.172520000
1	-2.091415000	-0.886528000	-6.238458000
6	3.238805000	3.378560000	-3.804349000
6	2.146242000	2.495376000	-3.348733000

6	0.810745000	2.971857000	-3.091298000
6	0.633073000	4.452052000	-2.731676000
6	1.940060000	5.268039000	-2.784263000
6	2.812468000	4.843682000	-3.971852000
1	3.689861000	2.962672000	-4.721463000
1	4.057407000	3.297164000	-3.061997000
1	2.335683000	1.427414000	-3.277315000
1	0.228151000	2.291909000	-2.471392000
1	0.184946000	4.516935000	-1.733898000
1	-0.097721000	4.872185000	-3.431574000
1	1.696854000	6.333923000	-2.840669000
1	2.506836000	5.126338000	-1.853987000
1	3.700373000	5.478614000	-4.052353000
1	2.249927000	4.958151000	-4.907178000

¹ Int1 _{B2} ⁺¹			
23	-0.875391000	1.459864000	-5.323144000
7	-2.593563000	1.947893000	-4.212705000
7	-0.494252000	-0.070426000	-4.002958000
7	0.594118000	0.786624000	-6.493189000
7	-1.523353000	2.675526000	-6.822374000
6	-3.134593000	3.215131000	-4.399531000
6	-3.365888000	3.804032000	-3.109227000
6	-3.028796000	2.863669000	-2.156093000
6	-2.581468000	1.685173000	-2.847594000
6	-1.382454000	-0.461154000	-3.003694000
6	-1.211170000	-1.870710000	-2.767997000
6	-0.157080000	-2.296343000	-3.551277000
6	0.324279000	-1.152779000	-4.286286000
6	1.638244000	-0.026085000	-6.041950000
6	2.826567000	0.329460000	-6.774591000
6	2.465522000	1.244138000	-7.742163000
6	-1.104802000	2.555962000	-8.136740000
6	0.203126000	2.169266000	-8.508361000
6	-2.182630000	2.964682000	-9.002438000
6	-3.212706000	3.406291000	-8.198115000
6	-2.777796000	3.277804000	-6.832573000
6	-3.436675000	3.744406000	-5.674241000
6	-2.220710000	0.433174000	-2.301457000
6	1.471580000	-1.070008000	-5.111076000
17	-2.208660000	-2.926511000	-1.851538000
6	1.048621000	1.473234000	-7.622086000
17	0.317157000	-3.940512000	-3.691063000
17	-3.790511000	5.429336000	-2.743471000
17	-4.769555000	3.828945000	-8.783023000
17	3.596590000	2.061592000	-8.746092000
17	4.454690000	-0.110701000	-6.443271000
17	-2.313692000	2.799501000	-10.704423000
17	-2.992296000	3.184399000	-0.467174000
6	2.516127000	-2.126620000	-5.004455000
6	2.815395000	-2.945803000	-6.104482000
6	3.209304000	-2.320259000	-3.799288000
6	3.782989000	-3.942406000	-5.997921000
6	4.189543000	-3.305279000	-3.699835000
6	4.475194000	-4.121080000	-4.797510000
1	2.276762000	-2.808811000	-7.038193000
1	2.984813000	-1.689278000	-2.943293000
1	3.998043000	-4.578936000	-6.851235000
1	4.727964000	-3.439300000	-2.766107000
1	5.233806000	-4.894251000	-4.717368000
6	-2.720453000	0.063011000	-0.953261000
6	-4.099647000	0.057814000	-0.684563000
6	-1.823953000	-0.282580000	0.072188000

6	-4.570852000	-0.296345000	0.577182000
6	-2.296260000	-0.617434000	1.338509000
6	-3.670498000	-0.629858000	1.592366000
1	-4.800969000	0.313181000	-1.474054000
1	-0.755330000	-0.273333000	-0.124292000
1	-5.639610000	-0.311878000	0.769325000
1	-1.594046000	-0.871215000	2.127226000
1	-4.038470000	-0.899270000	2.578109000
6	-4.460059000	4.812348000	-5.791075000
6	-4.149809000	6.034643000	-6.411444000
6	-5.754206000	4.616566000	-5.279059000
6	-5.108532000	7.039606000	-6.508838000
6	-6.717009000	5.615817000	-5.394350000
6	-6.395147000	6.830974000	-6.004714000
1	-3.149931000	6.197971000	-6.803884000
1	-6.007700000	3.670370000	-4.809230000
1	-4.854289000	7.984773000	-6.979551000
1	-7.718242000	5.447473000	-5.008871000
1	-7.144847000	7.612416000	-6.088279000
8	0.188044000	2.829606000	-4.354048000
6	0.695337000	2.493844000	-9.875703000
6	0.802821000	3.829738000	-10.293434000
6	1.053370000	1.468038000	-10.764680000
6	1.269617000	4.133537000	-11.570273000
6	1.502291000	1.773233000	-12.047631000
6	1.616159000	3.105929000	-12.451300000
1	0.530499000	4.629591000	-9.609945000
1	0.961538000	0.431424000	-10.452541000
1	1.359787000	5.170715000	-11.879869000
1	1.763937000	0.971886000	-12.732442000
1	1.972273000	3.342981000	-13.449661000
8	-2.194080000	-0.012547000	-6.307158000
8	-3.609644000	0.059830000	-5.980221000
1	-3.549801000	0.706757000	-5.228969000
1	-1.972433000	-0.927488000	-6.048527000
6	1.025614000	5.199473000	-4.469038000
6	1.279137000	3.745040000	-4.768347000
6	1.515184000	2.772050000	-3.681686000
6	1.497475000	3.191489000	-2.225921000
6	1.533905000	4.720349000	-2.035280000
6	0.601939000	5.450080000	-3.012017000
1	0.284376000	5.587211000	-5.178090000
1	1.968089000	5.723587000	-4.683837000
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1	2.034394000	1.851242000	-3.933767000
1	2.353885000	2.723488000	-1.727140000
1	0.598355000	2.762218000	-1.765946000
1	1.268052000	4.959820000	-1.000778000
1	2.561739000	5.077491000	-2.185224000
1	0.619153000	6.527305000	-2.817579000
1	-0.433170000	5.120372000	-2.863620000

¹P_{1B2}⁺¹

23	-0.527328000	1.902676000	-5.083321000
7	-2.242057000	2.395876000	-3.969512000
7	-0.149019000	0.370110000	-3.765081000
7	0.938041000	1.225643000	-6.256137000
7	-1.173702000	3.121685000	-6.580331000
6	-2.778744000	3.665230000	-4.154326000
6	-3.005347000	4.254003000	-2.863162000
6	-2.669796000	3.311682000	-1.911376000
6	-2.228132000	2.132126000	-2.604659000
6	-1.036865000	-0.018295000	-2.764521000
6	-0.869950000	-1.428615000	-2.530128000

6	0.181447000	-1.857224000	-3.315379000
6	0.665385000	-0.714769000	-4.050465000
6	1.980157000	0.408932000	-5.807437000
6	3.168446000	0.761170000	-6.541705000
6	2.808901000	1.677985000	-7.507824000
6	-0.757727000	3.001917000	-7.895463000
6	0.548372000	2.611282000	-8.269497000
6	-1.835557000	3.415036000	-8.759038000
6	-2.862812000	3.859469000	-7.952624000
6	-2.426091000	3.728385000	-6.587930000
6	-3.081232000	4.196520000	-5.428125000
6	-1.870826000	0.878313000	-2.060220000
6	1.811512000	-0.635251000	-4.877189000
17	-1.869558000	-2.481696000	-1.612850000
6	1.393008000	1.911781000	-7.385191000
17	0.649958000	-3.502863000	-3.457075000
17	-3.423521000	5.880514000	-2.495386000
17	-4.419191000	4.287872000	-8.534545000
17	3.940978000	2.492631000	-8.512871000
17	4.795606000	0.315077000	-6.213619000
17	-1.969962000	3.251814000	-10.460945000
17	-2.628775000	3.631009000	-0.222298000
6	2.852726000	-1.695422000	-4.773303000
6	3.147266000	-2.514671000	-5.874561000
6	3.547531000	-1.892314000	-3.569606000
6	4.111856000	-3.514465000	-5.770657000
6	4.524774000	-2.880563000	-3.472818000
6	4.805746000	-3.696360000	-4.571708000
1	2.607319000	-2.375168000	-6.807141000
1	3.326677000	-1.261338000	-2.712664000
1	4.323241000	-4.150971000	-6.624904000
1	5.064508000	-3.017097000	-2.540214000
1	5.562027000	-4.472023000	-4.493634000
6	-2.369747000	0.508932000	-0.711488000
6	-3.748515000	0.508830000	-0.440543000
6	-1.472916000	0.159150000	0.312247000
6	-4.219024000	0.155592000	0.821724000
6	-1.944442000	-0.174812000	1.579091000
6	-3.318303000	-0.182110000	1.835194000
1	-4.450139000	0.767459000	-1.228703000
1	-0.404584000	0.164461000	0.114040000
1	-5.287520000	0.144022000	1.015596000
1	-1.241927000	-0.431860000	2.366479000
1	-3.685691000	-0.450792000	2.821354000
6	-4.100984000	5.268205000	-5.542336000
6	-3.787558000	6.489735000	-6.162633000
6	-5.394805000	5.076845000	-5.027810000
6	-4.742816000	7.498221000	-6.257538000
6	-6.354199000	6.079652000	-5.140592000
6	-6.029159000	7.293981000	-5.750921000
1	-2.787873000	6.649673000	-6.556954000
1	-5.650788000	4.131316000	-4.557985000
1	-4.486087000	8.442727000	-6.728227000
1	-7.355258000	5.914719000	-4.753190000
1	-6.776177000	8.078192000	-5.832531000
8	0.542336000	3.267790000	-4.114650000
6	1.039430000	2.935462000	-9.637349000
6	1.150710000	4.271367000	-10.054041000
6	1.392613000	1.909280000	-10.527827000
6	1.616461000	4.574769000	-11.331358000
6	1.840482000	2.214140000	-11.811226000
6	1.958150000	3.546814000	-12.213874000
1	0.882176000	5.071504000	-9.369386000
1	1.297832000	0.872697000	-10.216467000
1	1.709598000	5.611923000	-11.640155000
1	2.098357000	1.412545000	-12.497177000
1	2.313449000	3.783585000	-13.212592000
8	-1.853009000	0.435399000	-6.065887000
8	-3.267926000	0.513712000	-5.737612000
1	-3.204441000	1.159488000	-4.985691000
1	-1.634950000	-0.480467000	-5.807494000

6	1.387970000	5.634935000	-4.227009000
6	1.636106000	4.180091000	-4.528795000
6	1.870064000	3.204691000	-3.443853000
6	1.855427000	3.621949000	-1.987443000
6	1.897321000	5.150401000	-1.794513000
6	0.966806000	5.884817000	-2.769142000
1	0.647324000	6.026363000	-4.934651000
1	2.332036000	6.156083000	-4.442084000
1	2.006834000	3.935836000	-5.521238000
1	2.385825000	2.282493000	-3.697880000
1	2.710758000	3.150235000	-1.490305000
1	0.955319000	3.195138000	-1.527105000
1	1.633387000	5.389219000	-0.759368000
1	2.926217000	5.504254000	-1.945001000
1	0.987949000	6.961681000	-2.573091000
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7	0.513009000	0.222112000	-6.288674000
7	-1.291463000	2.463264000	-6.158220000
6	-2.948504000	2.677096000	-3.714193000
6	-3.272828000	2.958987000	-2.337651000
6	-3.118392000	1.792777000	-1.626349000
6	-2.701879000	0.769131000	-2.551881000
6	-1.847014000	-1.441920000	-3.221041000
6	-1.885098000	-2.886172000	-3.300761000
6	-0.880019000	-3.275976000	-4.148673000
6	-0.206881000	-2.076337000	-4.602573000
6	1.386556000	-0.806008000	-5.992321000
6	2.676499000	-0.484663000	-6.565560000
6	2.533094000	0.682792000	-7.270424000
6	-0.774936000	2.615066000	-7.424216000
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6	-1.694728000	3.427206000	-8.195817000
6	-2.704849000	3.811522000	-7.354139000
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6	-3.086069000	3.515702000	-4.836179000
6	-2.564897000	-0.613027000	-2.328895000
6	0.994775000	-1.991102000	-5.340881000
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6	1.152077000	1.100142000	-7.142138000
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17	-3.639545000	4.477006000	-1.613898000
17	-4.110582000	4.664770000	-7.863832000
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17	-1.684736000	3.745522000	-9.887934000
17	-3.261817000	1.691019000	0.086181000
6	1.868281000	-3.196620000	-5.432117000
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6	2.461569000	-3.730873000	-4.278649000
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6	3.281581000	-4.854581000	-4.362822000
6	3.504870000	-5.467798000	-5.597723000
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1	2.287248000	-3.253092000	-3.318571000
1	3.080529000	-5.421472000	-7.713001000
1	3.744311000	-5.253027000	-3.464135000
1	4.138753000	-6.348038000	-5.661916000
6	-3.179815000	-1.220829000	-1.115325000
6	-4.568568000	-1.175670000	-0.919827000

6	-2.375794000	-1.848253000	-0.151445000
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6	-4.332658000	-2.368625000	1.169447000
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1	-1.299083000	-1.879320000	-0.293026000
1	-6.219293000	-1.721230000	0.345835000
1	-2.314465000	-2.884717000	1.731916000
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6	-4.202995000	7.138564000	-4.777194000
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1	-6.202718000	7.886011000	-4.466074000
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1	2.839013000	4.363758000	-12.127474000
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1	1.788749000	8.259995000	-6.697829000
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1	0.306146000	4.724346000	-5.311509000
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1	3.117267000	7.294186000	-3.188629000
1	3.373895000	6.964134000	-4.899973000
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7	-1.779227000	2.768830000	-6.827767000
6	-3.381005000	3.158043000	-4.362476000
6	-3.687725000	3.708390000	-3.067010000
6	-3.263066000	2.806915000	-2.117840000
6	-2.689869000	1.681817000	-2.809549000

6	-1.376656000	-0.404616000	-2.988948000
6	-1.139487000	-1.813955000	-2.746818000
6	-0.123609000	-2.205790000	-3.578432000
6	0.285875000	-1.040300000	-4.340762000
6	1.494894000	0.117014000	-6.164059000
6	2.666689000	0.536885000	-6.898246000
6	2.262552000	1.468896000	-7.821987000
6	-1.358307000	2.695142000	-8.131783000
6	-0.044680000	2.356011000	-8.519304000
6	-2.463089000	3.088105000	-8.994072000
6	-3.501961000	3.448266000	-8.182572000
6	-3.051301000	3.288067000	-6.809197000
6	-3.729473000	3.671256000	-5.632494000
6	-2.236941000	0.458638000	-2.270880000
6	1.388389000	-0.926259000	-5.218097000
17	-2.052878000	-2.897626000	-1.765531000
6	0.832571000	1.633346000	-7.678698000
17	0.385208000	-3.843622000	-3.763315000
17	-4.305085000	5.272230000	-2.687718000
17	-5.087425000	3.817205000	-8.749678000
17	3.353392000	2.360386000	-8.815863000
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17	-2.584488000	2.957296000	-10.708544000
17	-3.287097000	3.120363000	-0.422097000
6	2.468965000	-1.951310000	-5.150490000
6	2.758686000	-2.755520000	-6.263573000
6	3.209631000	-2.131081000	-3.972189000
6	3.760279000	-3.721731000	-6.197211000
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1	2.993377000	-1.511540000	-3.106126000
1	3.966930000	-4.344787000	-7.063043000
1	4.794270000	-3.208538000	-2.995503000
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6	-4.040646000	-0.096748000	-0.610800000
6	-1.733790000	-0.162740000	0.110432000
6	-4.450026000	-0.479835000	0.664475000
6	-2.144575000	-0.530604000	1.390024000
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1	-0.676750000	-0.036261000	-0.106790000
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6	-4.615914000	5.940040000	-6.246014000
6	-6.133860000	4.316217000	-5.293245000
6	-5.654750000	6.865212000	-6.322757000
6	-7.175817000	5.236441000	-5.385411000
6	-6.938016000	6.514671000	-5.896303000
1	-3.617313000	6.212039000	-6.576298000
1	-6.319323000	3.320946000	-4.898981000
1	-5.463588000	7.859466000	-6.717153000
1	-8.173316000	4.956723000	-5.057760000
1	-7.749486000	7.234398000	-5.962313000
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6	0.499333000	4.121698000	-10.218829000
6	0.805058000	1.799515000	-10.820321000
6	0.946787000	4.507134000	-11.481031000
6	1.236593000	2.184962000	-12.087533000

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1	1.514734000	1.428306000	-12.816093000
1	1.655525000	3.840094000	-13.406270000
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8	-3.617158000	-0.249354000	-5.706738000
1	-3.549556000	0.498458000	-5.063452000
1	-1.890562000	-0.860318000	-6.220846000
6	3.283713000	3.235284000	-3.770093000
6	2.138498000	2.426072000	-3.241923000
6	0.855566000	2.980992000	-3.006482000
6	0.753306000	4.467619000	-2.663989000
6	2.096027000	5.215424000	-2.774557000
6	2.908190000	4.712091000	-3.974248000
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1	0.181347000	2.344472000	-2.439047000
1	0.350639000	4.567421000	-1.647793000
1	0.015954000	4.917655000	-3.337657000
1	1.910094000	6.293317000	-2.851350000
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²Int1_{A2}⁰

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6	-3.050535000	3.252112000	-4.398838000
6	-3.219516000	3.839130000	-3.122528000
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6	-1.368128000	-0.480895000	-2.985090000
6	-1.154938000	-1.899473000	-2.719821000
6	-0.110648000	-2.314231000	-3.491326000
6	0.350570000	-1.167370000	-4.269036000
6	1.638388000	-0.004715000	-6.020530000
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6	0.168759000	2.173413000	-8.524965000
6	-2.196143000	3.037848000	-9.026615000
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6	-2.776306000	3.316716000	-6.841804000
6	-3.408442000	3.769552000	-5.686195000
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6	1.476327000	-1.075302000	-5.088354000
17	-2.135908000	-2.955023000	-1.771289000
6	1.030601000	1.485612000	-7.614430000
17	0.396170000	-3.958297000	-3.622227000
17	-3.629189000	5.475054000	-2.743291000
17	-4.753281000	3.972274000	-8.800839000
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6	2.847770000	-2.902730000	-6.141521000

6	3.253936000	-2.333132000	-3.829949000
6	3.838716000	-3.880073000	-6.074565000
6	4.252947000	-3.302931000	-3.765219000
6	4.546224000	-4.081425000	-4.886841000
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6	-4.706251000	-0.238110000	0.466513000
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1	-1.826710000	-0.861470000	2.168990000
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6	-5.744639000	4.565150000	-5.210253000
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6	1.052228000	1.397063000	-10.747389000
6	1.300541000	4.028386000	-11.639410000
6	1.531290000	1.655185000	-12.030213000
6	1.659574000	2.971828000	-12.479170000
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8	-3.661758000	0.118271000	-5.991317000
1	-3.560647000	0.781917000	-5.258999000
1	-2.071002000	-0.935998000	-5.899744000
6	1.072486000	5.193839000	-4.488840000
6	1.314888000	3.734671000	-4.784117000
6	1.535922000	2.760627000	-3.689931000
6	1.504814000	3.185888000	-2.234580000
6	1.556549000	4.714474000	-2.049678000
6	0.637240000	5.447890000	-3.035888000
1	0.334266000	5.584060000	-5.200064000
1	2.017750000	5.716156000	-4.696420000
1	1.702430000	3.488658000	-5.770198000
1	2.060803000	1.840267000	-3.933045000
1	2.346817000	2.711028000	-1.717437000
1	0.590683000	2.774203000	-1.788158000
1	1.286100000	4.962985000	-1.017727000
1	2.589304000	5.061265000	-2.196753000
1	0.655092000	6.525784000	-2.840705000
1	-0.398979000	5.119583000	-2.896700000

²P_{1A2}⁰

23	-0.601662000	1.811214000	-5.122016000
7	-2.259613000	2.397262000	-3.957221000
7	-0.184199000	0.337752000	-3.763734000
7	0.954842000	1.148928000	-6.296637000
7	-1.209094000	3.056497000	-6.600073000
6	-2.797687000	3.661841000	-4.168592000
6	-3.030785000	4.258910000	-2.897658000
6	-2.676583000	3.332362000	-1.924532000
6	-2.224502000	2.155287000	-2.591199000
6	-1.028350000	-0.009416000	-2.711628000
6	-0.809717000	-1.416728000	-2.418123000
6	0.221485000	-1.854674000	-3.203880000
6	0.674151000	-0.734390000	-4.011860000
6	1.992306000	0.376617000	-5.796161000
6	3.190109000	0.751462000	-6.487521000
6	2.844062000	1.688224000	-7.446094000
6	-0.724106000	3.006445000	-7.901443000
6	0.576731000	2.622225000	-8.248924000
6	-1.779572000	3.485452000	-8.784699000
6	-2.817985000	3.909065000	-8.005204000
6	-2.442413000	3.711961000	-6.615556000
6	-3.108912000	4.160140000	-5.471675000
6	-1.863555000	0.890098000	-2.034322000
6	1.800519000	-0.666697000	-4.842994000
17	-1.763395000	-2.453075000	-1.422281000
6	1.425533000	1.893659000	-7.359326000
17	0.713800000	-3.505978000	-3.295446000
17	-3.519083000	5.879252000	-2.545463000
17	-4.349934000	4.395727000	-8.628242000
17	3.997097000	2.521266000	-8.427930000
17	4.822352000	0.290831000	-6.150587000
17	-1.855573000	3.387578000	-10.504093000
17	-2.676009000	3.674919000	-0.230588000
6	2.846399000	-1.726795000	-4.744029000
6	3.126845000	-2.556343000	-5.840499000
6	3.573747000	-1.904193000	-3.557570000
6	4.102483000	-3.546941000	-5.748335000
6	4.559230000	-2.885747000	-3.469260000
6	4.823669000	-3.712407000	-4.563409000
1	2.568866000	-2.425743000	-6.763650000
1	3.366686000	-1.262355000	-2.705526000
1	4.301902000	-4.188758000	-6.602207000
1	5.119585000	-3.006720000	-2.546058000
1	5.588597000	-4.481148000	-4.493723000
6	-2.390412000	0.543044000	-0.684331000
6	-3.773527000	0.501008000	-0.447196000
6	-1.515777000	0.271524000	0.379691000
6	-4.268594000	0.182924000	0.815802000
6	-2.009961000	-0.035235000	1.645911000
6	-3.388198000	-0.083909000	1.867081000
1	-4.460026000	0.709257000	-1.263236000
1	-0.443340000	0.312145000	0.209421000
1	-5.342050000	0.144320000	0.980288000
1	-1.319361000	-0.236196000	2.460590000
1	-3.774221000	-0.326622000	2.853490000
6	-4.173080000	5.197240000	-5.584862000
6	-3.889602000	6.460127000	-6.127982000
6	-5.474324000	4.935319000	-5.128138000
6	-4.880650000	7.435989000	-6.211896000

