

Supporting Information: Structural, Energetics, and Electronic Properties Evolution of the $3d$, $4d$, and $5d$ Transition-Metal Clusters (30 TM_n Systems for $n = 2 - 15$): A Density Functional Theory Investigation

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A Structural, energetic, and electronic properties of the lowest energy and higher energy clusters

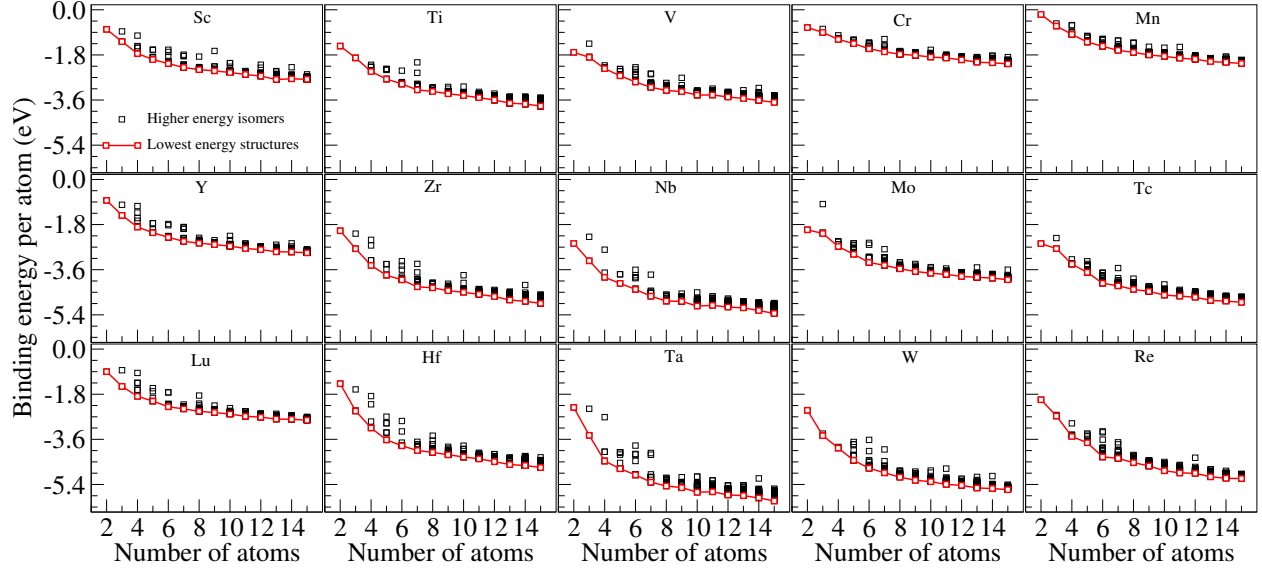


Figure S1: Binding energy per atom for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Sc (3d) to Re (5d).

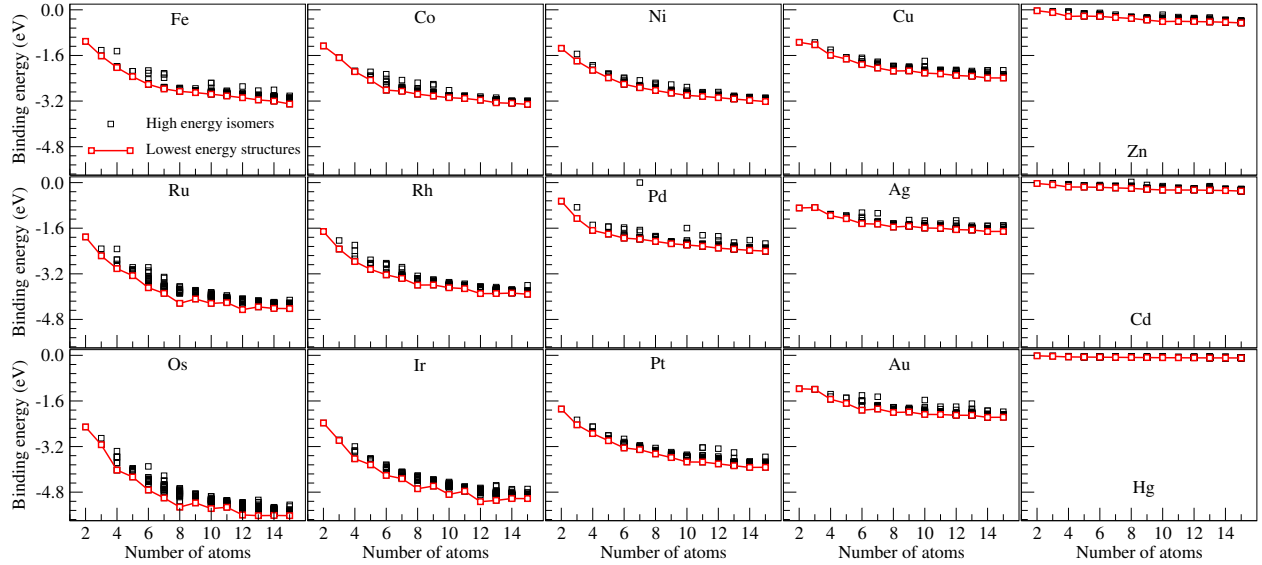


Figure S2: Binding energy per atom for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Fe (3d) to Hg (5d).

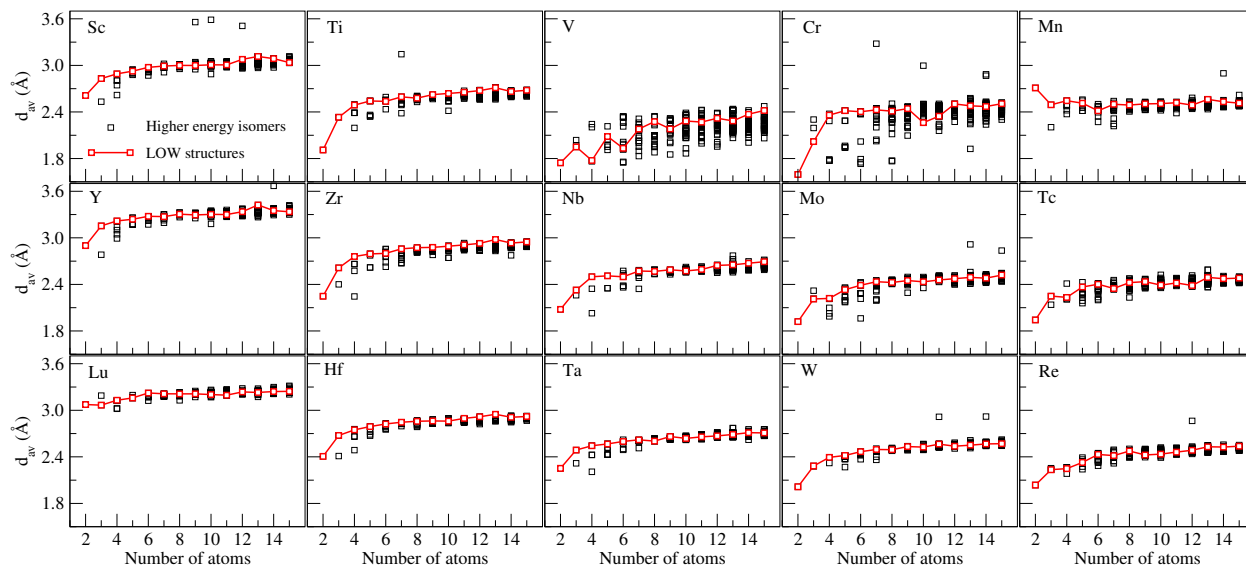


Figure S3: Average bond length for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Sc (3d) to Re (5d).

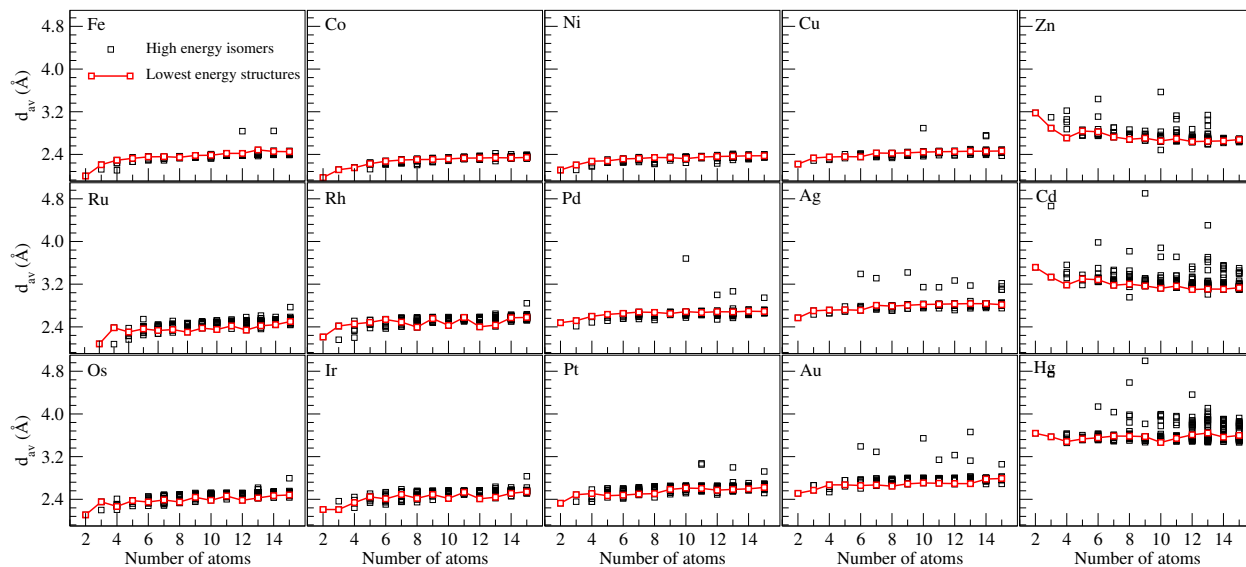


Figure S4: Average bond length for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Fe (3d) to Hg (5d).

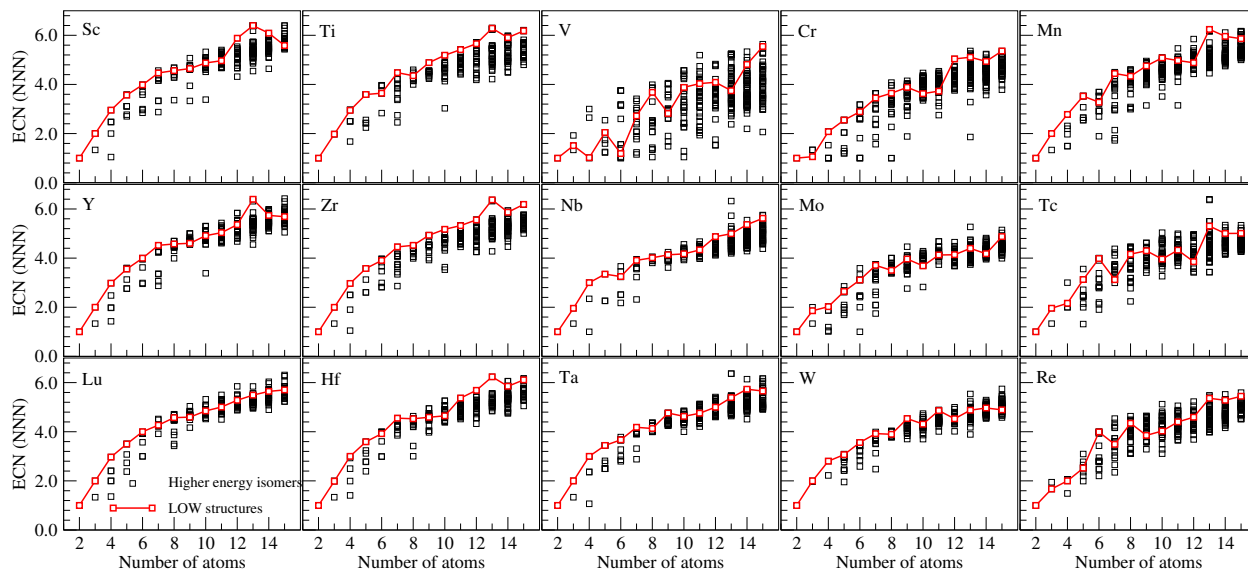


Figure S5: Effective coordination number (ECN) for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Sc (3d) to Re (5d).

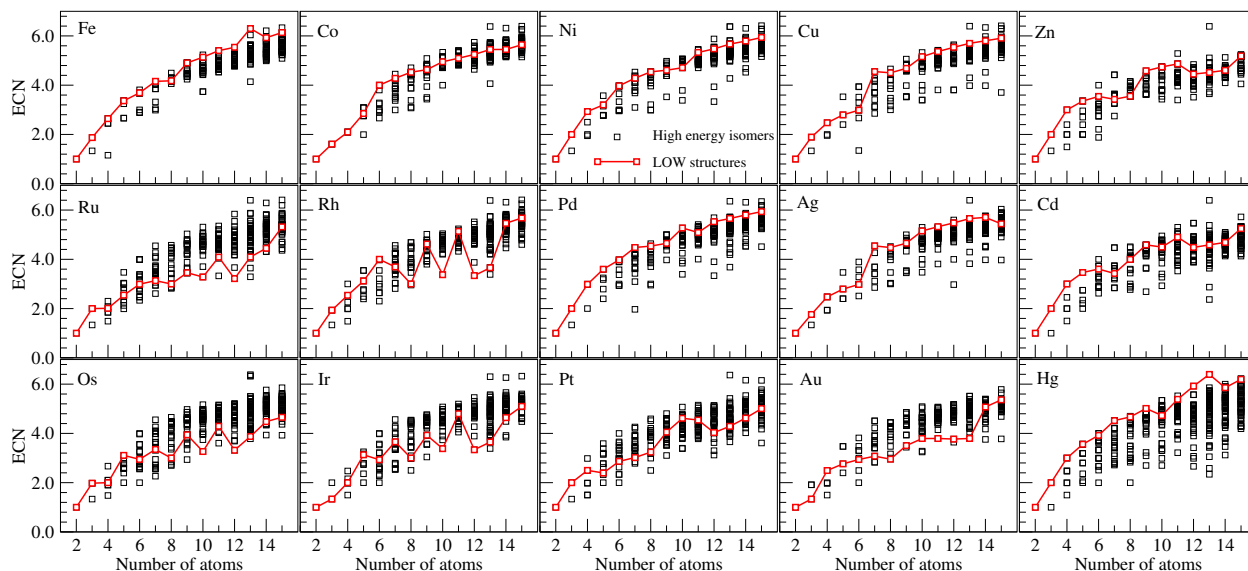


Figure S6: Effective coordination number (ECN) for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Fe (3d) to Hg (5d).

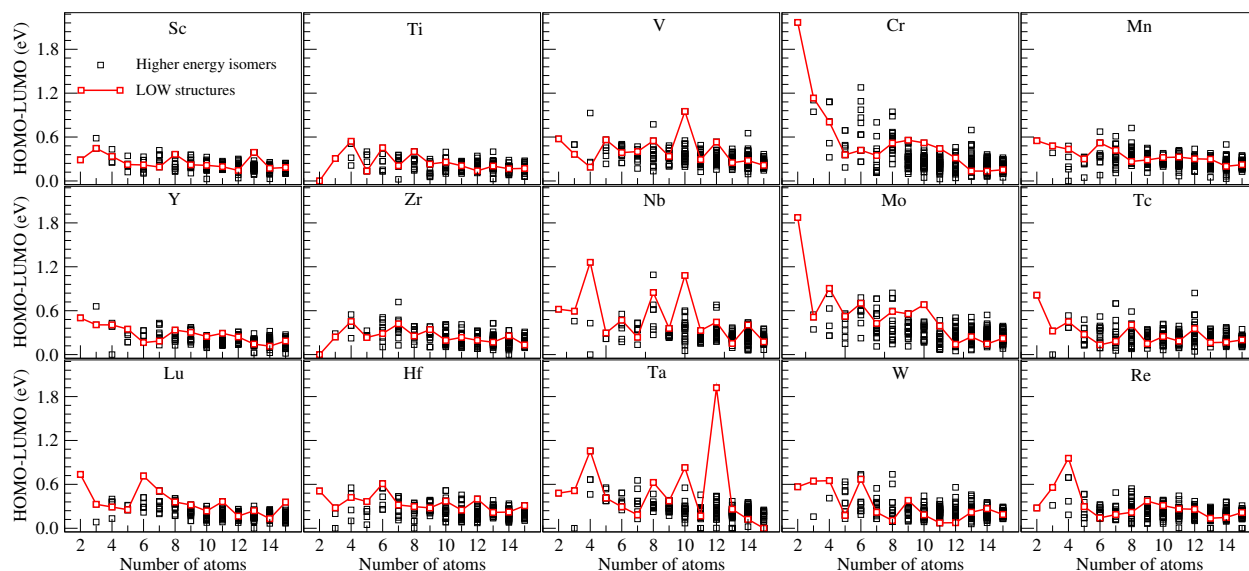


Figure S7: HOMO-LUMO gap for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Sc (3d) to Re (5d).

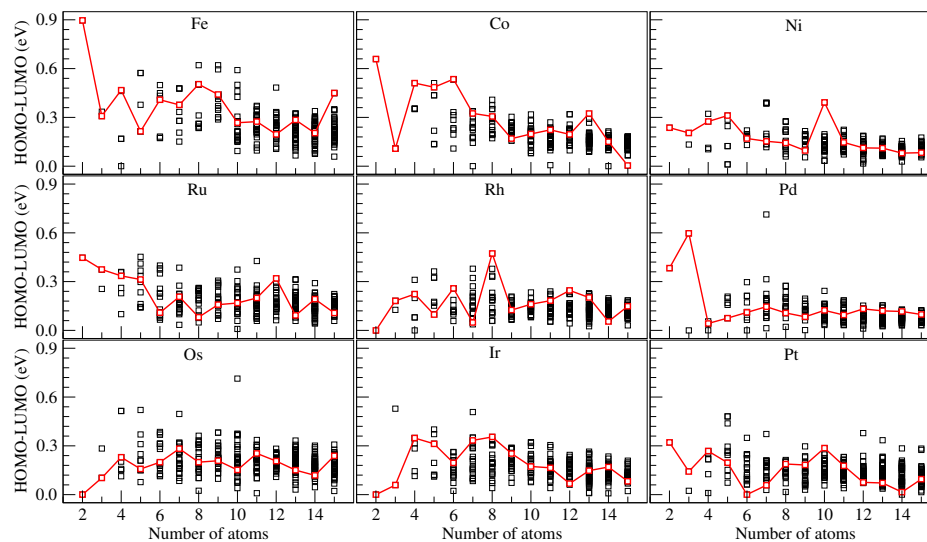


Figure S8: HOMO-LUMO gap for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Fe (3d) to Pt (5d).

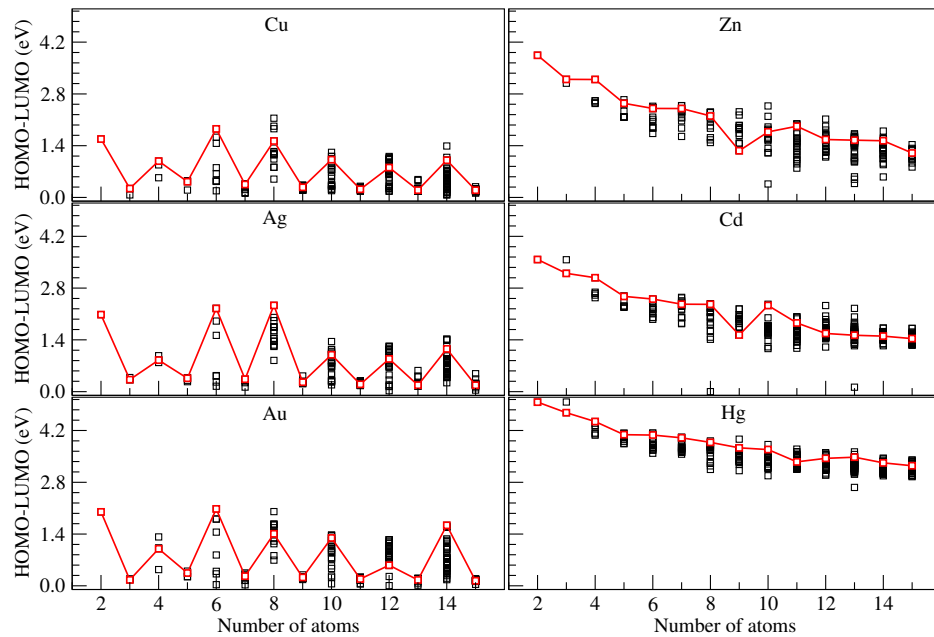


Figure S9: HOMO-LUMO gap for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Cu (3d) to Hg (5d).

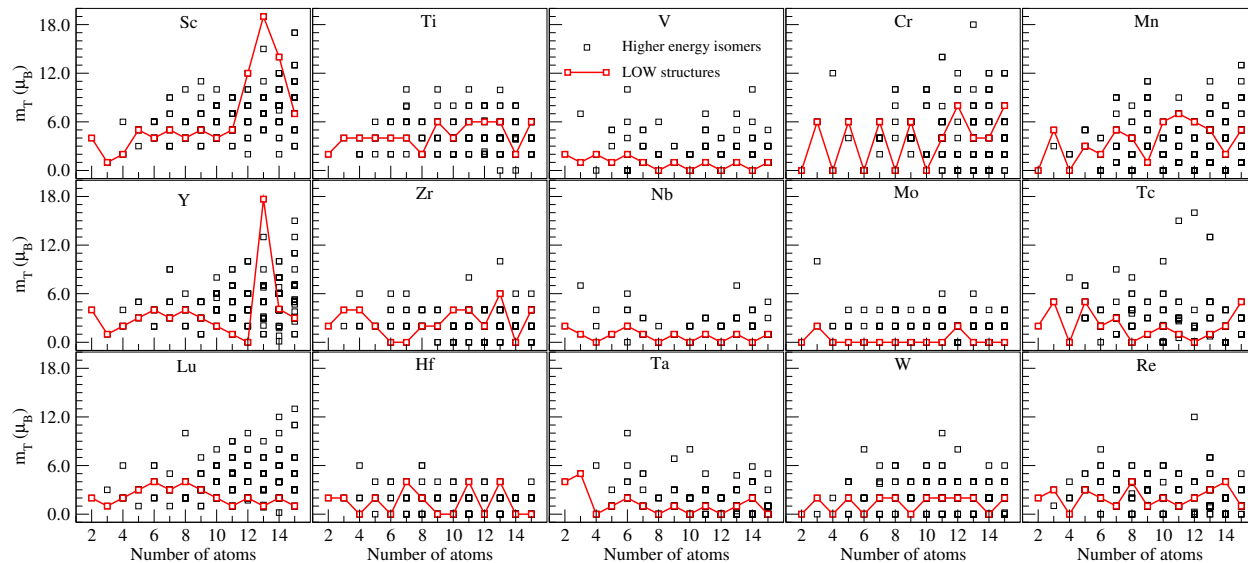


Figure S10: Total magnetic moment for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Sc (3d) to Re (5d).

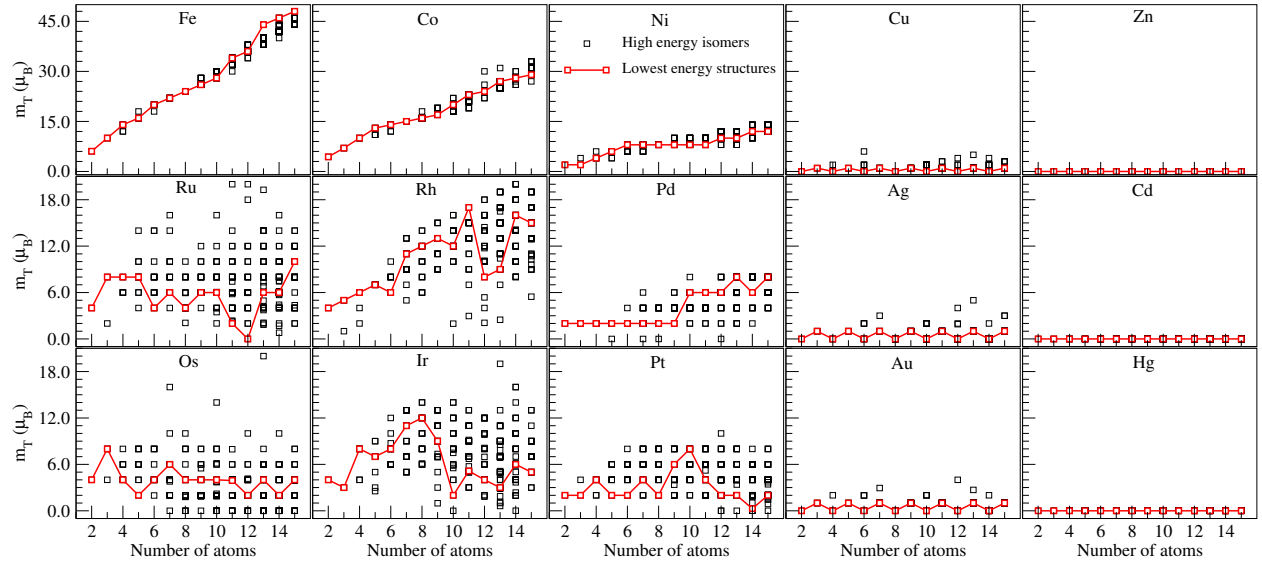


Figure S11: Total magnetic moment for the lowest energy and higher energy clusters in function of the number of atoms (2 – 15) in every system, from Fe (3d) to Hg (5d).

B Tabular form of the data for structural, energetic, and electronic properties of the lowest energy clusters

Table 1: Binding energy per atom for the putative global minimum configurations in function of the number of atoms ($n = 2 - 15$) for every system, from $3d$ to $4d$ to $5d$ TM systems.

