Electronic Supplementary Information (ESI)

Universality in size-driven evolution towards bulk polarizability of metals

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1. Computational details and some methodological background

The calculations were performed using the gradient-corrected version of DFT with the Perdew-Burke-Ernzerhof[1] exchange-correlation functional as implemented in the NRLMOL code.[2,3] Extensive all-electron basis sets for the elements studied were utilized.[4] We considered Na, K, Al, and Zn as representatives of alkali (Na and K), s-p (Al), and transition (Zn) metals. For Na the basis set included 6 *s*-type, 4 *p*-type, and 4 *d*-type (6,4,4) orbitals; the basis sets for K, Al, and Zn were of the type (7,5,4), (6,5,4), and (7,5,5), respectively. Clusters with an odd number of electrons were treated using the spin-unrestricted formalism. The validity of this computational framework was verified against the available experimental data on polarizabilities of Na clusters.[5]

For each element and cluster size - with the exception of the case of n=146 atoms (the largest cluster size considered) - we used the corresponding most stable geometric form. These were obtained in earlier studies,[6-11] and were re-optimized with no symmetry constraints within NRLMOL. The structures of the 146-mers were obtained by removing an apex atom from the corresponding icosahedral 147-mers and optimizing the conformations of the remaining 146-mers. The analysis involved our decomposition scheme,[12] which provides for partitioning of the total dipole moment and polarizability of a system into the individual contributions of its constituent atoms.

To briefly recap the scheme, the total dipole moment $\vec{\mu}$ of a system can be represented as

$$\vec{\mu} = \sum_A \vec{\mu}^A \ , \qquad \text{(S1)}$$

where $\vec{\mu}^A$ is the dipole moment of atom *A,*

$$\vec{\mu}^A = \int_{\Omega^A} \rho(\vec{r})\vec{r}\,d\vec{r} = \int_{\Omega^A} \rho(\vec{r})\left(\vec{r} - \vec{R}^A\right) d\vec{r} + \int_{\Omega^A} \rho(\vec{r})\vec{R}^A d\vec{r} = \int_{\Omega^A} \rho(\vec{r})\left(\vec{r} - \vec{R}^A\right) d\vec{r} + q^A \vec{R}^A . \quad \text{(S2)}$$

In Eq. (S2), $\rho(\vec{r})$ is the system total charge density that also includes the charge of its nuclei, $\vec{R}^A$ is the location of the nucleus of atom *A*, and Ω^A and $q^A = \int_{\Omega^A} \rho(\vec{r})d\vec{r}$ are, respectively, the spatial volume and the charge associated with atom *A*. The decomposition of space and/or charge into atomic contributions can be accomplished using a variety of techniques. For homonuclear systems, the proximity-based Voronoi partitioning[13] is an appropriate choice. We denote the first term in the right hand side (rhs) of Eq. (S2), which is the dipole moment of atom *A* with respect to the position of its nucleus, as $\vec{\mu}^{Ap}$ and call it the local, or dipole, part of $\vec{\mu}^A$. We denote the second term in the rhs of this equation, which is the dipole moment of point charge q^A at the position of the nucleus of atom *A* with respect to the origin of the system of coordinates, as $\vec{\mu}^{Aq}$ and call it the charge-transfer part of $\vec{\mu}^A$.

The elements α_{ij} of the system total polarizability matrix are obtained as

$$\alpha_{ij} = \left.\frac{d\mu_i}{dE_j}\right|_{\vec{E}=0}, \quad \text{(S3)}$$

where μ_i and E_j (i, j = 1, 2, 3) are the x, y and z components of $\vec{\mu}$ and a uniform external electric field $\vec{E}$, respectively. Substitution of Eqs. (S1) and (S2) into Eq. (S3) leads to

$$\alpha_{ij} = \sum_A \alpha_{ij}^A = \sum_A \alpha_{ij}^{Ap} + \sum_A \alpha_{ij}^{Aq} = \alpha_{ij}^p + \alpha_{ij}^q , \quad \text{(S4)}$$