6	-6.469114000	5.906109000	-5.224231000
6	-6.174423000	7.160641000	-5.763456000
1	-2.883164000	6.675196000	-6.476698000
1	-5.704707000	3.960473000	-4.707477000
1	-4.643656000	8.411518000	-6.627959000
1	-7.474519000	5.684270000	-4.876773000
1	-6.948753000	7.919963000	-5.832490000
8	0.530647000	3.262986000	-4.122091000
6	1.106011000	2.962744000	-9.602526000
6	1.267542000	4.301363000	-9.990052000
6	1.459764000	1.950212000	-10.507464000
6	1.771439000	4.621218000	-11.249535000
6	1.952829000	2.268947000	-11.771121000
6	2.113012000	3.605450000	-12.144948000
1	1.001015000	5.092287000	-9.294016000
1	1.335400000	0.910497000	-10.217660000
1	1.896024000	5.662997000	-11.532785000
1	2.213059000	1.473967000	-12.464817000
1	2.502039000	3.853640000	-13.128844000
8	-1.927022000	0.317303000	-6.048872000
8	-3.322499000	0.451038000	-5.651507000
1	-3.206055000	1.141513000	-4.943790000
1	-1.706369000	-0.570066000	-5.707882000
6	1.053193000	5.710924000	-4.156770000
6	1.384511000	4.325894000	-4.654468000
6	1.950360000	3.303819000	-3.748894000
6	2.205430000	3.598429000	-2.282582000
6	2.110741000	5.097567000	-1.939546000
6	0.917313000	5.775672000	-2.626293000
1	0.137616000	6.059198000	-4.650357000
1	1.865159000	6.372491000	-4.492174000
1	1.562089000	4.214015000	-5.721819000
1	2.506405000	2.484325000	-4.196052000
1	3.196117000	3.210181000	-2.018315000
1	1.476988000	3.021838000	-1.698367000
1	2.045928000	5.217486000	-0.852446000
1	3.036658000	5.598755000	-2.255713000
1	0.846928000	6.824176000	-2.316394000
1	-0.016963000	5.291573000	-2.319009000

Model A3'/B3'

¹Re_{B3',a}⁰

23	-0.708427000	1.931235000	-5.763666000
7	-2.238272000	2.689098000	-4.674318000
7	-0.355650000	0.618222000	-4.255196000
7	0.533664000	0.870975000	-6.951312000
7	-1.423917000	2.873830000	-7.411077000
6	-3.170383000	3.575790000	-5.157400000
6	-3.551864000	4.447363000	-4.061740000
6	-2.817644000	4.076608000	-2.961063000
6	-2.067616000	2.892427000	-3.323414000
6	-0.876752000	0.743861000	-2.992151000
6	-0.856736000	-0.566405000	-2.371892000
6	-0.357179000	-1.451493000	-3.293730000
6	0.051258000	-0.683546000	-4.450665000
6	1.295612000	-0.195263000	-6.535758000
6	2.547256000	-0.151612000	-7.267486000
6	2.510056000	0.950210000	-8.087718000
6	-0.802126000	2.850030000	-8.633242000
6	0.533780000	2.428960000	-8.843447000
6	-1.798226000	3.154259000	-9.643060000
6	-3.000510000	3.315240000	-8.999832000
6	-2.743564000	3.228808000	-7.576745000
6	-3.565932000	3.663985000	-6.513036000
6	-1.476795000	1.921391000	-2.480620000
6	0.940669000	-1.066387000	-5.480745000
17	-1.501854000	-1.052840000	-0.852069000
6	1.192239000	1.535766000	-7.963924000
17	-0.387525000	-3.158662000	-3.096841000
17	-4.597738000	5.811774000	-4.082496000
17	-4.505691000	3.460531000	-9.814648000
17	3.870800000	1.539320000	-8.961740000
17	3.938677000	-1.147069000	-7.088679000
17	-1.634041000	3.155590000	-11.355310000
17	-2.755170000	4.984373000	-1.501486000
6	1.624260000	-2.388456000	-5.419277000
6	1.405706000	-3.323697000	-6.441859000
6	2.505230000	-2.706742000	-4.374286000
6	2.044684000	-4.562423000	-6.409867000
6	3.158883000	-3.935794000	-4.356506000
6	2.926218000	-4.868350000	-5.371211000
1	0.721699000	-3.081624000	-7.250337000
1	2.688072000	-1.981195000	-3.586774000
1	1.856893000	-5.285861000	-7.198176000
1	3.848193000	-4.167972000	-3.549600000
1	3.431038000	-5.830268000	-5.351661000
6	-1.581125000	2.048415000	-1.001679000
6	-2.823389000	2.036677000	-0.347601000
6	-0.403484000	2.141937000	-0.243283000
6	-2.879916000	2.115466000	1.041296000
6	-0.466958000	2.244646000	1.145528000
6	-1.705258000	2.226010000	1.790501000
1	-3.742808000	1.937656000	-0.917520000
1	0.558781000	2.149317000	-0.747866000
1	-3.845546000	2.088773000	1.537858000
1	0.449525000	2.331553000	1.722357000
1	-1.755207000	2.293637000	2.873871000
6	-4.873783000	4.316440000	-6.802509000
6	-4.948066000	5.566499000	-7.433856000
6	-6.052618000	3.664709000	-6.410630000
6	-6.185650000	6.163865000	-7.658096000
6	-7.290510000	4.258669000	-6.655631000

6	-7.359078000	5.509892000	-7.271690000
1	-4.034808000	6.075123000	-7.730104000
1	-5.988376000	2.682741000	-5.951821000
1	-6.235770000	7.138435000	-8.135679000
1	-8.200866000	3.742972000	-6.363306000
1	-8.324418000	5.974776000	-7.452855000
8	0.337551000	3.036012000	-5.329342000
6	1.198287000	2.858379000	-10.104607000
6	1.439252000	4.223517000	-10.322319000
6	1.555709000	1.932150000	-11.096752000
6	2.043109000	4.652206000	-11.503559000
6	2.138152000	2.365029000	-12.284674000
6	2.388092000	3.725035000	-12.488758000
1	1.163020000	4.943608000	-9.557126000
1	1.355482000	0.875940000	-10.941695000
1	2.237229000	5.710052000	-11.656470000
1	2.397837000	1.641437000	-13.052175000
1	2.848523000	4.060254000	-13.414042000
8	-3.316738000	-0.346511000	-4.650470000
8	-4.671363000	-0.530837000	-4.155864000
1	-4.063743000	-2.153359000	-1.532958000
1	-4.837103000	-1.960787000	-2.829504000
6	-7.330023000	2.649651000	-2.115975000
6	-6.753082000	2.409756000	-0.740530000
6	-6.695894000	1.199775000	-0.168507000
6	-7.225376000	-0.060380000	-0.808459000
6	-8.117088000	0.244839000	-2.024206000
6	-7.493869000	1.339304000	-2.903159000
1	-6.690930000	3.350031000	-2.672234000
1	-8.303515000	3.157632000	-2.019310000
1	-6.378702000	3.280264000	-0.201476000
1	-6.258220000	1.100069000	0.825652000
1	-7.793786000	-0.634518000	-0.062671000
1	-6.393064000	-0.716948000	-1.105377000
1	-8.280171000	-0.670568000	-2.605504000
1	-9.105001000	0.583077000	-1.679481000
1	-8.106728000	1.511667000	-3.797791000
1	-6.506982000	1.001886000	-3.247321000
6	-3.358418000	0.233386000	-5.925080000
8	-2.191187000	0.453905000	-6.366625000
8	-4.464731000	0.433505000	-6.434409000
1	-5.164941000	-0.303966000	-4.991981000
8	-4.859495000	-2.460710000	-1.992787000

¹Re_{B3',b}⁰

23	-0.397798000	1.930598000	-5.865661000
7	-1.891697000	2.710629000	-4.767309000
7	-0.052801000	0.588865000	-4.358519000
7	0.755916000	0.797284000	-7.100503000
7	-1.260775000	2.768540000	-7.517194000
6	-2.796120000	3.648681000	-5.203570000
6	-3.114554000	4.515141000	-4.085499000
6	-2.426980000	4.045830000	-2.995443000
6	-1.746332000	2.835452000	-3.409572000
6	-0.673079000	0.627540000	-3.125135000
6	-0.651344000	-0.712182000	-2.567984000
6	-0.029015000	-1.524003000	-3.481671000
6	0.419063000	-0.687536000	-4.570946000
6	1.646965000	-0.148577000	-6.637527000
6	2.876904000	-0.013278000	-7.391659000
6	2.698921000	1.009300000	-8.290326000
6	-0.752915000	2.627563000	-8.789841000
6	0.571752000	2.234194000	-9.076827000

6	-1.831268000	2.844983000	-9.729304000
6	-2.965685000	3.104149000	-8.999526000
6	-2.582884000	3.149830000	-7.604329000
6	-3.305014000	3.689570000	-6.515463000
6	-1.309334000	1.763708000	-2.593860000
6	1.375734000	-1.012908000	-5.563341000
17	-1.354151000	-1.302808000	-1.119160000
6	1.328127000	1.456144000	-8.168332000
17	0.043144000	-3.236947000	-3.355102000
17	-4.040824000	5.961130000	-4.091177000
17	-4.540465000	3.206721000	-9.685275000
17	3.960092000	1.678836000	-9.250210000
17	4.374870000	-0.823893000	-7.157775000
17	-1.822406000	2.649054000	-11.438506000
17	-2.333796000	4.848204000	-1.479983000
6	2.189196000	-2.252409000	-5.431967000
6	2.131516000	-3.231994000	-6.434944000
6	3.034219000	-2.449472000	-4.328491000
6	2.893533000	-4.394098000	-6.328400000
6	3.810425000	-3.601639000	-4.234905000
6	3.737949000	-4.578700000	-5.231599000
1	1.473771000	-3.086053000	-7.287110000
1	3.090548000	-1.689534000	-3.554305000
1	2.830390000	-5.153388000	-7.102758000
1	4.470023000	-3.739434000	-3.382824000
1	4.337911000	-5.481091000	-5.152741000
6	-1.768352000	1.756892000	-1.177540000
6	-3.146191000	1.643394000	-0.924324000
6	-0.864280000	1.841946000	-0.111729000
6	-3.609909000	1.608706000	0.389869000
6	-1.336374000	1.829690000	1.200254000
6	-2.705718000	1.709449000	1.451558000
1	-3.834686000	1.542044000	-1.761646000
1	0.200220000	1.930313000	-0.311461000
1	-4.675987000	1.507826000	0.575630000
1	-0.634881000	1.909361000	2.026248000
1	-3.068324000	1.692319000	2.475912000
6	-4.646494000	4.306693000	-6.700461000
6	-4.836386000	5.476679000	-7.449951000
6	-5.742215000	3.690890000	-6.071961000
6	-6.108432000	6.030325000	-7.566904000
6	-7.016863000	4.239892000	-6.213443000
6	-7.201132000	5.409747000	-6.953181000
1	-3.985029000	5.958472000	-7.922986000
1	-5.592024000	2.780388000	-5.493803000
1	-6.248972000	6.944805000	-8.136504000
1	-7.863737000	3.753921000	-5.737238000
1	-8.193918000	5.840927000	-7.050399000
8	0.688093000	3.021451000	-5.530724000
6	1.129076000	2.575408000	-10.412905000
6	1.252329000	3.922997000	-10.786251000
6	1.509688000	1.575589000	-11.322265000
6	1.761277000	4.263623000	-12.038347000
6	1.997635000	1.918080000	-12.580228000
6	2.129824000	3.262472000	-12.939249000
1	0.961813000	4.700089000	-10.084899000
1	1.403060000	0.530571000	-11.045677000
1	1.864979000	5.309844000	-12.311665000
1	2.276355000	1.136468000	-13.281297000
1	2.517502000	3.527816000	-13.918918000
8	-3.414522000	0.342586000	-4.571508000
8	-4.757630000	0.625548000	-4.129347000
1	-4.368781000	-0.913873000	-1.514333000

1	-4.957420000	-0.662815000	-2.909423000
6	-7.707942000	2.901663000	-1.081136000
6	-7.496862000	2.156755000	0.216249000
6	-7.580305000	0.823854000	0.321954000
6	-7.915415000	-0.088762000	-0.832511000
6	-8.512657000	0.688738000	-2.017607000
6	-7.699969000	1.960576000	-2.298069000
1	-6.934803000	3.675087000	-1.195191000
1	-8.663461000	3.449768000	-1.032932000
1	-7.275403000	2.755748000	1.100295000
1	-7.403767000	0.354485000	1.290534000
1	-8.618530000	-0.863429000	-0.494098000
1	-7.008559000	-0.621236000	-1.159729000
1	-8.538426000	0.049168000	-2.907777000
1	-9.552592000	0.966674000	-1.790243000
1	-8.094903000	2.485822000	-3.177903000
1	-6.667588000	1.675414000	-2.539370000
6	-3.247292000	0.276657000	-5.862202000
8	-2.108676000	0.294869000	-6.369006000
8	-4.353238000	0.204930000	-6.609900000
1	-4.041432000	0.152985000	-7.530552000
8	-4.982002000	-1.302926000	-2.154627000

¹TS1_{B3'}⁰

23	-0.636512000	2.073745000	-5.610200000
7	-2.031609000	3.087924000	-4.564475000
7	-0.184331000	1.032863000	-3.910642000
7	0.462697000	0.742178000	-6.682554000
7	-1.499825000	2.701637000	-7.333605000
6	-2.958894000	3.941082000	-5.114111000
6	-3.203586000	5.003864000	-4.157323000
6	-2.411384000	4.764654000	-3.063105000
6	-1.754982000	3.493394000	-3.279999000
6	-0.633632000	1.374511000	-2.657088000
6	-0.593771000	0.185681000	-1.829154000
6	-0.141435000	-0.845248000	-2.616783000
6	0.206101000	-0.288476000	-3.904025000
6	1.286995000	-0.212248000	-6.127161000
6	2.472498000	-0.309408000	-6.956448000
6	2.337296000	0.597348000	-7.978811000
6	-1.014371000	2.399172000	-8.586389000
6	0.278766000	1.892961000	-8.839228000
6	-2.099240000	2.565430000	-9.532449000
6	-3.211260000	2.945556000	-8.822671000
6	-2.804163000	3.120584000	-7.443292000
6	-3.485374000	3.815919000	-6.416790000
6	-1.176992000	2.635031000	-2.317129000
6	1.034604000	-0.858856000	-4.901507000
17	-1.142229000	-0.034113000	-0.214945000
6	1.022022000	1.189055000	-7.858341000
17	-0.156979000	-2.500390000	-2.133987000
17	-4.168867000	6.413822000	-4.334473000
17	-4.785362000	3.046709000	-9.501198000
17	3.600353000	1.001610000	-9.076454000
17	3.900657000	-1.232521000	-6.693759000
17	-2.127625000	2.202906000	-11.214164000
17	-2.193161000	5.877923000	-1.771104000
6	1.756106000	-2.131737000	-4.623264000
6	1.513220000	-3.255088000	-5.428148000
6	2.695903000	-2.223304000	-3.584915000
6	2.186177000	-4.452188000	-5.188663000
6	3.382758000	-3.413601000	-3.361294000
6	3.125610000	-4.532240000	-4.158737000

1	0.787087000	-3.188412000	-6.233586000
1	2.897047000	-1.353477000	-2.966185000
1	1.981069000	-5.319665000	-5.809647000
1	4.117380000	-3.470006000	-2.562980000
1	3.656969000	-5.462572000	-3.977999000
6	-1.265101000	2.993074000	-0.875190000
6	-2.514138000	3.070457000	-0.236839000
6	-0.090440000	3.226600000	-0.145060000
6	-2.574972000	3.382432000	1.119444000
6	-0.162912000	3.561193000	1.206489000
6	-1.404920000	3.636367000	1.840861000
1	-3.411232000	2.837508000	-0.805229000
1	0.874134000	3.163487000	-0.641815000
1	-3.540568000	3.427359000	1.615767000
1	0.748934000	3.757573000	1.763723000
1	-1.460322000	3.887885000	2.896749000
6	-4.773070000	4.502500000	-6.712221000
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6	-5.947184000	4.023576000	-6.107750000
6	-6.032012000	6.262867000	-7.799508000
6	-7.157924000	4.666494000	-6.371496000
6	-7.203835000	5.786111000	-7.204367000
1	-3.908474000	5.985452000	-8.023320000
1	-5.916840000	3.131269000	-5.480054000
1	-6.062333000	7.134673000	-8.447397000
1	-8.070764000	4.287898000	-5.919205000
1	-8.150112000	6.286484000	-7.393390000
8	0.488698000	3.175395000	-5.498065000
6	0.814172000	2.015792000	-10.223048000
6	1.048672000	3.290116000	-10.761517000
6	1.060701000	0.881927000	-11.012784000
6	1.535874000	3.426952000	-12.060524000
6	1.525868000	1.021963000	-12.317361000
6	1.769430000	2.294123000	-12.842563000
1	0.859122000	4.170187000	-10.153391000
1	0.867986000	-0.106861000	-10.606439000
1	1.726127000	4.417800000	-12.463171000
1	1.699935000	0.138520000	-12.925157000
1	2.138901000	2.401051000	-13.858731000
8	-4.270303000	1.217567000	-5.509012000
8	-5.747769000	1.065664000	-4.666109000
1	-4.130889000	0.588440000	-2.183434000
1	-4.865217000	1.428918000	-3.243198000
6	-7.521823000	-1.129154000	-4.084709000
6	-7.726699000	0.339049000	-4.355353000
6	-7.732430000	1.276672000	-3.376388000
6	-7.510395000	0.960349000	-1.918649000
6	-7.639649000	-0.545357000	-1.626975000
6	-6.915739000	-1.376305000	-2.696167000
1	-6.871873000	-1.546174000	-4.862033000
1	-8.490021000	-1.650167000	-4.171724000
1	-8.000800000	0.619219000	-5.367540000
1	-7.934962000	2.313761000	-3.634298000
1	-8.230502000	1.526153000	-1.309567000
1	-6.513703000	1.317607000	-1.624202000
1	-7.244901000	-0.768933000	-0.627358000
1	-8.702891000	-0.826352000	-1.614733000
1	-6.955468000	-2.445053000	-2.448962000
1	-5.858550000	-1.087888000	-2.731143000
6	-3.383990000	0.340772000	-5.298718000
8	-2.189087000	0.434462000	-5.703495000
8	-3.737302000	-0.777122000	-4.625175000
1	-2.929634000	-1.317826000	-4.584560000