System	Binding energy (eV/atom)													
	$n = 2$	$n = 3$	$n = 4$	$n = 5$	$n = 6$	$n = 7$	$n = 8$	$n = 9$	$n = 10$	$n = 11$	$n = 12$	$n = 13$	$n = 14$	$n = 15$
Sc_n	-0.779	-1.270	-1.747	-1.983	-2.148	-2.302	-2.387	-2.435	-2.501	-2.581	-2.646	-2.779	-2.754	-2.772
Ti_n	-1.446	-1.920	-2.464	-2.761	-2.961	-3.193	-3.259	-3.348	-3.423	-3.503	-3.599	-3.724	-3.758	-3.839
V_n	-1.698	-1.893	-2.346	-2.632	-2.877	-3.090	-3.218	-3.263	-3.401	-3.396	-3.476	-3.538	-3.613	-3.691
Cr_n	-0.708	-0.904	-1.181	-1.347	-1.555	-1.676	-1.774	-1.816	-1.884	-1.921	-1.999	-2.087	-2.114	-2.158
Mn_n	-0.184	-0.649	-0.981	-1.287	-1.455	-1.617	-1.699	-1.800	-1.857	-1.928	-1.971	-2.064	-2.095	-2.142
Fe_n	-1.106	-1.616	-2.026	-2.343	-2.615	-2.773	-2.861	-2.904	-2.959	-3.019	-3.083	-3.160	-3.202	-3.302
Co_n	-1.266	-1.680	-2.167	-2.466	-2.814	-2.856	-2.957	-3.022	-3.081	-3.109	-3.167	-3.259	-3.279	-3.315
Ni_n	-1.349	-1.795	-2.120	-2.384	-2.610	-2.731	-2.827	-2.921	-3.001	-3.037	-3.080	-3.129	-3.173	-3.217
Cu_n	-1.138	-1.226	-1.593	-1.726	-1.921	-2.042	-2.144	-2.140	-2.218	-2.245	-2.303	-2.328	-2.388	-2.389
Zn_n	-0.031	-0.096	-0.230	-0.220	-0.229	-0.271	-0.301	-0.359	-0.410	-0.403	-0.411	-0.422	-0.434	-0.459
Y_n	-0.836	-1.434	-1.898	-2.125	-2.310	-2.470	-2.545	-2.600	-2.662	-2.756	-2.800	-2.886	-2.892	-2.928
Zr_n	-2.046	-2.763	-3.428	-3.818	-4.006	-4.282	-4.321	-4.438	-4.500	-4.584	-4.669	-4.810	-4.859	-4.942
Nb_n	-2.552	-3.246	-3.902	-4.145	-4.382	-4.658	-4.849	-4.865	-5.050	-5.021	-5.091	-5.121	-5.229	-5.345
Mo_n	-2.009	-2.155	-2.675	-2.985	-3.312	-3.425	-3.564	-3.672	-3.741	-3.788	-3.868	-3.904	-3.937	-4.000
Tc_n	-2.559	-2.758	-3.377	-3.706	-4.140	-4.244	-4.385	-4.466	-4.612	-4.655	-4.697	-4.827	-4.852	-4.900
Ru_n	-1.907	-2.569	-3.019	-3.264	-3.690	-3.886	-4.236	-4.084	-4.237	-4.211	-4.457	-4.360	-4.414	-4.420
Rh_n	-1.716	-2.330	-2.770	-3.043	-3.235	-3.363	-3.595	-3.591	-3.688	-3.720	-3.893	-3.891	-3.877	-3.915
Pd_n	-0.651	-1.259	-1.678	-1.805	-1.947	-1.984	-2.063	-2.143	-2.189	-2.233	-2.298	-2.337	-2.376	-2.404
Ag_n	-0.891	-0.876	-1.160	-1.266	-1.440	-1.456	-1.557	-1.533	-1.592	-1.602	-1.650	-1.663	-1.715	-1.714
Cd_n	-0.031	-0.077	-0.154	-0.158	-0.165	-0.185	-0.203	-0.237	-0.259	-0.260	-0.261	-0.270	-0.279	-0.298
Lu_n	-0.899	-1.490	-1.885	-2.074	-2.301	-2.386	-2.482	-2.530	-2.592	-2.680	-2.716	-2.792	-2.798	-2.837
Hf_n	-1.380	-2.470	-3.145	-3.621	-3.856	-4.044	-4.120	-4.216	-4.303	-4.378	-4.490	-4.605	-4.642	-4.725
Ta_n	-2.327	-3.440	-4.465	-4.770	-5.018	-5.309	-5.461	-5.525	-5.708	-5.692	-5.816	-5.844	-5.938	-6.058
W_n	-2.441	-3.451	-3.948	-4.437	-4.752	-4.933	-5.109	-5.232	-5.288	-5.396	-5.436	-5.538	-5.561	-5.608
Re_n	-2.020	-2.668	-3.490	-3.735	-4.300	-4.359	-4.531	-4.662	-4.852	-4.938	-4.955	-5.093	-5.151	-5.164
Os_n	-2.513	-3.135	-4.024	-4.267	-4.724	-5.002	-5.323	-5.176	-5.376	-5.329	-5.599	-5.623	-5.615	-5.624
Ir_n	-2.371	-2.985	-3.628	-3.839	-4.211	-4.326	-4.679	-4.586	-4.879	-4.767	-5.133	-5.088	-5.024	-5.025
Pt_n	-1.882	-2.438	-2.744	-2.994	-3.248	-3.310	-3.456	-3.587	-3.740	-3.742	-3.808	-3.873	-3.930	-3.927
Au_n	-1.172	-1.191	-1.541	-1.686	-1.924	-1.882	-2.003	-1.989	-2.072	-2.076	-2.101	-2.103	-2.175	-2.171
Hg_n	-0.017	-0.034	-0.055	-0.061	-0.064	-0.070	-0.073	-0.078	-0.083	-0.085	-0.087	-0.090	-0.091	-0.093

Table 2: Average bond distance for the putative global minimum configurations in function of the number of atoms ($n = 2 - 15$) for every system, from 3d to 4d to 5d TM systems.

System	Average bond distance (Å)													
	$n = 2$	$n = 3$	$n = 4$	$n = 5$	$n = 6$	$n = 7$	$n = 8$	$n = 9$	$n = 10$	$n = 11$	$n = 12$	$n = 13$	$n = 14$	$n = 15$
Sc_n	2.612	2.830	2.891	2.926	2.975	2.992	3.000	2.999	3.008	3.007	3.078	3.116	3.087	3.036
Ti_n	1.910	2.332	2.489	2.541	2.537	2.595	2.578	2.624	2.638	2.654	2.676	2.712	2.663	2.679
V_n	1.744	1.950	1.775	2.084	1.932	2.180	2.275	2.181	2.282	2.269	2.318	2.285	2.371	2.419
Cr_n	1.595	2.018	2.360	2.417	2.403	2.427	2.410	2.443	2.263	2.346	2.503	2.479	2.470	2.507
Mn_n	2.710	2.492	2.545	2.513	2.415	2.499	2.489	2.504	2.507	2.519	2.488	2.562	2.532	2.514
Fe_n	1.996	2.206	2.292	2.326	2.355	2.358	2.346	2.381	2.385	2.420	2.419	2.484	2.456	2.451
Co_n	1.966	2.113	2.150	2.226	2.272	2.295	2.304	2.306	2.316	2.331	2.333	2.338	2.334	2.343
Ni_n	2.108	2.203	2.273	2.279	2.315	2.324	2.342	2.339	2.321	2.351	2.362	2.366	2.373	2.375
Cu_n	2.218	2.333	2.351	2.357	2.355	2.426	2.422	2.429	2.444	2.449	2.455	2.459	2.460	2.464
Zn_n	3.179	2.893	2.709	2.838	2.824	2.726	2.684	2.704	2.653	2.694	2.640	2.647	2.653	2.678
Y_n	2.900	3.154	3.217	3.239	3.278	3.273	3.305	3.295	3.303	3.299	3.337	3.423	3.351	3.335
Zr_n	2.248	2.613	2.760	2.793	2.800	2.858	2.873	2.877	2.892	2.909	2.929	2.979	2.933	2.947
Nb_n	2.078	2.328	2.498	2.510	2.498	2.572	2.567	2.588	2.574	2.593	2.645	2.652	2.673	2.692
Mo_n	1.920	2.212	2.220	2.332	2.389	2.435	2.425	2.450	2.434	2.457	2.474	2.491	2.481	2.521
Tc_n	1.942	2.249	2.232	2.366	2.402	2.347	2.423	2.436	2.390	2.418	2.386	2.490	2.473	2.481
Ru_n	2.081	2.383	2.304	2.362	2.332	2.349	2.301	2.375	2.350	2.418	2.340	2.420	2.441	2.500
Rh_n	2.211	2.416	2.455	2.485	2.538	2.489	2.394	2.555	2.427	2.577	2.400	2.433	2.570	2.577
Pd_n	2.478	2.516	2.598	2.634	2.653	2.678	2.671	2.650	2.684	2.670	2.684	2.681	2.692	2.688
Ag_n	2.569	2.701	2.714	2.719	2.712	2.804	2.789	2.805	2.820	2.825	2.831	2.835	2.835	2.816
Cd_n	3.516	3.333	3.185	3.298	3.283	3.180	3.202	3.167	3.123	3.165	3.100	3.108	3.107	3.132
Lu_n	3.073	3.066	3.129	3.159	3.223	3.212	3.211	3.211	3.202	3.194	3.236	3.229	3.241	3.244
Hf_n	2.406	2.676	2.747	2.790	2.823	2.846	2.858	2.862	2.860	2.896	2.917	2.948	2.910	2.920
Ta_n	2.252	2.488	2.543	2.566	2.598	2.620	2.602	2.662	2.637	2.658	2.670	2.688	2.711	2.708
W_n	2.014	2.283	2.393	2.418	2.467	2.495	2.493	2.532	2.526	2.564	2.537	2.551	2.566	2.570
Re_n	2.036	2.234	2.248	2.328	2.431	2.416	2.475	2.424	2.435	2.461	2.484	2.529	2.526	2.537
Os_n	2.108	2.353	2.266	2.375	2.350	2.388	2.349	2.438	2.381	2.462	2.381	2.425	2.469	2.481
Ir_n	2.209	2.208	2.339	2.447	2.409	2.490	2.419	2.490	2.416	2.531	2.409	2.439	2.512	2.541
Pt_n	2.327	2.486	2.508	2.468	2.478	2.499	2.506	2.452	2.611	2.604	2.571	2.586	2.596	2.622
Au_n	2.512	2.570	2.670	2.671	2.658	2.669	2.647	2.689	2.707	2.700	2.695	2.694	2.779	2.790
Hg_n	3.638	3.571	3.482	3.531	3.553	3.585	3.584	3.576	3.465	3.541	3.609	3.642	3.565	3.598

Table 3: Effective coordination number (ECN), given in number of nearest neighbors (NNN), for the putative global minimum configurations in function of the number of atoms ($n = 2-15$) for every system, from $3d$ to $4d$ to $5d$ TM systems.

System	Effective coordination number (NNN)													
	$n = 2$	$n = 3$	$n = 4$	$n = 5$	$n = 6$	$n = 7$	$n = 8$	$n = 9$	$n = 10$	$n = 11$	$n = 12$	$n = 13$	$n = 14$	$n = 15$
Sc_n	1.000	2.000	2.955	3.567	3.982	4.469	4.563	4.646	4.875	4.965	5.883	6.396	6.088	5.585
Ti_n	1.000	1.976	2.946	3.590	3.643	4.479	4.354	4.890	5.191	5.417	5.659	6.288	5.906	6.183
V_n	1.000	1.509	1.019	2.045	1.187	2.719	3.682	2.819	3.880	4.035	4.088	3.746	4.816	5.545
Cr_n	1.000	1.058	2.077	2.549	2.888	3.448	3.644	3.881	3.626	3.727	5.038	5.107	4.937	5.361
Mn_n	1.000	1.999	2.780	3.526	3.277	4.444	4.336	4.754	5.082	4.973	4.884	6.240	5.959	5.865
Fe_n	1.000	1.872	2.641	3.367	3.691	4.157	4.178	4.905	5.136	5.405	5.540	6.302	5.928	6.138
Co_n	1.000	1.607	2.096	2.849	4.000	4.281	4.526	4.629	4.952	5.094	5.247	5.449	5.451	5.642
Ni_n	1.000	2.000	2.929	3.199	3.973	4.285	4.542	4.608	4.709	5.331	5.476	5.669	5.793	5.938
Cu_n	1.000	1.890	2.474	2.795	2.986	4.552	4.504	4.683	5.158	5.366	5.540	5.699	5.803	5.910
Zn_n	1.000	2.000	3.000	3.356	3.544	3.427	3.553	4.583	4.742	4.865	4.451	4.5180	4.602	5.188
Y_n	1.000	2.000	2.980	3.556	3.997	4.521	4.575	4.603	4.914	5.035	5.361	6.396	5.738	5.687
Zr_n	1.000	1.996	2.969	3.577	3.905	4.455	4.520	4.932	5.173	5.322	5.554	6.371	5.867	6.188
Nb_n	1.000	1.957	3.000	3.348	3.249	3.910	4.013	4.136	4.173	4.334	4.873	4.994	5.364	5.621
Mo_n	1.000	1.856	2.023	2.642	3.110	3.705	3.503	3.961	3.684	4.128	4.139	4.397	4.178	4.875
Tc_n	1.000	1.960	2.162	3.127	3.983	3.123	4.162	4.299	3.961	4.324	3.854	5.304	5.003	5.008
Ru_n	1.000	2.000	2.011	2.545	2.989	3.133	2.999	3.454	3.281	4.088	3.215	4.093	4.447	5.316
Rh_n	1.000	1.934	2.540	3.120	4.000	3.690	3.000	4.620	3.375	5.134	3.336	3.657	5.462	5.677
Pd_n	1.000	2.000	2.985	3.598	3.977	4.479	4.537	4.648	5.271	5.087	5.528	5.657	5.802	5.935
Ag_n	1.000	1.760	2.474	2.793	2.978	4.544	4.477	4.654	5.152	5.323	5.479	5.654	5.702	5.440
Cd_n	1.000	2.000	3.000	3.465	3.602	3.425	3.994	4.585	4.497	4.896	4.484	4.585	4.686	5.249
Lu_n	1.000	2.000	2.969	3.503	4.000	4.267	4.574	4.595	4.848	5.005	5.282	5.491	5.644	5.702
Hf_n	1.000	1.986	3.000	3.591	3.921	4.554	4.530	4.589	4.648	5.371	5.688	6.236	5.852	6.113
Ta_n	1.000	2.000	3.000	3.443	3.670	4.182	4.133	4.762	4.628	4.756	5.000	5.392	5.731	5.658
W_n	1.000	2.000	2.803	3.068	3.561	3.923	3.897	4.536	4.311	4.861	4.530	4.879	4.967	4.890
Re_n	1.000	1.6734	2.000	2.520	3.992	3.487	4.347	3.854	4.030	4.401	4.593	5.363	5.282	5.446
Os_n	1.000	1.978	2.000	3.109	2.945	3.350	3.000	3.944	3.265	4.292	3.318	3.875	4.478	4.655
Ir_n	1.000	1.333	2.000	3.132	2.931	3.659	3.000	3.928	3.382	4.797	3.337	3.650	4.640	5.098
Pt_n	1.000	2.000	2.499	2.393	2.865	3.020	3.240	2.667	4.614	4.542	4.033	4.289	4.623	5.006
Au_n	1.000	1.333	2.494	2.764	2.940	3.077	2.955	3.505	3.793	3.793	3.771	3.796	5.072	5.364
Hg_n	1.000	2.000	3.000	3.561	3.921	4.521	4.669	5.013	4.726	5.385	5.920	6.396	5.856	6.196

Table 4: Total electric dipole moment for the putative global minimum configurations in function of the number of atoms ($n = 2 - 15$) for every system, from $3d$ to $4d$ to $5d$ TM systems.

Total electric dipole moment (D)														
System	$n = 2$	$n = 3$	$n = 4$	$n = 5$	$n = 6$	$n = 7$	$n = 8$	$n = 9$	$n = 10$	$n = 11$	$n = 12$	$n = 13$	$n = 14$	$n = 15$
Sc_n	0.000	0.000	0.001	0.000	0.121	0.010	0.422	0.277	0.289	1.115	1.194	0.001	0.051	0.264
Ti_n	0.000	1.077	0.002	0.046	0.000	0.130	0.057	0.047	0.453	0.510	0.727	0.261	1.352	0.312
V_n	0.000	0.514	0.000	0.041	0.351	0.092	0.103	0.429	0.001	1.571	1.218	1.623	0.772	0.002
Cr_n	0.000	0.390	0.002	0.004	0.005	0.285	0.570	1.271	0.178	0.790	0.789	1.334	0.393	1.885
Mn_n	0.000	0.039	0.000	0.227	0.464	0.143	1.198	0.730	0.276	1.183	0.705	0.338	0.824	1.211
Fe_n	0.000	0.585	0.001	0.617	0.002	0.260	0.041	0.295	0.707	0.321	0.263	0.000	0.489	0.004
Co_n	0.000	0.503	0.001	0.000	0.002	0.220	0.043	0.083	0.000	0.166	0.333	0.181	0.547	0.364
Ni_n	0.025	0.001	0.005	0.278	0.000	0.007	0.068	0.0179	0.002	0.000	0.422	0.040	0.303	0.143
Cu_n	0.000	0.770	0.001	0.036	0.005	0.000	0.001	0.262	0.000	0.004	0.423	0.200	0.256	0.183
Zn_n	0.000	0.001	0.000	0.002	0.002	0.006	0.440	0.000	0.023	0.001	0.496	0.582	0.591	0.332
Y_n	0.000	0.000	0.222	0.049	0.000	0.003	0.574	0.745	0.409	1.029	0.726	0.196	1.666	0.550
Zr_n	0.000	1.006	0.002	0.293	0.791	0.000	0.930	0.813	0.663	0.367	1.365	0.003	1.615	0.002
Nb_n	0.136	0.136	0.000	0.033	0.397	0.674	0.368	0.264	0.001	1.119	0.001	2.359	1.452	0.001
Mo_n	0.000	0.293	0.002	0.230	0.217	0.734	0.141	1.204	0.002	0.002	0.426	0.481	1.630	0.670
Tc_n	0.000	0.104	0.006	0.180	0.000	0.575	0.159	0.283	1.626	2.222	1.612	1.004	1.183	0.141
Ru_n	0.000	0.000	0.001	0.000	0.231	1.467	0.041	0.434	0.329	0.432	0.001	0.920	0.979	0.455
Rh_n	0.000	0.138	0.003	0.017	0.000	0.394	0.000	0.000	0.237	0.081	0.004	0.756	0.595	0.354
Pd_n	0.000	0.005	0.001	0.007	0.000	0.002	0.001	0.039	0.233	0.236	0.001	0.103	0.097	0.0617
Ag_n	0.000	0.798	0.000	0.069	0.002	0.000	0.000	0.250	0.000	0.055	0.636	0.336	0.334	0.265
Cd_n	0.000	0.000	0.000	0.002	0.010	0.007	0.154	0.009	0.004	0.001	0.276	0.285	0.519	0.203
Lu_n	0.000	0.001	0.117	0.000	0.000	0.297	0.498	0.050	0.353	1.504	1.180	2.362	2.908	0.136
Hf_n	0.000	0.347	0.344	0.000	0.000	0.002	0.437	0.481	0.918	0.137	1.891	0.176	0.176	0.176
Ta_n	0.000	0.000	0.000	0.008	0.000	0.503	0.125	1.154	0.000	2.167	0.011	0.752	0.094	0.002
W_n	0.000	0.000	0.001	0.018	0.037	0.779	1.146	0.001	0.990	0.434	0.764	1.168	1.426	1.287
Re_n	0.000	0.603	0.001	1.359	0.000	2.529	0.042	2.620	2.405	3.107	1.914	1.552	0.674	1.338
Os_n	0.000	0.752	0.000	0.406	0.156	0.387	0.000	0.365	0.027	0.949	1.819	1.637	1.717	1.803
Ir_n	0.000	0.000	0.000	0.419	0.122	0.183	0.000	0.209	0.452	0.023	0.023	0.463	0.477	0.597
Pt_n	0.000	0.001	0.175	0.632	0.000	0.863	0.313	0.382	0.000	0.721	0.342	0.259	0.365	0.366
Au_n	0.000	0.001	0.001	0.073	0.000	0.445	0.001	0.208	0.001	0.241	0.239	0.398	0.232	0.252
Hg_n	0.000	0.000	0.000	0.000	0.009	0.000	0.001	0.012	0.003	0.000	0.017	0.000	0.004	0.111

Table 5: HOMO LUMO gap for the putative global minimum configurations in function of the number of atoms ($n = 2 - 15$) for every system, from $3d$ to $4d$ to $5d$ TM systems.

System	HOMO LUMO gap (eV)													
	$n = 2$	$n = 3$	$n = 4$	$n = 5$	$n = 6$	$n = 7$	$n = 8$	$n = 9$	$n = 10$	$n = 11$	$n = 12$	$n = 13$	$n = 14$	$n = 15$
Sc_n	0.288	0.446	0.336	0.224	0.219	0.191	0.364	0.221	0.214	0.195	0.143	0.391	0.173	0.184
Ti_n	0.000	0.306	0.543	0.136	0.453	0.208	0.400	0.231	0.257	0.207	0.138	0.203	0.166	0.171
V_n	0.576	0.364	0.189	0.562	0.387	0.402	0.549	0.336	0.951	0.292	0.532	0.249	0.278	0.213
Cr_n	2.167	1.133	0.806	0.357	0.420	0.347	0.517	0.557	0.521	0.443	0.315	0.136	0.134	0.153
Mn_n	0.549	0.479	0.434	0.302	0.521	0.418	0.267	0.287	0.320	0.327	0.302	0.298	0.200	0.223
Fe_n	0.896	0.308	0.467	0.214	0.408	0.377	0.504	0.441	0.267	0.274	0.196	0.284	0.203	0.450
Co_n	0.659	0.107	0.511	0.485	0.535	0.324	0.306	0.169	0.198	0.223	0.195	0.324	0.150	0.004
Ni_n	0.236	0.204	0.275	0.311	0.170	0.153	0.143	0.096	0.392	0.146	0.112	0.111	0.080	0.083
Cu_n	1.579	0.241	0.983	0.426	1.853	0.350	1.526	0.274	1.022	0.221	0.808	0.198	1.006	0.196
Zn_n	3.845	3.193	3.190	2.546	2.406	2.405	2.204	1.262	1.773	1.925	1.567	1.549	1.533	1.202
Y_n	0.502	0.407	0.407	0.348	0.164	0.186	0.336	0.304	0.247	0.291	0.242	0.144	0.116	0.186
Zr_n	0.000	0.240	0.453	0.234	0.287	0.420	0.255	0.341	0.195	0.235	0.195	0.170	0.256	0.132
Nb_n	0.620	0.594	1.262	0.296	0.470	0.237	0.848	0.358	1.082	0.329	0.444	0.151	0.405	0.174
Mo_n	1.873	0.512	0.905	0.523	0.702	0.425	0.590	0.557	0.682	0.393	0.141	0.244	0.147	0.222
Tc_n	0.812	0.323	0.449	0.276	0.133	0.181	0.406	0.150	0.247	0.185	0.355	0.163	0.168	0.201
Ru_n	0.447	0.375	0.335	0.313	0.109	0.207	0.081	0.158	0.168	0.199	0.320	0.092	0.192	0.107
Rh_n	0.000	0.182	0.223	0.097	0.258	0.048	0.473	0.125	0.161	0.183	0.246	0.202	0.055	0.148
Pd_n	0.383	0.597	0.042	0.075	0.111	0.146	0.107	0.083	0.123	0.094	0.132	0.120	0.116	0.098
Ag_n	2.082	0.325	0.853	0.360	2.250	0.336	2.333	0.255	0.997	0.197	0.885	0.175	1.157	0.173
Cd_n	3.573	3.198	3.080	2.576	2.503	2.364	2.361	1.532	2.329	1.857	1.574	1.525	1.501	1.434
Lu_n	0.736	0.327	0.291	0.253	0.714	0.510	0.359	0.319	0.236	0.363	0.166	0.240	0.130	0.357
Hf_n	0.509	0.279	0.421	0.365	0.609	0.318	0.296	0.278	0.371	0.248	0.399	0.216	0.221	0.308
Ta_n	0.480	0.513	1.057	0.413	0.293	0.183	0.626	0.374	0.829	0.168	1.920	0.261	0.122	0.000
W_n	0.566	0.645	0.650	0.176	0.670	0.218	0.106	0.381	0.183	0.073	0.076	0.219	0.268	0.188
Re_n	0.278	0.558	0.957	0.295	0.141	0.187	0.218	0.371	0.310	0.265	0.259	0.137	0.147	0.214
Os_n	0.000	0.103	0.230	0.158	0.199	0.282	0.199	0.208	0.152	0.253	0.206	0.150	0.118	0.238
Ir_n	0.000	0.059	0.348	0.312	0.195	0.333	0.355	0.253	0.173	0.165	0.068	0.147	0.170	0.082
Pt_n	0.321	0.142	0.268	0.196	0.000	0.058	0.188	0.188	0.286	0.177	0.075	0.072	0.015	0.095
Au_n	2.000	0.161	1.002	0.347	2.079	0.261	1.406	0.226	1.295	0.184	0.557	0.157	1.636	0.136
Hg_n	4.967	4.682	4.443	4.088	4.077	4.004	3.880	3.731	3.685	3.352	3.448	3.478	3.325	3.248

Table 6: Spin total magnetic moment for the putative global minimum configurations in function of the number of atoms ($n = 2 - 15$) for every system, from $3d$ to $4d$ to $5d$ TM systems.

Spin total magnetic moment (μ_B)														
System	$n = 2$	$n = 3$	$n = 4$	$n = 5$	$n = 6$	$n = 7$	$n = 8$	$n = 9$	$n = 10$	$n = 11$	$n = 12$	$n = 13$	$n = 14$	$n = 15$
Sc_n	4.00	1.00	2.00	5.00	4.00	5.00	4.00	5.00	4.00	5.00	12.00	19.00	14.00	7.00
Ti_n	2.00	4.00	4.00	4.00	4.00	4.00	2.00	6.00	4.00	6.00	6.00	6.00	2.00	6.00
V_n	2.00	1.00	2.00	1.00	2.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Cr_n	0.00	6.00	0.00	6.00	0.00	6.00	0.00	6.00	0.00	4.00	8.00	4.00	4.00	8.00
Mn_n	0.00	5.00	0.00	3.00	2.00	5.00	4.00	1.00	6.00	7.00	6.00	5.00	2.00	5.00
Fe_n	6.00	10.00	14.00	16.00	20.00	22.00	24.00	26.00	28.00	34.00	36.00	44.00	46.00	48.00
Co_n	4.00	7.00	10.00	13.00	14.00	15.00	16.00	17.00	20.00	23.00	24.00	27.00	28.00	29.00
Ni_n	2.00	2.00	4.00	6.00	8.00	8.00	8.00	8.00	8.00	8.00	10.00	10.00	12.00	12.00
Cu_n	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Zn_n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Y_n	4.00	1.00	2.00	3.00	4.00	3.00	4.00	3.00	2.00	1.00	0.00	18.00	4.00	3.00
Zr_n	2.00	4.00	4.00	2.00	0.00	0.00	2.00	2.00	4.00	4.00	2.00	6.00	0.00	4.00
Nb_n	2.00	1.00	0.00	1.00	2.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Mo_n	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00
Tc_n	2.00	5.00	0.00	5.00	2.00	3.00	0.00	1.00	2.00	1.00	0.00	1.00	2.00	5.00
Ru_n	4.00	8.00	8.00	8.00	4.00	6.00	4.00	6.00	6.00	2.00	0.00	6.00	6.00	10.00
Rh_n	4.00	5.00	6.00	7.00	6.00	11.00	12.00	13.00	12.00	17.00	8.00	9.00	16.00	15.00
Pd_n	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	6.00	6.00	6.00	8.00	6.00	8.00
Ag_n	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Cd_n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lu_n	2.00	1.00	2.00	3.00	4.00	3.00	4.00	3.00	2.00	1.00	2.00	1.00	2.00	1.00
Hf_n	2.00	2.00	0.00	2.00	0.00	4.00	2.00	0.00	0.00	4.00	0.00	4.00	0.00	0.00
Ta_n	4.00	5.00	0.00	1.00	2.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	2.00	0.00
W_n	0.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00	2.00	2.00	2.00	0.00	2.00
Re_n	2.00	3.00	0.00	3.00	2.00	1.00	4.00	1.00	2.00	1.00	2.00	3.00	4.00	1.00
Os_n	4.00	8.00	4.00	2.00	4.00	6.00	4.00	4.00	4.00	4.00	2.00	4.00	2.00	4.00
Ir_n	4.00	3.00	8.00	7.00	8.00	11.00	12.00	9.00	2.00	5.15	4.00	3.00	6.00	5.00
Pt_n	2.00	2.00	4.00	2.00	2.00	4.00	2.00	4.00	8.00	4.00	2.00	2.00	0.00	2.00
Au_n	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Hg_n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 7: $s-d$ hybridization index for the putative global minimum configurations in function of the number of atoms ($n = 2 - 15$) for every system, from $3d$ to $4d$ to $5d$ TM systems.