where $\alpha_{ij}^{A} = \left.\frac{d\mu_i^A}{dE_j}\right|_{\vec{E}=0}$ are the elements of the polarizability matrix of atom A; $\alpha_{ij}^{Ap} = \left.\frac{d\mu_i^{Ap}}{dE_j}\right|_{\vec{E}=0}$ and $\alpha_{ij}^{Aq} = \left.\frac{d\mu_i^{Aq}}{dE_j}\right|_{\vec{E}=0}$ are, respectively, the local, or dipole, and charge-transfer components of $\alpha_{i,j}^{A}$; and $\alpha_{ij}^{p} = \sum_A \alpha_{ij}^{Ap}$ and $\alpha_{ij}^{q} = \sum_A \alpha_{ij}^{Aq}$ are, respectively, the local, or dipole, and charge-transfer components of α_{ij}. α_{ij}^{p} represent a measure of a dielectric type of response of a system to a vanishingly small external electric field, whereas α_{ij}^{q} serve as a gauge of a metallic type of response. For neutral systems, both α_{ij}^{p} and α_{ij}^{q}, are independent of the choice of the origin of the system of coordinates.[12]

The derivatives involved in the calculation of the polarizabilities were obtained numerically using the finite difference method with field strength of 0.001 a.u. Tests have shown that the resulting polarizabilities are converged to better than 0.5%. The analysis in the main text is performed in terms of the directionally averaged (rotationally invariant) polarizability $\langle\alpha\rangle = \frac{1}{3}\sum_{ii=1}^{3}\alpha_{ii}$ and its local, or dipole, $\langle\alpha^p\rangle$ and charge-transfer $\langle\alpha^q\rangle$ components, where α_{ii} are the diagonal elements of the polarizability matrix.

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2. HOMO-LUMO gap

Figure S1 displays the HOMO-LUMO gap of the Na_n, K_n, Al_n and Zn_n clusters considered in this study as a function of their size calculated within the computational framework outlined in the Methods section. Albeit non-monotonically, the HOMO-LUMO gap decreases as the clusters grow in size.