8	-4.250786000	1.511086000	-2.452437000
¹P_{1B3'}⁰			
23	-0.527640000	1.902105000	-5.622831000
7	-1.868836000	2.927522000	-4.472241000
7	0.065327000	0.878990000	-3.934153000
7	0.559484000	0.617610000	-6.763349000
7	-1.469458000	2.590043000	-7.303632000
6	-2.723078000	3.870633000	-4.991431000
6	-2.822398000	4.956466000	-4.035168000
6	-2.043299000	4.626513000	-2.956333000
6	-1.515311000	3.302332000	-3.200502000
6	-0.409326000	1.152066000	-2.667915000
6	-0.341551000	-0.073163000	-1.894239000
6	0.169948000	-1.048360000	-2.716572000
6	0.499996000	-0.422426000	-3.978430000
6	1.479250000	-0.271606000	-6.244523000
6	2.612383000	-0.311956000	-7.149845000
6	2.345747000	0.549704000	-8.183876000
6	-1.109326000	2.209781000	-8.575861000
6	0.159223000	1.706321000	-8.924502000
6	-2.281993000	2.334297000	-9.423892000
6	-3.313313000	2.775253000	-8.636827000
6	-2.770334000	3.020328000	-7.314049000
6	-3.337772000	3.772725000	-6.257690000
6	-0.958319000	2.389911000	-2.270870000
6	1.329252000	-0.931071000	-5.012822000
17	-0.912177000	-0.382677000	-0.300943000
6	1.006831000	1.066088000	-7.982259000
17	0.248676000	-2.717637000	-2.296168000
17	-3.606854000	6.475220000	-4.217887000
17	-4.948733000	2.853397000	-9.151622000
17	3.493404000	0.994255000	-9.387709000
17	4.115859000	-1.126132000	-6.954863000
17	-2.472895000	1.858795000	-11.066940000
17	-1.690967000	5.688478000	-1.650212000
6	2.137960000	-2.156431000	-4.765059000
6	1.948515000	-3.289285000	-5.571331000
6	3.102459000	-2.194779000	-3.745993000
6	2.700026000	-4.442732000	-5.353218000
6	3.866604000	-3.341105000	-3.543408000
6	3.663694000	-4.469305000	-4.342909000
1	1.199716000	-3.264988000	-6.358021000
1	3.260550000	-1.317453000	-3.125213000
1	2.536107000	-5.318564000	-5.974783000
1	4.619284000	-3.355841000	-2.760131000
1	4.255368000	-5.365738000	-4.178666000
6	-1.082480000	2.683951000	-0.818767000
6	-2.354110000	2.812532000	-0.233628000
6	0.068256000	2.812674000	-0.026133000
6	-2.459517000	3.060573000	1.133585000
6	-0.047410000	3.085862000	1.335367000
6	-1.311706000	3.204676000	1.917852000
1	-3.243072000	2.683747000	-0.848672000
1	1.049130000	2.715049000	-0.483584000
1	-3.442924000	3.144035000	1.588151000
1	0.847089000	3.200645000	1.941366000
1	-1.401685000	3.407904000	2.981751000
6	-4.607219000	4.517006000	-6.448497000
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6	-5.685111000	4.208612000	-5.603271000
6	-5.953410000	6.215053000	-7.529964000
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1	-7.717667000	4.628496000	-5.078153000	6	-0.871526000	2.298236000	-2.303259000
1	-7.968373000	6.433094000	-6.792127000	6	1.263609000	-0.906958000	-5.296188000
8	0.566235000	3.046257000	-5.549711000	17	-0.672467000	-0.542139000	-0.448332000
6	0.566371000	1.769086000	-10.355052000	6	1.102821000	1.410570000	-8.044038000
6	0.704310000	3.017607000	-10.980650000	17	0.236016000	-2.811071000	-2.628930000
6	0.791180000	0.601352000	-11.100938000	17	-4.026502000	6.176099000	-3.833511000
6	1.072585000	3.097053000	-12.322645000	17	-4.795160000	3.302986000	-9.270812000
6	1.138775000	0.682636000	-12.446715000	17	3.624291000	1.360333000	-9.390371000
6	1.285222000	1.930221000	-13.059479000	17	4.044329000	-1.083843000	-7.246631000
1	0.533749000	3.923710000	-10.406117000	17	-2.194148000	2.689083000	-11.159100000
1	0.672211000	-0.368647000	-10.626607000	17	-1.935957000	5.449718000	-1.416754000
1	1.187915000	4.069316000	-12.793450000	6	2.002979000	-2.194675000	-5.175611000
1	1.296494000	-0.227595000	-13.018463000	6	1.720542000	-3.239390000	-6.068590000
1	1.563042000	1.991637000	-14.108145000	6	2.996479000	-2.376403000	-4.201158000
8	-4.242931000	0.842188000	-5.950665000	6	2.407623000	-4.449044000	-5.978050000
8	-7.431502000	2.261706000	-3.469053000	6	3.696155000	-3.577820000	-4.126155000
1	-4.358315000	1.319150000	-3.100161000	6	3.399909000	-4.618757000	-5.010461000
1	-5.593060000	2.189959000	-2.792090000	1	0.952236000	-3.102874000	-6.824578000
6	-7.249809000	-0.090170000	-4.353843000	1	3.228412000	-1.567196000	-3.514575000
6	-7.990224000	1.227803000	-4.312399000	1	2.171700000	-5.255834000	-6.666275000
6	-8.700411000	1.670701000	-3.095312000	1	4.471921000	-3.703590000	-3.376096000
6	-8.707066000	0.824652000	-1.831531000	1	3.941953000	-5.558199000	-4.945668000
6	-8.207159000	-0.613663000	-2.065762000	6	-0.876206000	2.529739000	-0.832801000
6	-6.954372000	-0.648474000	-2.950548000	6	-2.080762000	2.517201000	-0.110182000
1	-6.325841000	0.036453000	-4.931118000	6	0.339426000	2.732812000	-0.162959000
1	-7.881989000	-0.799992000	-4.908180000	6	-2.056700000	2.712721000	1.268926000
1	-8.329914000	1.610456000	-5.276159000	6	0.351044000	2.950387000	1.214204000
1	-9.528345000	2.372182000	-3.208497000	6	-0.846895000	2.937848000	1.932041000
1	-9.724640000	0.807829000	-1.421468000	1	-3.008118000	2.304613000	-0.636252000
1	-8.078471000	1.328423000	-1.085172000	1	1.269511000	2.738117000	-0.725189000
1	-8.012794000	-1.094012000	-1.099142000	1	-2.987404000	2.687935000	1.829261000
1	-9.003479000	-1.196948000	-2.550774000	1	1.293973000	3.123652000	1.725494000
1	-6.580443000	-1.674375000	-3.044242000	1	-0.836948000	3.097804000	3.007026000
1	-6.152866000	-0.067044000	-2.480756000	6	-4.685329000	4.499948000	-6.365278000
6	-3.279296000	0.401302000	-5.339824000	6	-4.769733000	5.686152000	-7.110225000
8	-2.034882000	0.398887000	-5.672069000	6	-5.836078000	3.958694000	-5.769478000
8	-3.537023000	-0.188489000	-4.101944000	6	-5.991159000	6.339564000	-7.247602000
1	-2.684863000	-0.502603000	-3.755562000	6	-7.059218000	4.610521000	-5.934931000
8	-4.639724000	2.108522000	-2.602214000	6	-7.139985000	5.799822000	-6.661796000
¹TS_{A3'}⁰				1	-3.874444000	6.104150000	-7.562987000
23	-0.482348000	2.041711000	-5.655056000	1	-5.776871000	3.017962000	-5.221977000
7	-1.849160000	2.927206000	-4.458284000	1	-6.048246000	7.265890000	-7.812735000
7	0.069403000	0.864616000	-4.079144000	1	-7.954182000	4.183862000	-5.489780000
7	0.601982000	0.849616000	-6.891140000	1	-8.095333000	6.305762000	-6.775274000
7	-1.420101000	2.819807000	-7.275531000	8	0.621145000	3.159775000	-5.484807000
6	-2.811201000	3.809698000	-4.889159000	6	0.786366000	2.467841000	-10.303845000
6	-3.031442000	4.775146000	-3.828999000	6	0.988365000	3.794738000	-10.712730000
6	-2.188309000	4.453473000	-2.795373000	6	1.008174000	1.427201000	-11.218965000
6	-1.519569000	3.221832000	-3.155450000	6	1.419487000	4.074247000	-12.008726000
6	-0.320573000	1.085612000	-2.780034000	6	1.417145000	1.710142000	-12.519258000
6	-0.218203000	-0.170624000	-2.063920000	6	1.628862000	3.033606000	-12.915654000
6	0.205504000	-1.119473000	-2.963075000	1	0.817791000	4.603057000	-10.007214000
6	0.479182000	-0.444116000	-4.211361000	1	0.838862000	0.398868000	-10.912790000
6	1.454684000	-0.145270000	-6.466207000	1	1.584890000	5.104430000	-12.311258000
6	2.600921000	-0.153110000	-7.354648000	1	1.572099000	0.898134000	-13.224110000
6	2.414446000	0.844743000	-8.279415000	1	1.954391000	3.252190000	-13.928984000
6	-0.979673000	2.649922000	-8.568199000	8	-4.106977000	1.085496000	-5.590158000
6	0.310216000	2.194817000	-8.919405000	8	-5.593211000	0.927690000	-4.459468000
				1	-3.737650000	0.184446000	-2.313539000

1	-4.573450000	1.186101000	-3.102517000
6	-7.444956000	0.820635000	-3.108250000
6	-7.187780000	0.170939000	-1.795088000
6	-8.076787000	-0.640425000	-1.202064000
6	-9.447103000	-0.924781000	-1.768327000
6	-9.843850000	0.099627000	-2.844236000
6	-8.690512000	0.321304000	-3.838807000
1	-6.521604000	0.449487000	-3.818294000
1	-7.370909000	1.908446000	-3.059032000
1	-6.224715000	0.385030000	-1.336276000
1	-7.824955000	-1.102585000	-0.248070000
1	-10.189228000	-0.930488000	-0.958000000
1	-9.468011000	-1.941507000	-2.193553000
1	-10.743475000	-0.233752000	-3.376456000
1	-10.094261000	1.052849000	-2.358961000
1	-8.976754000	1.026327000	-4.626601000
1	-8.464236000	-0.631914000	-4.335556000
6	-3.172246000	0.271111000	-5.402128000
8	-1.986870000	0.410705000	-5.842724000
8	-3.436058000	-0.861909000	-4.700319000
1	-2.602145000	-1.362596000	-4.697820000
8	-3.974690000	1.123991000	-2.303839000

¹P_{2B3'}⁰

23	-0.626059000	1.981722000	-5.457080000
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7	0.079809000	0.876080000	-3.880847000
7	0.358341000	0.736007000	-6.736360000
7	-1.688648000	2.723687000	-7.037422000
6	-2.768590000	3.941215000	-4.583134000
6	-2.791831000	4.969926000	-3.558445000
6	-1.933712000	4.580583000	-2.562907000
6	-1.428043000	3.271269000	-2.918187000
6	-0.256100000	1.115293000	-2.566251000
6	-0.101080000	-0.126926000	-1.832247000
6	0.311394000	-1.081028000	-2.730345000
6	0.510902000	-0.422163000	-4.003417000
6	1.305948000	-0.182117000	-6.331090000
6	2.362686000	-0.196037000	-7.325175000
6	2.022804000	0.707156000	-8.300633000
6	-1.436028000	2.395765000	-8.351389000
6	-0.205802000	1.898511000	-8.819728000
6	-2.663510000	2.588921000	-9.101292000
6	-3.615167000	3.034762000	-8.221487000
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6	-3.434480000	3.943902000	-5.821165000
6	-0.763423000	2.338175000	-2.081489000
6	1.248403000	-0.892895000	-5.119542000
17	-0.485620000	-0.472893000	-0.194179000
6	0.710803000	1.224323000	-7.970980000
17	0.419906000	-2.762351000	-2.366869000
17	-3.592847000	6.490338000	-3.572821000
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17	-2.994480000	2.187849000	-10.741384000
17	-1.487425000	5.577010000	-1.234660000
6	2.067257000	-2.129771000	-4.986986000
6	1.797031000	-3.233930000	-5.809517000
6	3.120465000	-2.205676000	-4.062273000
6	2.557045000	-4.397192000	-5.699061000
6	3.891762000	-3.361161000	-3.968458000
6	3.608607000	-4.461350000	-4.782447000

1	0.980216000	-3.180490000	-6.523842000
1	3.341253000	-1.350329000	-3.429996000
1	2.330862000	-5.251050000	-6.331513000
1	4.712701000	-3.404945000	-3.258275000
1	4.206388000	-5.365123000	-4.702333000
6	-0.674665000	2.600828000	-0.619535000
6	-1.835715000	2.662352000	0.168817000
6	0.585849000	2.763055000	-0.024158000
6	-1.723595000	2.888750000	1.539125000
6	0.685811000	3.013348000	1.343217000
6	-0.469068000	3.073850000	2.126923000
1	-2.800931000	2.474609000	-0.295845000
1	1.481251000	2.713144000	-0.638067000
1	-2.620914000	2.918039000	2.151164000
1	1.663016000	3.155583000	1.796456000
1	-0.390450000	3.259099000	3.195016000
6	-4.601897000	4.848278000	-6.010265000
6	-4.523033000	5.919764000	-6.914603000
6	-5.783460000	4.638943000	-5.282375000
6	-5.604579000	6.780937000	-7.079527000
6	-6.870138000	5.492708000	-5.470863000
6	-6.783249000	6.565875000	-6.360098000
1	-3.605176000	6.085764000	-7.472233000
1	-5.866105000	3.797253000	-4.599702000
1	-5.529418000	7.616372000	-7.770138000
1	-7.787626000	5.317490000	-4.915741000
1	-7.630898000	7.232721000	-6.494320000
8	0.479294000	3.113554000	-5.421479000
6	0.087462000	2.007260000	-10.275299000
6	0.200086000	3.274790000	-10.866617000
6	0.233266000	0.862759000	-11.074642000
6	0.467450000	3.394881000	-12.229303000
6	0.478883000	0.985355000	-12.439707000
6	0.601866000	2.251213000	-13.019123000
1	0.090530000	4.162958000	-10.250719000
1	0.133921000	-0.121069000	-10.624911000
1	0.565284000	4.380913000	-12.674686000
1	0.576036000	0.093305000	-13.052072000
1	0.800781000	2.345116000	-14.083170000
8	-4.317175000	1.000344000	-5.303841000
8	-6.22592000	1.834350000	-3.541104000
1	-3.856586000	0.637185000	-2.227645000
1	-4.908659000	1.732295000	-2.203139000
6	-7.387243000	1.020337000	-3.338962000
6	-7.038033000	-0.273304000	-2.636398000
6	-7.606903000	-1.447618000	-2.927161000
6	-8.673423000	-1.623219000	-3.980672000
6	-9.242433000	-0.275686000	-4.457832000
6	-8.125287000	0.757654000	-4.657650000
1	-5.630480000	1.395171000	-4.203019000
1	-8.025490000	1.626076000	-2.679418000
1	-6.270674000	-0.196230000	-1.868384000
1	-7.289848000	-2.342349000	-2.391715000
1	-9.480859000	-2.260659000	-3.593374000
1	-8.248095000	-2.175190000	-4.834249000
1	-9.810039000	-0.410823000	-5.386611000
1	-9.952855000	0.101559000	-3.708462000
1	-8.520324000	1.700560000	-5.054069000
1	-7.397116000	0.380199000	-5.388965000
6	-3.309146000	0.376048000	-4.965147000
8	-2.132739000	0.435020000	-5.463691000
8	-3.448355000	-0.518859000	-3.916379000
1	-2.585824000	-0.956093000	-3.813908000

8	-4.144425000	1.394683000	-1.689625000
${}^2\text{Re}_{\text{A3},a}^{-1}$			
23	-0.461661000	1.916197000	-5.846339000
7	-1.990590000	2.723932000	-4.703295000
7	-0.103923000	0.539374000	-4.322598000
7	0.824201000	0.840988000	-7.082607000
7	-1.259625000	2.844323000	-7.535127000
6	-2.690436000	3.830886000	-5.097799000
6	-3.050667000	4.577587000	-3.902832000
6	-2.618814000	3.856335000	-2.823924000
6	-2.002675000	2.642176000	-3.335418000
6	-0.860578000	0.439349000	-3.181912000
6	-0.681629000	-0.899538000	-2.648473000
6	0.226291000	-1.541607000	-3.446139000
6	0.631331000	-0.607258000	-4.481261000
6	1.820838000	0.054630000	-6.562695000
6	2.981471000	0.177744000	-7.429329000
6	2.625246000	0.979454000	-8.479626000
6	-0.876870000	2.557232000	-8.818301000
6	0.385887000	2.033875000	-9.187246000
6	-1.959064000	2.950377000	-9.703770000
6	-2.938539000	3.512278000	-8.931282000
6	-2.472210000	3.489162000	-7.554573000
6	-3.074875000	4.095962000	-6.431858000
6	-1.608528000	1.496629000	-2.612108000
6	1.669615000	-0.771296000	-5.428125000
17	-1.544133000	-1.680726000	-1.369901000
6	1.235016000	1.356966000	-8.286587000
17	0.625619000	-3.214916000	-3.279781000
17	-3.739980000	6.157506000	-3.780833000
17	-4.476172000	3.991347000	-9.555931000
17	3.741521000	1.528534000	-9.681224000
17	4.592286000	-0.398064000	-7.175091000
17	-2.141823000	2.643907000	-11.395460000
17	-2.693945000	4.433367000	-1.197578000
6	2.658828000	-1.870566000	-5.216587000
6	2.744347000	-2.935324000	-6.125660000
6	3.518960000	-1.855158000	-4.108881000
6	3.665344000	-3.962876000	-5.929069000
6	4.448813000	-2.875803000	-3.918696000
6	4.523004000	-3.934304000	-4.827053000
1	2.074437000	-2.956763000	-6.980574000
1	3.459973000	-1.031481000	-3.402846000
1	3.713801000	-4.786429000	-6.637019000
1	5.114569000	-2.846239000	-3.059770000
1	5.244532000	-4.733575000	-4.676092000
6	-2.029149000	1.382094000	-1.181635000
6	-3.382327000	1.215946000	-0.851087000
6	-1.074627000	1.439458000	-0.156156000
6	-3.771595000	1.109798000	0.483992000
6	-1.467550000	1.348610000	1.178643000
6	-2.816796000	1.183693000	1.501340000
1	-4.125312000	1.123545000	-1.639171000
1	-0.025918000	1.568631000	-0.410377000
1	-4.823194000	0.970452000	0.721960000
1	-0.719972000	1.404789000	1.966298000
1	-3.121954000	1.108423000	2.542557000
6	-4.219093000	5.033366000	-6.645189000
6	-4.030673000	6.288528000	-7.239552000
6	-5.507326000	4.653568000	-6.240576000
6	-5.108146000	7.154637000	-7.416350000

6	-6.586498000	5.515882000	-6.430325000
6	-6.389431000	6.769451000	-7.013857000
1	-3.032878000	6.585501000	-7.551088000
1	-5.655445000	3.672183000	-5.798743000
1	-4.948682000	8.129858000	-7.869809000
1	-7.581936000	5.207813000	-6.121007000
1	-7.230737000	7.443658000	-7.155553000
8	0.609870000	3.023303000	-5.438225000
6	0.829578000	2.192477000	-10.604728000
6	1.071917000	3.468091000	-11.134827000
6	1.006750000	1.071827000	-11.429532000
6	1.487712000	3.620136000	-12.456664000
6	1.410046000	1.223820000	-12.754718000
6	1.654792000	2.498339000	-13.271633000
1	0.940034000	4.339528000	-10.499534000
1	0.813533000	0.081718000	-11.026449000
1	1.679034000	4.614899000	-12.851252000
1	1.534139000	0.346658000	-13.384790000
1	1.973438000	2.616390000	-14.304464000
8	-4.004928000	0.848939000	-5.787849000
8	-5.338602000	0.258082000	-5.697412000
1	-4.725249000	-0.856969000	-2.774960000
1	-5.464407000	-0.137321000	-3.909999000
6	-8.212750000	2.511484000	-0.377895000
6	-7.881072000	1.520829000	0.713499000
6	-7.876219000	0.195041000	0.528489000
6	-8.229711000	-0.466468000	-0.781877000
6	-8.952647000	0.503188000	-1.730786000
6	-8.225762000	1.855141000	-1.769662000
1	-7.488630000	3.338180000	-0.358254000
1	-9.191374000	2.973738000	-0.164257000
1	-7.632744000	1.928432000	1.694146000
1	-7.604181000	-0.458621000	1.358052000
1	-8.850239000	-1.354744000	-0.591919000
1	-7.315707000	-0.823689000	-1.275289000
1	-9.001603000	0.069921000	-2.736584000
1	-9.989029000	0.652237000	-1.391160000
1	-8.692188000	2.529732000	-2.499060000
1	-7.193269000	1.684861000	-2.099785000
6	-3.110865000	-0.117533000	-6.328427000
8	-1.951024000	0.335551000	-6.455706000
8	-3.596465000	-1.226175000	-6.597340000
1	-5.096218000	-0.633237000	-6.110020000
8	-5.531876000	-0.349891000	-2.948494000

${}^2\text{Re}_{\text{A3},b}^{-1}$			
23	-0.305627000	1.914197000	-5.780923000
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7	0.095187000	0.544668000	-4.259901000
7	0.825230000	0.748863000	-7.080454000
7	-1.274484000	2.749735000	-7.440017000
6	-2.529875000	3.802832000	-4.958293000
6	-2.844030000	4.557775000	-3.759487000
6	-2.351896000	3.852103000	-2.696122000
6	-1.740379000	2.647183000	-3.225911000
6	-0.637814000	0.431564000	-3.100278000
6	-0.439282000	-0.908711000	-2.576657000
6	0.462497000	-1.535554000	-3.392947000
6	0.829726000	-0.599785000	-4.437602000
6	1.884737000	0.018880000	-6.592339000
6	2.992916000	0.163636000	-7.518106000
6	2.553563000	0.921709000	-8.569716000
6	-0.988651000	2.404807000	-8.735773000