	$s - d$ hybridization index													
System	$n = 2$	$n = 3$	$n = 4$	$n = 5$	$n = 6$	$n = 7$	$n = 8$	$n = 9$	$n = 10$	$n = 11$	$n = 12$	$n = 13$	$n = 14$	$n = 15$
Sc_n	0.453	5.399	7.578	6.839	7.829	10.221	10.654	12.457	12.425	15.464	19.496	59.993	22.825	19.591
Ti_n	0.609	2.155	8.436	7.271	14.208	9.857	12.314	14.440	12.877	14.927	22.733	28.499	19.305	24.986
V_n	4.712	3.183	4.314	6.542	8.493	9.251	11.151	12.474	15.709	12.755	16.319	16.533	15.747	21.296
Cr_n	1.904	4.763	8.378	10.982	11.175	10.265	10.265	13.168	13.168	13.168	13.168	13.168	13.168	13.168
Mn_n	1.245	5.372	7.390	5.884	9.420	9.184	11.694	12.467	14.028	15.960	16.610	22.856	19.586	20.950
Fe_n	1.755	4.151	5.325	6.687	7.933	9.602	12.534	12.354	17.568	17.178	20.764	26.135	19.375	28.921
Co_n	2.348	3.360	6.348	6.571	13.108	9.043	14.836	12.462	12.599	14.891	15.933	27.845	18.007	21.075
Ni_n	1.938	4.829	5.839	8.597	10.606	11.202	11.223	19.281	33.947	22.347	18.161	18.016	19.971	22.823
Cu_n	2.456	3.411	5.878	7.475	16.167	14.073	12.630	10.763	17.730	14.317	15.202	16.278	17.256	19.008
Zn_n	0.040	0.427	1.925	1.901	2.343	3.257	3.580	10.552	10.270	11.952	9.681	9.961	12.198	13.234
Y_n	0.438	6.469	7.770	7.924	9.134	13.230	10.134	13.280	12.617	22.051	16.789	16.789	18.455	18.089
Zr_n	0.268	3.119	8.949	7.555	8.709	19.017	13.513	13.594	21.505	16.073	21.442	50.123	20.066	27.862
Nb_n	13.538	13.538	9.153	8.109	6.414	8.762	11.123	11.995	23.411	15.025	10.638	16.926	16.915	19.455
Mo_n	0.500	2.920	5.052	5.277	6.347	9.529	10.157	12.037	17.138	17.138	27.678	16.979	19.004	17.078
Tc_n	0.036	3.057	2.731	8.600	4.429	9.507	9.936	13.127	18.292	15.494	17.422	16.796	20.102	21.460
Ru_n	4.507	3.577	6.194	6.546	9.140	11.248	12.549	12.251	12.492	16.264	26.032	20.106	21.022	21.619
Rh_n	0.544	3.894	4.900	9.603	9.861	8.385	19.127	17.599	14.928	14.648	23.571	19.110	23.052	22.925
Pd_n	4.768	3.863	3.309	7.793	6.808	9.303	14.642	12.999	16.491	13.013	23.115	18.509	19.572	22.321
Ag_n	0.452	1.450	2.592	3.129	10.814	8.335	12.950	9.223	12.657	12.165	12.801	15.628	16.209	21.792
Cd_n	0.025	0.196	0.776	0.632	0.674	1.040	1.163	2.227	3.563	3.087	2.473	2.777	3.261	4.774
Lu_n	0.270	2.521	4.513	5.573	9.422	10.299	6.321	8.243	8.873	14.082	12.375	14.849	13.865	13.538
Hf_n	0.404	2.796	6.888	8.200	6.227	9.932	8.013	8.301	8.693	9.993	19.517	16.173	16.173	16.173
Ta_n	0.907	6.923	15.614	7.903	8.983	9.664	9.796	11.959	18.497	14.739	41.693	15.832	18.932	24.280
W_n	0.351	6.133	10.046	7.822	10.158	16.326	11.882	22.889	22.889	21.781	17.456	19.851	20.294	21.521
Re_n	1.583	5.521	12.262	9.010	12.540	11.145	12.719	14.924	22.425	18.054	18.445	19.589	21.916	23.809
Os_n	1.499	4.430	9.581	7.343	7.865	13.763	22.277	11.631	13.416	14.283	15.138	15.138	19.863	18.002
Ir_n	1.691	2.523	9.017	9.973	9.246	9.646	25.505	11.551	12.792	15.008	26.754	18.603	18.315	21.436
Pt_n	2.120	6.085	6.473	8.540	15.897	14.074	14.447	17.275	36.117	25.355	19.549	20.746	31.463	24.815
Au_n	1.866	2.799	6.839	9.054	23.083	15.441	20.490	17.770	21.135	23.774	27.088	29.488	22.586	23.040
Hg_n	0.087	0.501	1.809	2.049	2.146	3.946	3.652	4.491	11.399	8.802	9.768	16.084	11.508	12.952

Table 8: Stability function, $\Delta^2 E$, for the putative global minimum configurations in function of the number of atoms ($n = 3 - 14$) for every system, from $3d$ to $4d$ to $5d$ TM systems.

System	Stability function, $\Delta^2 E$ (eV)											
	$n = 3$	$n = 4$	$n = 5$	$n = 6$	$n = 7$	$n = 8$	$n = 9$	$n = 10$	$n = 11$	$n = 12$	$n = 13$	$n = 14$
Sc_n	-0.926	0.249	-0.044	-0.253	0.247	0.154	-0.267	-0.285	0.007	-0.995	1.937	-0.598
Ti_n	-1.230	0.145	-0.010	-0.624	0.870	-0.347	-0.030	-0.216	-0.349	-0.564	1.020	-0.762
V_n	-1.419	-0.073	-0.327	-0.265	0.256	0.491	-1.031	1.309	-1.015	0.077	-0.303	-0.207
Cr_n	-0.718	0.003	-0.583	0.188	-0.053	0.306	-0.339	0.200	-0.559	-0.314	0.724	-0.333
Mn_n	-0.400	-0.535	0.223	-0.297	0.314	-0.331	0.232	-0.270	0.206	-0.750	0.699	-0.315
Fe_n	-0.621	-0.353	-0.3622	0.245	0.253	0.227	-0.214	-0.155	-0.172	-0.291	0.326	-0.942
Co_n	-1.124	-0.032	-0.888	1.442	-0.555	0.120	-0.065	0.223	-0.422	-0.544	0.812	-0.278
Ni_n	-0.406	-0.350	-0.294	0.279	-0.040	-0.174	-0.052	0.328	-0.148	-0.178	-0.023	-0.080
Cu_n	-1.294	0.441	-0.641	0.127	-0.093	0.751	-0.807	0.408	-0.433	0.310	-0.537	0.762
Zn_n	-0.404	0.451	-0.094	-0.245	0.009	-0.312	-0.054	0.545	-0.167	-0.048	-0.043	-0.217
Y_n	-0.659	0.257	-0.200	-0.199	0.361	0.035	-0.183	-0.478	0.426	-0.660	0.955	-0.453
Zr_n	-1.230	0.047	0.435	-0.998	1.350	-0.783	0.320	-0.369	-0.186	-0.886	0.991	-0.596
Nb_n	-1.236	0.753	-0.449	-0.744	0.125	1.187	-1.714	1.979	-1.122	0.368	-1.142	-0.346
Mo_n	-1.789	0.013	-0.727	0.849	-0.434	0.001	0.168	0.108	-0.489	0.410	-0.038	-0.499
Tc_n	-2.077	0.210	-1.285	1.439	-0.500	0.248	-0.801	0.839	-0.079	-1.224	1.200	-0.379
Ru_n	-0.476	0.120	-1.562	0.740	-1.614	3.814	-2.752	1.674	-3.209	3.954	-1.913	0.620
Rh_n	-0.535	-0.046	-0.057	0.068	-1.097	1.664	-1.000	0.517	-1.749	1.924	0.172	-0.754
Pd_n	-0.457	0.621	-0.349	0.456	-0.413	-0.167	0.189	-0.076	-0.351	0.223	-0.077	0.068
Ag_n	-1.168	0.323	-0.624	0.759	-0.708	0.925	-0.791	0.424	-0.465	0.340	-0.557	0.689
Cd_n	-0.216	0.212	-0.027	-0.109	-0.018	-0.181	0.052	0.185	-0.008	-0.089	-0.039	-0.154
Lu_n	-0.404	0.239	-0.604	0.547	-0.266	0.241	-0.232	-0.412	0.444	-0.581	0.815	-0.504
Hf_n	-0.519	-0.354	0.493	-0.137	0.515	-0.329	-0.105	-0.040	-0.600	-0.255	0.854	-0.758
Ta_n	-1.872	1.545	-0.265	-0.795	0.532	0.482	-1.317	1.831	-1.660	1.004	-0.981	-0.565
W_n	0.034	-0.954	0.060	0.311	-0.314	0.117	0.422	-0.678	0.600	-0.895	0.914	-0.409
Re_n	-1.986	1.23	-2.407	2.416	-1.027	0.023	-0.847	0.757	0.660	-1.602	0.837	0.567
Os_n	-2.310	1.454	-1.770	0.335	-0.898	3.574	-3.180	2.308	-3.691	2.637	0.411	-0.234
Ir_n	-1.344	0.872	-1.382	1.049	-2.130	3.300	-3.661	3.865	-5.523	4.626	0.350	-0.843
Pt_n	-0.110	-0.334	-0.523	0.833	-0.792	-0.157	-0.492	1.363	-0.765	-0.133	-0.010	0.783
Au_n	-1.360	0.324	-0.847	1.481	-1.214	0.966	-0.933	0.696	-0.257	0.245	-0.980	0.997
Hg_n	-0.052	0.036	0.001	-0.021	0.008	-0.019	-0.014	0.020	0.001	-0.024	0.030	-0.015

C Geometric coordinates (given in Å) of gas-phase TM clusters

Ag₀₂

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0.0000000000000000 -0.0000000000000000 1.2843540000000000

Ag₀₃

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Ag₀₄

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Ag₀₇

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Ag₀₉

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Ag₁₀

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Ag₁₄

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Ag₁₅

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Au₀₂

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0.0000000000000000 0.0000000000000000 1.2560020000000001

Au₀₃

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Au₀₄

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Au₀₅

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Au₀₆

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Au₀₇

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Au₁₁

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Au₁₂

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Au₁₃

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Au₁₄

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Au₁₅

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Cd₀₂

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-0.0000000000000000 -0.0000000000000000 1.7578870000000000

Cd₀₃

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Cd₀₄

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1.2769180000000000 -1.2430840000000001 0.7937840000000000

Cd₀₅

0.5560670000000000 -0.0910210000000000 1.7209870000000000
-2.6767720000000002 -0.6709340000000000 0.8197380000000000
0.0475290000000000 -1.4707250000000001 -1.0446560000000000
2.6741400000000000 0.6639450000000000 -0.8256610000000000
-0.6009630000000000 1.5687350000000000 -0.6704080000000000

Cd₀₆

-0.2154140000000000 0.5489340000000000 1.4360020000000000
1.5494900000000000 2.5926260000000001 -0.5638879999999999
-3.0629800000000000 -0.1000990000000000 -0.2109800000000000

-1.0444970000000000 -2.531779999999999 0.5674610000000000
2.7653279999999998 -0.3018690000000000 0.2921220000000000
0.0080720000000000 -0.2078120000000000 -1.5207160000000000

Cd_{07}

-1.3307880000000001 2.8420410000000000 0.4849470000000000
0.4057600000000000 2.2463370000000000 -2.1457560000000000
-2.4571100000000001 0.8882110000000000 -1.7802270000000000
-0.1275120000000000 -3.1282420000000002 0.4110650000000000
0.8587010000000000 -1.2497970000000000 2.7974329999999998
2.6789079999999998 -1.6081360000000000 0.1918710000000000
-0.0279570000000000 0.0095860000000000 0.0406670000000000

Cd_{08}

-1.4164129999999999 -1.8230299999999999 -0.5288659999999999
-0.9106730000000000 -2.0166160000000000 2.7051259999999999
1.0087809999999999 -1.9501299999999999 -2.7328429999999999
1.4762949999999999 -1.8176969999999999 0.4924940000000000
-1.5734420000000000 2.9022690000000000 -0.5186220000000000
-0.5448580000000000 0.8314870000000000 1.5884710000000000
0.5505280000000000 0.8482620000000000 -1.5343320000000000
1.4097820000000001 3.0254550000000000 0.5285720000000000

Cd_{09}

-0.292219000000000000 -0.687981000000000000 -2.381494000000000000
 2.628798999999999999 -0.722960000000000000 -1.286774000000000001
 1.134490000000000000 1.999091000000000000 -0.990876000000000000
 -0.693654000000000000 -1.045533000000000000 2.72632599999999998
 0.488111000000000000 -2.445776000000000000 0.200146000000000000
 -1.946852000000000000 1.780057000000000000 -1.434838000000000001
 -0.891069000000000000 1.808516000000000000 1.49591199999999999
 1.911950000000000000 0.230304000000000000 1.58981599999999999
 -2.339556000000000000 -0.915716000000000000 0.081781000000000000

Cd₁₀

-1.700515000000000000 -1.341588999999999999 -0.937538000000000000
 -0.231405000000000000 -1.160841000000000000 2.05430199999999999
 1.628535000000000001 -1.566119000000000000 -0.690836000000000000
 -0.273197000000000000 -3.666128000000000001 0.358884000000000000
 3.203339000000000002 0.830963000000000000 -1.62471499999999999
 -2.786530000000000000 1.231163000000000000 -2.079638000000000001
 0.232606000000000000 1.161994999999999999 -2.04966999999999999
 -1.633424000000000000 1.582460000000000000 0.694486000000000000
 1.709587000000000000 1.354282999999999999 0.952820000000000000
 -0.148996000000000000 1.573812000000000000 3.32190299999999998

Cd₁₁

0.370456000000000000 0.241460000000000000 -2.36731299999999998
 0.105212000000000000 -2.745212000000000000 -1.459365000000000000

3.45125100000000001 1.2501940000000000 -2.1414749999999998
 2.2199019999999998 -0.9071680000000000 -0.0766830000000000
 -1.6399779999999999 2.3510290000000000 -1.2198750000000000
 -2.16320300000000002 -0.7039120000000000 -0.7768090000000000
 1.20836600000000001 2.0829010000000000 0.0547080000000000
 -1.3234150000000000 1.1394949999999999 1.64898300000000001
 -3.44484600000000001 -1.2577970000000000 2.1469529999999999
 1.5328340000000000 0.3979560000000000 2.6774939999999998
 -0.3165810000000000 -1.8489450000000000 1.51338100000000001

Cd_{12}

-2.5669759999999999 0.1182810000000000 -1.7848780000000000
 -2.46986900000000001 2.6983069999999998 2.39127400000000001
 0.0303700000000000 -1.4838089999999999 -2.1361119999999998
 -1.2015330000000000 -0.9569730000000000 0.7403030000000000
 0.0494560000000000 1.4544690000000000 -0.9449910000000000
 2.47618500000000001 0.4899870000000000 -2.58957900000000001
 0.2466680000000000 1.4273309999999999 2.16060300000000001
 2.81290400000000001 -1.8862150000000000 -0.7068190000000000
 0.4223220000000000 -3.5403500000000000 0.2554630000000000
 -4.1850519999999998 1.9830559999999999 -0.0161640000000000
 1.5752100000000000 -1.3411690000000000 2.1475670000000000
 2.8103170000000000 1.0370839999999999 0.4833310000000000

Cd_{13}

-2.44334100000000002 -0.50660300000000000 -1.74470400000000000
 -2.06160100000000000 3.71123300000000000 0.05232200000000000
 0.44739700000000000 -1.12365600000000000 -2.34362000000000000
 -0.81760900000000000 -1.75482900000000000 0.46865400000000000
 -0.13276300000000000 1.31408400000000000 -0.48989300000000000
 2.47233899999999998 1.29203300000000000 -2.08280800000000000
 0.06156500000000000 0.24525500000000000 2.58608700000000000
 3.32392099999999999 -1.43738100000000000 -1.01880799999999999
 1.28401499999999999 -3.68832100000000002 -0.74519200000000000
 -4.12370400000000000 1.36352699999999999 -0.03325300000000000
 2.01925000000000000 -2.09986499999999999 1.80392500000000000
 -2.56619600000000001 1.78478900000000000 2.55642099999999998
 2.53672500000000001 0.89973700000000000 0.99086900000000000

Cd₁₄

0.06572200000000000 2.70084100000000000 1.85731600000000000
 -0.67429399999999999 -1.29830600000000000 -3.94474800000000001
 1.47695500000000000 -1.67807500000000000 -1.80834199999999999
 -2.81701099999999999 0.45324100000000000 -2.61106600000000001
 -0.03492900000000000 1.76659600000000001 -3.58521600000000000
 -2.44647399999999998 -2.63816499999999999 -1.72255600000000000
 -1.39293099999999999 0.18428700000000000 2.99207499999999998
 -0.64758600000000000 -1.44567399999999999 0.44642700000000000
 0.54835600000000000 -2.19923899999999999 3.14784899999999999
 -2.12036099999999999 1.30687400000000001 0.23861200000000000
 0.86416600000000000 1.18593799999999999 -0.72287600000000000

1.7017730000000000 0.5805730000000000 3.5261719999999999
2.4586399999999999 -1.0021370000000001 0.9435900000000000
3.0179740000000002 2.0832459999999999 1.2427630000000001

Cd₁₅

-2.2044709999999998 -0.6166760000000000 -1.5705169999999999
-2.0525350000000002 1.3363780000000001 2.6029399999999998
0.4432880000000000 -2.0747819999999999 -1.7869489999999999
-0.5743730000000000 -1.1493770000000001 1.0936840000000001
0.4964490000000000 1.0382250000000000 -1.2239760000000000
2.8523070000000001 -0.1564430000000000 -2.7670979999999998
0.9368200000000000 1.4314410000000000 1.7853880000000000
3.3304770000000001 -2.2479309999999999 -0.5908500000000000
1.1057410000000001 -3.7020900000000001 0.9048110000000000
-3.6784690000000002 1.7088520000000000 -0.0840640000000000
2.4384009999999998 -1.2591049999999999 2.2886299999999999
-3.6197309999999998 -1.0106630000000001 1.3013800000000000
3.4810910000000002 0.8335920000000000 0.1082780000000000
-1.0417600000000000 3.4016850000000001 0.3891950000000000
-1.9132330000000000 2.4668899999999998 -2.4508510000000001

Cr₀₂

0.0000000000000000 0.0000000000000000 -0.7975490000000000
0.0000000000000000 0.0000000000000000 0.7975490000000000

Cr₀₃

-1.3709350000000000 -0.5278090000000000 0.0000000000000000
-0.3399410000000000 0.9294510000000000 0.0000000000000000
1.7108760000000001 -0.4016410000000000 0.0000000000000000

Cr₀₄

-0.1670220000000000 1.5644410000000000 -0.2424130000000000
1.1209990000000001 0.1475470000000000 1.1210290000000001
0.5729870000000000 -1.3598809999999999 -0.5968900000000000
-1.5269640000000000 -0.3521070000000000 -0.2817270000000000

Cr₀₅

-0.0481820000000000 1.1680330000000001 -1.3267210000000000
1.0418099999999999 0.9497850000000000 0.7994850000000000
-1.1509360000000000 0.1372240000000000 1.3354090000000001
-1.0399870000000000 -0.9516900000000000 -0.7994170000000000
1.1972950000000000 -1.3033520000000001 -0.0087560000000000

Cr₀₆

-0.8411100000000000 0.1257390000000000 1.9221180000000000
-1.1091430000000000 1.2392049999999999 -0.1304260000000000
-0.9830010000000000 -1.0885260000000001 -0.7928910000000000
0.7904270000000000 -1.1901510000000000 0.8593980000000000
1.3008480000000000 1.0415610000000000 0.0631970000000000

0.8419780000000000 -0.1278280000000000 -1.9213970000000000

Cr₀₇

-1.4654290000000001 -1.1912620000000000 1.3668400000000001
0.5324210000000000 -1.6712119999999999 -0.0019910000000000
0.6557260000000000 1.6798519999999999 -0.8788780000000000
1.8817180000000000 -0.1169590000000000 -1.3698889999999999
0.8412320000000000 0.4348050000000000 1.2013110000000000
-1.5058119999999999 0.9917270000000000 0.8816670000000000
-0.9398560000000000 -0.1269530000000000 -1.1990600000000000

Cr₀₈

-1.5385120000000001 -1.0266869999999999 1.1507360000000000
-1.5792830000000000 0.3791310000000000 -0.8173650000000000
-0.2235720000000000 0.8252660000000001 1.6033210000000000
0.5547400000000000 -0.2615490000000000 -1.7108360000000000
-0.2842900000000000 -2.0874850000000000 -0.5552870000000000
1.2489920000000001 -0.9426700000000000 0.9248620000000000
1.9373039999999999 0.9818840000000000 -0.1660450000000000
-0.1153790000000000 2.1321110000000001 -0.4293860000000000

Cr₀₉

0.1028920000000000 1.8296779999999999 0.7543890000000000
0.3897760000000000 1.7078420000000001 -1.6269400000000001

2.1693600000000002 0.4960030000000000 -0.6903920000000000
 -1.1127469999999999 -2.3364539999999998 0.5105420000000001
 -1.5042420000000001 -0.3050790000000000 1.7540670000000000
 1.5155870000000000 -1.7622770000000001 -1.2483900000000001
 -0.3890100000000000 -0.4534530000000000 -0.7310850000000000
 -2.0846680000000002 1.1703030000000001 0.0227740000000000
 0.9130530000000000 -0.3465630000000000 1.2550340000000000

Cr₁₀

-1.7169500000000000 -1.8845000000000001 -0.6122850000000000
 0.7607820000000000 -1.3544099999999999 -0.6935570000000000
 -0.7593180000000000 0.6280820000000000 -1.1438649999999999
 1.5489790000000001 1.0833340000000000 -1.6516900000000001
 0.5568550000000000 3.0763229999999999 -0.7533410000000000
 -1.0216879999999999 -2.9541970000000002 0.7532270000000000
 0.8260420000000001 -1.7040979999999999 1.6444810000000001
 -0.9632970000000000 -0.1778730000000000 1.1513940000000000
 1.3335550000000000 0.8052810000000000 0.6849910000000000
 -0.5649600000000000 2.4820560000000000 0.6206440000000000

Cr₁₁

0.3281860000000000 2.7438729999999998 -1.0708949999999999
 0.6232569999999999 1.7867160000000000 -3.0442650000000002
 1.9469909999999999 1.0225830000000000 -0.6814260000000000
 -0.6707570000000000 -2.3865590000000001 2.3146339999999999

-1.12461300000000001 -1.8160900000000000 -0.4338700000000000
 -1.87204100000000001 -0.4111050000000000 1.25843100000000001
 0.79742600000000000 -0.48147200000000000 -2.0649799999999998
 0.84097700000000000 -1.17048100000000001 0.52159900000000000
 -1.03386099999999999 0.66777800000000000 -1.0829439999999999
 0.04202300000000000 -0.91222800000000000 3.13816900000000000
 0.12241200000000000 0.95698399999999999 1.14554700000000001

Cr₁₂

1.87685799999999999 1.95596400000000000 -0.65025000000000000
 -2.39478700000000000 0.65104300000000000 -0.38778500000000000
 -1.91022900000000000 -1.41462300000000000 0.88460300000000000
 0.94662700000000000 0.17782100000000000 -1.98201500000000001
 2.37171600000000002 -0.73472900000000000 -0.04193000000000000
 0.19579100000000000 -1.92215699999999999 -0.24491100000000000
 -1.39106200000000000 -0.88800600000000000 -1.85674100000000000
 0.58730100000000000 -1.31339600000000000 2.08809800000000000
 -0.11903000000000000 0.44488000000000000 0.20980000000000000
 -1.12503500000000000 0.37736000000000000 2.30678900000000002
 -0.78754900000000001 1.84830199999999999 -1.93344600000000000
 1.74940000000000001 0.81754400000000000 1.60778800000000000

Cr₁₃

1.01471300000000000 1.43659000000000000 1.40130899999999999
 1.82537500000000000 -0.95450500000000000 1.44265300000000000

-0.1808000000000000 -2.0815700000000001 1.2656930000000000
 -1.2417570000000000 2.1570849999999999 0.8873030000000000
 -1.2004459999999999 -1.6178760000000001 -1.5576980000000000
 0.8229120000000000 2.1455099999999998 -1.0173850000000000
 -0.2663040000000000 -0.1206300000000000 -0.0421200000000000
 -0.5504599999999999 0.0166760000000000 2.5842649999999998
 -1.3064469999999999 1.4128300000000000 -1.5053449999999999
 0.3423330000000000 -0.1119150000000000 -2.6172540000000000
 -2.3488880000000001 0.0265470000000000 0.9833240000000000
 1.0322950000000000 -2.2518630000000002 -0.9190620000000000
 2.0574740000000000 -0.0568790000000000 -0.9056820000000000

Cr₁₄

-0.7447020000000000 2.0884680000000002 1.0076149999999999
 -1.1189770000000001 -0.0598130000000000 -2.6669939999999999
 0.4193610000000000 -1.7080590000000000 -1.6845220000000001
 -0.8451109999999999 2.3637560000000000 -1.4390470000000000
 1.0145150000000001 1.1446989999999999 -2.0035790000000002
 -1.6428970000000001 -1.9800430000000000 -0.7048320000000000
 -1.1202960000000000 -1.0535730000000001 1.6297299999999999
 0.7200520000000000 -2.2663579999999999 0.7810330000000000
 1.4129490000000000 -1.6570560000000001 2.9446740000000000
 -2.3557440000000001 0.4289180000000000 -0.7934560000000001
 -0.0777170000000000 0.0901980000000000 -0.1596980000000000
 0.7708620000000000 0.5210740000000000 2.3245819999999999
 2.1650909999999999 -0.1709300000000000 0.5495090000000000

1.4026120000000000 2.2587190000000001 0.2149840000000000

Cr₁₅

-0.4906550000000000 -1.3114770000000000 -1.9501830000000000
-2.0156890000000001 -1.8875430000000000 2.5106910000000000
-0.2948280000000000 0.9537580000000000 -2.8272900000000001
0.3361190000000000 -0.3338160000000000 2.6131750000000000
2.1916769999999999 -0.3839450000000000 0.8991700000000000
-0.2193510000000000 -1.9898400000000001 0.8521480000000000
1.8531380000000000 0.2998660000000000 -1.8418650000000001
0.0009280000000000 0.3337090000000000 -0.1095790000000000
0.7057950000000000 1.8590070000000001 1.7305990000000000
1.5704000000000000 -1.8894620000000000 -0.8640550000000000
-1.8017410000000000 0.3200750000000000 1.5931919999999999
-2.3285550000000002 -1.2546980000000001 -0.2207400000000000
-2.1274120000000001 0.8771830000000000 -1.2829850000000000
2.3458000000000001 1.8677410000000001 -0.0194220000000000
0.2743740000000000 2.5394429999999999 -1.0828560000000000

Co₀₂

0.0000000000000000 0.0000000000000000 -0.9829450000000000
0.0000000000000000 -0.0000000000000000 0.9829450000000000

Co₀₃

-1.2555120000000000 0.2961250000000000 -0.4321490000000000
0.0248030000000000 -0.5697100000000000 0.9436720000000000
1.2307100000000000 0.2735860000000000 -0.5115229999999999

C_{04}

-0.1407830000000000 1.4165289999999999 -0.2382110000000000
1.0019780000000000 0.1284030000000000 1.0310859999999999
0.5259730000000000 -1.2230960000000000 -0.5570850000000001
-1.3871680000000000 -0.3218370000000000 -0.2357880000000000

C_{05}

-0.0106540000000000 1.5652960000000000 0.0120070000000000
0.0107570000000000 -1.5652919999999999 -0.0122550000000000
-1.3094660000000000 -0.0028630000000000 -0.7856980000000000
1.3353729999999999 0.0148690000000000 -0.7407540000000000
-0.0260100000000000 -0.0120110000000000 1.5266999999999999

C_{06}

-0.1120610000000000 0.5081750000000000 1.5200000000000000
0.5200870000000000 1.4527509999999999 -0.4472940000000000
-1.5160229999999999 0.4606720000000000 -0.2655680000000000
-0.5194740000000000 -1.4528559999999999 0.4476520000000000
1.5160780000000000 -0.4606370000000000 0.2652870000000000
0.1113930000000000 -0.5081050000000000 -1.5200790000000000

C_{07}

0.5523420000000000 0.9627760000000000 0.9007190000000000
0.1722580000000000 -1.2130970000000001 1.4291330000000000
-0.2248060000000000 -1.7012069999999999 -0.7753820000000000
0.1463380000000000 0.4680220000000000 -1.3414200000000001
-0.9802500000000000 2.1938589999999998 -0.3095740000000000
-1.4011490000000000 -0.0233700000000000 0.2563490000000000
1.7352680000000000 -0.6869830000000000 -0.1598250000000000

C_{08}

1.2094730000000000 0.3566830000000000 -0.8672350000000000
-1.0591530000000000 0.4137410000000000 -1.0734230000000000
-0.8694190000000001 -1.1504250000000000 0.5886360000000000
0.1033360000000000 -1.5740540000000001 -1.4418640000000000
0.0728100000000000 2.1701679999999999 -0.0380890000000000
1.4207959999999999 -1.5974299999999999 0.4147730000000000
0.6597590000000000 0.3626060000000000 1.3275910000000000
-1.5376030000000001 1.0187100000000000 1.0896110000000001

C_{09}

-0.9734230000000000 1.4530879999999999 -0.0121810000000000
-1.4968180000000000 -0.7120720000000000 0.3616780000000000
-1.5089120000000000 0.0985690000000000 -1.8352679999999999

0.1475290000000000 -1.3425039999999999 -1.0233270000000001
0.2420690000000000 -2.0325150000000001 1.2110760000000000
1.2311280000000000 1.8727190000000000 0.6027590000000000
0.0262010000000000 0.2350770000000000 1.7340210000000000
0.6656069999999999 0.8246480000000000 -1.3939630000000001
1.6666190000000001 -0.3970140000000000 0.3552000000000000

Co₁₀

2.4318580000000001 -0.0162530000000000 1.0082910000000000
2.0804000000000000 1.4970110000000001 -0.6011660000000000
1.5920900000000000 -0.7043770000000000 -1.0112960000000000
0.6837090000000000 1.4511689999999999 1.2166939999999999
0.1832890000000000 -0.7888290000000000 0.8379140000000000
-1.5920870000000000 0.7043760000000000 1.0113120000000000
-0.1832770000000000 0.7887880000000000 -0.8378700000000000
-0.6836810000000000 -1.4512560000000001 -1.2166100000000000
-2.4317630000000001 0.0162790000000000 -1.0084120000000001
-2.0805380000000002 -1.4969079999999999 0.6011430000000000

Co₁₁

-1.1459379999999999 -0.1350830000000000 1.2114760000000000
-1.1441809999999999 -0.1407990000000000 -1.2126770000000000
-2.0513409999999999 1.6470070000000001 -0.0053220000000000
0.5561580000000000 -1.1860610000000000 0.0030510000000000
0.2588750000000000 1.2825310000000001 -0.0028700000000000

-3.1211709999999999 -0.3729470000000000 -0.0014700000000000
 -1.6054269999999999 -2.0844719999999999 0.0035540000000000
 1.4108740000000000 0.1727220000000000 1.6361770000000000
 1.4136519999999999 0.1651730000000000 -1.6347900000000000
 2.8447390000000001 -0.7555570000000000 0.0045650000000000
 2.5837610000000000 1.4074860000000000 -0.0016930000000000

Co₁₂

-0.6612300000000000 2.5386289999999998 0.3428560000000000
 -0.6853460000000000 -2.1877490000000002 0.3701660000000000
 -0.7166880000000000 0.1436860000000000 0.4984960000000000
 1.2007250000000000 -1.0175989999999999 -0.2519300000000000
 1.1782820000000001 1.3761000000000001 -0.2647820000000000
 -1.9977199999999999 -1.0111140000000001 -1.1459159999999999
 -1.9072240000000000 1.4219679999999999 -1.1380509999999999
 0.6995930000000000 -0.9568000000000000 1.9961940000000000
 0.6758030000000000 1.3686220000000000 1.9987480000000000
 -0.1377380000000000 0.1948600000000000 -1.8180970000000001
 -0.1604020000000000 -2.1287159999999998 -1.8639319999999999
 2.5119460000000000 0.2581120000000000 1.2762480000000000

Co₁₃

-0.6572370000000000 2.3920669999999999 0.5179280000000001
 -0.6572430000000000 -2.3920599999999999 0.5179290000000000
 -0.7170700000000000 0.0000060000000000 0.6111000000000000

1.2079100000000000 -1.2043210000000000 -0.1158020000000000
1.2079130000000000 1.2043200000000001 -0.1158080000000000
-1.9696750000000001 -1.2238110000000000 -1.0223020000000000
-1.9696700000000000 1.2238190000000000 -1.0222960000000001
0.7177620000000000 -1.1682570000000001 2.1312280000000001
0.7177660000000000 1.1682360000000001 2.1312229999999999
-0.1450770000000000 0.0000070000000000 -1.7035169999999999
-0.1297550000000000 2.3622779999999999 -1.6812480000000001
-0.1297580000000000 -2.3622679999999998 -1.6812540000000000
2.5241330000000000 -0.0000150000000000 1.4328209999999999

Co₁₄

-0.0489140000000000 -1.0187219999999999 1.1217079999999999
2.3247510000000000 -1.1120550000000000 1.1493519999999999
-2.3974340000000001 -0.9519500000000000 1.0437920000000001
1.2322970000000000 0.9948620000000000 0.9242650000000000
-1.1795410000000000 1.0689080000000000 0.8520170000000000
0.0851120000000000 3.0284339999999998 0.6741190000000000
-0.2756630000000000 -3.2583210000000000 0.4655710000000000
0.0759220000000000 0.1857930000000000 -0.9696280000000000
2.4542649999999999 0.0602060000000000 -0.7819310000000000
-2.4298730000000002 0.2574250000000000 -0.8892030000000000
1.2948729999999999 2.1969280000000002 -1.0563929999999999
-1.0408249999999999 2.2524700000000002 -1.1399760000000001
1.2066859999999999 -1.9402290000000000 -0.6323720000000000
-1.3016520000000000 -1.7637470000000000 -0.7613220000000001

Co₁₅

-0.0000010000000000 -0.9076030000000000 1.0187809999999999
2.3601399999999999 -0.8664600000000000 0.9289770000000001
-2.3601529999999999 -0.8663480000000000 0.9289340000000000
1.2035570000000000 1.1920150000000000 0.8155800000000000
-1.2035490000000000 1.1920450000000000 0.8155350000000000
0.0000260000000000 3.1807750000000001 0.7309800000000000
1.1313070000000001 -2.9625080000000001 0.9079770000000000
-1.1314409999999999 -2.9624489999999999 0.9080370000000000
0.0000070000000000 0.4812830000000000 -1.0720710000000000
2.4093540000000000 0.3838150000000000 -0.9781940000000000
-2.4093059999999999 0.3838320000000000 -0.9782700000000000
1.1696820000000001 2.4992800000000002 -1.1019070000000000
-1.1696230000000001 2.4992790000000000 -1.1019399999999999
1.1700159999999999 -1.6234780000000000 -0.9112110000000000
-1.1700170000000001 -1.6234770000000001 -0.9112070000000000

Cu₀₂

0.0000000000000000 0.0000000000000000 -1.1091180000000000
0.0000000000000000 -0.0000000000000000 1.1091180000000000

Cu₀₃

-1.0125240000000000 -0.7626370000000000 0.0000000000000000

-0.2504750000000000 1.3858090000000001 0.0000000000000000
1.2629990000000000 -0.6231719999999999 0.0000000000000000

Cu₀₄

-0.3028150000000000 0.9847160000000000 0.4670160000000000
0.3027090000000000 -0.9869690000000000 -0.4627840000000000
2.0094420000000000 0.4756610000000000 0.3008930000000000
-2.0093359999999998 -0.4734080000000000 -0.3051240000000000

Cu₀₅

-0.3958670000000000 1.6703939999999999 0.0000000000000000
1.6549179999999999 0.4587500000000000 -0.0000000000000000
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-0.4222840000000000 -0.7143160000000000 -0.0000000000000000
1.5886910000000001 -1.8938900000000001 0.0000000000000000

Cu₀₆

-1.2720199999999999 -0.2194680000000000 0.5156440000000000
2.4695459999999998 0.4298900000000000 -1.0059350000000000
-1.5112690000000000 -2.0269490000000001 -0.9501910000000000
0.4933220000000000 -0.8221720000000000 -1.0060249999999999
-0.9558860000000000 1.5934450000000000 1.9600860000000000
0.7763050000000000 1.0452539999999999 0.4864210000000000

Cu₀₇

-1.2350719999999999 -1.6489419999999999 -0.0225350000000000
0.6940930000000000 -1.3347100000000001 1.4074570000000000
0.3373560000000000 1.8419530000000000 -0.8590310000000000
0.7463440000000000 -0.5431240000000001 -0.8771050000000000
1.6549689999999999 0.8305670000000001 0.9034540000000000
-0.7464460000000001 0.5432740000000000 0.8767070000000000
-1.4512449999999999 0.3109820000000000 -1.4289470000000000

Cu₀₈

1.1460530000000000 1.9068680000000000 0.2151890000000000
1.5379320000000001 -0.4723010000000000 0.3646410000000000
-2.1389629999999999 -0.5547130000000000 0.3409050000000000
-0.8995410000000000 1.1225229999999999 -0.8075320000000000
-0.2901840000000000 -1.2264550000000001 -1.0619010000000000
-0.1957880000000000 -1.8238430000000001 1.2780560000000001
-0.3483010000000000 0.5766289999999999 1.5042260000000001
1.1887930000000000 0.4712890000000000 -1.8335840000000001

Cu₀₉

-0.2453750000000000 -1.0478660000000000 -1.6854549999999999
1.8949630000000000 -0.1894900000000000 -2.3746990000000001
1.3597809999999999 -0.3175390000000000 -0.0116880000000000
-1.6897030000000000 0.1748610000000000 2.0323829999999998
0.3270400000000000 1.3714150000000001 -1.4210220000000000

-1.6809820000000000 0.4408130000000000 -0.3892580000000000
0.0334180000000000 1.5061279999999999 0.9529410000000000
0.6831830000000000 -0.4128990000000000 2.2774190000000001
-0.6823270000000000 -1.5254220000000001 0.6193770000000000

Cu₁₀

-0.8553820000000000 -0.0008750000000000 1.2684720000000000
-0.8554260000000000 -0.0009820000000000 -1.2684750000000000
-1.4994780000000001 1.9281260000000000 -0.0000590000000000
0.8571560000000000 -1.2671470000000000 0.0001360000000000
0.8538760000000000 1.2691790000000001 -0.0002640000000000
-3.0015420000000002 -0.0038860000000000 -0.0000350000000000
-1.4938160000000000 -1.9320420000000000 0.0000480000000000
1.4964780000000000 0.0022850000000000 1.9304060000000001
1.4965800000000000 0.0019520000000000 -1.9304030000000001
3.0015529999999999 0.0033910000000000 0.0001710000000000

Cu₁₁

-0.4305210000000000 -0.3563340000000000 -1.7644420000000001
0.8739200000000000 -1.0359499999999999 0.2521460000000000
-0.5530770000000000 -0.2884020000000000 2.1596890000000002
-2.6874099999999999 0.4030680000000000 -1.0348210000000000
1.9754830000000001 -0.9873080000000000 -1.8949469999999999
-2.7936399999999999 0.4045890000000000 1.3921440000000000
1.4252549999999999 1.0014689999999999 1.4181450000000000

-1.5331349999999999 -1.2980920000000000 0.1999590000000000
1.3368979999999999 1.1401280000000000 -0.9906660000000000
3.1446800000000001 -0.1111990000000000 0.0440400000000000
-0.7584520000000000 1.1280319999999999 0.2187520000000000

Cu_{12}

-0.6468010000000000 -0.2793490000000000 -1.9754339999999999
0.6823780000000000 -0.9563540000000000 -0.0039430000000000
-0.6241060000000000 -0.2796620000000000 1.9827060000000001
-2.8980600000000001 0.4710540000000000 -1.2521890000000000
1.8726950000000000 -0.8909820000000001 -2.0742680000000000
-2.8836189999999999 0.4708030000000000 1.2852619999999999
1.1860999999999999 1.2162219999999999 1.1934540000000000
-1.7416039999999999 -1.1777860000000000 0.0099110000000000
1.8965380000000001 -0.8912900000000000 2.0525240000000000
1.1723450000000000 1.2164379999999999 -1.2067260000000000
2.9401299999999999 -0.0930050000000000 -0.0168980000000000
-0.9559960000000000 1.1939100000000000 0.0055970000000000

Cu_{13}

-0.8040330000000000 -2.4337450000000000 -1.4008210000000001
-2.7331910000000001 0.1333830000000000 1.0234920000000001
0.2388400000000000 -0.7812240000000000 -2.8935350000000000
0.8666550000000000 1.8701829999999999 2.4142640000000002
1.0499000000000001 -0.4323440000000000 1.8062790000000000

-1.0453310000000000 0.2568060000000000 2.8072629999999998
2.3973610000000001 0.2526300000000000 -2.0658919999999998
0.2910730000000000 1.3042110000000000 -1.6629370000000001
1.9103900000000000 1.2421480000000000 0.2040580000000000
0.8861510000000000 -0.8814230000000000 -0.5839320000000000
-0.5369130000000000 1.1082780000000001 0.6211179999999999
-0.9630480000000000 -1.4471959999999999 0.9042040000000000
-1.5578540000000001 -0.1917100000000000 -1.1735610000000001

Cu₁₄

-1.5148720000000000 -1.1513800000000001 -1.9904160000000000
0.2933500000000000 -1.3978510000000000 -0.2888330000000000
-1.7490200000000000 -0.2136630000000000 0.3358280000000000
0.8632030000000001 -1.1919990000000000 -2.6008070000000001
2.1618620000000002 -0.6604160000000000 1.2128589999999999
-0.1451190000000000 -0.8677790000000000 2.0220430000000000
-2.8279380000000001 0.8654240000000000 -1.5840840000000000
-1.7154149999999999 2.1444559999999999 0.1737920000000000
-1.1940759999999999 1.2887450000000000 2.4144920000000001
-0.3745120000000000 0.8659660000000000 -1.5278130000000001
0.5013560000000000 1.1544140000000001 0.7360190000000000
1.2191850000000000 0.8200100000000000 3.0170810000000001
1.9248570000000000 0.3210950000000000 -1.0235350000000001
2.5571359999999999 -1.9770230000000000 -0.8966260000000000

Cu₁₅

-0.3610090000000000 0.3159930000000000 1.7260840000000000
2.1382789999999998 0.6166760000000000 2.2181289999999998
-1.3981960000000000 -2.0167760000000001 1.9630760000000000
1.0389530000000000 -1.5846530000000001 1.9577439999999999
-2.4287740000000002 -0.2898600000000000 0.5777980000000000
-0.3400430000000000 -1.5451550000000001 -0.1296930000000000
1.5854490000000001 -0.1145540000000000 0.0084910000000000
-0.8051620000000000 1.1332249999999999 -0.5451180000000000
3.1533790000000002 1.6372380000000000 0.1256170000000000
0.9072880000000000 2.1941590000000000 0.8191800000000000
1.3117970000000001 1.8138700000000001 -1.5870910000000000
-0.8365040000000000 1.4129190000000000 -2.9301300000000001
-1.9566760000000001 -0.6169660000000000 -1.8239939999999999
0.4549730000000000 -0.4084380000000000 -2.0989580000000001
-2.4637549999999999 -2.5476779999999999 -0.2811360000000000

Fe₀₂

-0.0000000000000000 0.0000000000000000 -0.9980090000000000
0.0000000000000000 0.0000000000000000 0.9980090000000000

Fe₀₃

-1.0377630000000000 -0.6882350000000000 0.0000000000000000
-0.2287680000000000 1.2257389999999999 0.0000000000000000
1.2665320000000000 -0.5375040000000000 0.0000000000000000

Fe₀₄

-0.0255610000000000 1.3759580000000000 -0.4280390000000000
0.8379050000000000 0.0579570000000000 1.1714350000000000
0.5864520000000000 -1.0861010000000000 -0.7439300000000000
-1.3987950000000000 -0.3478120000000000 0.0005340000000000

Fe₀₅

0.4894090000000000 -0.3026740000000000 1.3179220000000000
-1.7116229999999999 -0.3205480000000000 0.6245320000000000
0.0455420000000000 -1.0838000000000001 -0.7790810000000000
1.7007610000000000 0.5821870000000000 -0.4366170000000000
-0.5240890000000000 1.1248330000000000 -0.7267560000000000

Fe₀₆

-0.6114540000000001 -0.0000080000000000 1.3942530000000000
1.0585450000000001 1.3511299999999999 0.4627470000000000
-1.0568979999999999 1.3546819999999999 -0.4619230000000000
-1.0568270000000000 -1.3546899999999999 -0.4620170000000000
1.0586180000000001 -1.3511040000000001 0.4626980000000000
0.6080160000000000 -0.0000100000000000 -1.3957580000000001

Fe₀₇

1.131205999999999 0.780018000000000 0.191527000000000
1.206339000000000 -1.259344999999999 -0.942850000000000
-1.204773000000000 -0.637093000000000 -0.322268000000000
-1.052044999999999 1.665500000000000 -0.029481000000000
0.055939000000000 0.514899000000000 -1.900829000000000
-0.462849000000000 0.467810000000000 1.870074999999999
0.326182000000000 -1.531789000000000 1.133826000000000

Fe₀₈

0.096629000000000 1.372808999999999 0.764299000000000
-1.283941999999999 0.510874000000000 -1.211854000000000
-0.591194000000000 -1.425090000000000 0.312102000000000
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0.976976000000000 1.177523000000000 -1.358251000000000
1.773714999999999 -0.459382000000000 0.146373000000000
0.474195000000000 -0.448553000000000 2.054457000000000
-1.882044000000000 0.299791000000000 1.007441999999999

Fe₀₉

-2.080762000000000 0.952610000000000 -0.624007000000000
-1.182337000000000 -1.233087000000000 -0.561652000000000
-0.134316000000000 0.426366000000000 -1.887027999999999
0.192433000000000 -1.362503000000000 1.366544000000000
-0.058935000000000 0.948230000000000 0.527242000000000
-1.876112000000000 -0.186474000000000 1.436831000000000

1.8071770000000000 1.2967560000000000 -0.8196380000000000
2.0111420000000000 0.1670270000000000 1.2464850000000001
1.3217110000000000 -1.0089230000000000 -0.6847770000000000

Fe₁₀

-1.1571990000000001 1.9621270000000000 -0.8406120000000000
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-0.0474790000000000 -0.0176070000000000 -0.9220670000000000
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-1.2546640000000000 -1.9143509999999999 -0.8773840000000001
0.9610890000000000 -2.0297149999999999 -0.1130170000000000
2.2165759999999999 -0.1865870000000000 -0.9739320000000000
-0.6231710000000000 -1.0626370000000001 1.3830860000000000

Fe₁₁

0.0007610000000000 0.0035650000000000 -0.7400630000000000
-0.0003030000000000 1.2357340000000001 1.5270550000000001
-0.0030060000000000 -1.2500549999999999 1.5150530000000000
1.2565649999999999 2.0200390000000001 -0.2896180000000000
1.2528310000000000 -2.0178430000000001 -0.3096830000000000
-1.2521329999999999 2.0207679999999999 -0.2930150000000000
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2.0270320000000002 -0.0054040000000000 0.8584450000000000

2.2168100000000002 0.0064670000000000 -1.4030670000000001
-2.0288879999999998 -0.0021710000000000 0.8542130000000000
-2.2138450000000001 0.0061240000000000 -1.4076990000000000

Fe₁₂

0.1844520000000000 0.5059880000000000 -0.0026420000000000
0.0071000000000000 1.2638680000000000 2.1601590000000002
0.1753250000000000 -1.0174970000000001 2.0374599999999998
0.0102440000000000 1.2452730000000001 -2.1709939999999999
0.1785040000000000 -1.0351760000000001 -2.0289009999999998
1.4589950000000000 -1.7296140000000000 0.0082920000000000
-1.4713920000000000 2.0518600000000000 -0.0090150000000000
-1.0069859999999999 -1.6938599999999999 0.0060940000000000
2.1668150000000002 0.0685110000000000 1.2819480000000001
2.1692570000000000 0.0573560000000000 -1.2781499999999999
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-1.9352130000000001 0.1362760000000000 -1.2815380000000001

Fe₁₃

-0.5519640000000000 -1.9721500000000001 1.1036140000000001
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-1.5800870000000000 0.7035790000000000 -1.6865370000000000
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1.4144280000000000 -1.8892359999999999 -0.5157510000000000
1.0728120000000001 1.6743150000000000 1.3721289999999999

0.0001080000000000 -0.0001440000000000 -0.0001800000000000
 0.7222070000000000 -0.2769860000000000 -2.2888269999999999
 -0.9993980000000000 -1.7044560000000000 -1.3906090000000000
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 -1.3628929999999999 1.9091830000000000 0.5765810000000000
 0.5515570000000000 1.9719949999999999 -1.1040060000000000
 -0.7990710000000000 0.2831120000000000 2.2622719999999998

Fe₁₄

-0.0125180000000000 0.0074060000000000 -0.0058720000000000
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 0.0776320000000000 -1.3981269999999999 1.9548420000000000
 0.1343520000000000 -1.4068330000000000 -2.0484290000000000
 1.6664749999999999 1.8380240000000000 0.1422480000000000
 -2.0910929999999999 1.5407940000000000 -0.7721990000000000
 1.2618860000000000 -2.2002299999999999 -0.0159770000000000
 -1.1961260000000000 -2.1867779999999999 -0.0016980000000000
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 2.0982699999999999 -0.2101720000000000 -1.1558919999999999
 -1.9366090000000000 0.1032870000000000 1.1945650000000000
 -2.0009760000000000 -0.5976890000000000 -1.5242770000000000
 -0.5309140000000000 2.4691190000000000 0.5954510000000000

Fe₁₅

2.1707310000000000 -1.2277009999999999 0.7423820000000000
 0.0000360000000000 0.0000600000000000 0.0000410000000000
 0.3986050000000000 -2.5591510000000000 -0.2425740000000000
 -1.1583390000000000 2.0031610000000000 1.0407340000000000
 -1.2763050000000000 1.5873759999999999 -1.5145780000000000
 0.8732700000000000 1.0365759999999999 -2.2202809999999999
 -0.9610100000000000 -0.8993290000000000 -1.8660060000000001
 -1.7275540000000000 -1.8241270000000001 0.3612820000000000
 -2.5830769999999998 0.2956020000000000 -0.0829500000000000
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 0.9611660000000000 0.8993800000000000 1.8662270000000001
 0.6913970000000000 2.4919330000000000 -0.2879310000000000

Hf₀₂

-0.0000000000000000 0.0000000000000000 -1.2030820000000000
 -0.0000000000000000 -0.0000000000000000 1.2030820000000000

Hf₀₃

-1.2066239999999999 -0.9070549999999999 -0.0000000000000000
 -0.2207980000000000 1.5500670000000001 -0.0000000000000000
 1.4274220000000000 -0.6430120000000000 -0.0000000000000000

Hf₀₄

1.0140790000000000 1.2979639999999999 -0.3418140000000000
-1.5522849999999999 0.3420940000000000 -0.5496330000000000
0.5764570000000000 -1.3807069999999999 -0.7705980000000000
-0.0382500000000000 -0.2593500000000000 1.6620440000000001

Hf₀₅

1.8354340000000000 1.1970449999999999 0.7515370000000000
-1.8353109999999999 -1.1970380000000000 -0.7513870000000000
-0.2284580000000000 1.0716969999999999 -1.1494690000000001
0.9291890000000000 -1.2605990000000000 -0.2631390000000000
-0.7008550000000000 0.1888960000000000 1.4124580000000000

Hf₀₆

-1.7740210000000001 -0.1894370000000000 1.2184660000000000
1.7740970000000000 0.1891010000000000 -1.2182890000000000
-0.8919440000000000 1.3029999999999999 -1.0956800000000000
0.6388350000000000 1.4029910000000001 1.1477660000000001
0.8916010000000000 -1.3029700000000000 1.0963160000000001
-0.6385680000000000 -1.4026840000000000 -1.1485799999999999

Hf₀₇

-1.4704489999999999 -1.9198910000000000 -0.0083860000000000
0.7483310000000000 -1.5223370000000001 1.7236769999999999

0.4471800000000000 2.1279050000000002 -1.0595180000000000
0.8887210000000000 -0.6767640000000000 -0.9843080000000000
1.9333419999999999 0.9784470000000000 1.0744309999999999
-0.8897640000000000 0.6767670000000000 0.9832959999999999
-1.6573620000000000 0.3358730000000000 -1.7291920000000001

Hf₀₈

-0.5936180000000000 -0.0009560000000000 1.7875770000000000
-0.5936320000000000 -0.0009450000000000 -1.7876200000000000
-2.2208039999999998 1.4680040000000001 0.0000800000000000
0.5862250000000000 -1.8957480000000000 -0.0000140000000000
0.5802430000000000 1.8976370000000000 -0.0000020000000000
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2.2289119999999998 0.0034900000000000 1.4178630000000001
2.2288150000000000 0.0034910000000000 -1.4179520000000001

Hf₀₉

-1.3309150000000001 -0.8503100000000000 -1.2842680000000000
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-1.9254240000000000 1.9648620000000001 -0.9191540000000000
0.7267860000000000 1.0168509999999999 -1.6017509999999999
0.8458700000000000 -0.6661460000000000 1.5462560000000001
1.4467520000000000 -1.7609500000000000 -0.9584330000000000
2.7762180000000001 0.6934500000000000 0.1798130000000000
0.2541330000000000 2.0946349999999998 0.9765900000000000