6	0.253369000	1.889642000	-9.181129000
6	-2.147183000	2.715752000	-9.548371000
6	-3.085192000	3.287829000	-8.729791000
6	-2.511211000	3.357553000	-7.397771000
6	-3.052494000	3.985121000	-6.257692000
6	-1.381015000	1.479034000	-2.520574000
6	1.825849000	-0.771708000	-5.427912000
17	-1.246345000	-1.705499000	-1.277416000
6	1.163719000	1.252429000	-8.317170000
17	0.893460000	-3.202263000	-3.239433000
17	-3.559686000	6.122998000	-3.636650000
17	-4.678764000	3.688442000	-9.260002000
17	3.584568000	1.481952000	-9.839617000
17	4.635652000	-0.339221000	-7.326008000
17	-2.445870000	2.309544000	-11.203306000
17	-2.361620000	4.422231000	-1.068029000
6	2.856868000	-1.832307000	-5.229560000
6	2.956301000	-2.908886000	-6.123597000
6	3.746106000	-1.768587000	-4.146343000
6	3.917992000	-3.899891000	-5.936759000
6	4.716173000	-2.752872000	-3.965843000
6	4.803419000	-3.823064000	-4.859157000
1	2.265165000	-2.969041000	-6.959646000
1	3.677547000	-0.935638000	-3.452210000
1	3.976513000	-4.732882000	-6.632760000
1	5.403163000	-2.685483000	-3.126089000
1	5.556417000	-4.594030000	-4.715495000
6	-1.961706000	1.312483000	-1.155337000
6	-3.353730000	1.160830000	-1.034295000
6	-1.158709000	1.305481000	-0.007740000
6	-3.925779000	0.995605000	0.228021000
6	-1.737286000	1.154633000	1.251389000
6	-3.120592000	0.995736000	1.370152000
1	-3.974573000	1.156284000	-1.930861000
1	-0.083100000	1.428233000	-0.105505000
1	-5.003052000	0.877500000	0.312795000
1	-1.109020000	1.159307000	2.138965000
1	-3.570632000	0.873981000	2.352797000
6	-4.321177000	4.766176000	-6.363516000
6	-4.377429000	6.011071000	-7.003227000
6	-5.483302000	4.220462000	-5.793433000
6	-5.580589000	6.710906000	-7.070508000
6	-6.687664000	4.919932000	-5.878533000
6	-6.738849000	6.164241000	-6.510994000
1	-3.473990000	6.431114000	-7.437579000
1	-5.436487000	3.245717000	-5.307254000
1	-5.615539000	7.681155000	-7.560072000
1	-7.586853000	4.489066000	-5.445895000
1	-7.678651000	6.708591000	-6.567619000
8	0.809916000	3.010178000	-5.503910000
6	0.599224000	2.025497000	-10.626348000
6	0.737255000	3.295652000	-11.206001000
6	0.785975000	0.891427000	-11.431123000
6	1.059522000	3.428906000	-12.555529000
6	1.096247000	1.023806000	-12.783074000
6	1.236686000	2.293284000	-13.349003000
1	0.599007000	4.177986000	-10.587400000
1	0.673848000	-0.095259000	-10.990451000
1	1.170607000	4.419873000	-12.988355000
1	1.228990000	0.135641000	-13.395657000
1	1.482458000	2.396736000	-14.402999000
8	-3.583384000	0.509950000	-4.533895000
8	-4.963514000	0.884180000	-4.209019000

1	-4.946944000	-1.315081000	-2.218084000
1	-5.461488000	-0.558327000	-3.449031000
6	-7.705796000	2.939343000	-1.093985000
6	-7.762037000	1.961105000	0.056107000
6	-8.037009000	0.659128000	-0.096623000
6	-8.342623000	0.019097000	-1.428005000
6	-8.694646000	1.069595000	-2.494378000
6	-7.692831000	2.232592000	-2.461022000
1	-6.816156000	3.577028000	-0.992662000
1	-8.567391000	3.625704000	-1.027401000
1	-7.562867000	2.357240000	1.052997000
1	-8.038715000	0.009507000	0.780199000
1	-9.170240000	-0.696637000	-1.310025000
1	-7.474179000	-0.566982000	-1.771353000
1	-8.697083000	0.603276000	-3.486545000
1	-9.710285000	1.455797000	-2.314255000
1	-7.917518000	2.957877000	-3.254411000
1	-6.688872000	1.843162000	-2.670764000
6	-3.295631000	0.423575000	-5.795637000
8	-2.123727000	0.301355000	-6.199094000
8	-4.326928000	0.482428000	-6.658354000
1	-3.910311000	0.410696000	-7.534845000
8	-5.655025000	-1.359201000	-2.877938000

²TS1_{A3'}⁻¹

23	-0.496088000	2.053207000	-5.454888000
7	-1.823986000	3.140317000	-4.300247000
7	0.081970000	1.016376000	-3.731859000
7	0.524956000	0.636535000	-6.598448000
7	-1.561248000	2.611459000	-7.159117000
6	-2.571139000	4.166228000	-4.814347000
6	-2.740885000	5.160855000	-3.768644000
6	-2.145759000	4.673409000	-2.638147000
6	-1.622476000	3.357185000	-2.959064000
6	-0.485332000	1.198760000	-2.494288000
6	-0.238410000	0.002009000	-1.710485000
6	0.520571000	-0.839537000	-2.479565000
6	0.766899000	-0.172151000	-3.742455000
6	1.600046000	-0.045032000	-6.076144000
6	2.608890000	-0.150909000	-7.113685000
6	2.090339000	0.410162000	-8.249283000
6	-1.393499000	2.036572000	-8.392445000
6	-0.221842000	1.373425000	-8.824615000
6	-2.585693000	2.306089000	-9.175898000
6	-3.411475000	3.086560000	-8.415923000
6	-2.740803000	3.316755000	-7.145346000
6	-3.157157000	4.164120000	-6.100608000
6	-1.128396000	2.383616000	-2.067305000
6	1.637748000	-0.589060000	-4.776810000
17	-0.875483000	-0.442435000	-0.167074000
6	0.748335000	0.866033000	-7.935528000
17	0.915620000	-2.459874000	-2.016294000
17	-3.416195000	6.746112000	-3.880054000
17	-4.994883000	3.545159000	-8.922752000
17	3.006499000	0.643258000	-9.697751000
17	4.243278000	-0.702759000	-6.985326000
17	-3.039822000	1.657604000	-10.713812000
17	-1.964557000	5.588112000	-1.184626000
6	2.650300000	-1.643729000	-4.473201000
6	2.609566000	-2.882875000	-5.129568000
6	3.660708000	-1.413216000	-3.527589000
6	3.551060000	-3.869732000	-4.843290000
6	4.610523000	-2.394606000	-3.250150000

6	4.556651000	-3.627469000	-3.904599000
1	1.827336000	-3.069519000	-5.860108000
1	3.701154000	-0.454366000	-3.018449000
1	3.500912000	-4.827974000	-5.354285000
1	5.392366000	-2.197690000	-2.520928000
1	5.294260000	-4.395226000	-3.684108000
6	-1.327466000	2.595312000	-0.601149000
6	-2.619596000	2.557809000	-0.053648000
6	-0.225933000	2.826842000	0.234835000
6	-2.794146000	2.751557000	1.316678000
6	-0.409844000	3.034236000	1.601073000
6	-1.695955000	2.995512000	2.145240000
1	-3.469035000	2.344786000	-0.702395000
1	0.772859000	2.856274000	-0.193068000
1	-3.795812000	2.711139000	1.737541000
1	0.449408000	3.223915000	2.239962000
1	-1.840260000	3.152246000	3.211921000
6	-4.351494000	5.040275000	-6.306932000
6	-4.284926000	6.194999000	-7.097089000
6	-5.562896000	4.683244000	-5.693086000
6	-5.410678000	6.999943000	-7.262482000
6	-6.688432000	5.488900000	-5.872761000
6	-6.615580000	6.648228000	-6.648652000
1	-3.344591000	6.465567000	-7.570462000
1	-5.626813000	3.753399000	-5.127326000
1	-5.348309000	7.899551000	-7.870220000
1	-7.628276000	5.205840000	-5.404830000
1	-7.495572000	7.274124000	-6.779204000
8	0.647145000	3.159213000	-5.491048000
6	-0.004143000	1.194268000	-10.291664000
6	0.181957000	2.306804000	-11.125322000
6	0.020782000	-0.087857000	-10.860059000
6	0.395088000	2.141233000	-12.492787000
6	0.221546000	-0.253924000	-12.229023000
6	0.412879000	0.860333000	-13.049407000
1	0.167404000	3.302607000	-10.691166000
1	-0.129622000	-0.953283000	-10.220735000
1	0.545500000	3.012923000	-13.124738000
1	0.229554000	-1.253717000	-12.655913000
1	0.573931000	0.731069000	-14.116897000
8	-4.160896000	1.440199000	-5.251655000
8	-5.781282000	1.409819000	-4.661797000
1	-4.416313000	0.483090000	-2.272166000
1	-5.211184000	1.544431000	-2.994654000
6	-7.896613000	-0.215050000	-5.480578000
6	-7.814634000	1.204096000	-4.978573000
6	-7.884848000	1.522858000	-3.660782000
6	-7.979070000	0.497994000	-2.558941000
6	-8.340677000	-0.900484000	-3.090691000
6	-7.562941000	-1.225576000	-4.374260000
1	-7.206900000	-0.332378000	-6.323947000
1	-8.910982000	-0.404736000	-5.873622000
1	-7.850467000	1.992500000	-5.724357000
1	-7.877127000	2.569514000	-3.364618000
1	-8.728285000	0.822866000	-1.820238000
1	-7.018253000	0.476887000	-2.026620000
1	-8.146198000	-1.656164000	-2.317542000
1	-9.419835000	-0.942963000	-3.305537000
1	-7.788193000	-2.246718000	-4.712094000
1	-6.487454000	-1.165963000	-4.177211000
6	-3.373850000	0.488046000	-4.972997000
8	-2.169096000	0.421074000	-5.320367000
8	-3.870377000	-0.556170000	-4.238674000

1	-3.113271000	-1.161533000	-4.152155000
8	-4.804940000	1.355333000	-2.103396000

²P_{1A3}⁻¹

23	-0.540303000	1.895135000	-5.458169000
7	-1.915989000	2.843497000	-4.206586000
7	0.260581000	0.907993000	-3.791402000
7	0.589340000	0.656703000	-6.697519000
7	-1.703045000	2.447438000	-7.100485000
6	-2.669300000	3.896804000	-4.660010000
6	-2.807935000	4.844936000	-3.567168000
6	-2.213121000	4.291306000	-2.466631000
6	-1.675688000	3.001504000	-2.866347000
6	-0.300167000	0.951571000	-2.538905000
6	0.132079000	-0.236100000	-1.819719000
6	0.993785000	-0.916794000	-2.637644000
6	1.102311000	-0.167812000	-3.877465000
6	1.769657000	0.106179000	-6.259480000
6	2.697699000	0.103061000	-7.376759000
6	2.024211000	0.576235000	-8.470592000
6	-1.600152000	1.867452000	-8.337387000
6	-0.419505000	1.288256000	-8.854686000
6	-2.863905000	2.069180000	-9.028704000
6	-3.656965000	2.828826000	-8.216507000
6	-2.901711000	3.099697000	-7.003816000
6	-3.271970000	3.948067000	-5.935471000
6	-1.077526000	2.022560000	-2.040665000
6	1.961229000	-0.436850000	-4.971287000
17	-0.405506000	-0.843527000	-0.292989000
6	0.670167000	0.889117000	-8.047047000
17	1.648251000	-2.470817000	-2.246759000
17	-3.436943000	6.455353000	-3.600556000
17	-5.307577000	3.195115000	-8.569101000
17	2.781728000	0.874022000	-9.997754000
17	4.392158000	-0.248509000	-7.380607000
17	-3.410302000	1.365235000	-10.511416000
17	-2.035273000	5.120659000	-0.961119000
6	3.120386000	-1.351935000	-4.747819000
6	3.196811000	-2.586641000	-5.409351000
6	4.151717000	-0.992435000	-3.867657000
6	4.273835000	-3.443617000	-5.191572000
6	5.236014000	-1.843234000	-3.659088000
6	5.298810000	-3.073218000	-4.317733000
1	2.398480000	-2.873830000	-6.087921000
1	4.100915000	-0.035830000	-3.355151000
1	4.313935000	-4.401015000	-5.705121000
1	6.031428000	-1.546763000	-2.979839000
1	6.141556000	-3.739651000	-4.150729000
6	-1.294543000	2.123176000	-0.565502000
6	-2.578047000	1.927669000	-0.031419000
6	-0.223928000	2.408941000	0.294317000
6	-2.774538000	2.015541000	1.347237000
6	-0.430531000	2.511463000	1.668611000
6	-1.707919000	2.312190000	2.198776000
1	-3.408630000	1.673235000	-0.689804000
1	0.768114000	2.562192000	-0.122444000
1	-3.768550000	1.849220000	1.754972000
1	0.404507000	2.743505000	2.325410000
1	-1.869274000	2.385408000	3.272005000
6	-4.369592000	4.934156000	-6.165073000
6	-4.200825000	5.976343000	-7.088271000
6	-5.580826000	4.831455000	-5.463497000
6	-5.217843000	6.905508000	-7.302364000

6	-6.600336000	5.755658000	-5.689237000
6	-6.422728000	6.795806000	-6.604827000
1	-3.262129000	6.060034000	-7.629256000
1	-5.727559000	4.018660000	-4.757093000
1	-5.069947000	7.714003000	-8.014212000
1	-7.536585000	5.664899000	-5.143543000
1	-7.218529000	7.517601000	-6.773701000
8	0.475141000	3.128814000	-5.490675000
6	-0.310286000	1.093087000	-10.331784000
6	-0.286521000	2.195952000	-11.198151000
6	-0.223528000	-0.196347000	-10.876794000
6	-0.170918000	2.014694000	-12.575131000
6	-0.120659000	-0.379245000	-12.254715000
6	-0.090261000	0.726066000	-13.108081000
1	-0.348200000	3.197566000	-10.781895000
1	-0.248497000	-1.054706000	-10.211356000
1	-0.145395000	2.879871000	-13.233019000
1	-0.062956000	-1.385343000	-12.662624000
1	-0.005076000	0.584057000	-14.182737000
8	-4.143714000	0.678320000	-5.582594000
8	-6.850446000	2.171586000	-3.742318000
1	-4.473660000	0.192820000	-2.630389000
1	-5.527201000	1.300912000	-2.534275000

²TS_{A3'}⁻¹

23	-0.354080000	2.006139000	-5.540402000
7	-1.665273000	2.918518000	-4.221993000
7	0.360776000	0.836384000	-3.957502000
7	0.679233000	0.769626000	-6.869704000
7	-1.509842000	2.697647000	-7.132771000
6	-2.469648000	3.961801000	-4.595194000
6	-2.632703000	4.831600000	-3.442028000
6	-1.975093000	4.250833000	-2.393203000
6	-1.413069000	3.000572000	-2.874389000
6	-0.155597000	0.864369000	-2.685479000
6	0.184470000	-0.391547000	-2.039884000
6	0.942671000	-1.111906000	-2.923865000
6	1.096668000	-0.308879000	-4.121375000
6	1.805779000	0.090621000	-6.467031000
6	2.766392000	0.135063000	-7.553929000
6	2.170069000	0.781249000	-8.602620000
6	-1.377485000	2.261198000	-8.425315000
6	-0.203252000	1.695108000	-8.973014000
6	-2.611362000	2.567403000	-9.127497000
6	-3.425999000	3.236079000	-8.257410000
6	-2.707743000	3.355716000	-6.997158000
6	-3.104174000	4.075673000	-5.853075000
6	-0.834505000	1.964744000	-2.112092000
6	1.931115000	-0.577439000	-5.232225000
17	-0.350944000	-1.020121000	-0.521947000
6	0.827285000	1.141851000	-8.184561000
17	1.432836000	-2.749029000	-2.646900000
17	-3.369674000	6.391293000	-3.354891000
17	-5.044451000	3.687045000	-8.647253000
17	3.003965000	1.197862000	-10.059925000
17	4.426884000	-0.350309000	-7.555592000
17	-3.113172000	2.063495000	-10.704349000
17	-1.774072000	5.010583000	-0.855243000
6	3.000635000	-1.609043000	-5.084482000
6	2.977966000	-2.777692000	-5.860119000
6	4.047120000	-1.426921000	-4.168075000
6	3.972924000	-3.743375000	-5.718864000
6	5.049160000	-2.386332000	-4.034734000

6	-7.257309000	-0.035220000	-4.885731000
6	-7.393796000	1.470465000	-4.882356000
6	-8.283686000	2.152985000	-3.919771000
6	-9.074727000	1.373419000	-2.879066000
6	-9.091810000	-0.144953000	-3.142433000
6	-7.713340000	-0.673470000	-3.563398000
1	-6.212346000	-0.273068000	-5.111739000
1	-7.870537000	-0.414809000	-5.718000000
1	-7.168131000	1.967171000	-5.826272000
1	-8.682430000	3.133626000	-4.188010000
1	-10.101639000	1.761564000	-2.846849000
1	-8.630107000	1.581072000	-1.896674000
1	-9.450691000	-0.665458000	-2.245179000
1	-9.817382000	-0.362026000	-3.941284000
1	-7.748959000	-1.763717000	-3.681947000
1	-6.972356000	-0.460441000	-2.784074000
6	-3.170467000	0.138557000	-5.067557000
8	-1.928091000	0.211179000	-5.352725000
8	-3.439846000	-0.725126000	-3.985245000
1	-2.569544000	-1.039543000	-3.687378000
8	-4.993085000	0.705076000	-1.977630000

6	5.013441000	-3.549341000	-4.807492000
1	2.167750000	-2.927267000	-6.568330000
1	4.073985000	-0.522053000	-3.567491000
1	3.936762000	-4.647561000	-6.321393000
1	5.857937000	-2.226810000	-3.326017000
1	5.792261000	-4.300399000	-4.700044000
6	-0.975664000	2.012587000	-0.624429000
6	-2.235045000	1.835428000	-0.030364000
6	0.149367000	2.226279000	0.184634000
6	-2.353830000	1.873648000	1.359058000
6	0.020165000	2.278263000	1.571723000
6	-1.233351000	2.100122000	2.162208000
1	-3.103828000	1.632710000	-0.657304000
1	1.122667000	2.363695000	-0.279475000
1	-3.329703000	1.724097000	1.814507000
1	0.896778000	2.454809000	2.190502000
1	-1.334687000	2.134732000	3.244702000
6	-4.321999000	4.940275000	-5.928924000
6	-4.302347000	6.169344000	-6.600797000
6	-5.506405000	4.498929000	-5.318174000
6	-5.447157000	6.962807000	-6.650061000
6	-6.651801000	5.293699000	-5.381779000
6	-6.625344000	6.525827000	-6.039314000
1	-3.382836000	6.505682000	-7.072815000
1	-5.534052000	3.518741000	-4.843768000
1	-5.420790000	7.919881000	-7.165665000
1	-7.571013000	4.945173000	-4.916825000
1	-7.520408000	7.142585000	-6.080139000
8	0.738482000	3.164241000	-5.509689000
6	-0.047492000	1.682110000	-10.458891000
6	0.061362000	2.884373000	-11.173020000
6	-0.007703000	0.470839000	-11.164934000
6	0.212319000	2.876023000	-12.558668000
6	0.130755000	0.461660000	-12.551621000
6	0.243865000	1.664463000	-13.252798000
1	0.035019000	3.825955000	-10.631675000
1	-0.098491000	-0.463923000	-10.618786000
1	0.302617000	3.816100000	-13.097169000
1	0.150629000	-0.485097000	-13.085656000
1	0.355588000	1.657504000	-14.334323000

8	-3.977369000	1.213540000	-5.316143000
8	-5.640977000	1.146371000	-4.412664000
1	-4.146850000	-0.112827000	-2.263783000
1	-4.938150000	1.040689000	-2.813926000
6	-7.657378000	1.061833000	-3.442200000
6	-7.834433000	0.002718000	-2.417264000
6	-8.945645000	-0.745552000	-2.327705000
6	-10.156581000	-0.532091000	-3.205555000
6	-10.133816000	0.851610000	-3.877074000
6	-8.755014000	1.134229000	-4.500040000
1	-6.650775000	0.641654000	-4.076195000
1	-7.388620000	2.024969000	-3.009260000
1	-6.990471000	-0.147207000	-1.746697000
1	-9.006175000	-1.529203000	-1.572682000
1	-11.074408000	-0.648891000	-2.611011000
1	-10.203800000	-1.318437000	-3.977399000
1	-10.919101000	0.918077000	-4.641729000
1	-10.356123000	1.619020000	-3.122567000
1	-8.737344000	2.109842000	-4.997738000
1	-8.560277000	0.384757000	-5.279849000
6	-3.124810000	0.317158000	-5.093254000
8	-1.925848000	0.320345000	-5.487465000
8	-3.522871000	-0.780288000	-4.367466000
1	-2.724094000	-1.334425000	-4.326357000
8	-4.589176000	0.691481000	-1.948881000

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23	-0.562403000	1.932946000	-5.367240000
7	-1.789449000	2.928404000	-4.009039000
7	0.272328000	0.854955000	-3.777078000
7	0.386050000	0.637422000	-6.698133000
7	-1.808985000	2.567393000	-6.913576000
6	-2.534918000	4.015306000	-4.391395000
6	-2.558823000	4.950554000	-3.279275000
6	-1.898177000	4.363523000	-2.235116000
6	-1.444180000	3.059199000	-2.686671000
6	-0.179557000	0.925506000	-2.482485000
6	0.223342000	-0.296059000	-1.805275000
6	0.960638000	-1.030987000	-2.695110000
6	1.026711000	-0.277567000	-3.934011000
6	1.553238000	0.000702000	-6.347571000
6	2.411688000	-0.029683000	-7.518041000
6	1.708504000	0.518657000	-8.556599000
6	-1.812577000	2.019276000	-8.170004000
6	-0.701529000	1.390114000	-8.775101000
6	-3.101330000	2.307260000	-8.777090000
6	-3.803094000	3.084407000	-7.899410000
6	-2.964009000	3.280023000	-6.727585000
6	-3.226312000	4.114172000	-5.618371000
6	-0.838154000	2.042148000	-1.916742000
6	1.788533000	-0.585768000	-5.086718000
17	-0.225405000	-0.874548000	-0.239946000
6	0.405034000	0.902991000	-8.044879000
17	1.522499000	-2.635114000	-2.369726000
17	-3.145310000	6.575381000	-3.240147000
17	-5.444693000	3.552696000	-8.151096000
17	2.393023000	0.814950000	-10.117533000
17	4.075708000	-0.489273000	-7.632365000
17	-3.771954000	1.677506000	-10.241631000
17	-1.573579000	5.167758000	-0.741342000
6	2.892378000	-1.583691000	-4.958998000
6	2.838784000	-2.802900000	-5.650775000
6	4.001577000	-1.318038000	-4.142504000

6	3.865755000	-3.736434000	-5.524408000
6	5.035361000	-2.245662000	-4.025641000
6	4.969059000	-3.459266000	-4.713773000
1	1.979614000	-3.017271000	-6.280216000
1	4.051461000	-0.373724000	-3.607640000
1	3.805671000	-4.680551000	-6.060047000
1	5.892346000	-2.021865000	-3.395290000
1	5.772635000	-4.185478000	-4.618532000
6	-0.904078000	2.148049000	-0.426809000
6	-2.132336000	2.008689000	0.238053000
6	0.261851000	2.383539000	0.316445000
6	-2.180843000	2.106080000	1.629042000
6	0.203617000	2.495501000	1.704351000
6	-1.019935000	2.355807000	2.364392000
1	-3.039003000	1.784753000	-0.323817000
1	1.211244000	2.492451000	-0.201453000
1	-3.133882000	1.982815000	2.137183000
1	1.111974000	2.689022000	2.269941000
1	-1.066161000	2.437004000	3.448095000
6	-4.309983000	5.135887000	-5.739823000
6	-4.160331000	6.225914000	-6.609011000
6	-5.488958000	5.012423000	-4.988171000
6	-5.164532000	7.186542000	-6.718813000
6	-6.496263000	5.969104000	-5.111392000
6	-6.336862000	7.059257000	-5.970300000
1	-3.246573000	6.322230000	-7.189423000
1	-5.627953000	4.153300000	-4.336302000
1	-5.032512000	8.032430000	-7.389145000
1	-7.409844000	5.860753000	-4.531991000
1	-7.123274000	7.805423000	-6.057881000
8	0.527415000	3.094046000	-5.454747000
6	-0.691934000	1.236241000	-10.261008000
6	-0.653352000	2.363505000	-11.094699000
6	-0.719176000	-0.037708000	-10.847073000
6	-0.635951000	2.220618000	-12.480869000
6	-0.714715000	-0.181319000	-12.233398000
6	-0.669782000	0.947569000	-13.054719000
1	-0.627696000	3.352925000	-10.646715000
1	-0.755912000	-0.914399000	-10.206490000
1	-0.598312000	3.103649000	-13.113916000
1	-0.745511000	-1.175145000	-12.672988000
1	-0.661830000	0.835926000	-14.136239000
8	-4.228819000	1.030387000	-5.041935000
8	-6.180892000	1.990062000	-3.456746000
1	-4.321017000	0.240833000	-1.932421000
1	-5.322610000	1.374283000	-1.863296000
6	-7.428696000	1.343010000	-3.716668000
6	-7.402922000	-0.108040000	-3.280866000
6	-8.006097000	-1.092870000	-3.954320000
6	-8.791325000	-0.878842000	-5.226486000
6	-9.076788000	0.610625000	-5.484784000
6	-7.839678000	1.469997000	-5.190276000
1	-5.487116000	1.575372000	-4.041453000
1	-8.154714000	1.886476000	-3.092171000
1	-6.829531000	-0.311478000	-2.378312000
1	-7.920974000	-2.118416000	-3.593903000
1	-9.733496000	-1.446013000	-5.189102000
1	-8.226469000	-1.302439000	-6.072612000
1	-9.410310000	0.758759000	-6.519881000
1	-9.905523000	0.935488000	-4.838240000
1	-8.019592000	2.523858000	-5.433975000
1	-6.996274000	1.137053000	-5.809001000
6	-3.257855000	0.348243000	-4.686059000

8	-2.086024000	0.301146000	-5.165212000	1	-2.620102000	-0.951985000	-3.456259000
8	-3.474306000	-0.511799000	-3.604169000	8	-4.813474000	0.773417000	-1.279526000

Model of VO(OO)Porphyrin using different substituents on the periphery of the porphyrin with alternative groups.

Re_{A2-H"}

23	2.723974000	8.082376000	-6.677946000
7	1.760262000	8.917748000	-5.043163000
7	4.378923000	9.354351000	-6.351538000
7	3.799863000	7.052055000	-8.119592000
7	1.063765000	6.821921000	-7.012730000
6	0.495519000	8.627462000	-4.624242000
6	0.145471000	9.494247000	-3.519724000
6	1.218053000	10.313536000	-3.305778000
6	2.224104000	9.947749000	-4.279418000
6	4.476138000	10.309960000	-5.389843000
6	5.780541000	10.946442000	-5.471703000
6	6.453326000	10.330188000	-6.484614000
6	5.560340000	9.316913000	-7.022335000
6	5.057328000	7.355016000	-8.550527000
6	5.417210000	6.471140000	-9.638571000
6	4.343961000	5.653644000	-9.854354000
6	0.988254000	5.829081000	-7.937681000
6	2.036351000	5.480748000	-8.806501000
6	-0.306133000	5.174846000	-7.838885000
6	-0.978457000	5.789211000	-6.824415000
6	-0.095371000	6.819309000	-6.302761000
6	-0.348638000	7.661261000	-5.207132000
6	3.472792000	10.579655000	-4.444319000
6	5.859262000	8.394902000	-8.039584000
6	3.327557000	6.037053000	-8.898034000
1	6.129129000	11.745068000	-4.829301000
1	7.459586000	10.526204000	-6.832503000
1	-0.797806000	9.479629000	-2.988738000
1	-1.969668000	5.566101000	-6.450581000
1	4.242133000	4.869396000	-10.593599000
1	6.361607000	6.484031000	-10.167535000
1	-0.640180000	4.350925000	-8.456596000
1	1.320174000	11.097545000	-2.566286000
1	6.843771000	8.490669000	-8.491284000
1	3.688685000	11.379081000	-3.739549000
1	-1.324610000	7.550944000	-4.740417000
8	2.121318000	9.145734000	-7.726431000
1	1.827302000	4.668478000	-9.498532000
8	3.007590000	6.288009000	-5.414728000
8	4.031539000	7.080645000	-5.204013000
6	7.209783000	3.755003000	-4.314047000
6	7.438240000	2.280870000	-4.072569000
6	6.258726000	1.627092000	-3.333236000
6	4.917107000	2.095974000	-3.914601000
6	4.762656000	3.618821000	-3.777801000
6	6.022211000	4.353606000	-4.168674000
1	8.074318000	4.342710000	-4.623673000
1	8.366939000	2.135223000	-3.501965000
1	7.605544000	1.771256000	-5.035876000
1	6.342888000	0.533652000	-3.378569000
1	6.302664000	1.903629000	-2.270238000
1	4.082240000	1.581730000	-3.421485000
1	4.872397000	1.821874000	-4.978581000
1	3.927712000	3.987347000	-4.386828000
1	4.500305000	3.877204000	-2.738638000
1	5.919471000	5.422148000	-4.348977000

TS4_{A2-H"}

23	2.842057000	7.633263000	-6.944710000
7	1.982656000	7.663514000	-5.050724000
7	4.609287000	8.337873000	-6.099198000
7	3.934898000	7.043411000	-8.618198000
7	1.289634000	6.401370000	-7.579521000
6	0.711922000	7.254799000	-4.739000000
6	0.404030000	7.639835000	-3.379740000
6	1.502793000	8.282895000	-2.889505000
6	2.490256000	8.295383000	-3.945654000
6	4.744324000	8.875125000	-4.846574000
6	6.068045000	9.441155000	-4.706013000
6	6.718389000	9.228365000	-5.885845000
6	5.795749000	8.531850000	-6.755581000
6	5.222095000	7.410274000	-8.912409000
6	5.556176000	6.956183000	-10.243965000
6	4.453800000	6.316668000	-10.735143000
6	1.167400000	5.834347000	-8.820641000
6	2.158460000	5.823862000	-9.805010000
6	-0.139367000	5.226583000	-8.944090000
6	-0.788075000	5.435193000	-7.762426000
6	0.117911000	6.171803000	-6.908663000
6	-0.151016000	6.568634000	-5.596731000
6	3.764616000	8.859224000	-3.851414000
6	6.080223000	8.104181000	-8.055205000
6	3.438794000	6.374580000	-9.707430000
1	6.440855000	9.932277000	-3.815756000
1	7.728833000	9.511926000	-6.153069000
1	-0.533780000	7.439751000	-2.876575000
1	-1.785953000	5.120850000	-7.482990000
1	4.328652000	5.850483000	-11.704656000
1	6.508931000	7.116789000	-10.733297000
1	-0.501625000	4.708371000	-9.823298000
1	1.642284000	8.713132000	-1.905560000
1	7.071357000	8.331908000	-8.437468000
1	4.021878000	9.327398000	-2.905517000
1	-1.129697000	6.312893000	-5.200676000
8	2.281855000	9.019383000	-7.497538000
1	1.911394000	5.329385000	-10.740295000
8	3.519527000	5.733625000	-6.343074000
8	4.651703000	5.497021000	-5.767849000
6	5.081545000	3.342686000	-7.060319000
6	6.348685000	3.437860000	-7.849200000
6	7.508770000	4.029255000	-7.031111000
6	7.528866000	3.415579000	-5.624928000
6	6.252093000	3.779384000	-4.842989000
6	4.992644000	3.776336000	-5.703015000
1	4.166952000	3.068606000	-7.579131000
1	6.165641000	4.033224000	-8.757004000
1	6.618639000	2.431741000	-8.214539000
1	8.459003000	3.849752000	-7.546872000
1	7.385531000	5.117660000	-6.956319000
1	8.408027000	3.751020000	-5.063290000
1	7.610232000	2.323178000	-5.713169000
1	6.106761000	3.087091000	-4.005214000
1	6.355331000	4.777765000	-4.397978000
1	4.077204000	3.495805000	-5.185528000

P1_{A2-H"}

23	3.385538000	7.608566000	-6.975096000
7	3.186870000	7.420604000	-4.907179000
7	5.140416000	8.677073000	-6.644063000

7	4.103675000	7.194187000	-8.883852000
7	2.148612000	5.937491000	-7.148378000
6	2.220245000	6.698190000	-4.239238000
6	2.294922000	6.983203000	-2.829349000
6	3.319246000	7.868404000	-2.652591000
6	3.879097000	8.136240000	-3.953906000
6	5.534129000	9.236510000	-5.457547000
6	6.661828000	10.110532000	-5.677962000
6	6.941449000	10.065638000	-7.012309000
6	5.988316000	9.160574000	-7.608854000
6	5.093275000	7.878855000	-9.543243000
6	5.127882000	7.474215000	-10.928315000
6	4.153500000	6.533316000	-11.089421000
6	1.849138000	5.267395000	-8.314054000
6	2.475394000	5.473449000	-9.539735000
6	0.786145000	4.325469000	-8.067683000
6	0.455724000	4.430235000	-6.746916000
6	1.318710000	5.431248000	-6.172198000
6	1.331813000	5.804706000	-4.830286000
6	4.950358000	8.985102000	-4.212745000
6	5.958658000	8.801359000	-8.955759000
6	3.518714000	6.364555000	-9.803809000
1	7.169273000	10.674182000	-4.905379000
1	7.724687000	10.583922000	-7.550841000
1	1.654367000	6.538312000	-2.079449000
1	-0.299764000	3.880664000	-6.199989000
1	3.885013000	5.993660000	-11.988745000
1	5.817955000	7.858003000	-11.668976000
1	0.353674000	3.672481000	-8.815227000
1	3.673645000	8.303667000	-1.726713000
1	6.696965000	9.264254000	-9.603967000
1	5.386318000	9.494689000	-3.358346000
1	0.642551000	5.292975000	-4.168558000
8	2.347556000	8.778567000	-7.270511000
1	2.123303000	4.874235000	-10.374412000
8	4.391504000	5.736554000	-6.162624000
8	2.223441000	3.399929000	-2.907567000
6	3.560025000	3.344071000	-3.446413000
6	4.669157000	3.177356000	-2.430025000
6	4.372609000	2.059694000	-1.417424000
6	3.974250000	0.764688000	-2.139045000
6	2.676509000	0.928658000	-2.953270000
6	2.599120000	2.252906000	-3.698205000
1	3.747931000	4.062617000	-4.245571000
1	4.832832000	4.134677000	-1.917300000
1	5.596894000	2.951932000	-2.976156000
1	5.255281000	1.888515000	-0.789426000
1	3.560220000	2.377113000	-0.752085000
1	3.857908000	-0.057076000	-1.421809000
1	4.790897000	0.474418000	-2.815805000
1	2.581193000	0.105501000	-3.672766000
1	1.802852000	0.866383000	-2.290484000
1	2.104159000	2.228655000	-4.671318000

Re_{B2-H''}

23	2.834029000	7.922034000	-6.257673000
7	1.682206000	9.117736000	-5.014493000
7	4.367946000	9.370269000	-6.131154000
7	4.007572000	6.694288000	-7.491084000
7	1.116783000	6.732859000	-6.602886000
6	0.365392000	8.910350000	-4.686892000
6	-0.078498000	9.984961000	-3.823544000
6	0.974442000	10.839412000	-3.670790000

6	2.077153000	10.299524000	-4.438690000
6	4.385645000	10.507528000	-5.398941000
6	5.675484000	11.159263000	-5.565205000
6	6.410627000	10.362640000	-6.394378000
6	5.578334000	9.218304000	-6.739463000
6	5.258351000	6.995375000	-7.919057000
6	5.667599000	5.986894000	-8.887200000
6	4.614655000	5.130574000	-9.037700000
6	1.138612000	5.612732000	-7.379203000
6	2.243192000	5.099872000	-8.081900000
6	-0.184197000	5.004016000	-7.341735000
6	-0.956555000	5.771249000	-6.518621000
6	-0.110490000	6.857048000	-6.048107000
6	-0.456413000	7.872593000	-5.145425000
6	3.315383000	10.934537000	-4.600079000
6	5.983898000	8.139915000	-7.544739000
6	3.551773000	5.608399000	-8.163408000
1	5.970029000	12.094650000	-5.103309000
1	7.425750000	10.519768000	-6.741165000
1	-1.075782000	10.072441000	-3.407990000
1	-1.995286000	5.622279000	-6.246779000
1	4.547701000	4.266816000	-9.689324000
1	6.626935000	5.956367000	-9.390985000
1	-0.469204000	4.103126000	-7.873394000
1	1.008599000	11.763820000	-3.105751000
1	6.987376000	8.218554000	-7.958405000
1	3.448779000	11.867882000	-4.058114000
1	-1.476977000	7.868903000	-4.769693000
8	2.484182000	8.607289000	-7.702301000
1	2.047993000	4.203601000	-8.667484000
8	2.984200000	6.426561000	-5.053440000
8	4.043096000	7.275642000	-4.895256000
6	7.136008000	3.895513000	-4.571843000
6	7.431332000	2.413319000	-4.519509000
6	6.198698000	1.594588000	-4.099619000
6	4.939306000	2.087057000	-4.827909000
6	4.652784000	3.558788000	-4.493850000
6	5.899535000	4.406903000	-4.547225000
1	7.994183000	4.564713000	-4.641742000
1	8.264204000	2.218239000	-3.826333000
1	7.787399000	2.069357000	-5.505576000
1	6.370440000	0.525692000	-4.288855000
1	6.047606000	1.703637000	-3.015723000
1	4.075441000	1.459502000	-4.570411000
1	5.090980000	1.985316000	-5.912436000
1	3.903677000	3.987267000	-5.168895000
1	4.205971000	3.638505000	-3.489388000
1	5.740288000	5.482946000	-4.586173000

TS4_{B2-H''}

23	2.841782000	7.651158000	-6.818696000
7	1.867527000	7.858876000	-4.988534000
7	4.545170000	8.518142000	-5.985607000
7	3.965863000	7.072160000	-8.473403000
7	1.286591000	6.420266000	-7.460330000
6	0.604372000	7.430962000	-4.690589000
6	0.255373000	7.867993000	-3.353326000
6	1.329404000	8.554956000	-2.867192000
6	2.342797000	8.542377000	-3.904101000
6	4.630223000	9.105437000	-4.759101000
6	5.951093000	9.682140000	-4.595707000
6	6.642789000	9.414972000	-5.741398000
6	5.748400000	8.674945000	-6.609972000

6	5.256262000	7.426636000	-8.727983000
6	5.650889000	6.897122000	-10.020696000
6	4.575587000	6.217222000	-10.513770000
6	1.229878000	5.775433000	-8.664063000
6	2.252206000	5.741282000	-9.618707000
6	-0.054828000	5.115801000	-8.790571000
6	-0.748994000	5.376776000	-7.644723000
6	0.107013000	6.198093000	-6.811814000
6	-0.214537000	6.674593000	-5.534989000
6	3.608773000	9.127324000	-3.800878000
6	6.073682000	8.180329000	-7.877322000
6	3.520331000	6.327352000	-9.522903000
1	6.295713000	10.207999000	-3.712851000
1	7.665569000	9.680578000	-5.982423000
1	-0.687175000	7.662912000	-2.858903000
1	-1.744564000	5.043353000	-7.375435000
1	4.496356000	5.677836000	-11.450416000
1	6.626020000	7.027631000	-10.475300000
1	-0.369172000	4.525802000	-9.643672000
1	1.440607000	9.022589000	-1.895720000
1	7.081535000	8.384137000	-8.231505000
1	3.831777000	9.636346000	-2.866136000
1	-1.196763000	6.410140000	-5.150505000
8	2.311127000	9.007007000	-7.518919000
1	2.046882000	5.177767000	-10.525884000
8	3.567566000	5.851883000	-5.994808000
8	4.885482000	5.488813000	-6.036777000
6	5.145260000	3.388291000	-7.440567000
6	6.470664000	3.346219000	-8.151147000
6	7.628744000	3.743530000	-7.221691000
6	7.481794000	3.031780000	-5.871133000
6	6.204170000	3.497862000	-5.147501000
6	5.018967000	3.733042000	-6.082271000
1	4.245908000	3.374845000	-8.052271000
1	6.456833000	4.005439000	-9.033372000
1	6.666903000	2.330716000	-8.549629000
1	8.596034000	3.505414000	-7.687038000
1	7.600164000	4.829330000	-7.060321000
1	8.358880000	3.211572000	-5.233468000
1	7.441158000	1.945912000	-6.047625000
1	5.924676000	2.763082000	-4.379078000
1	6.395516000	4.440785000	-4.619375000
1	4.042920000	3.567548000	-5.629496000

P1_{B2-H''}

23	3.503857000	7.355066000	-6.394161000
7	2.556673000	8.207644000	-4.751008000
7	5.008135000	8.807914000	-6.265496000
7	4.690858000	6.263381000	-7.706293000
7	2.144325000	5.754141000	-6.324608000
6	1.395036000	7.770617000	-4.182486000
6	0.988746000	8.711119000	-3.156472000
6	1.923288000	9.706357000	-3.136453000
6	2.908104000	9.381712000	-4.150001000
6	5.008733000	9.884700000	-5.432511000
6	6.203808000	10.676141000	-5.676998000
6	6.908554000	10.034654000	-6.652306000
6	6.147586000	8.848012000	-7.008702000
6	5.869704000	6.683988000	-8.252763000
6	6.313131000	5.707414000	-9.227856000
6	5.375631000	4.714818000	-9.252355000
6	2.179478000	4.640608000	-7.106345000
6	3.195108000	4.331615000	-8.021225000

6	1.023692000	3.810440000	-6.807149000
6	0.323512000	4.449743000	-5.825197000
6	1.047093000	5.673777000	-5.522295000
6	0.697553000	6.607931000	-4.538689000
6	4.033234000	10.156136000	-4.465416000
6	6.539255000	7.873753000	-7.935066000
6	4.351777000	5.076780000	-8.291865000
1	6.464610000	11.589449000	-5.154691000
1	7.860193000	10.318878000	-7.086531000
1	0.103048000	8.613726000	-2.539396000
1	-0.592181000	4.129907000	-5.341306000
1	5.367638000	3.818511000	-9.861766000
1	7.222319000	5.781990000	-9.813182000
1	0.793221000	2.865102000	-7.284711000
1	1.952115000	10.582768000	-2.499402000
1	7.476264000	8.051567000	-8.457945000
1	4.171376000	11.062017000	-3.879634000
1	-0.212943000	6.404157000	-3.979659000
8	2.648685000	8.165039000	-7.527409000
1	3.080353000	3.404414000	-8.577990000
8	4.517973000	6.389867000	-4.990893000
8	4.128391000	2.932285000	-2.315744000
6	4.286951000	3.471852000	-3.651772000
6	5.108830000	2.629645000	-4.603272000
6	4.701601000	1.148014000	-4.586269000
6	3.184185000	1.005312000	-4.769722000
6	2.397267000	1.657036000	-3.617296000
6	2.976176000	2.994822000	-3.178356000
1	4.455770000	4.548002000	-3.717065000
1	6.173913000	2.740714000	-4.356152000
1	4.976158000	3.049589000	-5.609549000
1	5.232666000	0.606938000	-5.380933000
1	5.002025000	0.696146000	-3.631681000
1	2.899923000	-0.052058000	-4.863992000
1	2.900504000	1.495869000	-5.711272000
1	1.354076000	1.805536000	-3.924280000
1	2.380815000	0.989532000	-2.743429000
1	2.247185000	3.748233000	-2.873881000

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23	2.618025000	8.192008000	-6.737510000
7	1.669838000	9.248159000	-5.216919000
7	4.369208000	9.186796000	-6.217077000
7	3.796602000	6.705830000	-7.608333000
7	1.096963000	6.768147000	-6.607546000
6	0.379253000	9.071298000	-4.793302000
6	0.000073000	10.150761000	-3.912742000
6	1.081128000	10.976391000	-3.811863000
6	2.124191000	10.400843000	-4.626966000
6	4.456079000	10.347349000	-5.490017000
6	5.801664000	10.865975000	-5.556898000
6	6.521901000	9.997590000	-6.323368000
6	5.616465000	8.949091000	-6.730223000
6	5.136565000	6.809405000	-7.913204000
6	5.534376000	5.681178000	-8.717415000
6	4.428034000	4.899264000	-8.888089000
6	1.018775000	5.589769000	-7.316615000
6	2.050866000	5.035841000	-8.070939000
6	-0.287425000	5.007569000	-7.139562000
6	-0.984524000	5.832051000	-6.304378000
6	-0.113824000	6.931632000	-5.970929000
6	-0.445954000	7.999129000	-5.142696000
6	3.411712000	10.918906000	-4.764206000