-0.8825360000000000 -2.6232220000000002 0.7495889999999999

Hf₁₀

2.3857789999999999 -0.9252130000000000 -0.1663070000000000

0.7674339999999999 0.9492740000000000 1.1076410000000001

0.6262970000000000 -3.1575380000000002 -0.4857260000000000

-0.6043460000000000 3.1329430000000000 0.4996380000000000

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-1.6578420000000000 -1.4056590000000000 -0.0897740000000000

-1.5515820000000000 1.2266770000000000 -1.1288570000000000

-1.8958660000000001 0.7115340000000000 1.7994180000000000

1.3575930000000000 1.8541120000000000 -1.4341910000000000

0.2777370000000000 -1.6660850000000000 1.9298649999999999

Hf₁₁

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-2.1464150000000002 -0.5009420000000000 -1.4307850000000000

-1.4502189999999999 2.2583449999999998 -0.8884500000000000

-0.7990650000000000 -2.1271420000000001 0.5319800000000000

0.3164030000000000 -1.8717750000000000 -2.0941440000000000

2.0548730000000002 -1.8799859999999999 0.4816940000000000

0.5216640000000000 -0.5141570000000000 2.5238429999999998

0.2876690000000000 2.2496070000000001 1.6881940000000000

-1.8988069999999999 0.4420650000000000 1.2824949999999999

-0.39388100000000000 0.74690900000000000 -3.1364500000000000

Hf₁₂

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-0.07470500000000000 1.60822800000000000 2.61737500000000000
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-0.07028300000000000 1.58530799999999999 -2.63142800000000001
0.20895900000000000 -1.22303300000000000 -2.39421200000000000
1.72253400000000000 -2.07433399999999999 0.01051300000000000
-1.72995999999999999 2.53973900000000000 -0.01253800000000000
-1.22576500000000000 -2.15493099999999999 0.00839100000000000
2.60783599999999998 0.07819700000000000 1.62368899999999999
2.61054599999999998 0.06400600000000000 -1.61996900000000000
-2.24565899999999998 0.18961300000000000 1.48126500000000001
-2.24318699999999998 0.17665300000000000 -1.48663200000000000

Hf₁₃

-0.10480000000000000 -0.04572200000000000 -0.08790200000000000
-0.02096200000000000 1.53021800000000001 2.40246100000000002
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-0.03593000000000000 1.50085099999999999 -2.33018599999999999
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1.54706000000000001 -2.50263800000000001 -0.00531200000000000
-1.55705800000000001 2.48508100000000001 -0.00791600000000000

-1.4367680000000000 -2.4738850000000001 0.0302920000000000
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-2.3614910000000000 0.0572000000000000 1.4458500000000001
-2.5456110000000001 0.1218920000000000 -1.5131270000000001

Hf₁₄

2.0061480000000000 -1.7190920000000001 -1.1358079999999999
1.0362330000000000 -1.4059940000000000 2.1278739999999998
-0.2655460000000000 -0.9292490000000000 -2.8217669999999999
2.7163339999999998 0.6407950000000000 0.5376960000000000
0.7670470000000000 1.6315710000000001 2.3759009999999998
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-0.6163530000000000 -2.9412840000000000 -0.9662920000000000
1.8401770000000000 0.9492190000000000 -2.1982610000000000
-1.0409450000000000 1.7024020000000000 -2.0248590000000002
-1.6787580000000000 -2.3490950000000002 1.4916590000000001
-1.4533830000000001 0.0493720000000000 2.8003420000000001
-2.5414319999999999 -0.6984910000000000 -0.7901570000000000

Hf₁₅

-2.0332409999999999 -0.4478170000000000 -2.1622420000000000
-1.5476250000000000 2.3037489999999998 -1.4488470000000000

-1.3099959999999999 -2.3613719999999998 0.2052190000000000
 -3.1064530000000000 0.1782440000000000 0.3581120000000000
 0.0013990000000000 -0.0005640000000000 0.0016910000000000
 -1.4044230000000000 2.2789969999999999 1.3574729999999999
 0.2772880000000000 -1.9345820000000000 -2.4421309999999998
 0.4040410000000000 0.9204130000000000 -2.8307449999999998
 1.8056380000000000 -2.3965429999999999 -0.1294450000000000
 1.3084800000000000 2.3618749999999999 -0.2060800000000000
 0.8413430000000000 -1.8263520000000000 2.3953690000000000
 0.8224140000000000 1.3455600000000000 2.6993279999999999
 2.7574220000000000 -0.0322730000000000 1.1977560000000000
 2.7112720000000000 -0.0658480000000000 -1.5642689999999999
 -1.5275589999999999 -0.3234870000000000 2.5688100000000000

Hg₀₂

-0.0000000000000000 -0.0000000000000000 -1.8187940000000000
 0.0000000000000000 -0.0000000000000000 1.8187940000000000

Hg₀₃

-1.7866270000000000 -1.0281590000000000 -0.0000000000000000
 0.0033380000000000 2.0629460000000000 -0.0000000000000000
 1.7832889999999999 -1.0347869999999999 -0.0000000000000000

Hg₀₄

-1.2240470000000001 0.8363380000000000 1.5331760000000001
1.0544190000000000 1.5609160000000000 -0.9979760000000000
-1.2259730000000000 -1.0387759999999999 -1.4022589999999999
1.3956010000000001 -1.3584769999999999 0.8670580000000000

Hg₀₅

2.3633069999999998 1.5477080000000001 0.9741660000000000
-2.3600310000000002 -1.5505810000000000 -0.9775880000000000
-0.2915090000000000 1.3412640000000000 -1.4266049999999999
1.1641900000000001 -1.5651610000000000 -0.3312190000000000
-0.8759570000000000 0.2267690000000000 1.7612460000000001

Hg₀₆

-1.3075319999999999 -0.5674490000000000 1.0149330000000001
0.4796060000000000 1.0522849999999999 -1.3668419999999999
-1.7059059999999999 -1.7237350000000000 -2.3361640000000001
1.3216660000000000 -2.2696339999999999 -0.6041299999999999
-0.6797780000000000 2.9488919999999998 1.4345289999999999
1.8919450000000000 0.5596420000000000 1.8576740000000000

Hg₀₇

-0.0002850000000000 0.0000010000000000 1.6868179999999999
-0.0000440000000000 0.0000010000000000 -1.6868179999999999
0.9667050000000000 2.9793099999999999 0.0000690000000000

-2.5310779999999999 1.8432620000000000 -0.0001830000000000
-2.5310579999999998 -1.8432910000000000 -0.0001830000000000
0.9667340000000000 -2.9793010000000000 0.0000690000000000
3.1290269999999998 0.0000180000000000 0.0002260000000000

Hg₀₈

-0.5940100000000000 -0.0006770000000000 2.1333169999999999
-0.3525930000000000 -0.0000230000000000 -1.3121360000000000
-1.4047350000000001 3.0052260000000000 0.3858710000000000
2.1501180000000000 -1.7642610000000001 0.3884970000000000
2.1484320000000001 1.7662500000000001 0.3893710000000000
-3.4969269999999999 -0.0017350000000000 0.2149920000000000
-1.4012240000000000 -3.0070100000000002 0.3854050000000000
2.9509390000000000 0.0022300000000000 -2.5853169999999999

Hg₀₉

1.8106850000000001 2.6059160000000001 -1.6935780000000000
0.8304160000000000 0.5063790000000000 0.8799150000000000
-2.8477630000000000 0.2614690000000000 1.1529190000000000
1.7061230000000001 -0.9710390000000000 -2.3764650000000000
-1.2769370000000000 0.9860940000000000 -1.9903810000000000
2.3327270000000002 -2.6076459999999999 0.8121580000000000
-0.9419220000000000 -2.3531290000000000 -0.3850990000000000
-0.5398720000000000 -1.8066549999999999 3.0581119999999999
-1.0734580000000000 3.3786100000000001 0.5424180000000000

Hg₁₀

-1.8093520000000001 -1.4328909999999999 -1.0128180000000000
-0.2470950000000000 -1.2475989999999999 2.1907060000000000
1.7451540000000001 -1.6719999999999999 -0.7392940000000000
-0.3020400000000000 -4.1390159999999998 0.3901910000000000
3.6177649999999999 0.9435510000000000 -1.8244490000000000
-3.1409069999999999 1.3940030000000001 -2.3488319999999998
0.2519350000000000 1.2547299999999999 -2.1814890000000000
-1.7564620000000000 1.6828650000000001 0.7469530000000000
1.8214490000000001 1.4486990000000000 1.0246839999999999
-0.1804470000000000 1.7676580000000000 3.7543479999999998

Hg₁₁

-0.0278320000000000 3.6020650000000001 -1.3252500000000000
2.4436450000000001 0.9747340000000000 -1.3833230000000001
-1.7825670000000000 -3.0527199999999999 -1.4965219999999999
-2.4422850000000000 -0.9689250000000000 1.3896860000000000
1.0845659999999999 -1.8615470000000001 -3.1776570000000000
3.2781570000000002 0.0073770000000000 2.0123630000000001
0.9281509999999999 -1.8653430000000000 0.2883610000000000
-1.1444000000000001 0.3495330000000000 -1.7318849999999999
0.3723810000000000 -1.1730069999999999 3.6351000000000000
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0.2154630000000000 1.5157830000000001 1.4411900000000000

Hg₁₂

0.3300610000000000 0.1372590000000000 -0.2972190000000000
1.2663100000000000 -1.5525270000000000 2.6530980000000000
3.2211210000000000 1.2065550000000000 1.2566040000000001
2.9834450000000000 -2.0585190000000000 -0.5305500000000000
-0.4085520000000000 -3.2898830000000000 -0.0323750000000000
-0.0470110000000000 1.8017440000000000 2.7876530000000002
-2.5335019999999999 2.1341830000000002 0.2027700000000000
0.7822540000000000 3.5569389999999999 -0.3009870000000000
-2.2697180000000000 -0.9783840000000000 2.0666150000000001
0.4009080000000000 -1.7103809999999999 -3.2114060000000002
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Hg₁₃

0.0000020000000000 0.0000010000000000 0.0000000000000000
-0.0000010000000000 1.8471690000000000 2.9851749999999999
0.0000000000000000 -1.8471690000000000 2.9851760000000001
0.0000010000000000 1.8471709999999999 -2.9851740000000002
0.0000000000000000 -1.8471690000000000 -2.9851719999999999
1.8471709999999999 2.9851760000000001 -0.0000040000000000
1.8471690000000000 -2.9851719999999999 -0.0000030000000000
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-1.8471700000000000 -2.9851730000000001 -0.0000020000000000

2.9851740000000002 -0.0000010000000000 1.8471720000000000
2.9851709999999998 -0.0000020000000000 -1.8471690000000001
-2.9851740000000002 -0.0000030000000000 1.8471709999999999
-2.9851740000000002 -0.0000020000000000 -1.8471700000000000

Hg₁₄

-3.1582599999999998 -2.1086000000000000 1.4225070000000000
0.0070160000000000 0.9736310000000000 -2.5486070000000001
0.0105610000000000 -1.1292469999999999 2.8995630000000001
3.1045159999999998 2.5392260000000002 -2.2403659999999999
2.9285320000000001 -1.1302120000000000 -2.2665760000000001
-0.1202530000000000 -2.1724350000000001 -4.0461549999999997
2.8108309999999999 -2.3912010000000001 1.2023720000000000
0.0126610000000000 2.4921329999999999 3.1946230000000000
1.8920509999999999 0.8188020000000000 0.5795140000000000
-0.0908740000000000 -2.0739299999999998 -0.5332200000000000
0.2490000000000000 3.6672460000000000 -0.2864660000000000
-2.9090310000000001 -0.9400220000000000 -2.0607270000000000
-1.8837450000000000 1.0382640000000001 0.6641250000000000
-2.8530069999999998 0.4163470000000000 4.0194130000000001

Hg₁₅

-0.4878010000000000 3.3151850000000000 -3.3041140000000002
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-1.8551590000000000 -2.7847170000000001 2.3633560000000000

1.1698910000000000 -3.8255219999999999 0.8630120000000000
 -1.7143960000000000 -3.2123740000000001 -1.2236440000000000
 1.2548889999999999 -1.2611410000000001 3.4053249999999999
 1.5675150000000000 -2.0792470000000001 -2.3782830000000001
 -1.6921400000000000 0.8633420000000001 2.9732930000000000
 -3.5122949999999999 -0.3338860000000000 0.1423310000000000
 3.3835479999999998 -0.8909160000000000 0.4558010000000000
 -1.4835689999999999 -0.0552370000000000 -2.9438979999999999
 1.6826030000000001 2.0221260000000001 1.9867980000000001
 -1.6820569999999999 2.7290290000000001 -0.0776320000000000
 2.1130860000000000 1.4257899999999999 -1.9512490000000000
 -0.0425030000000000 -0.4054090000000000 0.1975400000000000

Ir_{02}

-0.0000000000000000 0.0000000000000000 -1.1043790000000000
 -0.0000000000000000 -0.0000000000000000 1.1043790000000000

Ir_{03}

-2.2078880000000001 -0.0102680000000000 0.0008120000000000
 0.0000150000000000 0.0000340000000000 0.0001520000000000
 2.2078730000000002 0.0102330000000000 -0.0009640000000000

Ir_{04}

0.6265710000000000 0.9400740000000000 -1.2078580000000001

-1.2851570000000001 1.0319080000000000 0.1364400000000000
 1.2851880000000000 -1.0318689999999999 -0.1363980000000000
 -0.6266030000000000 -0.9401140000000000 1.2078169999999999

Ir_{05}

-0.2398950000000000 0.1951250000000000 1.6998500000000001
 -0.0099080000000000 0.5221120000000000 -1.6464810000000001
 -1.7124619999999999 -0.1823540000000000 -0.1349910000000000
 0.4995350000000000 -1.4343690000000000 -0.1071180000000000
 1.4627310000000000 0.8994880000000000 0.1887390000000000

Ir_{06}

-1.3964529999999999 0.8489290000000000 -0.8011520000000000
 0.9014820000000000 0.8806020000000000 -1.3136870000000000
 -1.1705700000000001 -1.4320770000000000 0.0144930000000000
 1.1016570000000001 -1.4007380000000000 -0.4924860000000000
 -0.8542050000000000 0.5361170000000000 1.5497870000000000
 1.4180889999999999 0.5671670000000000 1.0430450000000000

Ir_{07}

-2.0257440000000000 -0.3354680000000000 -0.6047120000000000
 -0.1442260000000000 1.0153049999999999 -1.4601940000000000
 -0.5529370000000000 -2.0676969999999999 0.0014170000000000
 1.3752329999999999 -0.7718320000000000 -0.8349040000000000

-0.8963580000000000 1.2180580000000001 0.9469010000000000
1.6209480000000001 1.5107170000000001 0.3792170000000000
0.6230860000000000 -0.5690830000000000 1.5722760000000000

Ir_{08}

-1.7140770000000001 0.0003470000000000 -1.2044269999999999
-0.0031500000000000 1.7104569999999999 -1.2094529999999999
1.7065740000000000 -0.0003950000000000 -1.2142729999999999
-0.0038910000000000 -1.7104750000000000 -1.2093760000000000
-1.7065660000000000 0.0003950000000000 1.2142139999999999
1.7140629999999999 -0.0003450000000000 1.2043680000000001
0.0038920000000000 1.7104910000000000 1.2094350000000000
0.0031530000000000 -1.7104729999999999 1.2095119999999999

Ir_{09}

-1.9459540000000000 -1.2142520000000001 -1.4180600000000001
-1.1545500000000000 -1.1766989999999999 0.9381660000000001
0.4764630000000000 -1.1824070000000000 -0.9110180000000000
1.3109780000000000 -1.2187180000000000 1.5227100000000000
-1.9621560000000000 1.1939230000000001 -1.4131069999999999
-1.1701379999999999 1.1576810000000000 0.9428700000000000
0.4606080000000000 1.1920500000000001 -0.9062000000000000
1.2946640000000000 1.2299320000000000 1.5275970000000001
2.6900840000000001 0.0184910000000000 -0.2829590000000000

Ir_{10}

-1.1970430000000001 -1.8697919999999999 -1.2005390000000000
1.1967930000000000 -1.8700140000000001 -1.2010580000000000
-1.2190730000000001 0.5234100000000000 -1.1782360000000001
1.2190760000000000 0.5236110000000000 -1.1782470000000000
0.0000760000000000 2.6930909999999999 -1.2042340000000000
-1.1965090000000000 -1.8700380000000001 1.2004230000000000
1.1965349999999999 -1.8704300000000000 1.2004560000000000
-1.2186859999999999 0.5231850000000000 1.1787160000000001
1.2190879999999999 0.5234190000000000 1.1785960000000000
-0.0002550000000000 2.6935560000000001 1.2041219999999999

Ir_{11}

0.0019490000000000 0.0027640000000000 -2.1602999999999999
-0.0012790000000000 1.2207990000000000 1.9238910000000000
-0.0021870000000000 -1.2257510000000000 1.9208240000000001
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0.0008820000000000 -2.4470100000000001 -1.9871730000000001
1.3181520000000000 1.3201799999999999 -0.2539150000000000
1.3171690000000000 -1.3205009999999999 -0.2572690000000000
-1.3167089999999999 1.3211610000000000 -0.2562930000000000
-1.3176850000000000 -1.3195230000000000 -0.2596470000000000
2.2437550000000002 -0.0029120000000000 1.6574040000000001
-2.2467459999999999 -0.0012420000000000 1.6533570000000000

Ir₁₂

-1.2151559999999999 -1.2122970000000000 -2.3963320000000001
-1.1986960000000000 -1.2011829999999999 0.0035720000000000
-1.2030280000000000 -1.2110639999999999 2.4035810000000000
1.2055300000000000 -1.2098629999999999 -2.4029270000000000
1.2013210000000001 -1.1985060000000001 -0.0028590000000000
1.2179260000000001 -1.2082900000000001 2.3972590000000000
-1.2179150000000001 1.2082649999999999 -2.3972410000000002
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-1.2054419999999999 1.2097530000000001 2.4025699999999999
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1.1986800000000000 1.2013210000000001 -0.0034000000000000
1.2154540000000000 1.2124800000000000 2.3966360000000000

Ir₁₃

-1.5922529999999999 -1.1997869999999999 -2.4304720000000000
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-1.3137540000000001 -1.2235650000000000 2.4117009999999999
-1.3137610000000000 1.2235650000000000 2.4116900000000001
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0.7966850000000000 1.2020740000000001 -2.5742720000000001
0.9792190000000000 -1.1962370000000000 -0.1899410000000000
0.9792740000000000 1.1962610000000000 -0.1899140000000000
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1.0807690000000001 1.2107749999999999 2.2932549999999998
2.9785379999999999 0.0000040000000000 1.0309040000000000

Ir_{14}

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-2.0943280000000000 1.2101900000000001 -2.8424440000000000
-1.6662500000000000 -1.2043060000000001 -0.3950680000000000
-1.6499029999999999 1.2238380000000000 -0.4045280000000000
-1.1674540000000000 -1.1850510000000001 2.0261230000000001
-1.1512220000000000 1.2162409999999999 2.0166539999999999
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0.8054730000000000 -1.2194849999999999 0.4003340000000000
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1.1958340000000001 -1.2272369999999999 2.9002520000000001
1.2124170000000001 1.2329889999999999 2.8906499999999999
2.8870490000000002 -0.0147600000000000 1.2528410000000001
2.4330680000000000 -0.0212480000000000 -1.2318540000000000

Ir_{15}

-2.3031579999999998 -0.9706470000000000 1.3768060000000000
-0.4451260000000000 1.1911339999999999 -2.3119250000000000
-0.0291310000000000 -0.9655440000000000 2.5661839999999998
1.7725249999999999 1.5324780000000000 -1.4911589999999999
2.0807479999999998 -0.9801560000000000 -1.1755789999999999

-0.0768320000000000 -1.1592119999999999 -2.5265909999999998
 1.9713550000000000 -1.8427169999999999 1.2506010000000001
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 0.3260750000000000 2.7767140000000001 0.2533930000000000
 -2.3080210000000001 -1.0397770000000000 -1.2171490000000000
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 -2.1101009999999998 0.0805740000000000 3.5723229999999999

Lu₀₂

0.0000000000000000 -0.0000000000000000 -1.5367340000000000
 0.0000000000000000 -0.0000000000000000 1.5367340000000000

Lu₀₃

-1.4143710000000000 -1.0638399999999999 0.0000000000000000
 -0.2143730000000000 1.7577860000000001 0.0000000000000000
 1.6287440000000000 -0.6939460000000000 0.0000000000000000

Lu₀₄

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 1.1423980000000000 -1.2995719999999999 0.6125490000000000

0.3261720000000000 0.2541640000000000 -1.9032309999999999

Lu₀₅

-0.9791620000000000 2.2592099999999999 1.1751900000000000
0.9792900000000000 -2.2594599999999998 -1.1752100000000001
-1.4071510000000000 -0.8845350000000000 0.5282370000000000
-0.0054990000000000 0.8030600000000000 -1.5477050000000001
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Lu₀₆

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-2.2784369999999998 0.0001530000000000 -0.0000600000000000
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Lu₀₇

1.6060470000000000 1.0808970000000000 -1.8306800000000001
0.2287120000000000 -1.8301250000000000 -1.9231190000000000
1.5991100000000000 -0.7826000000000000 0.8158510000000000
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-0.1775610000000000 1.7894090000000000 0.7758580000000000

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Lu₀₈

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Lu₀₉

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1.1147609999999999 2.2940380000000000 0.9882120000000000

3.2487599999999999 0.1216500000000000 -0.1489500000000000

Lu₁₀

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 -1.4971580000000000 0.9352780000000001 1.9272480000000001
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Lu₁₁

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 -1.0817969999999999 1.6003750000000001 1.8689279999999999
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Lu₁₂

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 2.1494469999999999 -3.1075409999999999 1.0915809999999999

Lu₁₃

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Lu₁₄

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Lu₁₅

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Mn₀₂

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Mn₀₃

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Mn₀₄

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Mn₀₅

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Mn₀₆

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Mn₀₇

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Mn₀₈

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Mn₁₅

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Mo₀₂

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Mo₀₃

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Mo₀₄

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Mo₀₅

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Mo₀₆

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Mo₀₇

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Mo₀₈

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Mo₀₉

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Mo₁₀

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Mo₁₁

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Mo₁₂

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Mo₁₃

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Mo₁₄

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Mo₁₅

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Nb₀₂

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Nb₀₃

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 -0.1169540000000000 -2.2333440000000002 1.1990620000000001

Nb₁₃

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 -0.4741610000000000 -1.3069610000000000 2.4769150000000000
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 -0.0987360000000000 -1.4871690000000000 -1.9034700000000000
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 -2.7133530000000001 -0.1369840000000000 1.2248100000000000
 -2.0331549999999998 0.3159090000000000 -1.2918890000000001

Nb₁₄

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 0.2796200000000000 0.2336460000000000 0.5439060000000000
 0.4444720000000000 -2.6994410000000002 -0.3155470000000000
 -1.3712690000000001 2.3169819999999999 1.3462280000000000
 -1.3289310000000001 1.9605760000000001 -1.4051549999999999
 1.0756880000000000 1.1401399999999999 -2.2555200000000002
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 0.1583430000000000 -1.7777380000000000 2.1935340000000001
 0.9142580000000000 2.6739180000000000 -0.1068020000000000

Nb₁₅

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 -2.7158720000000001 0.2808850000000000 -0.0113360000000000
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Ni₀₂

-0.0000000000000000 -0.0000000000000000 -1.0538250000000000
0.0000000000000000 -0.0000000000000000 1.0538250000000000

Ni₀₃

-1.0176879999999999 -0.7614500000000000 0.0000000000000000
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Ni₀₄

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Ni₀₅

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1.4331220000000000 0.7796560000000000 0.2504300000000000

Ni₀₆

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Ni₀₇

-1.34712800000000001 -0.4182080000000000 -0.3160580000000000
-0.2111650000000000 1.3392050000000000 -1.3485630000000000
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0.8701230000000000 -0.6852530000000000 -0.9278000000000000
-0.7858090000000000 1.4932770000000000 0.8979070000000000
1.4402699999999999 1.2250770000000000 0.2839000000000000
0.2977690000000000 -0.5312350000000000 1.3106160000000000

Ni₀₈

0.7687180000000000 0.8744189999999999 0.8217020000000000

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Ni₀₉

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 -0.2275150000000000 -0.9474830000000000 -2.2058490000000002
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Ni₁₀

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Ni₁₁

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Ni₁₂

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0.2352070000000000 -0.2033720000000000 -1.5490660000000001
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Ni₁₃

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Ni₁₄

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Ni₁₅

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Os₀₂

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0.0000000000000000 -0.0000000000000000 1.0539090000000000

Os₀₃

-1.2148930000000000 -0.6577780000000000 -0.0000000000000000
0.0023810000000000 1.3200250000000000 -0.0000000000000000
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Os₀₄

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-0.6074110000000000 -0.9108360000000000 1.1699109999999999

Os₀₅

-1.2929160000000000 -0.4995400000000000 -0.5514890000000000
-0.3592510000000000 1.5823620000000000 0.4166770000000000

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0.7864290000000000 0.5808300000000000 -1.3610570000000000
-0.1398050000000000 -0.3310300000000000 1.6368890000000000

Os₀₆

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0.0234170000000000 1.3958750000000000 -1.1387110000000000
-1.1967660000000000 -0.7187340000000000 1.1385259999999999
1.1730750000000001 -0.6769150000000000 1.1507019999999999
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Os₀₇

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-0.1186440000000000 0.4448680000000000 1.9035409999999999
-1.2361810000000000 -1.2101440000000001 0.6511960000000000
1.3052969999999999 -1.0555530000000000 0.7732860000000000

Os₀₈

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Os₀₉

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Os₁₀

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Os₁₁

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-1.0421870000000000 0.3390270000000000 -0.6742720000000000
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Os₁₂

-1.3170679999999999 -1.1760809999999999 -2.3721019999999999
-0.9347150000000000 -1.1787140000000000 0.0027200000000000
-1.3051060000000001 -1.1745779999999999 2.3795229999999998
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1.4414279999999999 -1.1539280000000001 -0.0033790000000000
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 1.0650720000000000 1.1551530000000001 2.4370390000000000

Os₁₃

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 2.7637790000000000 -0.0015460000000000 1.1895350000000000

Os₁₄

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 -1.9988900000000001 1.1670769999999999 -2.9135330000000002

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 2.3729060000000000 -0.0211750000000000 -1.2260960000000001

Os₁₅

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Pd₀₂

-0.0000000000000000 -0.0000000000000000 -1.2387760000000001
0.0000000000000000 0.0000000000000000 1.2387760000000001

Pd₀₃

-1.0494429999999999 -0.8447320000000000 -0.5404720000000000
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1.2411099999999999 -0.5943330000000000 0.4646710000000000

Pd₀₄

-0.8916350000000000 0.6030640000000000 1.1736240000000000
0.7681160000000000 1.1561870000000001 -0.7809770000000000
-0.9059530000000000 -0.7521900000000000 -1.0724800000000001
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Pd₀₅

-0.7423720000000000 1.8996620000000000 0.6219150000000000
1.2899449999999999 0.6641030000000000 -0.4947650000000000
-1.1967289999999999 -0.1549980000000000 -0.9447840000000000

-0.0913460000000000 -0.5086630000000000 1.4419299999999999
0.7405010000000000 -1.9001030000000000 -0.6242940000000000

Pd₀₆

0.0000100000000000 0.0000600000000000 1.8345309999999999
-0.0000080000000000 -0.0000690000000000 -1.8345330000000000
-1.9631860000000001 -0.0000410000000000 0.0000100000000000
0.0000290000000000 -1.8339369999999999 -0.0000180000000000
1.9631810000000000 0.0000180000000000 -0.0000090000000000
-0.0000270000000000 1.8339669999999999 0.0000180000000000

Pd₀₇

0.3639870000000000 0.9811270000000000 -1.9998229999999999
2.2094540000000000 0.4305000000000000 -0.1764620000000000
-0.2919280000000000 1.2885100000000000 0.6197480000000000
-1.5910169999999999 -0.8723900000000000 1.3430200000000001
-1.9869019999999999 0.1770730000000000 -1.0574310000000000
0.2924310000000000 -1.2885070000000001 -0.6197850000000000
1.0039750000000001 -0.7163119999999999 1.8907330000000000

Pd₀₈

2.0848429999999998 1.3359190000000001 -0.0086090000000000
0.5672220000000000 -0.0009400000000000 1.7192130000000001
-2.0874820000000001 0.0041110000000000 -1.3317990000000000

-2.0766369999999998 0.0045420000000000 1.3487020000000001
-0.5565840000000000 1.7227070000000000 0.0020080000000000
-0.5638100000000000 -1.7203489999999999 0.0025590000000000
0.5531640000000000 -0.0013910000000000 -1.7238279999999999
2.0792830000000002 -1.3445990000000001 -0.0082460000000000

Pd₀₉

-1.3250180000000000 -0.7668680000000000 -2.2009409999999998
1.3252550000000001 -0.7664330000000000 -2.2010939999999999
-0.0003690000000000 1.5028729999999999 -2.1256870000000001
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0.0002970000000000 -1.4443729999999999 0.0001560000000000
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Pd₁₀

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Pd₁₁

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-2.1817669999999998 -0.7224660000000001 -1.2441240000000000
-1.7089099999999999 1.9662010000000001 -1.1493150000000001
0.7815879999999999 -0.9334960000000000 2.3190550000000001
0.6289410000000000 1.7596769999999999 2.4012650000000000
-0.0900130000000000 0.3570980000000000 -2.4137900000000001
-0.2172240000000000 -2.2929189999999999 -1.9825250000000001
2.6614469999999999 0.6619850000000000 1.2756030000000000

Pd₁₂

-0.6288920000000000 -0.2670450000000000 -1.5990329999999999
2.0914459999999999 0.1297630000000000 -1.7425710000000001
0.8366209999999999 1.5137339999999999 0.1778460000000000
-1.0563460000000000 -2.5052210000000001 -0.1895330000000000
-0.3441460000000000 -2.0598250000000000 2.3486539999999998
1.0060240000000000 -2.3093689999999998 -1.8794040000000001
1.2373499999999999 -1.1308549999999999 0.4619000000000000

0.3439620000000000 2.0598630000000000 -2.3485900000000002
-1.7374510000000000 1.9893060000000000 -0.6722720000000000
-1.0060910000000000 2.3093859999999999 1.8793139999999999
0.7032670000000000 0.3863020000000000 2.6046269999999998
-1.4457430000000000 -0.1160390000000000 0.9590640000000000

Pd₁₃

-0.0085550000000000 2.5207310000000001 -1.6366060000000000
-0.0778010000000000 -0.1076510000000000 -1.6086450000000001
0.1178520000000000 -2.6016349999999999 -0.8579520000000000
2.2718490000000000 1.1267300000000000 -1.5503220000000000
1.9852950000000000 -0.9350820000000000 0.2452110000000000
-1.7761640000000001 1.3091230000000000 -0.0881840000000000
-2.2933219999999999 -1.2872420000000000 -0.7758590000000000
0.8526950000000000 1.5242730000000000 0.6403810000000000
-0.9600520000000000 1.2182160000000000 2.5354060000000000
-3.0264460000000000 -0.2495200000000000 1.6120980000000000
1.3820390000000000 -0.0655830000000000 2.6680969999999999
-0.5434220000000000 -1.0028170000000001 1.1421880000000000
2.0760299999999998 -1.4495439999999999 -2.3258160000000001

Pd₁₄

-0.5634620000000000 0.1899770000000000 1.9413640000000001
2.0735790000000001 0.4373430000000000 2.3388819999999999
-1.6507680000000000 -2.2533200000000000 2.2654670000000001

0.9614830000000000 -2.0205679999999999 1.9305810000000001
 -2.8347970000000000 -0.5366940000000000 0.6401960000000000
 -0.6872980000000000 -1.8972869999999999 -0.2249770000000000
 1.4520310000000001 -0.3477030000000000 -0.0731100000000000
 -0.9979209999999999 0.9674950000000000 -0.5500410000000000
 3.1694700000000000 1.6419790000000001 0.1818100000000000
 0.7472780000000000 2.3343029999999998 0.9302940000000000
 1.2536529999999999 1.7113400000000001 -1.7204170000000001
 -0.9947690000000000 1.3266819999999999 -3.1661999999999999
 -2.3007249999999999 -0.7475570000000000 -2.0271560000000002
 0.3722450000000000 -0.8059930000000000 -2.4666929999999998

Pd₁₅

-0.3440540000000000 2.4945059999999999 -0.7763930000000000
 0.3480910000000000 0.9865850000000000 -3.0133850000000000
 1.6357250000000001 0.3361650000000000 -0.8127680000000000
 -1.2319700000000000 -3.2729740000000000 1.7276030000000000
 -1.5921580000000000 -2.6259839999999999 -0.8627530000000000
 -2.1562009999999998 -0.8802630000000000 1.2326830000000000
 0.5236360000000000 -1.6235740000000001 -2.2547540000000001
 2.2117719999999998 -0.1427390000000000 1.7552620000000001
 0.5252620000000000 -1.7315330000000000 0.4181240000000000
 -1.2163100000000000 -0.0152870000000000 -1.1228540000000000
 0.0123430000000000 -1.2186539999999999 2.9477300000000000
 -2.5155390000000000 1.6239470000000000 0.4588050000000000
 -0.1651020000000000 0.9068970000000000 1.3745300000000000

1.9518180000000001 2.3934910000000000 0.7974990000000000
2.0126860000000000 2.7694179999999999 -1.8693290000000000

Pt_{02}

-0.0000000000000000 0.0000000000000000 -1.1635640000000000
0.0000000000000000 0.0000000000000000 1.1635640000000000

Pt_{03}

-1.1472819999999999 -0.8624720000000000 0.0000000000000000
-0.1736930000000000 1.4246770000000000 0.0000000000000000
1.3209740000000001 -0.5622050000000000 0.0000000000000000

Pt_{04}

-1.9392560000000001 0.8013980000000001 0.3647080000000000
0.4711520000000000 1.1756690000000001 -0.1999720000000000
1.9663889999999999 -0.8162630000000000 0.0546940000000000
-0.4982840000000000 -1.1608039999999999 -0.2194310000000000

Pt_{05}

-1.9079720000000000 1.2452399999999999 -0.0000010000000000
-1.9250550000000000 -1.2186500000000000 -0.0000010000000000
0.5397720000000000 -1.2091860000000001 0.0000030000000000
0.5564900000000000 1.2015849999999999 0.0000030000000000

2.7367640000000000 -0.0189890000000000 -0.0000030000000000

$P_{t_{06}}$

1.5143910000000000 0.0822390000000000 -0.2602100000000000
1.6757089999999999 -2.1200920000000001 0.7727870000000000
-0.5968440000000000 -1.2427930000000000 0.6833669999999999
-0.9174980000000000 1.1605639999999999 -0.4231700000000000
1.0900150000000000 2.2701720000000001 -1.2481990000000001
-2.7657740000000000 -0.1500920000000000 0.4754240000000000

$P_{t_{07}}$

1.7518860000000001 0.8861900000000000 0.1896220000000000
0.6837750000000000 -1.5055529999999999 -0.3780970000000000
-1.7035970000000000 -1.7819499999999999 -0.0139580000000000
-0.8733130000000000 0.6586370000000000 0.1378190000000000
0.2636420000000000 2.7889490000000001 0.5880860000000000
-3.2081680000000001 0.1364400000000000 -0.4911780000000000
3.0857749999999999 -1.1827120000000000 -0.0322950000000000

$P_{t_{08}}$

1.5131690000000000 -0.9574110000000000 -2.1733709999999999
0.1108320000000000 0.0192810000000000 -0.2541510000000000
-1.3338350000000001 -0.2367050000000000 3.0482130000000001
2.1665380000000001 -1.4401299999999999 0.2013700000000000

0.5042920000000000 1.3150720000000000 -2.4388550000000002
-1.7028980000000000 1.5230010000000000 -1.2610349999999999
-1.4163559999999999 1.3762939999999999 1.2100740000000001
0.1582570000000000 -1.5994029999999999 1.6677560000000000

Pt₀₉

-2.2184050000000002 -2.6668609999999999 0.0429130000000000
-2.4369580000000002 -0.2237660000000000 0.0020010000000000
-2.6673119999999999 2.2180360000000001 -0.0352960000000000
-0.2238140000000000 2.4368759999999998 -0.0389860000000000
-0.0000610000000000 0.0001070000000000 -0.0014180000000000
0.2238340000000000 -2.4365720000000000 0.0385990000000000
2.6670010000000000 -2.2182390000000001 0.0372920000000000
2.4369239999999999 0.2236710000000000 -0.0037130000000000
2.2187899999999998 2.6667480000000001 -0.0413910000000000

Pt₁₀

-1.3997090000000001 -1.1071380000000000 -0.7840610000000000
-0.1929820000000000 -0.9528710000000000 1.6895350000000000
1.3427380000000000 -1.2909230000000000 -0.5744810000000000
-0.2296680000000000 -3.0799690000000002 0.3044140000000000
2.6980160000000000 0.7069810000000000 -1.3602440000000000
-2.3433000000000002 1.0449120000000001 -1.7455220000000000
0.1929480000000000 0.9527800000000000 -1.6895720000000001
-1.3428500000000001 1.2908480000000000 0.5744960000000000

1.3997500000000000 1.1070650000000000 0.7839830000000000
-0.1249430000000000 1.3283140000000000 2.8014530000000000

Pt_{11}

-1.2080050000000000 -1.1097589999999999 -0.9982710000000000
0.0878630000000000 -0.9448620000000000 1.6693490000000000
1.5638890000000001 -1.2182930000000001 -0.6843970000000000
0.0160620000000000 -3.0014720000000001 0.1776860000000000
2.9536600000000002 0.7555490000000000 -1.4814810000000000
-2.0675319999999999 1.1151629999999999 -1.8762330000000000
0.4419980000000000 0.9983200000000000 -1.7905030000000000
-1.1370410000000000 1.4772259999999999 0.4610360000000000
1.6285289999999999 1.1492680000000000 0.6520280000000001
0.1357600000000000 1.3954830000000000 2.6594579999999999
-2.4151820000000002 -0.6166220000000000 1.2113280000000000

Pt_{12}

0.0717970000000000 1.8032429999999999 1.9137370000000000
0.4554540000000000 -0.6585560000000000 1.5602130000000001
-1.5553450000000000 -0.2548570000000000 -1.0105740000000001
-0.5691210000000000 1.0373129999999999 -2.9655680000000002
-2.0141680000000002 -1.0715660000000000 1.3086940000000000
0.4080410000000000 -1.8737220000000001 -0.9843100000000000
-0.0807420000000000 1.7776719999999999 -0.5827460000000000
-0.3625590000000000 -3.0543369999999999 1.1012130000000000

2.0559270000000001 0.3973290000000000 -0.5052470000000000
-2.3367819999999999 1.4800679999999999 1.0249680000000001
1.4390860000000001 -0.4574780000000000 -2.7887439999999999
2.4884110000000002 0.8748920000000000 1.9283640000000000

Pt₁₃

2.5090940000000002 -1.4058059999999999 -1.5947260000000001
2.1869130000000001 -0.0647410000000000 0.5493270000000000
-0.3090900000000000 2.1544550000000000 1.4854030000000000
0.6356110000000000 -2.2325450000000000 -0.0753910000000000
1.7031959999999999 1.1283559999999999 2.7334000000000001
-2.2660469999999999 1.6554560000000000 -0.0987200000000000
-0.9031340000000000 -0.6129200000000000 -1.2180470000000001
-2.4562569999999999 -0.7751890000000000 0.7419110000000000
0.6443990000000001 1.4685670000000000 -0.7348789999999999
0.8771880000000000 0.1093180000000000 -2.8405510000000000
-0.2633640000000000 -0.3221810000000000 1.9025710000000000
-1.2575090000000000 1.6474500000000001 -2.5478939999999999
-1.1010000000000000 -2.7502200000000001 1.6975960000000001

Pt₁₄

-2.5286089999999999 2.4894710000000000 -0.7568100000000000
-0.0148570000000000 2.5271849999999998 -0.8865400000000000
2.4923310000000001 2.5519650000000000 -0.6618360000000000
-2.4971199999999998 -0.0188460000000000 -0.9676100000000000

0.0213840000000000 0.0153580000000000 -1.1346060000000000
2.5317829999999999 0.0436470000000000 -0.8721000000000000
-2.4642919999999999 -2.5319780000000001 -0.8237810000000000
0.0495340000000000 -2.5023759999999999 -0.9531490000000000
2.5565400000000000 -2.4695100000000001 -0.7278780000000000
-1.3806710000000000 -1.4090000000000000 1.1857260000000001
-1.4158390000000001 1.3414980000000001 1.2224260000000000
1.3343650000000000 1.3758109999999999 1.2744860000000000
1.3694210000000000 -1.3746710000000000 1.2382359999999999
-0.0539710000000000 -0.0385530000000000 2.8634369999999998

Pt₁₅

-2.4478330000000001 -1.1246879999999999 1.2802020000000001
-0.5399430000000000 1.0539959999999999 -1.7835470000000000
0.0265440000000000 -0.9828990000000000 2.5186700000000002
1.8886019999999999 1.6384490000000000 -1.6266780000000001
2.2029450000000002 -1.0741579999999999 -1.1464760000000001
-0.0746130000000000 -1.2193110000000000 -2.7214890000000000
2.0222570000000002 -1.8661410000000000 1.2450680000000001
-0.4818710000000000 1.7366839999999999 2.3761649999999999
1.3554440000000001 0.6176350000000000 0.7882070000000000
-0.2154970000000000 -1.6690229999999999 -0.0875960000000000
0.3115100000000000 2.8471139999999999 0.1144570000000000
-2.3240390000000000 -0.9893530000000000 -1.3548530000000001
-1.8096080000000001 1.1098460000000001 0.3480520000000000
2.1387790000000000 -0.1272050000000000 -3.5040300000000002

-2.0526749999999998 0.04905300000000000 3.5538470000000002

Re_{02}

-0.00000000000000000 -0.00000000000000000 -1.01824600000000000

-0.00000000000000000 -0.00000000000000000 1.01824600000000000

Re_{03}

-0.93206600000000000 -0.71294700000000000 -0.00000000000000000

-0.31735700000000000 1.38062599999999999 0.00000000000000000

1.24942200000000000 -0.66767900000000000 0.00000000000000000

Re_{04}

-1.48698000000000000 0.49615600000000000 0.26536900000000000

0.50259100000000000 1.50802700000000000 -0.00357400000000000

1.48710199999999999 -0.49619600000000000 -0.26400300000000000

-0.50271300000000000 -1.50798700000000000 0.00220800000000000

Re_{05}

-0.12251400000000000 1.12576999999999999 -0.93754700000000000

1.29338200000000000 0.80072000000000000 0.82981600000000000

-1.42272700000000001 0.51663100000000000 0.84361800000000000

-1.03988100000000001 -1.34350400000000000 -0.36202500000000000

1.29174100000000000 -1.09961599999999999 -0.37386200000000000

Re₀₆

-1.4196130000000000 -0.1691630000000000 0.9549879999999999
1.4196299999999999 0.1691120000000000 -0.9549400000000000
-0.7797780000000000 1.1586920000000001 -1.0028980000000001
0.5797230000000000 1.2456039999999999 1.0340130000000001
0.7798490000000000 -1.1586710000000000 1.0028570000000001
-0.5798100000000000 -1.2455750000000001 -1.0340210000000001

Re₀₇

-1.9182230000000000 -0.2297560000000000 -0.4598050000000000
-0.2195300000000000 0.9960030000000000 -1.5502110000000000
-0.3712890000000000 -1.9751040000000000 0.0629430000000000
1.3359019999999999 -0.7743060000000000 -1.0133810000000001
-0.8804460000000000 1.2047180000000000 1.1030450000000001
1.3740559999999999 1.3453990000000000 0.2363290000000000
0.6795300000000000 -0.5669530000000000 1.6210800000000001

Re₀₈

-1.2727999999999999 -0.7479670000000000 1.9834200000000000
0.8398400000000000 0.4681370000000000 -1.3138520000000000
0.2768240000000000 2.4566089999999998 -0.0263750000000000
-0.1691140000000000 -1.6189490000000000 -0.0045290000000000
-1.1749840000000000 -0.6887120000000000 -2.0037020000000001

-1.4247350000000001 0.7033530000000000 0.0229810000000000
0.7396320000000000 0.4731950000000000 1.3248990000000000
2.1853370000000001 -1.0456660000000000 0.0171580000000000

Re_{09}

2.5187580000000001 -1.1794199999999999 -0.0678810000000000
0.6520670000000000 0.6479910000000000 0.0570330000000000
0.4927250000000000 -1.5689409999999999 -1.2039190000000000
-1.1752950000000000 2.5093899999999998 0.2488130000000000
0.0612480000000000 0.2792680000000000 -2.5346050000000000
-1.0347590000000000 -1.1045900000000000 0.7942300000000000
-1.6651790000000000 0.5854690000000000 -1.0184860000000000
-1.0007400000000000 0.9899350000000000 1.9545429999999999
1.1511750000000001 -1.1591020000000001 1.7702709999999999

Re_{10}

-0.6794040000000000 0.1569980000000000 0.2604670000000000
0.2264440000000000 2.2213069999999999 1.5887060000000000
-0.3041270000000000 -1.3567400000000001 2.3614449999999998
-1.1884889999999999 1.7015439999999999 -1.7893360000000000
-0.3389850000000000 -0.4306150000000000 -2.2262930000000001
0.8303450000000000 2.0324279999999999 -0.6606740000000000
0.1925080000000000 -2.2687719999999998 0.2684680000000000
-1.7189939999999999 -1.8766920000000000 -1.0162500000000001
1.3618580000000000 0.1943210000000000 1.8342170000000000

1.6188450000000001 -0.3737790000000000 -0.6207510000000001

Re_{11}

0.5526810000000000 -0.7132910000000000 -2.0234619999999999
-0.7405500000000000 -2.4694699999999998 -1.2822050000000000
1.8942140000000001 1.4154380000000000 -1.7094900000000000
2.5076350000000001 -0.4943760000000000 -0.4728790000000000
-0.4353290000000000 1.3039540000000001 -0.8387670000000000
-2.1583510000000001 -0.6379950000000000 -0.8128160000000000
1.5045990000000000 1.4181729999999999 0.7961620000000000
-1.3476150000000000 1.1774249999999999 1.5886680000000000
-2.4543650000000001 -0.8482400000000000 1.4698160000000000
0.6210960000000000 0.5795290000000000 2.7512249999999998
0.0559840000000000 -0.7311470000000000 0.5337470000000000

Re_{12}

-0.4343190000000000 -0.3598640000000000 -1.7347999999999999
2.0580959999999999 0.0956740000000000 -2.1706829999999999
1.1421580000000000 0.5757500000000000 0.1122870000000000
-1.4671250000000000 1.0805959999999999 2.8594840000000001
-0.1198260000000000 -2.3671720000000001 2.0397110000000001
1.3102490000000000 -2.0854879999999998 -2.4371749999999999
0.9699600000000000 -1.8600730000000001 -0.0245210000000000
0.0673970000000000 2.0146459999999999 -1.7247209999999999
-2.1292110000000002 1.4202680000000001 -1.0075090000000000

-0.7348000000000000 2.0849829999999998 0.9011080000000000
0.5007390000000000 -0.1645580000000000 2.5378569999999998
-1.1633180000000000 -0.4347620000000000 0.6489620000000000

Re₁₃

-1.0677380000000000 2.4942820000000000 0.5005010000000000
-0.7118730000000000 -0.1016560000000000 0.6301720000000000
1.4938970000000000 -1.1796310000000000 -0.0976580000000000
-1.9663999999999999 -1.6011070000000000 -1.0884389999999999
0.9655160000000000 -1.1492210000000000 2.3238970000000000
0.6156740000000000 1.3801690000000000 2.3107500000000000
-0.1844710000000000 -0.0299880000000000 -1.8629709999999999
-0.4458320000000000 2.5049939999999999 -1.8634510000000000
-0.3541910000000000 -2.6805390000000000 0.5861790000000000
1.1257560000000000 1.4832810000000000 -0.1375520000000000
-2.2830360000000000 1.0830990000000000 -1.1000060000000000
0.1269670000000000 -2.5809910000000000 -1.7797959999999999
2.6857310000000000 0.3773080000000000 1.5783750000000000

Re₁₄

-0.1907580000000000 0.1073710000000000 -0.8153950000000000
2.5332240000000000 0.1762600000000000 -0.8472040000000000
-2.7460439999999999 0.1182990000000000 -0.6077870000000000
1.2677069999999999 2.3318249999999998 -0.6690620000000000
-1.4588449999999999 2.3268049999999998 -0.6180740000000000

1.0917230000000000 -2.2968670000000002 -0.8356890000000000
-1.4068250000000000 -2.2569040000000000 -0.6476600000000000
-0.0720000000000000 1.5800940000000001 1.2992319999999999
2.4426809999999999 1.5556080000000001 1.2948660000000001
-2.6268259999999999 1.5373319999999999 1.3598079999999999
1.3221780000000001 -0.7654240000000000 1.1147790000000000
-1.4050469999999999 -0.7070720000000000 1.3099030000000000
1.3931260000000001 -0.8242910000000000 -2.6532650000000002
-0.1442940000000000 -2.8830369999999998 1.3155490000000001

Re₁₅

-0.9189060000000000 2.2262860000000000 0.5264850000000000
-1.0359609999999999 -3.0537130000000001 0.4752720000000000
-1.0075400000000001 -0.4996660000000000 0.4823830000000000
1.0152650000000001 -1.8171800000000000 -0.2429580000000000
1.0713600000000001 0.8728540000000000 -0.2556760000000000
-2.4469580000000000 -1.8052649999999999 -1.1751929999999999
-2.3683209999999999 0.9737770000000000 -1.2214970000000001
0.5878440000000000 -1.6423520000000000 2.2366020000000000
0.5242690000000000 0.9496210000000000 2.2142279999999999
-0.4698710000000000 -0.5024550000000000 -1.9800549999999999
-0.4012970000000000 2.0925159999999998 -1.9932690000000000
-0.4810550000000000 -3.0425819999999999 -1.8916660000000001
2.5085340000000000 -0.4844230000000000 1.4090130000000001
2.3856359999999999 2.2690750000000000 1.4954970000000001
1.0370029999999999 3.4635060000000002 -0.0791660000000000

Rh₀₂

0.0000000000000000 -0.0000000000000000 -1.1053869999999999
0.0000000000000000 0.0000000000000000 1.1053869999999999

Rh₀₃

-1.1528849999999999 -0.6602970000000000 0.0000000000000000
-0.0588980000000000 1.4395849999999999 -0.0000000000000000
1.2117830000000001 -0.7792880000000000 -0.0000000000000000

Rh₀₄

-0.0413700000000000 1.4916330000000000 -0.4422710000000000
0.9275640000000001 0.0785150000000000 1.2495120000000000
0.6267040000000000 -1.1992870000000000 -0.7688880000000000
-1.5128980000000001 -0.3708610000000000 -0.0383530000000000

Rh₀₅

0.6216950000000000 -0.5817340000000000 1.5310470000000000
-1.5992260000000000 -0.1086120000000000 0.7073190000000000
0.0657020000000000 -1.2674900000000000 -0.9050319999999999
1.5663810000000000 0.7424130000000000 -0.2547500000000000
-0.6545510000000000 1.2154240000000001 -1.0785830000000001

Rh₀₆

0.0002090000000000 -0.0000140000000000 1.7943690000000001
-0.0002170000000000 0.0000140000000000 -1.7943709999999999
-1.7943370000000001 -0.0001480000000000 -0.0001830000000000
-0.0000740000000000 -1.7945130000000000 0.0000320000000000
1.7943439999999999 0.0001500000000000 0.0001820000000000
0.0000750000000000 1.7945120000000001 -0.0000290000000000

Rh₀₇

-2.0477949999999998 -0.3284830000000000 -0.6131250000000000
-0.1582550000000000 1.0381460000000000 -1.4345479999999999
-0.5459240000000000 -2.0926740000000001 0.0044240000000000
1.3856470000000001 -0.7754630000000000 -0.7995110000000000
-0.8934080000000000 1.2349390000000000 0.9149900000000000
1.6092439999999999 1.5021789999999999 0.3777510000000000
0.6504900000000000 -0.5786450000000000 1.5500210000000001

Rh₀₈

-1.1972069999999999 -1.1974750000000001 -1.1972130000000001
1.1972570000000000 -1.1972510000000001 -1.1975610000000001
-1.1970749999999999 1.1971050000000001 -1.1970780000000001
1.1975009999999999 1.1972100000000001 -1.1972039999999999
-1.1975640000000001 -1.1972550000000000 1.1972520000000000
1.1970470000000000 -1.1970740000000000 1.1970490000000000
-1.1972100000000001 1.1972069999999999 1.1974990000000001

1.19725100000000001 1.1975359999999999 1.1972570000000000

Rh₀₉

1.09010300000000000 1.5665929999999999 0.00275400000000000
1.66417200000000000 -0.89500800000000000 0.26722000000000000
-1.81583000000000001 -0.37521400000000000 0.45161500000000000
-0.78640300000000000 0.97379200000000000 -1.44041700000000001
-0.21246200000000000 -1.48776200000000000 -1.17638800000000000
-0.27270700000000000 -2.28338600000000001 1.29198799999999999
-1.30506900000000000 2.14193400000000000 0.81728300000000000
0.06066200000000000 0.21730400000000000 1.89508900000000000
1.57753600000000000 0.14174600000000000 -2.10914400000000001

Rh₁₀

-1.21057200000000000 -1.86031499999999999 -1.20519300000000000
1.21066300000000000 -1.86025100000000001 -1.20521400000000000
-1.27095200000000001 0.54250100000000000 -1.19308200000000000
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Rh₁₁

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-2.0853579999999998 -1.1560370000000000 1.0984280000000000

Rh₁₂

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-1.1854229999999999 -1.1877810000000000 0.0029890000000000
-1.2042770000000000 -1.2125379999999999 2.3874620000000002
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1.1881480000000000 -1.1853499999999999 -0.0024380000000000
1.2196400000000001 -1.2101290000000000 2.3819610000000000
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1.1855220000000000 1.1881560000000000 -0.0039000000000000
1.2166640000000000 1.2138599999999999 2.3804460000000001