6	5.970764000	7.849245000	-7.516097000
6	3.345618000	5.535900000	-8.181270000
1	6.142162000	11.770161000	-5.068462000
1	7.570067000	10.048843000	-6.589339000
1	-0.966319000	10.250458000	-3.435017000
1	-1.998040000	5.714482000	-5.942286000
1	4.345613000	3.968566000	-9.434832000
1	6.533750000	5.516908000	-9.099946000
1	-0.617192000	4.081208000	-7.592480000
1	1.177728000	11.886701000	-3.233864000
1	7.005360000	7.796192000	-7.842082000
1	3.629589000	11.840696000	-4.232838000
1	-1.445579000	7.994742000	-4.718053000
8	2.159203000	9.001354000	-8.029072000
1	1.838703000	4.102627000	-8.583931000
8	3.146115000	6.541732000	-5.273738000
6	6.807222000	4.029191000	-3.635225000
6	7.521513000	2.852587000	-4.257878000
6	6.539501000	1.780397000	-4.759374000
6	5.358609000	2.420780000	-5.502672000
6	4.576217000	3.367979000	-4.579055000
6	5.494114000	4.248082000	-3.765792000
1	7.413342000	4.723334000	-3.053300000
1	8.220000000	2.413582000	-3.531160000
1	8.151221000	3.204412000	-5.091486000
1	7.061351000	1.060875000	-5.403026000
1	6.154863000	1.214299000	-3.899318000
1	4.692602000	1.647311000	-5.906187000
1	5.738994000	2.990909000	-6.361989000
1	3.895021000	4.003154000	-5.158496000
1	3.933502000	2.784776000	-3.899031000
1	5.039469000	5.109307000	-3.277894000

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23	2.994985000	7.771290000	-6.785553000
7	2.764624000	8.458791000	-4.835421000
7	4.947248000	8.489101000	-6.736474000
7	3.561471000	6.507555000	-8.336595000
7	1.364623000	6.514208000	-6.455669000
6	1.641269000	8.319205000	-4.058836000
6	1.755904000	9.152423000	-2.884684000
6	2.957067000	9.793395000	-2.968614000
6	3.581962000	9.357147000	-4.195578000
6	5.464303000	9.374555000	-5.826562000
6	6.776467000	9.801115000	-6.256672000
6	7.038532000	9.155246000	-7.428891000
6	5.889573000	8.328614000	-7.719528000
6	4.702070000	6.626711000	-9.095078000
6	4.626561000	5.728329000	-10.222235000
6	3.435337000	5.069563000	-10.129008000
6	0.875870000	5.578988000	-7.332551000
6	1.525490000	5.138872000	-8.486412000
6	-0.408846000	5.105146000	-6.871163000
6	-0.683699000	5.767720000	-5.711122000
6	0.432208000	6.649330000	-5.456349000
6	0.557711000	7.488148000	-4.348608000
6	4.830292000	9.782145000	-4.653040000
6	5.770885000	7.477223000	-8.818403000
6	2.772535000	5.561745000	-8.944555000
1	7.407212000	10.499849000	-5.721497000
1	7.927280000	9.218985000	-8.044049000
1	1.009111000	9.228528000	-2.104250000
1	-1.556227000	5.673352000	-5.076873000

1	3.032757000	4.317552000	-10.796057000
1	5.392479000	5.621699000	-10.980174000
1	-1.012226000	4.361169000	-7.376153000
1	3.389649000	10.499007000	-2.270406000
1	6.603031000	7.459416000	-9.516174000
1	5.362594000	10.495247000	-4.030192000
1	-0.262671000	7.486885000	-3.636722000
8	2.288642000	8.939049000	-7.599641000
1	1.013592000	4.387993000	-9.081359000
8	4.304581000	5.966387000	-5.901556000
6	3.596734000	4.823309000	-4.257389000
6	4.578069000	5.393056000	-3.258536000
6	5.733961000	4.426913000	-2.945403000
6	6.233284000	3.735456000	-4.221463000
6	5.112968000	2.894034000	-4.852444000
6	3.804496000	3.627723000	-4.891643000
1	2.612003000	5.274958000	-4.297029000
1	4.033486000	5.654046000	-2.340930000
1	4.967470000	6.343775000	-3.648978000
1	6.549562000	4.969466000	-2.453163000
1	5.389276000	3.663076000	-2.233609000
1	7.102769000	3.103132000	-4.006163000
1	6.552061000	4.497674000	-4.943022000
1	5.386482000	2.584683000	-5.870935000
1	4.977971000	1.954587000	-4.289537000
1	3.010234000	3.218196000	-5.513036000

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23	3.105233000	7.457140000	-6.655889000
7	2.510407000	7.847294000	-4.701380000
7	4.985263000	8.201875000	-6.145055000
7	4.025214000	6.440575000	-8.221248000
7	1.542638000	6.094717000	-6.784152000
6	1.290445000	7.536408000	-4.153492000
6	1.146230000	8.199495000	-2.878631000
6	2.290126000	8.912038000	-2.669804000
6	3.139856000	8.687654000	-3.815852000
6	5.267767000	9.003414000	-5.064968000
6	6.590440000	9.564281000	-5.207910000
6	7.095431000	9.096496000	-6.385466000
6	6.084494000	8.246612000	-6.968695000
6	5.260760000	6.720041000	-8.751875000
6	5.435536000	5.993657000	-9.987833000
6	4.292943000	5.277884000	-10.192071000
6	1.280776000	5.259402000	-7.840014000
6	2.141059000	5.019950000	-8.910459000
6	-0.014698000	4.643396000	-7.664700000
6	-0.521807000	5.115287000	-6.490823000
6	0.461577000	6.021515000	-5.942995000
6	0.338052000	6.696990000	-4.729991000
6	4.413094000	9.230673000	-3.986433000
6	6.212010000	7.563130000	-8.177974000
6	3.413275000	5.563962000	-9.082807000
1	7.061901000	10.227696000	-4.493681000
1	8.062699000	9.300721000	-6.827256000
1	0.279137000	8.120398000	-2.234903000
1	-1.468960000	4.874224000	-6.024778000
1	4.056986000	4.612576000	-11.013160000
1	6.322369000	6.031934000	-10.607979000
1	-0.463144000	3.938421000	-8.353428000
1	2.547027000	9.533188000	-1.820854000
1	7.144465000	7.692684000	-8.719722000

1	4.776717000	9.886774000	-3.200924000
1	-0.581906000	6.543491000	-4.173367000
8	2.490093000	8.700313000	-7.420240000
1	1.792098000	4.335076000	-9.677811000
8	4.064943000	5.311336000	-5.382045000
6	5.390875000	4.741140000	-5.482361000
6	5.440782000	3.247096000	-5.757248000
6	5.191182000	2.389288000	-4.502321000
6	4.057390000	2.949495000	-3.631945000
6	4.414968000	4.348044000	-3.102658000
6	4.887854000	5.275394000	-4.200678000
1	6.067756000	5.365473000	-6.063647000
1	6.416155000	2.997086000	-6.193047000
1	4.689179000	3.026401000	-6.526552000
1	4.973297000	1.356590000	-4.800343000
1	6.111203000	2.352075000	-3.900775000
1	3.860662000	2.278699000	-2.787038000
1	3.132704000	3.007541000	-4.218808000
1	3.556306000	4.803789000	-2.592489000
1	5.220726000	4.270729000	-2.357599000
1	5.230955000	6.260035000	-3.883502000

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23	2.727786000	7.987947000	-6.852320000
7	2.058958000	8.737664000	-5.010889000
7	4.493410000	9.065531000	-6.632404000
7	3.539542000	7.035921000	-8.537442000
7	1.193505000	6.584473000	-6.818861000
6	0.919150000	8.369720000	-4.363849000
6	0.787125000	9.153934000	-3.146743000
6	1.875461000	9.973484000	-3.086077000
6	2.678342000	9.693808000	-4.265403000
6	4.748271000	9.987534000	-5.658253000
6	6.020798000	10.625178000	-5.933379000
6	6.503776000	10.069932000	-7.083687000
6	5.529989000	9.088798000	-7.520525000
6	4.722830000	7.343046000	-9.136466000
6	4.903734000	6.490292000	-10.300166000
6	3.815810000	5.670225000	-10.360724000
6	0.953537000	5.641342000	-7.776723000
6	1.764670000	5.382872000	-8.890351000
6	-0.282619000	4.952977000	-7.461697000
6	-0.765958000	5.508646000	-6.311635000
6	0.171193000	6.540848000	-5.914680000
6	0.041289000	7.364361000	-4.787852000
6	3.913036000	10.279581000	-4.571075000
6	5.635385000	8.299338000	-8.674117000
6	2.964447000	6.017923000	-9.234556000
1	6.475444000	11.395698000	-5.321479000
1	7.430991000	10.297324000	-7.596912000
1	-0.026288000	9.068994000	-2.435294000
1	-1.672021000	5.251375000	-5.775247000
1	3.604703000	4.891619000	-11.084785000
1	5.759541000	6.515778000	-10.965001000
1	-0.715712000	4.152114000	-8.049851000
1	2.129308000	10.691983000	-2.315142000
1	6.536384000	8.435402000	-9.267968000
1	4.273946000	11.036651000	-3.878447000
1	-0.832669000	7.190266000	-4.164310000
8	1.935091000	9.114532000	-7.732078000
1	1.431032000	4.587205000	-9.552769000
8	3.689164000	6.621621000	-5.785348000
6	5.853050000	4.334138000	-2.522371000

6	6.626167000	3.038970000	-2.406891000
6	6.162186000	1.995166000	-3.437857000
6	5.963749000	2.636268000	-4.819940000
6	4.894983000	3.737217000	-4.761672000
6	5.071518000	4.637136000	-3.565331000
1	5.964076000	5.046590000	-1.704031000
1	6.528377000	2.628634000	-1.389796000
1	7.704131000	3.235373000	-2.537924000
1	6.881561000	1.165671000	-3.487745000
1	5.205837000	1.564776000	-3.106766000
1	5.692278000	1.873453000	-5.562058000
1	6.917493000	3.072539000	-5.151439000
1	4.890445000	4.365557000	-5.659515000
1	3.889961000	3.285279000	-4.726444000
1	4.536881000	5.583066000	-3.621704000

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23	3.146600000	7.494830000	-6.756129000
7	2.643059000	8.313571000	-4.903107000
7	5.032792000	8.389165000	-6.636746000
7	3.769283000	6.432698000	-8.433933000
7	1.344248000	6.418140000	-6.743436000
6	1.450831000	8.164426000	-4.258529000
6	1.455715000	8.984466000	-3.060589000
6	2.663728000	9.620408000	-3.020019000
6	3.405097000	9.192957000	-4.192898000
6	5.449473000	9.241149000	-5.659535000
6	6.803796000	9.679045000	-5.957413000
6	7.170887000	9.064233000	-7.118501000
6	6.044051000	8.245577000	-7.536338000
6	4.964555000	6.575342000	-9.073829000
6	4.980537000	5.711300000	-10.240532000
6	3.779442000	5.063327000	-10.271469000
6	0.953786000	5.517261000	-7.685862000
6	1.723951000	5.111106000	-8.785197000
6	-0.377879000	5.034099000	-7.357357000
6	-0.754186000	5.662869000	-6.206353000
6	0.345667000	6.534276000	-5.824689000
6	0.392775000	7.345323000	-4.681714000
6	4.696860000	9.616865000	-4.538919000
6	6.008734000	7.417565000	-8.666812000
6	3.019262000	5.526494000	-9.124201000
1	7.387608000	10.359696000	-5.348221000
1	8.114542000	9.142496000	-7.646398000
1	0.638401000	9.058113000	-2.352298000
1	-1.681210000	5.549899000	-5.655769000
1	3.431385000	4.337132000	-10.997205000
1	5.807168000	5.618538000	-10.935676000
1	-0.937260000	4.305994000	-7.933783000
1	3.027089000	10.315733000	-2.271935000
1	6.900388000	7.413342000	-9.289994000
1	5.171190000	10.315591000	-3.853116000
1	-0.488419000	7.332052000	-4.043863000
8	2.484112000	8.739408000	-7.587782000
1	1.266993000	4.379597000	-9.448231000
8	3.957137000	5.936823000	-5.871460000
6	4.195994000	5.660760000	-3.239921000
6	5.644653000	5.377708000	-2.937962000
6	6.038158000	3.922810000	-3.249825000
6	5.464294000	3.474402000	-4.601922000
6	3.932895000	3.564295000	-4.602518000
6	3.461613000	4.911348000	-4.108316000
1	3.775742000	6.583032000	-2.846803000

1	5.869966000	5.611437000	-1.885390000
1	6.269257000	6.061302000	-3.536052000
1	7.132501000	3.817538000	-3.237385000
1	5.650658000	3.264059000	-2.456829000
1	5.791317000	2.450977000	-4.836450000
1	5.831647000	4.136863000	-5.393456000
1	3.542994000	3.403896000	-5.611808000
1	3.510817000	2.771547000	-3.958168000
1	2.410378000	5.142891000	-4.243341000

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23	3.171365000	7.583269000	-6.670654000
7	2.194054000	8.069736000	-4.874753000
7	4.937325000	8.140765000	-5.715271000
7	4.357964000	6.308194000	-7.847445000
7	1.614144000	6.239601000	-7.007845000
6	0.852562000	7.881862000	-4.599019000
6	0.483010000	8.612441000	-3.437193000
6	1.621780000	9.260614000	-2.992393000
6	2.668555000	8.916081000	-3.889850000
6	5.039942000	8.980135000	-4.616126000
6	6.416764000	9.399328000	-4.451713000
6	7.137246000	8.816290000	-5.444819000
6	6.216343000	8.026790000	-6.237465000
6	5.715280000	6.438325000	-8.077204000
6	6.112415000	5.603419000	-9.156328000
6	4.973939000	4.950330000	-9.598168000
6	1.527785000	5.337030000	-8.056871000
6	2.563702000	4.956984000	-8.881937000
6	0.175717000	4.823887000	-8.146549000
6	-0.545615000	5.413616000	-7.157997000
6	0.349582000	6.299335000	-6.442038000
6	-0.011056000	7.058685000	-5.350815000
6	4.006203000	9.349947000	-3.784187000
6	6.579017000	7.622950000	-7.325000000
6	3.900229000	5.396956000	-8.781586000
1	6.767416000	10.051792000	-3.660257000
1	8.201489000	8.891042000	-5.636698000
1	-0.509786000	8.627479000	-3.002875000
1	-1.590738000	5.268365000	-6.909770000
1	4.884964000	4.227838000	-10.401079000
1	7.125000000	5.513465000	-9.532061000
1	-0.155094000	4.095021000	-8.877568000
1	1.732125000	9.903893000	-2.127208000
1	7.626146000	7.271776000	-7.616252000
1	4.243187000	10.014314000	-2.957260000
1	-1.044470000	6.998754000	-5.019488000
8	2.846913000	8.807005000	-7.633307000
1	2.341400000	4.235128000	-9.663512000
8	3.886971000	3.923656000	-2.950729000
6	3.429206000	4.191892000	-4.297228000
6	3.578472000	3.052045000	-5.292937000
6	5.016626000	2.881223000	-5.819510000
6	6.068089000	3.077942000	-4.718385000
6	6.004060000	4.507704000	-4.157935000
6	4.600316000	4.893153000	-3.741670000
1	2.483609000	4.733624000	-4.328619000
1	2.899412000	3.230132000	-6.134695000
1	3.241449000	2.130053000	-4.797071000
1	5.124198000	1.890012000	-6.280486000
1	5.195620000	3.617297000	-6.613441000
1	7.073425000	2.884403000	-5.115078000
1	5.896658000	2.360492000	-3.904997000

1	6.680670000	4.616403000	-3.297792000
1	6.338453000	5.225151000	-4.919257000
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7	3.601414000	6.574122000	-7.462472000
7	0.749533000	7.016082000	-6.788566000
6	0.235697000	9.319527000	-4.855591000
6	-0.092053000	10.485917000	-4.066248000
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6	2.128549000	10.386911000	-4.466316000
6	4.539839000	10.124607000	-5.207352000
6	5.952761000	10.453076000	-5.116866000
6	6.615382000	9.557606000	-5.897323000
6	5.612239000	8.675712000	-6.468707000
6	4.933656000	6.604291000	-7.764862000
6	5.234482000	5.543613000	-8.700449000
6	4.064032000	4.889666000	-8.949985000
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6	1.662184000	5.193846000	-8.178503000
6	-0.765367000	5.411182000	-7.423861000
6	-1.428079000	6.301709000	-6.637715000
6	-0.461319000	7.310527000	-6.239025000
6	-0.716988000	8.393944000	-5.362768000
6	3.497749000	10.768645000	-4.495250000
6	5.878927000	7.554593000	-7.290936000
6	3.039305000	5.544351000	-8.166378000
1	6.375217000	11.245481000	-4.517279000
1	7.680647000	9.480712000	-6.056641000
1	-1.085117000	10.773507000	-3.755404000
1	-2.463913000	6.270995000	-6.334362000
1	3.905802000	4.054542000	-9.615560000
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6	7.996075000	6.220164000	-7.213901000
6	7.941898000	8.254952000	-8.537054000
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1	11.434757000	4.505290000	-8.449534000
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1	11.353641000	9.679544000	-10.824868000
1	11.848980000	8.848781000	-9.324825000
1	11.293181000	7.897853000	-10.736042000
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6	3.747031000	11.943880000	-2.292694000
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6	4.116201000	13.063752000	-1.540269000
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1	3.377026000	11.063961000	-1.778600000
1	4.474333000	13.155507000	-5.402030000
8	3.963177000	12.940188000	-0.189769000
6	4.333265000	14.026934000	0.640674000
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1	5.399593000	14.269991000	0.538750000
1	3.736864000	14.924179000	0.425968000
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6	5.550132000	16.480431000	-3.574951000
1	5.871141000	17.193497000	-4.336563000
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1	4.885525000	15.083986000	-1.582673000
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6	-4.446154000	9.071916000	-5.452975000
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1	-2.876330000	9.023171000	-6.914589000
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1	-7.202716000	9.839913000	-7.029176000
1	-7.141839000	8.686849000	-5.668109000
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8	-4.043754000	8.422506000	-1.840010000
6	-5.369571000	8.562630000	-1.360027000
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1	-5.320125000	8.373953000	-0.286018000
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8	2.303231000	8.962310000	-7.688315000
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6	0.445269000	4.116491000	-10.086915000
6	1.755575000	2.720490000	-8.598174000
6	0.091088000	2.984675000	-10.828667000
6	1.385197000	1.592775000	-9.338319000
6	0.553565000	1.713091000	-10.460825000
1	0.074394000	5.086565000	-10.398231000
1	2.394930000	2.593542000	-7.731744000
8	-0.717091000	3.216030000	-11.903850000
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1	-0.245813000	1.617493000	-13.163211000
8	1.885875000	0.405151000	-8.889425000
6	1.541363000	-0.783550000	-9.579315000
1	1.892902000	-0.765529000	-10.619928000
1	2.041418000	-1.594214000	-9.046116000
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1	0.273968000	0.839742000	-11.033119000
8	2.349578000	6.480399000	-4.844079000
8	3.478953000	7.099444000	-4.594296000
6	7.021092000	4.292992000	-4.016387000
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1	7.596321000	1.063265000	-5.129880000
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1	5.256764000	1.372969000	-5.929251000
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1	4.266656000	3.758383000	-5.738346000
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6	2.256355000	9.707321000	-4.304721000
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6	5.546117000	5.379225000	-8.974432000
6	4.414358000	4.664526000	-9.221668000
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6	4.629815000	13.413341000	-1.687614000
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1	4.296112000	12.649017000	-4.992436000
8	4.267865000	11.902422000	0.195990000
6	4.591690000	12.945436000	1.097095000
1	4.503314000	12.516321000	2.097230000
1	5.618881000	13.306385000	0.949559000
1	3.897427000	13.791988000	1.005793000
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1	-5.524873000	7.907895000	-1.287426000
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8	2.364064000	8.632150000	-7.792047000
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6	1.062831000	1.363505000	-10.851482000
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1	2.728692000	2.116118000	-7.976360000
8	-0.110789000	2.936128000	-12.302853000
6	-0.458384000	1.877198000	-13.176185000
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6	-1.661511000	7.660261000	-3.184638000
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6	-4.072560000	7.813243000	-3.487527000
1	-2.467276000	7.955766000	-6.490100000
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8	-4.889690000	8.039377000	-5.775571000
6	-6.224226000	8.077991000	-5.300263000
1	-6.853794000	8.182574000	-6.185839000
1	-6.493723000	7.152879000	-4.772969000
1	-6.393160000	8.935007000	-4.634305000
8	-3.030940000	7.580856000	-1.293346000
6	-4.308824000	7.562535000	-0.680900000
1	-4.913857000	6.715868000	-1.032089000
1	-4.125081000	7.452844000	0.389371000
1	-4.857912000	8.497221000	-0.859073000
1	-5.070144000	7.836119000	-3.071957000
8	2.793594000	7.984720000	-7.953487000
6	2.069204000	3.576544000	-8.967089000
6	1.139899000	3.661801000	-10.010290000
6	2.673059000	2.350445000	-8.665043000
6	0.822117000	2.519652000	-10.752889000
6	2.340000000	1.210951000	-9.405061000
6	1.415545000	1.284148000	-10.456910000
1	0.667421000	4.603930000	-10.264809000
1	3.387313000	2.261579000	-7.854179000
8	-0.085346000	2.704105000	-11.755956000
6	-0.453325000	1.592717000	-12.553794000
1	-0.924639000	0.801503000	-11.954964000
1	-1.175613000	1.971460000	-13.279397000
1	0.409749000	1.173699000	-13.088757000
8	2.970956000	0.060368000	-9.029004000
6	2.673205000	-1.137808000	-9.723889000
1	2.940977000	-1.067939000	-10.787041000
1	3.277590000	-1.915024000	-9.252441000
1	1.611020000	-1.403834000	-9.636753000
1	1.164750000	0.402538000	-11.029862000
8	3.336426000	6.150042000	-5.413204000
8	1.401175000	4.121407000	-1.033832000
6	0.983477000	4.323349000	-2.400012000