Rh₁₃

-1.5940930000000000 -1.2146230000000000 -2.4069669999999999
-1.4435840000000000 -1.1877080000000000 -0.0193070000000000
-1.3262259999999999 -1.2068490000000001 2.3770739999999999
0.8177080000000000 -1.2152310000000000 -2.5419980000000000
0.9566280000000000 -1.1819990000000000 -0.1738700000000000
1.1009679999999999 -1.2229790000000000 2.2779590000000001
-1.5924280000000000 1.2132970000000001 -2.4086690000000002
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1.1025700000000001 1.2247809999999999 2.2761840000000002
2.9675929999999999 -0.0012770000000000 0.9845570000000000

Rh₁₄

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-2.5966819999999999 0.0438850000000000 -1.1208160000000000
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-1.3217280000000000 2.2497840000000000 -1.1407950000000000
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Rh₁₅

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Ru₀₂

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Ru_{03}

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Ru_{04}

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Ru_{05}

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0.5137710000000000 -1.6530970000000000 -0.0099260000000000
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Ru_{06}

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-1.1736439999999999 -0.6981900000000000 1.1533070000000001
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Ru_{07}

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Ru_{08}

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Ru₀₉

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Ru₁₀

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Ru₁₁

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Ru₁₂

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Ru₁₃

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Ru₁₄

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Ru₁₅

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Sc₀₂

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Sc₀₃

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Sc₀₄

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Sc₀₅

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Sc₀₆

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Sc_{07}

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Sc_{08}

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Sc_{09}

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Sc₁₀

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Sc₁₁

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Sc₁₂

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Sc₁₃

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Sc₁₄

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Sc₁₅

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Ta₀₂

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0.0000000000000000 0.0000000000000000 1.1259260000000000

Ta₀₃

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Ta₀₄

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Ta₀₅

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Ta₀₆

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Ta₀₇

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Ta₀₈

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Ta₀₉

-1.2674690000000000 -0.9430269999999999 -2.0998720000000000
-1.5584439999999999 -1.1613849999999999 0.4800760000000000

0.6965180000000000 -1.9582780000000000 -0.7186480000000000
 0.9657670000000000 -0.6805060000000001 1.6167380000000000
 -2.3155260000000002 1.0731860000000000 -0.6246050000000000
 -0.9427610000000000 1.1950520000000000 1.5879610000000000
 0.2812770000000000 0.8731030000000000 -0.9943720000000000
 1.5462570000000000 1.8090450000000000 1.1137589999999999
 2.5943809999999998 -0.2071890000000000 -0.3610370000000000

Ta₁₀

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 -2.1922299999999999 -0.4202140000000000 0.2619470000000000
 -1.6551629999999999 0.4497310000000000 -2.0835699999999999
 -0.3767620000000000 -1.6743260000000000 -1.4507960000000000
 1.5441750000000001 1.5551580000000000 0.4979370000000000
 -0.6258130000000000 0.7080790000000000 2.0388090000000001
 -0.2288670000000000 -1.9122330000000001 1.1578520000000001
 0.8766990000000000 0.7774230000000000 -1.9173279999999999
 1.9413270000000000 -1.0656930000000000 -0.3832030000000000
 1.6548650000000000 -0.4496760000000000 2.0831659999999999

Ta₁₁

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 0.4759610000000000 -2.4708310000000000 0.4340360000000000

1.5357300000000000 1.3814439999999999 -1.2964770000000001
 -0.4302010000000000 2.5098880000000001 0.1935440000000000
 1.9029940000000001 1.7008230000000000 1.2839820000000000
 0.7721300000000000 -1.1210680000000000 -1.8182419999999999
 -2.4024179999999999 0.7407540000000000 0.4466640000000000
 -1.6950440000000000 -1.5157080000000001 -0.8821900000000000
 -1.0371589999999999 0.8976890000000000 -1.8103680000000000

Ta₁₂

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 -2.1927370000000002 -0.6024180000000000 -1.1299900000000000
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 1.5610070000000000 -1.9257899999999999 0.5492050000000001
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 -0.2207930000000000 0.6187589999999999 -2.4527269999999999

Ta₁₃

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 -0.4792890000000000 0.2595630000000000 0.5306440000000000

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 0.5517760000000000 -2.6678329999999999 0.7216180000000000
 -0.4140740000000000 1.5277540000000001 -2.3367239999999998
 1.1469490000000000 -0.8162740000000001 2.5975419999999998
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Ta₁₄

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 -1.9227019999999999 -1.9273089999999999 0.6886800000000000
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0.8731139999999999 2.7816410000000000 -0.0501000000000000

Ta₁₅

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-2.6306069999999999 0.2844590000000000 -0.0378630000000000
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-1.4985269999999999 2.6566360000000000 -0.0451020000000000
1.4985269999999999 -2.6566770000000000 0.0450670000000000
-1.1171750000000000 -2.3982679999999998 0.0410550000000000
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-1.8699650000000000 -1.0510379999999999 2.1688230000000002
-0.7624069999999999 1.3482449999999999 -2.2288350000000000
1.8700070000000000 1.0510729999999999 -2.1689270000000000
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-1.8697290000000000 -1.0582769999999999 -2.1657340000000000

Tc₀₂

0.0000000000000000 0.0000000000000000 0.9711710000000000
-0.0000000000000000 0.0000000000000000 -0.9711710000000000

Tc₀₃

-0.9991900000000000 -0.7503609999999999 0.0000000000000000
-0.2056840000000000 1.3143060000000000 0.0000000000000000
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Tc_{04}

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-0.4210030000000000 1.1669510000000001 -0.7838300000000000
-0.0995950000000000 -1.4521409999999999 -0.1870910000000000
1.4301779999999999 0.2775700000000000 -0.1812770000000000

Tc_{05}

-0.3353160000000000 0.5912250000000000 1.3123009999999999
-0.3165920000000000 1.2488589999999999 -1.0621910000000001
-1.4507699999999999 -0.6699830000000000 -0.4849210000000000
0.4843280000000000 -1.5453190000000001 0.4055700000000000
1.6183500000000000 0.3752170000000000 -0.1707570000000000

Tc_{06}

-0.0341480000000000 1.7213620000000001 -0.0250920000000000
0.0341840000000000 -1.7212620000000001 0.0250880000000000
-1.6563820000000000 -0.0328300000000000 -0.0279090000000000
1.6563159999999999 0.0327650000000000 0.0278730000000000
-0.0281020000000000 -0.0330870000000000 1.7196700000000000
0.0281320000000000 0.0330510000000000 -1.7196290000000001

Tc₀₇

-1.1384030000000001 1.2586189999999999 -0.7910010000000000
-0.7661710000000000 -0.8947050000000000 -1.5651189999999999
-1.2411660000000000 0.3884220000000000 1.3768970000000000
-0.4414660000000000 -1.6944280000000000 0.5899230000000000
1.1600150000000000 1.4413760000000000 -0.4010710000000000
1.4212540000000000 -0.8764250000000000 -0.7930800000000000
1.0059370000000001 0.3771420000000000 1.5834509999999999

Tc₀₈

0.8868950000000000 0.9126020000000000 0.9893960000000001
1.3114380000000001 -1.5860920000000001 1.2139949999999999
-1.6491800000000001 0.0524360000000000 -1.0655410000000001
-0.1849860000000000 -1.8548910000000001 -0.6185860000000000
0.2599520000000000 1.4679480000000000 -1.2784249999999999
1.7241709999999999 -0.4394770000000000 -0.8314330000000000
-1.3751960000000001 1.9139839999999999 0.3938230000000000
-0.9730940000000000 -0.4665090000000000 1.1967699999999999

Tc₀₉

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1.3297810000000001 -1.4279260000000000 1.6789320000000001
-1.7426280000000001 0.0972990000000000 -0.9495380000000000

-0.2925710000000000 -1.6519779999999999 -0.3045590000000000
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1.5845720000000001 -0.2602310000000000 -0.5102800000000000
-1.1292100000000000 1.7665299999999999 0.7344280000000000
-1.0105759999999999 -0.5081760000000000 1.6332350000000000
0.1361140000000000 -0.4410030000000000 -2.5325250000000001

Tc_{10}

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-0.5656810000000000 0.6829830000000000 2.5586359999999999
-0.8610400000000000 -1.3968100000000001 1.5712480000000000
-0.4046930000000000 0.5484130000000000 -2.6194400000000000
-0.7638910000000000 -1.4789559999999999 -1.5421710000000000
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1.0804330000000000 -1.3454410000000001 0.0219170000000000
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1.4743139999999999 0.6559960000000000 1.5689569999999999
1.5711269999999999 0.5912849999999999 -1.5215740000000000

Tc_{11}

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-0.6854330000000000 -2.4330840000000000 -1.3122389999999999
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-1.3348570000000000 1.1873270000000000 1.5961730000000001
-2.4606770000000000 -0.7680070000000000 1.4163969999999999
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0.0805720000000000 -0.7321879999999999 0.5399080000000001

Tc_{12}

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1.8688790000000000 0.6432810000000000 -1.7304070000000000
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-1.4655950000000000 1.0536779999999999 2.5328420000000000
-0.4301270000000000 -2.3408259999999999 1.5751599999999999
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1.1175150000000000 -1.7741840000000000 0.0211360000000000
-0.4691690000000000 0.9169450000000000 -2.0367829999999998
-1.8515690000000000 2.0888570000000000 -0.5669520000000000
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-0.8527010000000000 -0.0937570000000000 0.2898020000000000

Tc_{13}

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-0.7024080000000000 -2.5831400000000002 0.5221340000000000
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 -2.0909190000000000 -1.3904339999999999 -1.0682870000000000
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 2.6676690000000001 -0.0000040000000000 1.5729789999999999

Tc₁₄

-0.2873560000000000 0.1636920000000000 -0.8196830000000001
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 -1.4351900000000000 2.3396029999999999 -0.6049840000000000
 0.9971790000000000 -2.3802759999999998 -0.8881360000000000
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 1.3439900000000000 -0.7955510000000000 -2.4939990000000001
 -0.0663020000000000 -2.7943829999999998 1.3861850000000000

Tc₁₅

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Ti₀₂

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-0.0000000000000000 0.0000000000000000 0.9552370000000000

Ti₀₃

-1.1967000000000001 0.1917140000000000 0.6405950000000000

-0.0166100000000000 -0.3964520000000000 -1.2451120000000000
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Ti₀₄

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-0.1241180000000000 -0.2323860000000000 1.5066870000000001

Ti₀₅

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1.9174310000000001 0.5348080000000000 -0.5771460000000000
-0.5071650000000000 1.2553270000000001 -0.5713340000000000

Ti₀₆

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-2.0424220000000002 -0.0443380000000000 -0.0444610000000000
2.0424289999999998 0.0443070000000000 0.0445410000000000
-0.0443570000000000 -0.0057970000000000 2.0428790000000001
0.0443340000000000 0.0058240000000000 -2.0429059999999999

Ti₀₇

0.0538500000000000 -0.0391740000000000 1.3505380000000000
0.0542260000000000 -0.0399590000000000 -1.3504989999999999
0.6064349999999999 2.1062850000000002 -0.0005260000000000
-1.7749320000000000 1.2416229999999999 -0.0006080000000000
-1.8880159999999999 -1.1876350000000000 0.0000810000000000
0.6950670000000000 -2.1319840000000001 0.0007160000000000
2.2533690000000002 0.0508450000000000 0.0002980000000000

Ti₀₈

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1.0611409999999999 2.1028240000000000 -0.5536110000000000
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-1.2056680000000000 0.9518080000000000 -0.6571530000000000
1.4432210000000001 -0.3510680000000000 -0.0345540000000000

Ti₀₉

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-1.7661400000000000 -1.0007360000000001 1.8619630000000000

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0.6729270000000001 -1.3564890000000001 1.1090560000000000
-0.9866580000000000 0.2933180000000000 -0.4184240000000000
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Ti₁₀

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-0.5147050000000000 0.4921140000000000 0.8122560000000000

Ti₁₁

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-2.5772260000000000 -0.3434380000000000 0.3608240000000000

Ti₁₂

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Ti₁₃

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Ti₁₄

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0.0402960000000000 -0.2642940000000000 2.6198739999999998

Ti₁₅

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-0.8922560000000000 -0.4064190000000000 -2.3545750000000001
-2.1411780000000000 -1.8716910000000000 0.0363410000000000
-2.7417009999999999 0.6232430000000000 -0.2002800000000000
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-1.7646960000000000 -0.2572780000000000 2.1286610000000001
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0.9296440000000000 0.4268050000000000 2.3422220000000000
1.0434840000000001 2.5522840000000002 0.3584030000000000
-0.1285880000000000 -2.1646100000000001 1.7725310000000001

V₀₂

0.0000000000000000 0.0000000000000000 -0.8719510000000000
-0.0000000000000000 0.0000000000000000 0.8719510000000000

V₀₃

-0.7964120000000000 -0.7814060000000000 0.0000000000000000
-0.1750210000000000 1.3292150000000000 -0.0000000000000000
0.9714340000000000 -0.5478090000000000 0.0000000000000000

V_{04}

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-0.1289080000000000 -1.0579280000000000 -0.5383850000000000
1.7276870000000000 0.3611760000000000 0.2299460000000000
-1.7276739999999999 -0.3611720000000000 -0.2299420000000000

V_{05}

-1.1544820000000000 -0.5790340000000000 -0.6501180000000000
-0.6585770000000000 1.5233570000000001 0.5007660000000000
0.6620990000000000 -1.5102960000000001 -0.4135270000000000
1.0143340000000001 0.4527250000000000 -0.9248420000000001
0.1366250000000000 0.1132480000000000 1.4877210000000001

V_{06}

-1.2325759999999999 0.8825910000000000 -0.8053790000000000
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0.6665890000000000 -0.9834440000000000 -0.7795200000000000
-1.5831040000000001 -1.1893579999999999 0.3612700000000000
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V_{07}

0.0683440000000000 0.2239910000000000 1.3751320000000000
 0.0850170000000000 0.2671230000000000 -1.3862190000000001
 0.5790400000000000 1.8354150000000000 -0.2211020000000000
 -1.8111070000000000 0.8581460000000000 0.2220810000000000
 -1.5884520000000000 -1.0686599999999999 -0.1074270000000000
 0.6919620000000000 -1.7836559999999999 -0.1102010000000000
 1.9751970000000001 -0.3323580000000000 0.2277360000000000

V_{08}

0.9781310000000000 1.6762140000000001 0.2407770000000000
 1.7362590000000000 -0.6253550000000000 0.4766730000000000
 -2.0816900000000000 -0.3043970000000000 0.1703640000000000
 -1.1289320000000000 1.2440080000000000 -0.9002100000000000
 -0.2819040000000000 -1.1567529999999999 -0.9836310000000000
 0.0920600000000000 -1.7232140000000000 1.2152069999999999
 -0.3317000000000000 0.5309770000000000 1.4113629999999999
 1.0177750000000001 0.3585200000000000 -1.6305440000000000

V_{09}

-0.6411360000000000 -0.9012559999999999 -2.0053470000000000
 1.4206610000000000 -0.8664470000000000 -0.4697730000000000
 1.1919949999999999 1.5948599999999999 -0.0195660000000000
 -1.3369759999999999 -0.6171320000000000 1.6870400000000001
 0.3402830000000000 0.7807570000000000 -2.1255500000000001
 -1.2147460000000001 0.6893930000000000 -0.2847160000000000

-0.0152490000000000 1.6387060000000000 1.5238270000000000
1.05334100000000001 -0.5079060000000000 1.46257900000000001
-0.79817300000000000 -1.8109759999999999 0.23150700000000000

V_{10}

1.81251900000000000 0.16670200000000000 0.87551700000000000
-1.78664899999999999 -0.18433100000000000 0.92406700000000000
-0.16260000000000000 1.79056200000000000 0.92107000000000001
0.18790900000000000 -1.80883299999999999 0.87828700000000000
1.38042000000000000 1.16274499999999999 -0.90702500000000000
1.14060199999999999 -1.38352600000000000 -0.93088100000000000
-1.16605500000000001 1.40154800000000000 -0.86874400000000000
-1.40493700000000001 -1.14438200000000000 -0.89249400000000000
0.03097200000000000 -0.02192800000000000 2.27799899999999999
-0.03218000000000000 0.02144400000000000 -2.27779599999999999

V_{11}

0.66921400000000000 0.34424400000000000 -0.43073200000000000
2.55204299999999998 0.25137500000000000 1.27026200000000000
-1.89816000000000001 -0.48888300000000000 -1.27901000000000000
-1.25889999999999999 1.90627300000000001 -0.65404800000000000
-0.48341500000000000 -1.74699000000000000 0.31592800000000000
0.29668300000000000 -1.43500500000000001 -1.81083400000000001
2.08073599999999999 -1.43870300000000001 0.73027100000000000
0.17754100000000000 -0.27423000000000000 2.11061299999999999

0.3367870000000000 1.7308079999999999 1.4517760000000000
-1.7800380000000000 0.5321350000000000 0.8741260000000000
-0.6924900000000000 0.6189760000000000 -2.5783499999999999

V_{12}

0.2109590000000000 0.7033390000000000 0.0139520000000000
0.2125110000000000 1.1275180000000000 2.2854040000000002
0.0221860000000000 -0.8936980000000000 2.1068479999999998
-0.2466280000000000 1.2950940000000000 -2.1527229999999999
0.4318310000000000 -1.1449460000000000 -1.9704770000000000
1.4782990000000000 -1.7381740000000001 0.2348980000000000
-1.5761860000000001 2.0433780000000001 0.2390590000000000
-1.0026740000000001 -1.6495359999999999 0.0011280000000000
2.3014310000000000 -0.0813920000000000 1.1366680000000000
2.0711580000000001 0.0345650000000000 -1.4460839999999999
-2.0970510000000000 0.2540220000000000 1.0814680000000001
-1.8058380000000001 0.0498280000000000 -1.5301419999999999

V_{13}

-1.0355150000000000 0.3615330000000000 1.9158670000000000
-1.1511849999999999 0.6604449999999999 -2.0039009999999999
-1.1257720000000000 1.8719610000000000 -0.3060240000000000
0.1215740000000000 -0.5121050000000000 -0.3858590000000000
1.1820560000000000 1.5522689999999999 1.0332690000000000
-2.6126190000000000 -0.0901150000000000 0.0411040000000000

-1.9663470000000001 -1.6699189999999999 -0.9884870000000000
 1.2247900000000000 -0.6738960000000001 2.1700189999999999
 1.4491140000000000 0.1592340000000000 -2.3445990000000001
 2.4487340000000000 0.2202720000000000 0.0415680000000000
 1.0914809999999999 1.8964669999999999 -1.4319379999999999
 1.4521620000000000 -2.1034350000000002 0.8150560000000000
 -1.0784730000000000 -1.6727120000000000 1.4439240000000000

V_{14}

0.0468860000000000 -0.3109340000000000 -0.2448370000000000
 0.3912200000000000 -2.3626700000000000 0.5292960000000000
 -1.3222080000000000 1.0111730000000001 1.5873029999999999
 0.9842830000000000 1.3882080000000001 1.5490750000000000
 2.3926599999999998 -0.6549350000000000 0.9678130000000000
 -0.3609370000000000 2.1618179999999998 -0.4641150000000000
 -2.4573309999999999 0.7425380000000000 -0.3542880000000000
 1.0147189999999999 1.0005340000000000 -2.2139720000000001
 2.0805490000000000 1.4865800000000000 -0.4274570000000000
 -1.3488000000000000 0.6141270000000000 -2.1759529999999998
 0.2054190000000000 -1.0388180000000000 2.2045569999999999
 -1.8237589999999999 -1.6621660000000000 -0.9667910000000000
 2.2254269999999998 -0.9996429999999999 -1.0337190000000001
 -2.0281270000000000 -1.3758130000000000 1.0430850000000000

V_{15}

0.0001970000000000 -0.0001950000000000 -0.0001100000000000
 2.3588510000000000 -0.1679610000000000 0.0087500000000000
 -2.3585210000000000 0.1685350000000000 -0.0095430000000000
 1.0746849999999999 2.2414399999999999 -0.0103060000000000
 -1.2866690000000000 2.4043130000000000 -0.0205390000000000
 1.2848430000000000 -2.4051900000000000 0.0193450000000000
 -1.0721470000000000 -2.2430949999999998 0.0098610000000000
 -0.6305030000000000 1.2635149999999999 1.8934070000000000
 1.6822070000000000 0.9997470000000000 1.9009600000000000
 0.6143680000000000 -1.2374120000000000 1.9152020000000000
 -1.6954009999999999 -0.9739960000000000 1.9029160000000000
 -0.6166160000000000 1.2390410000000000 -1.9133089999999999
 1.6967230000000000 0.9749560000000000 -1.9008689999999999
 0.6293990000000000 -1.2642070000000000 -1.8940239999999999
 -1.6814150000000000 -0.9994910000000000 -1.9017420000000000

W_{02}

-0.0000000000000000 -0.0000000000000000 -1.0068410000000000
 -0.0000000000000000 -0.0000000000000000 1.0068410000000000

W_{03}

-1.0532740000000000 -0.7922030000000000 0.0000000000000000
 -0.1594370000000000 1.3082650000000000 -0.0000000000000000
 1.2127110000000000 -0.5160630000000000 -0.0000000000000000

W_{04}

-1.3420930000000000 -0.5826300000000000 -0.2622050000000000
-0.0622880000000000 0.4382730000000000 1.4184820000000000
0.9489210000000000 -1.0637479999999999 -0.4197420000000000
0.4554600000000000 1.2081050000000000 -0.7365350000000001

W_{05}

-0.1658740000000000 1.5944520000000000 0.1267940000000000
1.6607080000000001 0.4002300000000000 -0.7002290000000000
-1.6956860000000000 -0.0626280000000000 0.7274150000000000
-0.3582370000000000 -0.9280730000000000 -1.1463699999999999
0.5590900000000000 -1.0039810000000000 0.9923890000000000

W_{06}

-1.7777130000000001 0.0519130000000000 -0.4909900000000000
0.1713210000000000 -1.7378659999999999 0.0685450000000000
0.2511480000000000 -0.0538140000000000 -1.7288720000000000
-0.7097530000000000 0.0818560000000000 1.5924080000000000
0.3172550000000000 1.7188120000000000 -0.0234620000000000
1.7477419999999999 -0.0609000000000000 0.5823700000000001

W_{07}

-0.1433590000000000 2.3361770000000002 0.0463940000000000
-1.4142630000000000 0.5154810000000000 -0.8749150000000000

1.4185890000000001 0.6866020000000000 -0.7401140000000000
0.1502530000000000 -1.3283510000000001 -1.4710070000000000
-0.1114210000000000 0.5452050000000001 1.6498070000000000
-1.1983760000000001 -1.4529500000000000 0.6355310000000000
1.2985770000000001 -1.3021650000000000 0.7543020000000000

W_{08}

0.7829830000000000 0.7117100000000000 -1.1301820000000000
-1.5372749999999999 -0.1484300000000000 -1.5096229999999999
-0.9200590000000000 -1.2123109999999999 1.0061709999999999
-0.1536840000000000 -2.0526279999999999 -1.2026380000000001
0.6086060000000000 2.4512139999999998 0.5784859999999999
1.7081090000000001 -1.2746290000000000 0.0486360000000000
0.9635260000000000 0.3555350000000000 1.6854410000000000
-1.4522070000000000 1.1695390000000001 0.5237080000000000

W_{09}

-1.2093460000000000 -0.6984730000000000 -2.1729880000000001
1.2095030000000000 -0.6980630000000000 -2.1730580000000002
-0.0002250000000000 1.3963060000000000 -2.1728660000000000
-1.3025460000000000 0.7514840000000000 -0.0000750000000000
1.3023250000000000 0.7518040000000000 -0.0000960000000000
0.0002760000000000 -1.5043560000000000 0.0001750000000000
-1.2093220000000000 -0.6979649999999999 2.1731639999999999
1.2095350000000000 -0.6975560000000000 2.1732049999999998

-0.0001980000000000 1.3968190000000000 2.1725420000000000

W_{10}

-2.6607430000000001 0.4121790000000000 -1.3279049999999999
-0.5907670000000000 -0.8889390000000000 -1.6313789999999999
-1.7636710000000000 -0.3548800000000000 0.8200900000000000
-0.6837460000000000 1.7178279999999999 -0.7003549999999999
1.3402170000000000 0.6812300000000000 -1.7487290000000000
-0.3148050000000000 1.4455840000000000 1.7470720000000000
2.0015160000000001 -1.1949069999999999 -0.2073550000000000
-0.1928320000000000 -2.2612260000000002 0.4097870000000000
0.9445380000000000 -0.7148440000000000 2.0063049999999998
1.9202950000000001 1.1579759999999999 0.6324689999999999

W_{11}

-1.4984080000000000 -1.0425080000000000 -1.1629940000000001
-0.5268520000000000 1.7650580000000000 1.1322920000000001
0.8811720000000000 -1.4264340000000000 -2.2789039999999998
-0.2962690000000000 -0.8009180000000000 1.0887270000000000
0.3020150000000000 0.7818680000000000 -1.1010979999999999
1.5120860000000000 0.5606560000000000 2.3111090000000001
0.3724260000000000 -2.7738550000000002 -0.4148360000000000
-2.1451850000000001 1.5600000000000001 -0.9512370000000000
2.0322469999999999 -0.7449280000000000 0.0164700000000000
-2.6559450000000000 0.2100100000000000 0.9192740000000000

2.0227130000000000 1.9110529999999999 0.4411970000000000

W_{12}

-1.2896200000000000 -0.6538840000000000 -2.2895569999999998
-0.6630050000000000 -1.7433040000000000 0.0526870000000000
-1.3122620000000000 -0.9720590000000000 2.5253519999999998
0.9169050000000000 -1.7404630000000001 -2.0016750000000001
1.5432969999999999 -0.2876250000000000 0.0343600000000000
0.9286500000000000 -1.7511239999999999 2.1685889999999999
-0.9902890000000000 1.7102360000000001 -2.2033540000000000
-0.9891290000000000 0.7410080000000000 0.1992100000000000
-1.3515250000000001 1.4158420000000000 2.6014460000000001
1.2280000000000000 0.5676610000000000 -2.6934550000000002
1.0723090000000000 2.0161449999999999 -0.7316130000000000
0.9066689999999999 0.6975660000000000 2.3380109999999998

W_{13}

-1.2764200000000001 2.5201889999999998 -0.4023070000000000
-2.2635299999999998 0.1112680000000000 -0.1026360000000000
-1.9334990000000001 -2.3579590000000001 0.0289920000000000
-1.4735670000000001 1.0349120000000001 -2.3613849999999998
0.0372700000000000 -0.8591020000000000 -1.0496080000000001
0.2575540000000000 -2.1488890000000000 1.2891170000000001
1.0151239999999999 2.7898900000000002 0.0668600000000000
0.0036090000000000 0.5187060000000000 1.2537910000000001

-1.9545079999999999 -1.1271800000000001 2.0665149999999999
0.7680230000000000 1.7213520000000000 -2.1422279999999998
2.1860650000000001 0.5350370000000000 -0.2850860000000000
2.3073920000000001 -0.7617080000000001 1.8425100000000001
2.3264849999999999 -1.9765170000000001 -0.2045340000000000