6	1.172945000	3.144782000	-3.342946000
6	2.625245000	2.986477000	-3.832986000
6	3.644430000	3.229459000	-2.710559000
6	3.550490000	4.679569000	-2.209906000
6	2.132823000	5.058994000	-1.842100000
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1	0.505087000	3.270285000	-4.204336000
1	0.843304000	2.239409000	-2.814060000
1	2.758311000	1.986385000	-4.265974000
1	2.815402000	3.716652000	-4.629437000
1	4.660627000	3.037165000	-3.076239000
1	3.462772000	2.538691000	-1.876942000
1	4.206020000	4.835626000	-1.341511000
1	3.881794000	5.362785000	-3.003061000
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7	0.730005000	6.988581000	-6.706384000
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6	-0.082288000	10.448752000	-4.035510000
6	1.086607000	11.102926000	-3.796767000
6	2.144062000	10.338409000	-4.425009000
6	4.531300000	10.100931000	-5.172692000
6	5.941682000	10.457457000	-5.154305000
6	6.586039000	9.546457000	-5.932698000
6	5.580558000	8.619588000	-6.435038000
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6	5.235930000	5.460656000	-8.659519000
6	4.063350000	4.811598000	-8.905626000
6	0.612873000	5.858552000	-7.465115000
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6	-1.462354000	6.331958000	-6.676941000
6	-0.488039000	7.303654000	-6.204681000
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6	3.497890000	10.741297000	-4.452353000
6	5.865003000	7.485675000	-7.234065000
6	3.043308000	5.445145000	-8.080107000
1	6.376433000	11.280843000	-4.605602000
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1	-1.075718000	10.748859000	-3.734881000
1	-2.514724000	6.323637000	-6.430708000
1	3.895297000	3.999202000	-9.598452000
1	6.199012000	5.273657000	-9.113181000
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6	8.032595000	6.219090000	-7.189383000
6	7.888191000	8.210402000	-8.556284000
6	9.357469000	6.044340000	-7.594113000
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8	10.001376000	4.953167000	-7.062003000
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1	11.656422000	3.828675000	-6.875219000

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1	11.758450000	8.881642000	-9.454636000
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1	10.992625000	6.803603000	-8.793351000
6	3.871354000	11.954685000	-3.658145000
6	3.751536000	11.953517000	-2.261329000
6	4.352420000	13.104368000	-4.300320000
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6	4.589503000	14.237757000	-2.157850000
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1	4.446536000	13.136442000	-5.380017000
8	3.954935000	12.977198000	-0.162922000
6	4.318790000	14.076727000	0.643725000
1	4.126723000	13.771651000	1.675199000
1	5.383656000	14.329506000	0.536692000
1	3.718456000	14.969894000	0.416866000
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6	-3.138201000	8.930377000	-5.832217000
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8	2.484726000	8.585640000	-7.669300000
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6	1.669525000	2.678276000	-8.587585000
6	0.096451000	3.039354000	-10.861273000
6	1.297996000	1.580845000	-9.367473000
6	0.506994000	1.744769000	-10.513344000
1	0.137858000	5.130967000	-10.389326000
1	2.274684000	2.515441000	-7.702702000
8	-0.672961000	3.317880000	-11.964149000
6	-1.061217000	2.249286000	-12.800322000
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8	1.751986000	0.360892000	-8.930738000
6	1.404987000	-0.789703000	-9.670679000
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1	1.864615000	-1.633666000	-9.150734000
1	0.316331000	-0.941074000	-9.707819000

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8	3.555868000	7.009074000	-4.748760000
6	7.000805000	4.350527000	-4.002919000
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1	6.560412000	1.530238000	-3.527296000
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6	0.003343000	9.708877000	-3.959379000
6	1.162412000	10.381804000	-3.644386000
6	2.224861000	9.727708000	-4.344340000
6	4.632216000	9.453591000	-4.978538000
6	6.036279000	9.787165000	-4.845265000
6	6.723287000	9.027004000	-5.737719000
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6	5.477732000	5.428550000	-9.076211000
6	4.324998000	4.714345000	-9.329358000
6	0.963338000	5.278348000	-7.589433000
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6	-0.182019000	6.619630000	-6.218735000
6	-0.532859000	7.660903000	-5.361160000
6	3.604494000	10.071549000	-4.263650000
6	6.087794000	7.275348000	-7.436710000
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1	6.439616000	10.513658000	-4.154111000
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1	6.436503000	5.319899000	-9.562891000
1	-0.727677000	3.830607000	-7.940988000
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6	9.602178000	6.008881000	-8.157499000
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8	10.256893000	4.818196000	-7.940769000

6	11.600056000	4.706886000	-8.357569000
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6	3.974813000	11.177271000	-3.324589000
6	3.790527000	11.026694000	-1.941928000
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6	4.136598000	12.057081000	-1.066959000
6	4.852494000	13.406696000	-2.927541000
6	4.673199000	13.261454000	-1.545053000
1	3.376887000	10.109308000	-1.538380000
1	4.648094000	12.530837000	-4.874159000
8	3.924099000	11.801915000	0.267836000
6	4.247552000	12.808114000	1.201985000
1	3.999240000	12.400520000	2.185195000
1	5.317557000	13.062419000	1.179605000
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6	5.715689000	15.622937000	-2.671795000
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1	6.507276000	15.350081000	-1.958395000
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6	-2.292087000	7.550252000	-3.559084000
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1	-5.640276000	8.423453000	-1.491205000
1	-5.685435000	7.904049000	-3.741699000
8	2.393567000	8.661320000	-7.823456000
6	1.637629000	3.540845000	-9.215250000
6	0.686649000	3.632304000	-10.242102000
6	2.267809000	2.307831000	-8.986727000
6	0.369122000	2.512919000	-11.014493000
6	1.948062000	1.194769000	-9.764455000
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1	0.193088000	4.574433000	-10.452750000
1	3.009163000	2.205351000	-8.202316000
8	-0.574850000	2.714459000	-11.993018000
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1	-1.676471000	2.006999000	-13.517911000
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6	2.339126000	-1.124772000	-10.202063000
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1	1.286138000	-1.430256000	-10.113040000
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8	2.528210000	5.973995000	-5.122905000
8	3.637109000	5.824712000	-3.960704000
6	3.919379000	4.384398000	-3.798486000
6	4.125474000	3.946779000	-2.361514000
6	5.541501000	4.245467000	-1.831838000
6	6.034017000	5.633649000	-2.264729000
6	6.135010000	5.732985000	-3.795909000
6	4.890780000	5.246863000	-4.497034000
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1	3.369870000	4.455196000	-1.748605000
1	5.549794000	4.153557000	-0.738698000
1	6.238697000	3.486242000	-2.215579000
1	7.014966000	5.843945000	-1.821969000
1	5.346756000	6.404487000	-1.894484000
1	6.346352000	6.758247000	-4.116693000
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7	4.104626000	6.274747000	-7.533416000
7	1.106130000	6.539193000	-6.568501000
6	0.581072000	8.802358000	-4.754141000
6	0.242080000	9.952934000	-3.942198000
6	1.383372000	10.665285000	-3.742625000
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6	4.822591000	9.736436000	-5.168649000
6	6.212312000	10.135238000	-5.137726000
6	6.887429000	9.286593000	-5.958568000
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6	5.396222000	6.339453000	-7.903255000
6	5.664627000	5.284191000	-8.872195000
6	4.494228000	4.609164000	-9.040933000
6	1.068670000	5.416658000	-7.342393000
6	2.134055000	4.840824000	-8.085651000
6	-0.284659000	4.869168000	-7.256782000
6	-1.006253000	5.686264000	-6.440767000
6	-0.102917000	6.749243000	-6.018261000
6	-0.368299000	7.837539000	-5.159160000
6	3.790753000	10.377382000	-4.455837000
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6	5.866779000	4.227400000	-4.649442000
1	6.984095000	5.451303000	-3.360348000
1	8.502638000	3.569350000	-2.767828000
1	8.985496000	4.046585000	-4.386740000
1	8.786560000	1.624750000	-4.440309000
1	7.248742000	1.656702000	-3.578516000
1	6.924375000	1.237301000	-6.049408000
1	7.693190000	2.787921000	-6.390075000
1	5.313052000	3.220529000	-6.459091000
1	5.006686000	2.294664000	-5.003975000
1	5.033819000	4.928916000	-4.676347000

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23	2.876134000	7.781730000	-6.786752000
7	1.989661000	8.862402000	-5.240272000
7	4.713086000	8.674103000	-6.324465000
7	3.870093000	6.384508000	-7.949942000
7	1.099009000	6.692239000	-6.995612000
6	0.654977000	8.867231000	-4.929447000
6	0.377960000	9.954439000	-4.018481000
6	1.560475000	10.592195000	-3.788775000
6	2.568872000	9.901794000	-4.559506000
6	4.926095000	9.674097000	-5.418045000
6	6.339735000	9.994743000	-5.374164000
6	6.956475000	9.175886000	-6.268042000
6	5.924601000	8.346914000	-6.860701000
6	5.194826000	6.412266000	-8.296709000
6	5.454054000	5.370468000	-9.268202000
6	4.279173000	4.716060000	-9.475560000
6	0.926889000	5.587841000	-7.775008000
6	1.927452000	4.972603000	-8.566158000
6	-0.432395000	5.102133000	-7.633939000
6	-1.060816000	5.936366000	-6.762042000
6	-0.088963000	6.937010000	-6.365460000
6	-0.318844000	7.967808000	-5.429348000
6	3.933524000	10.274408000	-4.613204000
6	6.157096000	7.322110000	-7.806493000
6	3.284914000	5.349692000	-8.635419000
1	6.793251000	10.734009000	-4.730746000

1	8.010722000	9.118154000	-6.494764000
1	-0.593930000	10.204307000	-3.620092000
1	-2.077048000	5.874237000	-6.402116000
1	4.095401000	3.885429000	-10.140454000
1	6.409021000	5.174238000	-9.732248000
1	-0.838251000	4.229347000	-8.123453000
1	1.732923000	11.458590000	-3.168034000
6	7.559364000	7.172058000	-8.311500000
6	8.313256000	6.042494000	-7.972648000
6	8.115943000	8.167653000	-9.122494000
6	9.622739000	5.912749000	-8.447313000
6	9.423546000	8.025770000	-9.599096000
6	10.189831000	6.899798000	-9.265879000
1	7.904809000	5.264732000	-7.337053000
1	7.546559000	9.047252000	-9.401633000
8	10.280002000	4.780707000	-8.058567000
6	11.610668000	4.580787000	-8.501507000
1	11.669371000	4.523380000	-9.596960000
1	12.280811000	5.375424000	-8.146263000
1	11.927885000	3.627284000	-8.074991000
8	9.875257000	9.042809000	-10.389818000
6	11.186536000	8.961696000	-10.919774000
1	11.324258000	9.865185000	-11.516767000
1	11.944904000	8.935373000	-10.125386000
1	11.309611000	8.080832000	-11.564419000
1	11.201126000	6.795131000	-9.633178000
6	4.364813000	11.409145000	-3.735823000
6	4.349067000	11.267284000	-2.343224000
6	4.784706000	12.613999000	-4.311096000
6	4.757013000	12.330419000	-1.530929000
6	5.180776000	13.675787000	-3.490709000
6	5.173830000	13.544533000	-2.094757000
1	4.037474000	10.339646000	-1.876204000
1	4.796444000	12.747846000	-5.387024000
8	4.715979000	12.092577000	-0.186923000
6	5.124712000	13.119654000	0.699211000
1	5.014148000	12.708832000	1.704551000
1	6.174245000	13.400842000	0.537869000
1	4.493452000	14.013610000	0.603795000
8	5.561434000	14.812499000	-4.143481000
6	5.961414000	15.935880000	-3.378567000
1	6.207433000	16.716839000	-4.100516000
1	5.152700000	16.290233000	-2.725029000
1	6.848197000	15.717163000	-2.768127000
1	5.484702000	14.365335000	-1.463933000
6	-1.716594000	8.115664000	-4.913140000
6	-2.741638000	8.502602000	-5.784299000
6	-2.002434000	7.863469000	-3.565992000
6	-4.047898000	8.642408000	-5.303481000
6	-3.313267000	7.995446000	-3.096136000
6	-4.347524000	8.388158000	-3.957548000
1	-2.540631000	8.710999000	-6.829161000
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1	-6.402322000	9.987909000	-5.036737000
8	-3.493425000	7.717987000	-1.771455000
6	-4.797614000	7.815162000	-1.226584000
1	-5.494720000	7.122184000	-1.716942000
1	-4.702836000	7.543361000	-0.173582000
1	-5.193919000	8.837082000	-1.300722000

1	-5.358615000	8.493202000	-3.589865000
8	2.524696000	8.810657000	-7.991680000
6	1.504980000	3.795151000	-9.391060000
6	0.644053000	3.979912000	-10.478796000
6	1.965788000	2.512544000	-9.072737000
6	0.251948000	2.880037000	-11.249362000
6	1.561413000	1.417339000	-9.843458000
6	0.703425000	1.589361000	-10.938913000
1	0.280915000	4.966020000	-10.746376000
1	2.626072000	2.346774000	-8.228781000
8	-0.580386000	3.160888000	-12.294385000
6	-1.009008000	2.098445000	-13.127743000
1	-1.589269000	1.351982000	-12.568312000
1	-1.647887000	2.553140000	-13.887190000
1	-0.161713000	1.601362000	-13.619285000
8	2.056209000	0.206784000	-9.450636000
6	1.680102000	-0.949721000	-10.177202000
1	2.004646000	-0.894204000	-11.225240000
1	2.184086000	-1.786445000	-9.689762000
1	0.594414000	-1.113798000	-10.144711000
1	0.395206000	0.741240000	-11.534053000
8	3.440113000	6.310818000	-5.541720000
6	2.902026000	6.574077000	-2.815730000
6	4.230698000	6.765820000	-2.135231000
6	4.980107000	5.438418000	-1.925165000
6	4.892761000	4.553355000	-3.176608000
6	3.432444000	4.218418000	-3.512482000
6	2.555986000	5.441620000	-3.463388000
1	2.211063000	7.413831000	-2.802981000
1	4.087893000	7.279238000	-1.172657000
1	4.840768000	7.448536000	-2.748404000
1	6.026947000	5.637037000	-1.662100000
1	4.537022000	4.904539000	-1.071633000
1	5.473111000	3.632133000	-3.036183000
1	5.318876000	5.090548000	-4.031776000
1	3.365306000	3.776775000	-4.512532000
1	3.041659000	3.464358000	-2.808132000
1	1.571806000	5.367891000	-3.918440000

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23	2.814596000	7.802904000	-6.732745000
7	1.937098000	8.785758000	-5.115193000
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7	3.854695000	6.305032000	-7.727803000
7	1.140992000	6.568454000	-6.778850000
6	0.590638000	8.785634000	-4.817103000
6	0.290425000	9.887928000	-3.935472000
6	1.460500000	10.541571000	-3.698318000
6	2.490987000	9.848016000	-4.432559000
6	4.843547000	9.568040000	-5.187420000
6	6.250341000	9.885327000	-5.118262000
6	6.890900000	9.049817000	-5.980552000
6	5.883327000	8.212121000	-6.586932000
6	5.187092000	6.342176000	-8.068845000
6	5.462030000	5.327101000	-9.059149000
6	4.293584000	4.671385000	-9.293473000
6	0.972555000	5.455595000	-7.570884000
6	1.952506000	4.859232000	-8.381622000
6	-0.378866000	4.966047000	-7.435669000
6	-1.022504000	5.801285000	-6.575191000
6	-0.071757000	6.811128000	-6.174406000
6	-0.358089000	7.861101000	-5.285011000
6	3.847019000	10.215988000	-4.437493000

6	6.151065000	7.215450000	-7.539965000	1	-5.619603000	6.990396000	-1.686695000
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1	6.684628000	10.642980000	-4.482800000	1	-5.328083000	8.705449000	-1.266282000
1	7.949735000	8.993518000	-6.185922000	1	-5.446538000	8.357021000	-3.556971000
1	-0.691114000	10.128460000	-3.554598000	8	2.490335000	8.805478000	-7.916410000
1	-2.044533000	5.740183000	-6.231487000	6	1.540541000	3.688745000	-9.224286000
1	4.118514000	3.850864000	-9.973492000	6	0.697814000	3.881679000	-10.324823000
1	6.426025000	5.145902000	-9.510976000	6	1.994720000	2.401496000	-8.914333000
1	-0.773813000	4.091229000	-7.930845000	6	0.315199000	2.789855000	-11.111338000
1	1.617600000	11.417416000	-3.086300000	6	1.606112000	1.314360000	-9.704001000
6	7.565979000	7.069164000	-8.015680000	6	0.763415000	1.496050000	-10.809540000
6	8.320499000	5.948410000	-7.649588000	1	0.339692000	4.870709000	-10.588699000
6	8.136683000	8.054908000	-8.828802000	1	2.643541000	2.226580000	-8.063205000
6	9.638728000	5.816291000	-8.098085000	8	-0.503736000	3.081360000	-12.165234000
6	9.455296000	7.915340000	-9.274796000	6	-0.916901000	2.028104000	-13.016883000
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8	10.292031000	4.689061000	-7.684406000	8	2.098283000	0.099037000	-9.317452000
6	11.628929000	4.486479000	-8.105240000	6	1.740644000	-1.047415000	-10.667835000
1	11.704562000	4.418597000	-9.199126000	1	2.082290000	-0.974324000	-11.109425000
1	12.293453000	5.285202000	-7.748184000	1	2.240390000	-1.889683000	-9.585263000
1	11.941320000	3.537472000	-7.664977000	1	0.655349000	-1.217791000	-10.057008000
8	9.919553000	8.927001000	-10.066749000	1	0.464886000	0.654153000	-11.418317000
6	11.240419000	8.844539000	-10.570595000	8	3.405690000	6.027766000	-4.770854000
1	11.387585000	9.742715000	-11.173514000	6	3.872271000	6.313494000	-3.432291000
1	11.984065000	8.827681000	-9.761991000	6	5.077835000	5.508119000	-2.975318000
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6	5.059298000	13.656308000	-3.382699000	1	5.792226000	5.479296000	-3.808527000
6	5.040896000	13.559819000	-1.983980000	1	5.631410000	3.471290000	-2.470485000
1	3.926209000	10.353617000	-1.699692000	1	4.305774000	4.112600000	-1.507652000
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8	4.573281000	12.150295000	-0.045881000	1	4.077908000	3.389593000	-4.478209000
6	4.962232000	13.202910000	0.818147000	1	1.670123000	3.804900000	-4.192545000
1	4.844319000	12.817008000	1.832651000	1	1.866942000	4.065467000	-2.459436000
1	6.010860000	13.490615000	0.661619000	1	1.667478000	6.298708000	-3.587298000
1	4.324154000	14.088465000	0.693463000	Re_{B2-A'}			
8	5.439233000	14.779981000	-4.059766000	23	2.573801000	7.917318000	-6.378462000
6	5.821365000	15.924707000	-3.318725000	7	1.594241000	9.276707000	-5.129762000
1	6.067587000	16.690588000	-4.056731000	7	4.346827000	8.962971000	-6.015264000
1	5.003321000	16.287545000	-2.681492000	7	3.705067000	6.619179000	-7.584123000
1	6.704097000	15.729575000	-2.694327000	7	0.710814000	6.990248000	-6.657842000
1	5.340632000	14.397716000	-1.370456000	6	0.239195000	9.271378000	-4.850999000
6	-1.770881000	7.999305000	-4.801579000	6	-0.072735000	10.438138000	-4.050845000
6	-2.779264000	8.387995000	-5.690908000	6	1.087298000	11.117897000	-3.846850000
6	-2.089367000	7.739390000	-3.463266000	6	2.134381000	10.377174000	-4.515892000
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1	-6.889051000	9.392351000	-6.696010000	6	0.640051000	5.880177000	-7.447863000
1	-6.796967000	8.137424000	-5.430249000	6	1.693197000	5.266006000	-8.176067000
1	-6.464858000	9.848604000	-5.023270000	6	-0.737180000	5.391938000	-7.397586000
8	-3.617596000	7.586450000	-1.698907000	6	-1.438845000	6.228458000	-6.583845000
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6	-0.499314000	7.246371000	-6.130180000	1	-6.876754000	10.255523000	-5.112367000
6	-0.737304000	8.340285000	-5.269701000	8	-3.945832000	8.412282000	-1.617394000
6	3.492458000	10.749882000	-4.531529000	6	-5.254746000	8.538625000	-1.104568000
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6	3.071020000	5.605401000	-8.239331000	1	-5.173788000	8.380445000	-0.026451000
1	6.340071000	11.214904000	-4.576539000	1	-5.673772000	9.538499000	-1.289489000
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1	3.880862000	4.061723000	-9.688882000	6	0.565468000	4.258985000	-10.189388000
1	6.233702000	5.262964000	-9.247300000	6	1.623752000	2.778744000	-8.597196000
1	-1.108897000	4.516240000	-7.911011000	6	0.188437000	3.155561000	-10.958566000
1	1.224340000	12.040718000	-3.301891000	6	1.242853000	1.680419000	-9.372097000
6	7.374202000	7.325960000	-7.689121000	6	0.521536000	1.852729000	-10.561834000
6	8.037188000	6.195848000	-7.193294000	1	0.296852000	5.254792000	-10.524357000
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6	9.412061000	8.005649000	-8.810117000	6	-0.915822000	2.370297000	-12.930238000
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1	7.573591000	9.108156000	-8.905207000	1	-0.057000000	1.797647000	-13.309720000
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6	11.303624000	4.583683000	-7.217896000	6	1.262597000	-0.698805000	-9.622167000
1	11.497390000	4.440986000	-8.291015000	1	1.707832000	-0.696775000	-10.627815000
1	11.957065000	5.385251000	-6.843861000	1	1.655271000	-1.549962000	-9.060643000
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8	10.002838000	8.947924000	-9.616642000	1	0.228664000	1.000412000	-11.159037000
6	11.356130000	8.771359000	-9.975872000	8	2.731677000	6.570986000	-5.382452000
1	11.612908000	9.619817000	-10.614815000	6	6.299445000	4.509250000	-4.114018000
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6	5.506751000	5.179973000	-12.732853000
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6	6.537841000	4.983047000	-13.660898000
6	6.107480000	7.183800000	-14.588228000
6	6.833924000	5.989119000	-14.585520000
35	5.160262000	3.804688000	-11.466098000
35	4.077237000	8.982961000	-13.725266000
8	7.210664000	3.800279000	-13.604032000
6	8.255462000	3.567632000	-14.527669000
1	7.892843000	3.581144000	-15.564948000
1	9.066106000	4.301772000	-14.419760000
1	8.639914000	2.572523000	-14.295171000
8	6.342280000	8.198468000	-15.465875000
6	7.374176000	8.046253000	-16.419950000
1	7.376775000	8.969235000	-17.003265000
1	8.355602000	7.918670000	-15.942271000
1	7.186827000	7.196010000	-17.090572000
1	7.629866000	5.841778000	-15.301553000
6	3.473845000	11.062026000	-7.733352000
6	3.874294000	11.147048000	-6.391363000
6	3.756411000	12.138964000	-8.587796000
6	4.542321000	12.280158000	-5.908378000
6	4.425901000	13.276219000	-8.117769000
6	4.816280000	13.341189000	-6.776721000
35	3.554297000	9.709199000	-5.188795000
35	3.199656000	12.108221000	-10.405656000
8	4.899312000	12.280042000	-4.594082000
6	5.568066000	13.410671000	-4.071525000
1	5.745736000	13.188632000	-3.017376000
1	6.531679000	13.581764000	-4.571485000
1	4.954916000	14.319179000	-4.150814000
8	4.656422000	14.277488000	-9.011707000
6	5.330789000	15.439454000	-8.571796000
1	5.400061000	16.090313000	-9.445723000
1	4.774242000	15.958284000	-7.778718000
1	6.343364000	15.211271000	-8.210925000
1	5.333284000	14.216326000	-6.409206000
6	-2.633559000	7.919099000	-6.362777000
6	-3.918374000	8.179708000	-6.864147000
6	-2.446301000	7.906464000	-4.972017000