W_{14}

2.0639889999999999 -1.9302610000000000 -1.4078310000000001
0.9563490000000000 -1.5000430000000000 1.2419600000000000
1.2636430000000001 0.8245520000000000 -1.6836340000000001
0.0060710000000000 -1.1713860000000000 -2.5130430000000001
2.9276010000000001 -0.2848280000000000 0.1015970000000000
-0.9435090000000000 -0.2151470000000000 -0.2493870000000000
1.0008900000000001 1.1940340000000000 0.8725880000000000
-1.3661049999999999 2.2399300000000002 0.7154600000000000
0.6853120000000000 3.2016060000000000 -0.6623710000000000
-0.1796810000000000 -2.7272430000000001 -0.5097650000000000
-1.0243390000000001 1.9905090000000001 -1.7729600000000001
-0.8432250000000000 0.0029700000000000 2.7062640000000000
-1.6766930000000000 -1.9454309999999999 1.7980360000000000
-2.8703029999999998 0.3207390000000000 1.3630869999999999

W_{15}

2.1416430000000002 -2.3743330000000000 0.6291090000000000
0.8092130000000000 -0.1501180000000000 0.0728080000000000

0.2243670000000000 -2.9174060000000002 -0.5751470000000000
 -1.6220710000000000 2.4833409999999998 1.3301840000000000
 -1.3272740000000001 1.0233479999999999 -1.1218360000000001
 0.8429000000000000 1.1121490000000001 -2.7676069999999999
 -0.0661350000000000 -1.1640839999999999 -2.4501089999999999
 -1.6379640000000000 -1.3066840000000000 0.2634400000000000
 -3.1687789999999998 0.6827210000000000 0.5759460000000000
 2.2689750000000002 -1.1360420000000000 -1.6619500000000000
 -1.8767760000000000 0.1714800000000000 2.6820909999999998
 2.6748080000000001 1.3541589999999999 -1.3496539999999999
 0.0190880000000000 -1.4228829999999999 2.0772590000000002
 0.2267910000000000 1.3124320000000000 2.4343180000000002
 0.4912140000000000 2.3319200000000002 -0.1388520000000000

Y_{02}

-0.0000000000000000 -0.0000000000000000 -1.4499670000000000
 -0.0000000000000000 -0.0000000000000000 1.4499670000000000

Y_{03}

-1.4555700000000000 -1.0944910000000001 0.0000000000000000
 -0.2199680000000000 1.8077470000000000 0.0000000000000000
 1.6755380000000000 -0.7132560000000000 -0.0000000000000000

Y_{04}

-1.0935779999999999 0.7467610000000000 1.3675459999999999
0.9741770000000000 1.4825219999999999 -0.9140980000000000
-1.1731659999999999 -0.9632990000000000 -1.2952180000000000
1.2925660000000000 -1.2659840000000000 0.8417700000000000

Y_{05}

-1.1082160000000000 -0.5190399999999999 -1.3398150000000000
-0.5966660000000000 1.1197969999999999 1.2967340000000000
1.7193110000000000 -0.6066250000000000 0.0430160000000000
0.7775460000000000 2.1152479999999998 -1.5586139999999999
-0.7919760000000000 -2.1093790000000000 1.5586780000000000

Y_{06}

-1.5265800000000000 1.6779729999999999 -0.0207100000000000
-1.0027779999999999 -0.9353790000000000 -1.9003080000000000
-1.4131840000000000 -1.2685990000000000 1.3696090000000000
1.4131590000000000 1.2685960000000000 -1.3696470000000000
1.5265720000000000 -1.6780120000000000 0.0206860000000000
1.0028120000000000 0.9354240000000000 1.9003710000000000

Y_{07}

-0.6976660000000000 1.2566430000000000 -0.5521779999999999
-1.8227780000000000 -1.6512890000000000 -1.4559940000000000
-2.2568290000000000 -0.5151300000000000 1.6758420000000000

0.6968380000000000 -1.2567510000000000 0.5528400000000000
2.5219450000000001 1.3390709999999999 -0.1359650000000000
1.1307060000000000 -0.5053640000000000 -2.5764529999999999
0.4277840000000000 1.3328210000000000 2.4919039999999999

Y_{08}

1.3077710000000000 1.4474089999999999 1.3867659999999999
1.7997410000000000 -2.0485699999999998 1.7289209999999999
-1.6825990000000000 -0.0110700000000000 -1.7015380000000000
-0.4431530000000000 -3.1446760000000000 -0.5876400000000001
0.5124730000000000 2.5568550000000001 -1.7052069999999999
1.4185730000000001 -0.5724980000000000 -1.1042799999999999
-1.8211020000000000 2.4550090000000000 0.6033720000000000
-1.0917040000000000 -0.6824600000000000 1.3796060000000001

Y_{09}

-1.4301800000000000 2.1481789999999998 -0.0343360000000000
-2.5403319999999998 -1.1780200000000001 0.5054630000000000
-2.1442180000000000 0.1457040000000000 -2.5432049999999999
0.1484800000000000 -1.6734899999999999 -1.0644739999999999
0.3550280000000000 -2.9672600000000000 1.7817750000000001
1.8084960000000001 2.6610279999999999 0.8576510000000001
0.0346720000000000 0.1432710000000000 1.9838670000000000
1.0229159999999999 1.2555130000000001 -2.0097130000000001
2.7451390000000000 -0.5349270000000000 0.5229720000000000

Y_{10}

2.0160939999999998 0.6006410000000000 1.4726129999999999
1.1556059999999999 2.4989680000000001 -0.9537480000000000
0.5647500000000000 -0.6530780000000000 -1.6552650000000000
-0.9668870000000001 2.1373709999999999 1.7282040000000001
-0.6357680000000000 -1.1086149999999999 1.3608769999999999
-3.6795000000000000 -0.0659520000000000 1.2960380000000000
-1.9425060000000001 1.2032369999999999 -1.1705479999999999
-2.4464690000000000 -2.1401159999999999 -1.0156920000000000
3.6790479999999999 0.0673430000000000 -1.2959309999999999
2.2556319999999999 -2.5397989999999999 0.2334520000000000

Y_{11}

2.5634169999999998 -1.0837159999999999 0.2305690000000000
-0.3436240000000000 -0.2265450000000000 0.0952560000000000
-0.1459110000000000 -2.9808059999999998 -1.0681380000000000
-0.1886190000000000 2.6372209999999998 -0.8971370000000000
-2.4480189999999999 0.1309660000000000 -2.0077410000000002
-2.7801939999999998 -1.8205469999999999 0.7744529999999999
3.1472080000000000 2.0570909999999998 -0.8893400000000000
1.0634360000000000 0.0035140000000000 -2.5841180000000001
-2.2322250000000001 1.4047570000000000 1.7492019999999999
1.3153379999999999 1.5533699999999999 1.9135450000000001
0.0491910000000000 -1.6753089999999999 2.6834500000000001

Y_{12}

2.05206100000000001 -0.16373700000000000 2.22659200000000001
-0.25193500000000000 -0.21287300000000000 0.12514400000000000
-0.21775500000000000 2.31320900000000001 1.95129599999999999
0.83483900000000000 -2.95858499999999998 0.75683100000000000
1.86499799999999999 1.59383600000000000 -0.93496600000000000
1.01356899999999999 -1.62936799999999999 -2.34896500000000002
-1.25743100000000000 0.84792100000000000 -2.62929099999999998
-2.26770499999999999 -2.16423299999999999 -0.86022000000000000
-1.44990400000000001 -1.02001000000000001 2.72602199999999999
-2.93405000000000000 1.15974000000000000 0.29605900000000000
-1.03853900000000001 3.68212900000000002 -0.94392800000000000
3.65185100000000002 -1.44803200000000000 -0.36457200000000000

Y_{13}

0.00011700000000000 -0.00059500000000000 -0.00073500000000000
0.00014900000000000 1.73515400000000001 2.80655799999999999
0.00026500000000000 -1.73496999999999999 2.80635099999999998
-0.00014200000000000 1.73465900000000000 -2.80613199999999998
-0.00009100000000000 -1.73471599999999999 -2.80589800000000000
1.73492899999999999 2.80660899999999999 -0.00001400000000000
1.73471000000000000 -2.80618100000000000 -0.00015700000000000
-1.73492000000000000 2.80647899999999999 -0.00006000000000000
-1.73463600000000001 -2.80620400000000001 -0.00026400000000000

2.8064619999999998 -0.0001040000000000 1.7349859999999999
2.8060049999999999 -0.0001440000000000 -1.7345800000000000
-2.8067250000000001 0.0000580000000000 1.7349049999999999
-2.8061219999999998 -0.0000440000000000 -1.7349610000000000

Y_{14}

-2.3128500000000001 -1.6540360000000001 -2.4159130000000002
-3.0060600000000002 -0.7814219999999999 0.7949060000000000
-0.7509730000000000 -1.6254519999999999 3.3178660000000000
0.9562980000000000 -1.0883000000000000 -2.1178149999999998
0.1600170000000000 -0.0941310000000000 0.9503290000000000
2.2873269999999999 -2.1524299999999998 1.6501120000000000
-0.7578480000000000 0.4495310000000000 -4.5069780000000002
-1.5527670000000000 1.4414819999999999 -1.4427449999999999
-1.5617980000000000 1.7240620000000000 2.6750910000000001
1.4609700000000001 2.1574759999999999 -2.6711239999999998
0.7921700000000000 3.0589439999999999 0.5381580000000000
1.8312980000000001 0.9864000000000001 3.1436880000000000
3.1256219999999999 0.7074640000000000 -0.0849650000000000
-0.6714100000000000 -3.1295880000000000 0.1693880000000000

Y_{15}

0.8230110000000000 2.0646749999999998 -2.2332250000000000
-0.4783170000000000 -0.0332700000000000 -0.2384550000000000
0.5545810000000000 -3.3857800000000000 -1.1505609999999999

3.8996789999999999 1.2927940000000000 -0.3732000000000000
 2.3764200000000000 -1.3572599999999999 0.6132420000000000
 -1.8919809999999999 2.7378049999999998 0.1117120000000000
 -2.5174390000000000 -2.4442889999999999 -0.5289000000000000
 1.3188960000000000 2.4538240000000000 0.9649040000000000
 -0.7596760000000000 1.4105040000000000 3.1652339999999999
 -3.3131620000000000 0.0127360000000000 1.5444970000000000
 2.4745640000000000 0.4207770000000000 3.1633640000000001
 -0.3474400000000000 -1.8658030000000001 2.3875440000000001
 2.3812780000000000 -0.8202870000000000 -2.5461830000000001
 -0.8963630000000000 -0.9887000000000000 -3.1537020000000000
 -3.6240500000000000 0.5022740000000000 -1.7262690000000001

Zn_{02}

-0.0000000000000000 -0.0000000000000000 -1.5895560000000000
 -0.0000000000000000 0.0000000000000000 1.5895560000000000

Zn_{03}

-1.4463580000000000 -0.8334170000000000 0.0000000000000000
 0.0028280000000000 1.6718260000000000 0.0000000000000000
 1.4435290000000001 -0.8384090000000000 0.0000000000000000

Zn_{04}

-1.5637090000000000 -0.4954930000000000 0.2467330000000000

0.2717810000000000 1.4074260000000001 0.8347430000000000
1.0433440000000000 -1.1721910000000000 0.5381130000000000
0.2485840000000000 0.2602580000000000 -1.6195900000000001

Zn_{05}

-0.4360490000000000 0.6707440000000000 1.3118570000000001
-0.0147460000000000 0.8019190000000000 -1.3084789999999999
-2.3911150000000001 -0.7433920000000001 -0.4154210000000000
0.4534730000000000 -1.4614900000000000 0.0005490000000000
2.3884370000000001 0.7322180000000000 0.4114940000000000

Zn_{06}

-1.0147260000000000 0.7424760000000000 0.2741340000000000
0.6274800000000000 1.5345350000000000 -1.9422600000000001
-1.1098939999999999 -0.6301610000000000 -2.2478669999999998
0.9918490000000000 -0.7786050000000000 -0.2801200000000000
-0.6084030000000000 -1.5280009999999999 1.9944800000000000
1.1136950000000001 0.6597540000000000 2.2016309999999999

Zn_{07}

-1.1478390000000001 1.4846239999999999 -1.9487220000000001
-1.0027759999999999 -1.2385759999999999 -2.1868880000000002
-1.2779959999999999 -0.0712090000000000 2.3763040000000002
0.9658900000000000 -1.5889130000000000 1.9792799999999999

0.0265310000000000 0.0053930000000000 -0.0031490000000000
1.2662070000000001 0.2744950000000000 -2.3969170000000002
1.1699820000000001 1.1341859999999999 2.1800899999999999

Zn_{08}

-0.3452320000000000 -1.3268200000000001 -2.9402860000000000
-0.3074780000000000 -1.8676450000000000 -0.3521810000000000
-1.4653590000000001 -1.4271440000000000 1.9973390000000000
1.2195339999999999 -1.8116209999999999 1.8211160000000000
0.0397640000000000 0.9573910000000000 -1.6715819999999999
-0.9773650000000000 2.6808030000000000 0.0764170000000000
0.1304210000000000 0.5191500000000000 1.1479729999999999
1.7057130000000000 2.2758870000000000 -0.0787960000000000

Zn_{09}

-1.3851389999999999 -0.7999270000000001 -1.4259839999999999
1.3852120000000001 -0.7999160000000000 -1.4259260000000000
0.0000400000000000 1.6003190000000000 -1.4251750000000001
-2.2188430000000001 1.2801530000000001 -0.0000910000000000
2.2188430000000001 1.2801469999999999 0.0000290000000000
0.0000140000000000 -2.5614509999999999 0.0000570000000000
-1.3852169999999999 -0.7998600000000000 1.4259520000000001
1.3851320000000000 -0.7998499999999999 1.4260349999999999
-0.0000410000000000 1.6003840000000000 1.4251020000000001

Zn₁₀

-0.7769830000000000 -0.5256760000000000 -2.0834120000000000
-1.5339039999999999 -2.1375190000000002 -0.1582730000000000
0.0284410000000000 -0.9584950000000000 1.6323500000000000
1.0395270000000001 -1.9364640000000000 -0.6185670000000000
2.4778750000000000 -0.3034040000000000 0.8464170000000000
-0.5335530000000001 2.0383540000000000 -1.5835269999999999
-1.8230729999999999 0.4839440000000000 0.1369650000000000
-1.1645880000000000 1.1517450000000000 2.5529950000000001
1.6417170000000001 0.5774870000000000 -1.4791740000000000
0.6445419999999999 1.6100300000000001 0.7542250000000000

Zn₁₁

1.0196799999999999 -1.8298840000000001 2.9888620000000001
-1.0060780000000000 1.8334180000000000 -2.9903050000000002
1.0271260000000000 0.6297370000000000 1.6849240000000001
1.2214670000000001 -1.6589730000000000 0.2151970000000000
0.2839750000000000 1.9845379999999999 -0.5240140000000000
0.4777130000000000 -0.3037250000000000 -1.9927400000000000
-1.1350350000000000 -1.0049440000000001 1.4151870000000000
-1.8809680000000000 0.3512410000000000 -0.7970970000000001
-1.4055390000000001 1.6144890000000001 1.4625400000000000
-1.0849420000000001 -2.1532410000000000 -0.9548250000000000
2.4826009999999998 0.5373470000000000 -0.5077290000000000

Zn₁₂

-2.0769929999999999 0.0618450000000000 -1.5706629999999999
0.2687350000000000 -1.0008830000000000 -1.9799270000000000
-0.9331260000000000 -1.0430759999999999 0.4698090000000000
-0.0244040000000000 1.3689610000000001 -0.6781130000000000
2.1790590000000001 0.8758690000000000 -1.9832099999999999
-0.0620850000000000 0.9852420000000000 1.9477750000000000
2.6373600000000001 -1.2607560000000000 -0.6164840000000000
0.7226650000000000 -2.9367980000000000 -0.1742690000000000
-3.8025080000000000 1.2575320000000001 -0.0238960000000000
1.3693020000000000 -1.2063120000000001 1.7659860000000001
-2.5149889999999999 1.8302069999999999 2.1613400000000000
2.2369840000000001 1.0681670000000001 0.6816550000000000

Zn₁₃

2.7258979999999999 -0.4760330000000000 0.6647999999999999
0.9035590000000000 1.2677579999999999 1.4361830000000000
1.8444270000000000 -2.8270659999999999 -0.1546110000000000
-1.3163620000000000 2.0114950000000000 2.6142439999999998
-0.7401880000000000 0.7922540000000000 -0.7353430000000000
0.4532150000000000 0.2942430000000000 -2.9659330000000002
-0.2381900000000000 -1.7747800000000000 -1.4438240000000000
-2.1366890000000001 -1.2805780000000000 0.2043720000000000
-2.6310199999999999 2.4679899999999999 0.2769170000000000
2.3718659999999998 -1.0534360000000000 -1.9514530000000001
-3.2560470000000001 0.4114740000000000 1.8581719999999999

1.7851330000000001 1.4129640000000001 -0.9826279999999999
0.2343950000000000 -1.2462880000000001 1.1791039999999999

Zn₁₄

0.6953230000000000 1.9207540000000001 0.2566560000000000
-0.9699160000000000 0.3182160000000000 -1.1444160000000001
0.0779630000000000 -2.2499120000000001 -0.9181070000000000
1.3268160000000000 1.1586259999999999 -2.1411880000000001
2.4670150000000000 -2.2065820000000000 0.3096670000000000
-2.9450829999999999 1.7952390000000000 -0.2333200000000000
-1.7668140000000001 -1.4753400000000001 0.6442050000000000
2.7467590000000000 0.3718630000000000 -0.0707920000000000
-1.2744860000000000 2.4779810000000002 1.8700969999999999
-2.8765269999999998 0.3955410000000000 2.0866920000000002
-0.5192369999999999 0.3173640000000000 3.4119359999999999
0.6607740000000000 -0.5992390000000000 1.2400750000000000
2.3175620000000001 -1.3557900000000001 -2.1020460000000001
0.0598490000000000 -0.8687200000000000 -3.2094589999999998

Zn₁₅

-1.8632409999999999 -0.4930260000000000 -1.3380399999999999
-1.7820540000000000 1.1634570000000000 2.2381280000000001
0.3850180000000000 -1.7548850000000000 -1.5285380000000000
-0.5294110000000000 -1.0588139999999999 0.9796450000000000
0.4765570000000000 0.9742040000000000 -1.0946240000000000

2.45547100000000002 -0.18409600000000000 -2.3543069999999999
 0.77491200000000000 1.17162300000000001 1.5185709999999999
 2.87206800000000001 -1.95376900000000001 -0.50876400000000000
 0.97264800000000000 -3.1743749999999999 0.75155100000000000
 -3.17025500000000000 1.49623900000000001 -0.07963400000000000
 2.09866999999999998 -1.11022200000000000 1.95939100000000001
 -3.11703399999999999 -0.80333700000000000 1.10097800000000000
 2.97120300000000000 0.68000300000000000 0.09084900000000000
 -0.89275600000000000 2.91189099999999998 0.34003200000000000
 -1.65179900000000000 2.13510499999999998 -2.07523299999999999

Zr₀₂

0.00000000000000000 -0.00000000000000000 -1.12412300000000000
 -0.00000000000000000 -0.00000000000000000 1.12412300000000000

Zr₀₃

-1.30820200000000001 -0.77073499999999999 -0.00000000000000000
 0.01871000000000000 1.51860500000000000 -0.00000000000000000
 1.28949099999999999 -0.74787000000000000 -0.00000000000000000

Zr₀₄

-1.60803300000000000 -0.44354500000000000 0.29346700000000000
 0.23299300000000000 1.44920399999999999 0.84397700000000000
 1.07808200000000000 -1.19905500000000000 0.51793500000000000

0.2969580000000000 0.1933960000000000 -1.6553789999999999

Zr₀₅

-0.4666840000000000 0.7503160000000000 1.3867400000000001
-0.0443900000000000 0.9008200000000000 -1.3748810000000000
-2.1201699999999999 -0.7353880000000000 -0.3640480000000000
0.4646850000000000 -1.5012529999999999 -0.0108450000000000
2.1665589999999999 0.5855060000000000 0.3630330000000000

Zr₀₆

1.0206139999999999 -1.5928640000000001 0.7334160000000000
2.5417320000000001 0.4165540000000000 -0.4702410000000000
-1.5155920000000001 -1.1274560000000000 0.7414670000000000
-2.2308390000000000 1.2924480000000000 -0.4560020000000000
0.2145650000000000 1.1531089999999999 0.9603670000000000
-0.0304790000000000 -0.1417910000000000 -1.5090070000000000

Zr₀₇

-0.0000880000000000 -0.0005550000000000 1.6205390000000000
0.0001960000000000 0.0005780000000000 -1.6205360000000000
0.7359100000000000 2.2666539999999999 0.0008530000000000
-1.9280430000000000 1.4007430000000001 0.0003200000000000
-1.9277020000000000 -1.4012640000000001 -0.0006550000000000
0.7365600000000000 -2.2664789999999999 -0.0007260000000000

2.3831660000000001 0.0003220000000000 0.0002050000000000

Zr₀₈

1.3618250000000001 2.2770290000000002 0.2563080000000000
1.8062130000000001 -0.5164350000000000 0.4047780000000000
-2.5270020000000000 -0.7058630000000000 0.4377820000000000
-1.0131159999999999 1.3230620000000000 -0.9571820000000000
-0.3431410000000000 -1.4682459999999999 -1.2728120000000001
-0.2907460000000000 -2.1647699999999999 1.5181910000000001
-0.4154890000000000 0.6952400000000000 1.7991050000000000
1.4214530000000001 0.5599870000000000 -2.1861720000000000

Zr₀₉

2.9192390000000001 0.3769000000000000 -0.1715800000000000
0.8583460000000001 0.8747000000000000 1.6445719999999999
-2.6129479999999998 -1.1837670000000000 -0.6820280000000000
-1.6259630000000000 1.1471300000000000 0.4953140000000000
-0.9088910000000000 -1.5195060000000000 1.6048870000000000
0.7329680000000000 1.9824390000000001 -1.1151329999999999
1.9526310000000000 -1.6841130000000000 1.4294380000000000
-1.6465170000000000 0.8778950000000000 -2.2830119999999998
0.3311320000000000 -0.8716790000000000 -0.9224590000000000

Zr₁₀

1.0315890000000001 0.4749520000000000 0.4883690000000000
 1.4544070000000000 -2.2517269999999998 -0.3435910000000000
 -0.6349390000000000 2.8851110000000002 0.8219790000000000
 0.1941510000000000 1.9940960000000001 -1.8141380000000000
 -0.4832270000000000 -0.8448810000000000 -2.0259060000000000
 -1.2854989999999999 -1.7574179999999999 0.5573050000000001
 -2.0565829999999998 0.8400640000000000 -0.3420270000000000
 2.1619500000000000 -0.1102130000000000 -2.1713819999999999
 -1.1175250000000001 0.5021510000000000 2.4088930000000000
 0.7356770000000000 -1.7321350000000000 2.4204960000000000

Zr₁₁

0.7200920000000000 -0.7208460000000000 -0.0006800000000000
 -1.7197970000000000 -2.3178440000000000 0.0001200000000000
 2.3194089999999998 1.7163539999999999 -0.0018970000000000
 -0.3586660000000000 -1.0448219999999999 -2.5742810000000000
 -0.4299790000000000 2.1431529999999999 0.8484470000000000
 0.1331230000000000 1.7643130000000000 -1.9200960000000000
 -0.1405390000000000 -2.3332000000000002 2.3795199999999999
 -2.1462800000000000 0.4363020000000000 -0.8388990000000000
 1.0528290000000000 0.3484340000000000 2.5708829999999998
 -1.7561950000000000 -0.1376260000000000 1.9245989999999999
 2.3260030000000000 0.1457840000000000 -2.3877139999999999

Zr₁₂

-0.2984170000000000 2.8525640000000001 1.1916140000000000
 0.5090550000000000 -2.4556950000000000 -0.9191470000000000
 -2.2363670000000000 1.3657100000000000 -0.4604610000000000
 0.3789270000000000 2.2432750000000001 -1.4926420000000000
 2.5493869999999998 -1.4649060000000000 0.8471580000000000
 -2.2831510000000002 -0.0923240000000000 2.1018770000000000
 2.1013790000000001 -0.0967570000000000 -1.6449250000000000
 -2.1951269999999998 -1.5765600000000000 -0.3106980000000000
 0.2060050000000000 0.0868570000000000 0.7266330000000000
 2.4248870000000000 1.8528760000000000 0.5286620000000000
 -0.6974770000000000 -0.2779910000000000 -2.4211450000000001
 -0.4590970000000000 -2.4370490000000000 1.8530759999999999

Zr₁₃

-0.0000260000000000 0.0000550000000000 0.0000000000000000
 -0.0222790000000000 1.5432630000000001 2.4229440000000002
 0.0482640000000000 -1.4962890000000000 2.4520240000000002
 -0.0484540000000000 1.4961190000000000 -2.4520510000000000
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 1.5400419999999999 2.4254769999999999 -0.0313820000000000
 1.4995440000000000 -2.4500720000000000 -0.0435150000000000
 -1.4997259999999999 2.4496899999999999 0.0432310000000000
 -1.5396930000000000 -2.4255490000000002 0.0314830000000000
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 2.4476190000000000 0.0424910000000000 -1.5036000000000000
 -2.4480400000000002 -0.0425780000000000 1.5036380000000000

-2.4273760000000002 0.0239620000000000 -1.5362560000000001

Zr₁₄

2.5202190000000000 -1.5575289999999999 -0.2804620000000000
0.2235050000000000 -1.3610709999999999 -2.3648950000000002
0.2858420000000000 -3.1469510000000001 0.0625010000000000
-2.8872860000000000 0.2732900000000000 -1.2068559999999999
2.5969500000000001 0.8649410000000000 1.3434020000000000
0.8906849999999999 2.9160270000000001 0.1455940000000000
2.1803819999999998 0.9731830000000000 -1.6130059999999999
-0.0082630000000000 -0.0095460000000000 -0.0053460000000000
1.0864940000000001 -1.4044740000000000 2.3099400000000001
-2.1642489999999999 -2.3527230000000001 -0.8953390000000000
-2.1685479999999999 -0.6859820000000000 1.5609670000000000
-0.0286190000000000 1.3581319999999999 2.5299700000000001
-1.9147369999999999 2.2145190000000001 0.5260820000000000
-0.6123760000000000 1.9181839999999999 -2.1125539999999998

Zr₁₅

-1.4518890000000000 2.6172049999999998 0.8191020000000000
-0.7094800000000000 -2.9680960000000001 0.5625250000000001
-2.2540450000000001 -0.3658180000000000 1.4410300000000000
2.1575440000000001 -2.1724399999999999 0.4204640000000000
-0.0001670000000000 0.0001460000000000 0.0003940000000000
-2.1729500000000002 -1.6764509999999999 -1.4215660000000001

-2.5529970000000000 1.1691959999999999 -1.2923380000000000
0.4109880000000000 -1.5169360000000001 2.6620860000000000
0.0319770000000000 1.3288430000000000 2.7899940000000001
-0.4263790000000000 0.0840740000000000 -3.0727250000000002
-0.0166190000000000 2.5203730000000002 -1.7890130000000000
0.6218510000000000 -2.2672520000000000 -2.0068190000000001
2.5883229999999999 0.2667180000000000 1.6902740000000001
2.2542430000000002 0.3658160000000000 -1.4410740000000000
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