6	-4.995773000	8.417946000	-6.000653000
6	-3.514967000	8.145357000	-4.098036000
6	-4.787678000	8.399840000	-4.618240000
35	-4.231779000	8.263483000	-8.738030000
35	-0.740834000	7.520984000	-4.225406000
8	-6.208032000	8.665456000	-6.570092000
6	-7.318070000	8.905283000	-5.728102000
1	-7.170733000	9.797307000	-5.103347000
1	-8.165731000	9.071543000	-6.395900000
1	-7.532362000	8.043469000	-5.080859000
8	-3.248165000	8.108666000	-2.762987000
6	-4.301410000	8.354952000	-1.852602000
1	-5.104604000	7.610836000	-1.947368000
1	-3.857220000	8.278190000	-0.858169000
1	-4.724961000	9.360618000	-1.982076000
1	-5.614961000	8.584438000	-3.947522000
8	0.595353000	8.095961000	-10.555777000
6	-1.350490000	3.244225000	-11.362653000
6	-2.614850000	3.438255000	-11.940378000
6	-0.811074000	1.948816000	-11.348037000
6	-3.329532000	2.365370000	-12.489406000
6	-1.514356000	0.868079000	-11.896081000
6	-2.774001000	1.082523000	-12.464157000
35	-3.381430000	5.175720000	-12.040838000
35	0.879110000	1.610414000	-10.545430000
8	-4.546804000	2.640803000	-13.034660000
6	-5.296280000	1.580557000	-13.594088000
1	-5.542418000	0.815572000	-12.844551000
1	-6.219707000	2.032506000	-13.961701000
1	-4.767989000	1.106039000	-14.432856000
8	-0.920799000	0.356257000	-11.837225000
6	-1.592488000	-1.464769000	-12.401657000
1	-1.766216000	-1.330229000	-13.478307000
1	-0.931753000	-2.320471000	-12.248989000
1	-2.552732000	-1.657411000	-11.902942000
1	-3.320847000	0.251858000	-12.887299000
8	2.227364000	5.610609000	-8.751420000
8	1.977077000	6.520399000	-7.773273000
6	5.385597000	4.662089000	-7.315040000
6	5.217698000	5.960564000	-6.563708000
6	6.236492000	6.634213000	-6.017536000
6	7.670527000	6.159848000	-6.062094000
6	7.777836000	4.686478000	-6.490171000
6	6.853572000	4.393361000	-7.681101000
1	4.758427000	4.686215000	-8.214419000
1	4.989167000	3.833142000	-6.704946000
1	4.206590000	6.358705000	-6.505571000
1	6.044722000	7.588082000	-5.527560000
1	8.145675000	6.301828000	-5.079129000
1	8.242565000	6.793964000	-6.759184000
1	8.820081000	4.436917000	-6.733078000
1	7.487648000	4.044146000	-5.645506000
1	6.979674000	3.357208000	-8.022219000
1	7.135909000	5.038599000	-8.524265000

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23	1.435998000	7.137484000	-9.512434000
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7	3.239859000	8.225687000	-9.875824000
7	1.775333000	5.650547000	-11.015523000
7	-0.263072000	6.076786000	-8.969376000

6	-0.291602000	8.704334000	-7.522621000	1	4.712081000	16.268516000	-7.867143000
6	-0.486718000	10.086020000	-7.123170000	1	6.299072000	15.568109000	-8.312210000
6	0.655955000	10.766935000	-7.432904000	1	5.323912000	14.543380000	-6.503832000
6	1.586775000	9.826735000	-8.037627000	6	-2.219946000	7.790434000	-6.238730000
6	3.760002000	9.220431000	-9.133773000	6	-3.554840000	7.917171000	-6.654133000
6	5.197964000	9.249513000	-9.382664000	6	-1.936788000	7.847718000	-4.865035000
6	5.460727000	8.285622000	-10.314883000	6	-4.586717000	8.095039000	-5.723320000
6	4.185479000	7.639982000	-10.665650000	6	-2.959614000	8.027959000	-3.924242000
6	2.784930000	5.869282000	-11.906382000	6	-4.282641000	8.149927000	-4.359645000
6	2.451248000	5.075937000	-13.100758000	35	-4.005753000	7.898883000	-8.501736000
6	1.285737000	4.410048000	-12.846000000	35	-0.158135000	7.631157000	-4.227110000
6	-0.564024000	4.811423000	-9.439675000	8	-5.852342000	8.214515000	-6.211201000
6	-0.171638000	4.265423000	-10.685713000	6	-6.920361000	8.379295000	-5.299222000
6	-1.443093000	4.189036000	-8.461764000	1	-6.817876000	9.303628000	-4.713723000
6	-1.688854000	5.102334000	-7.476452000	1	-7.823653000	8.440221000	-5.909443000
6	-0.989738000	6.323658000	-7.831622000	1	-7.005025000	7.525294000	-4.613017000
6	-1.120514000	7.597204000	-7.237072000	8	-2.599344000	8.066815000	-2.612071000
6	2.944318000	10.072441000	-8.352527000	6	-3.605131000	8.251707000	-1.635322000
6	3.945496000	6.666701000	-11.680443000	1	-4.340732000	7.435456000	-1.648459000
6	0.881032000	4.762055000	-11.488875000	1	-3.087396000	8.252312000	-0.674142000
35	6.538654000	10.281466000	-8.550439000	1	-4.127124000	9.209899000	-1.764835000
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35	-2.016296000	10.934458000	-6.422253000	8	1.049454000	7.913055000	-10.931577000
35	-2.671389000	4.682898000	-5.924157000	6	-0.917594000	3.075943000	-11.209194000
35	0.395367000	3.350584000	-14.127065000	6	-2.189491000	3.229952000	-11.782308000
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35	-2.097384000	2.424127000	-8.374483000	6	-2.882932000	2.129782000	-12.305530000
35	0.813098000	12.627439000	-7.175231000	6	-1.030927000	0.686304000	-11.693173000
6	5.067828000	6.472273000	-12.659656000	6	-2.298583000	0.860832000	-12.257537000
6	5.886408000	5.333848000	-12.597314000	35	-2.996859000	4.947180000	-11.915244000
6	5.322795000	7.428057000	-13.656077000	35	1.352352000	1.506374000	-10.373301000
6	6.935573000	5.148294000	-13.506814000	8	-4.108884000	2.366930000	-12.848513000
6	6.370291000	7.254296000	-14.570322000	6	-4.831627000	1.281434000	-13.395033000
6	7.172681000	6.112236000	-14.491376000	1	-5.060934000	0.520869000	-12.635707000
35	5.633211000	4.026669000	-11.239249000	1	-5.764828000	1.706175000	-13.770228000
35	4.220730000	8.966861000	-13.835261000	1	-4.289931000	0.808911000	-14.226217000
8	7.686239000	4.019838000	-13.371965000	8	-0.410436000	-0.523087000	-11.612527000
6	8.754537000	3.802369000	-14.272055000	6	-1.057432000	-1.656702000	-12.156025000
1	8.403318000	3.724701000	-15.310447000	1	-1.238212000	-1.543841000	-13.233948000
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8	6.545924000	8.226048000	-15.508456000	1	-2.829173000	0.009561000	-12.659804000
6	7.596486000	8.085350000	-16.443549000	8	2.616882000	6.214852000	-8.766656000
1	7.545348000	8.969738000	-17.081869000	8	6.287318000	3.039725000	-6.347522000
1	8.578561000	8.051858000	-15.951515000	6	3.991146000	4.074573000	-6.387689000
1	7.473169000	7.185863000	-17.062857000	6	5.097541000	3.334719000	-7.105964000
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6	3.585116000	11.323104000	-7.832576000	6	6.637224000	5.444725000	-7.020335000
6	3.991895000	11.416654000	-6.492874000	6	5.380313000	6.171618000	-6.505410000
6	3.823689000	12.412674000	-8.684920000	6	4.525647000	5.278647000	-5.595777000
6	4.615813000	12.574351000	-6.008117000	1	3.455088000	3.377100000	-5.727940000
6	4.448784000	13.573961000	-8.212929000	1	3.279868000	4.430887000	-7.144637000
6	4.841614000	13.649352000	-6.872969000	1	4.775253000	2.511828000	-7.750011000
35	3.748738000	9.959044000	-5.295552000	1	6.943538000	3.633847000	-8.277922000
35	3.259919000	12.366386000	-10.500013000	1	7.047495000	5.983020000	-7.883921000
8	4.980080000	12.582652000	-4.696266000	1	7.422215000	5.436633000	-6.249954000
6	5.616043000	13.732721000	-4.174393000	1	5.674046000	7.090899000	-5.983079000
1	5.812390000	13.511102000	-3.123533000	1	4.758548000	6.471255000	-7.357701000
1	6.567628000	13.938483000	-4.683968000	1	3.679016000	5.851926000	-5.199745000
1	4.971737000	14.620357000	-4.241950000	1	5.116920000	4.928470000	-4.738554000
8	4.634636000	14.587309000	-9.103303000				
6	5.277906000	15.767822000	-8.665290000				
1	5.321729000	16.422257000	-9.538130000				

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23	1.548608000	7.428224000	-9.813070000	1	5.786246000	13.957780000	-3.458946000
7	1.143603000	8.795734000	-8.244674000	1	6.527368000	14.403558000	-5.020856000
7	3.382331000	8.329357000	-10.102480000	1	4.883687000	14.982135000	-4.609611000
7	2.109122000	5.891612000	-11.097560000	8	4.597542000	14.839074000	-9.464188000
7	0.163020000	6.148623000	-8.983383000	6	5.164756000	16.062617000	-9.042718000
6	-0.069309000	8.847966000	-7.609261000	1	5.175005000	16.704540000	-9.926037000
6	-0.319712000	10.213201000	-7.236904000	1	4.564744000	16.541356000	-8.256044000
6	0.790330000	10.945705000	-7.602532000	1	6.194119000	15.931906000	-8.680192000
6	1.725763000	10.033706000	-8.208603000	1	5.284689000	14.879554000	-6.865365000
6	3.861028000	9.412086000	-9.387181000	6	-1.911574000	7.819203000	-6.284260000
6	5.305518000	9.468303000	-9.618188000	6	-3.257318000	7.819991000	-6.686583000
6	5.630606000	8.477061000	-10.493844000	6	-1.629565000	7.977276000	-4.917565000
6	4.399205000	7.797996000	-10.873422000	6	-4.292920000	7.961451000	-5.752651000
6	2.981498000	6.163988000	-12.116770000	6	-2.653468000	8.121985000	-3.973926000
6	2.543218000	5.422800000	-13.272172000	6	-3.985754000	8.109364000	-4.397256000
6	1.455620000	4.667866000	-12.890746000	35	-3.725292000	7.683926000	-8.524785000
6	0.019252000	4.816911000	-9.323298000	35	0.166309000	7.974600000	-4.280812000
6	0.341567000	4.286798000	-10.581618000	8	-5.568740000	7.953218000	-6.230275000
6	-0.705090000	4.161877000	-8.247609000	6	-6.637018000	8.097957000	-5.316509000
6	-1.095917000	5.125717000	-7.365982000	1	-6.591718000	9.058520000	-4.784375000
6	-0.583470000	6.404414000	-7.845258000	1	-7.547829000	8.064011000	-5.917820000
6	-0.814916000	7.675861000	-7.294438000	1	-6.659221000	7.280524000	-4.582145000
6	3.076804000	10.277580000	-8.614895000	8	-2.287752000	8.261140000	-2.667853000
6	4.187375000	6.909641000	-11.929088000	6	-3.298310000	8.447361000	-1.697463000
6	1.213500000	4.939369000	-11.497400000	1	-3.975093000	7.583044000	-1.640988000
35	6.615828000	10.559779000	-8.809985000	1	-2.777337000	8.556624000	-0.743974000
35	7.409775000	8.047056000	-10.957853000	1	-3.888084000	9.353687000	-1.892533000
35	-1.877392000	11.006612000	-6.517388000	1	-4.781102000	8.218521000	-3.673851000
35	-2.002944000	4.709306000	-5.762327000	8	0.650309000	8.394008000	-10.725914000
35	0.498187000	3.556722000	-14.078068000	6	-0.285028000	2.995877000	-11.001571000
35	3.214967000	5.433826000	-15.035856000	6	-1.645355000	2.939994000	-11.352377000
35	-0.958174000	2.312557000	-7.950919000	6	0.462108000	1.807846000	-11.074216000
35	0.870553000	12.825434000	-7.413659000	6	-2.243855000	1.736506000	-11.751256000
6	5.284492000	6.711840000	-12.927215000	6	-0.121141000	0.599742000	-11.475094000
6	6.055661000	5.537958000	-12.930663000	6	-1.477929000	0.568890000	-11.810226000
6	5.564373000	7.691846000	-13.894297000	35	-2.716049000	4.511427000	-11.353523000
6	7.075710000	5.339255000	-13.869362000	35	2.307807000	1.783459000	-10.600091000
6	6.584462000	7.507925000	-14.837655000	8	-3.566327000	1.775727000	-12.075548000
6	7.335547000	6.329045000	-14.822053000	6	-4.202098000	0.580664000	-12.481601000
35	5.776976000	4.185370000	-11.617830000	1	-4.176661000	-0.183477000	-11.692051000
35	4.533891000	9.286888000	-13.988407000	1	-5.240171000	0.851629000	-12.684653000
8	7.779386000	4.173893000	-13.793899000	1	-3.751530000	0.168591000	-13.395513000
6	8.800885000	3.936396000	-14.741408000	8	0.680476000	-0.502891000	-11.508139000
1	8.408594000	3.917388000	-15.767683000	6	0.126447000	-1.730980000	-11.935359000
1	9.601279000	4.686898000	-14.676151000	1	-0.250754000	-1.671349000	-12.965705000
1	9.210293000	2.954220000	-14.496048000	1	0.942943000	-2.454940000	-11.893937000
8	6.785247000	8.507161000	-15.741794000	1	-0.685301000	-2.065257000	-11.273970000
6	7.798862000	8.349855000	-16.713789000	1	-1.935226000	-0.360427000	-12.118667000
1	7.772398000	9.258157000	-17.319258000	8	3.084779000	6.800862000	-8.484766000
1	8.792770000	8.251378000	-16.254986000	8	2.794843000	5.486023000	-7.539853000
1	7.613022000	7.480160000	-17.359532000	6	2.898112000	5.085102000	-5.074583000
1	8.122129000	6.181796000	-15.548293000	6	3.566552000	5.660630000	-6.299332000
6	3.702145000	11.549679000	-8.132226000	6	4.085180000	4.781948000	-7.366125000
6	4.103035000	11.695331000	-6.794413000	6	3.964578000	3.274438000	-7.282552000
6	3.887486000	12.636181000	-9.002701000	6	3.548665000	2.773278000	-5.886629000
6	4.670481000	12.888656000	-6.331032000	6	2.432250000	3.632684000	-5.276122000
6	4.457944000	13.834529000	-8.553862000	1	2.059977000	5.731515000	-4.790050000
6	4.846889000	13.956027000	-7.216711000	1	3.634985000	5.134349000	-4.258559000
35	3.935031000	10.253303000	-5.560069000	1	3.948912000	6.675962000	-6.249810000
35	3.328010000	12.535949000	-10.817645000	1	4.803725000	5.205764000	-8.060319000
8	5.036906000	12.941106000	-5.018697000	1	4.927902000	2.837446000	-7.573412000
6	5.586267000	14.142337000	-4.516544000	1	3.238065000	2.955971000	-8.040189000
				1	3.230033000	1.726868000	-5.958635000

1	4.421318000	2.792135000	-5.216620000
1	2.117186000	3.218878000	-4.310979000
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7	0.638991000	8.595167000	-8.074337000
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7	1.416754000	5.765407000	-11.092139000
7	-0.620834000	6.095756000	-8.991255000
6	-0.581353000	8.742190000	-7.501206000
6	-0.688411000	10.131231000	-7.061155000
6	0.506852000	10.735403000	-7.329413000
6	1.380571000	9.732449000	-7.943102000
6	3.541110000	8.936868000	-9.015042000
6	4.981372000	8.952112000	-9.270271000
6	5.234069000	8.026928000	-10.244414000
6	3.956738000	7.421711000	-10.618622000
6	2.426686000	5.931656000	-11.993121000
6	2.024381000	5.223032000	-13.210692000
6	0.829611000	4.612134000	-12.955613000
6	-0.990408000	4.884976000	-9.520628000
6	-0.587065000	4.399208000	-10.788620000
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6	-2.221318000	5.221429000	-7.631986000
6	-1.405811000	6.395674000	-7.906496000
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6	2.763689000	9.844695000	-8.246552000
6	3.663160000	6.575683000	-11.722029000
6	0.466946000	4.927030000	-11.575719000
35	6.353610000	9.913986000	-8.408611000
35	6.981852000	7.608626000	-10.815214000
35	-2.166659000	11.064751000	-6.354761000
35	-3.355325000	4.852086000	-6.172433000
35	-0.130259000	3.661253000	-14.271106000
35	2.835009000	5.165750000	-14.912929000
35	-2.729155000	2.578583000	-8.603074000
35	0.794509000	12.572651000	-7.013641000
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6	5.506751000	5.179973000	-12.732853000
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6	3.756411000	12.138964000	-8.587796000
6	4.542321000	12.280158000	-5.908378000
6	4.425901000	13.276219000	-8.117769000
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6	5.330789000	15.439454000	-8.571796000
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6	-4.787678000	8.399840000	-4.618240000
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1	-3.857220000	8.278190000	-0.858169000
1	-4.724961000	9.360618000	-1.982076000
1	-5.614961000	8.584438000	-3.947522000
8	0.595353000	8.095961000	-10.555777000
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6	-0.811074000	1.948816000	-11.348037000
6	-3.329532000	2.365370000	-12.489406000
6	-1.514356000	0.868079000	-11.896081000
6	-2.774001000	1.082523000	-12.464157000
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8	-4.546804000	2.640803000	-13.034660000
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8	2.227364000	5.610609000	-8.751420000
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6	5.385597000	4.662089000	-7.315040000
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6	6.853572000	4.393361000	-7.681101000
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1	8.820081000	4.436917000	-6.733078000
1	7.487648000	4.044146000	-5.645506000
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35	3.935031000	10.253303000	-5.560069000
35	3.328010000	12.535949000	-10.817645000
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6	-1.477929000	0.568890000	-11.810226000
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6	-0.486718000	10.086020000	-7.123170000
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6	-2.219946000	7.790434000	-6.238730000
6	-3.554840000	7.917171000	-6.654133000
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35	-0.158135000	7.631157000	-4.227110000
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6	-6.920361000	8.379295000	-5.299222000
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1	-7.005025000	7.525294000	-4.613017000
8	-2.599344000	8.066815000	-2.612071000
6	-3.605131000	8.251707000	-1.635322000
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1	-3.087396000	8.252312000	-0.674142000
1	-4.127124000	9.209899000	-1.764835000
1	-5.075077000	8.287865000	-3.637882000
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6	-0.348603000	1.793231000	-11.172705000
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