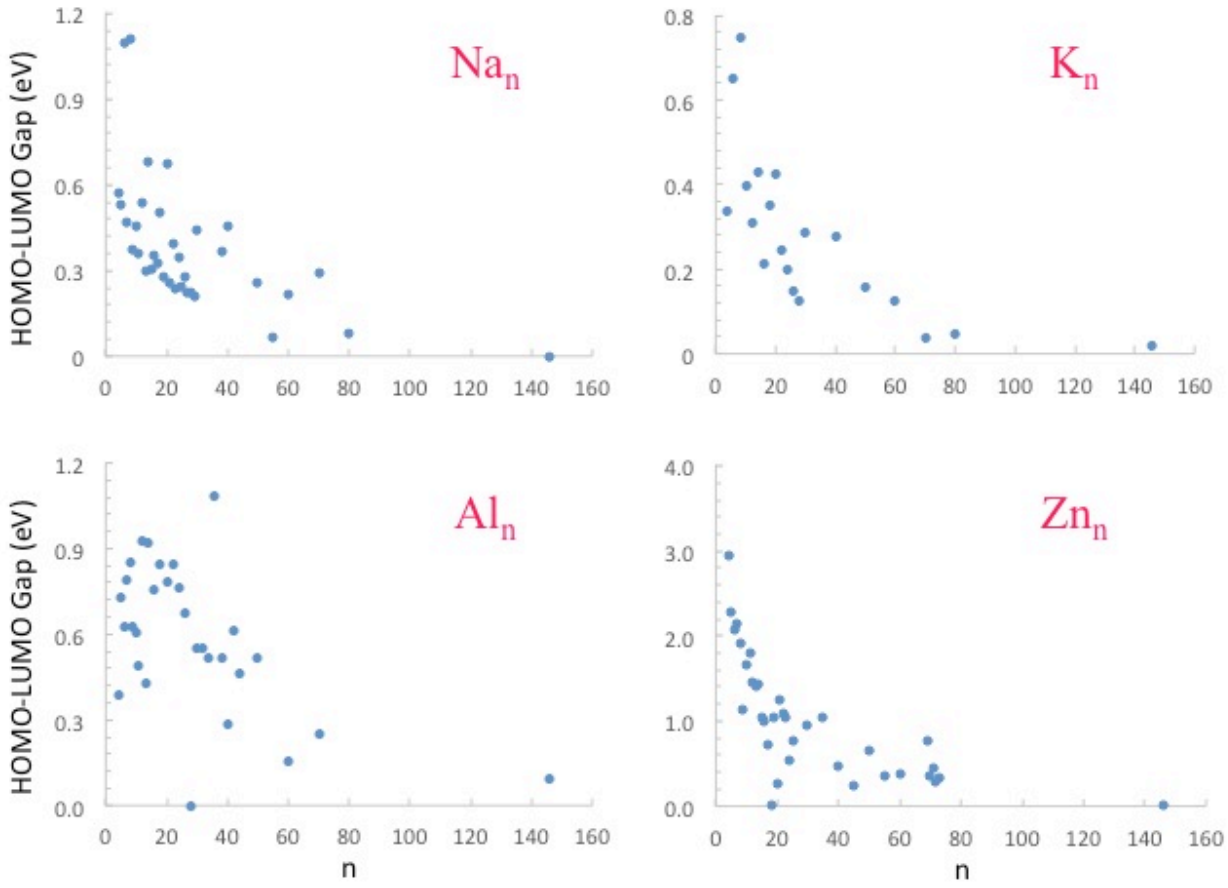

Fig. S1. DFT-calculated HOMO-LUMO gap of Na_n, K_n, Al_n and Zn_n as a function of cluster size *n*.

3. (x, y, z) coordinates (in Å) of the reoptimized cluster structures used in this study

Na3:

Na	0.00000	-1.54695	0.00000
Na	2.24688	0.77348	0.00000
Na	-2.24688	0.77348	0.00000

Na4:

Na	1.55048	0.00000	0.00000
Na	-1.55048	0.00000	0.00000
Na	0.00000	3.11683	0.00000
Na	0.00000	-3.11683	0.00000

Na5:

Na	0.00000	-1.20652	0.00000
Na	3.41848	-1.20652	0.00000
Na	-3.41848	-1.20652	0.00000
Na	1.76745	1.80979	0.00000
Na	-1.76745	1.80979	0.00000

Na6:

Na	3.04064	0.00000	-0.21052
Na	0.94986	2.88664	-0.24756
Na	0.94986	-2.88664	-0.24756
Na	-2.46913	1.77697	-0.22957
Na	-2.46913	-1.77697	-0.22957
Na	-0.00212	0.00000	1.16480

Na7:

Na	0.59102	-1.85523	2.26322
Na	0.06005	-1.45344	-1.21122
Na	2.96309	-0.14237	0.32428
Na	-2.59480	-0.99881	1.07280
Na	1.24136	1.75946	-2.05973
Na	-0.05939	1.45839	1.20712
Na	-2.20133	1.23202	-1.59648

Na8:

Na	0.72537	2.34742	0.00000
Na	0.72537	-2.34742	0.00000

Na	-2.56504	1.83094	0.00000
Na	-2.56504	-1.83094	0.00000
Na	2.56637	0.00000	1.83147
Na	2.56637	0.00000	-1.83147
Na	-0.72669	0.00000	2.35112
Na	-0.72669	0.00000	-2.35112

Na9:

Na	0.30316	2.73688	0.74796
Na	2.39075	3.08667	-2.14504
Na	0.49154	-0.29052	2.53022
Na	-0.07732	0.54875	-1.97835
Na	0.82175	-2.47972	-0.22202
Na	2.84636	0.21484	-0.03787
Na	-2.01198	-2.65011	1.92431
Na	-2.40304	0.72497	0.76648
Na	-2.36124	-1.89180	-1.58570

Na10:

Na	0.40201	2.48720	-0.68071
Na	2.19174	2.95297	2.45664
Na	-2.21926	-2.91360	-2.47693
Na	-2.34318	0.43969	-1.07517
Na	1.20858	-0.48188	2.30773
Na	-1.93279	-1.81295	1.41395
Na	2.95845	0.27635	-0.49578
Na	-1.36287	1.74087	2.10300
Na	0.75474	-2.48572	-0.53254
Na	0.34261	-0.20297	-3.02019

Na11:

Na	1.54418	-2.00975	3.53431
Na	0.14732	2.93664	-1.22275
Na	0.88996	-2.47352	-0.19410
Na	-1.64432	-0.15694	-1.26201
Na	-1.57583	-1.43389	2.03907
Na	-0.08424	-1.98304	-3.88701
Na	-0.61879	1.39152	-4.43266
Na	-1.92762	1.96398	1.62987
Na	2.01864	0.19594	-2.12772
Na	-0.17740	0.81854	4.61470
Na	1.42809	0.75049	1.30835

Na12:

Na	-3.95873	1.66336	0.12816
Na	4.45371	-0.83564	1.45684
Na	-0.27002	0.80847	-4.20568
Na	-0.63359	1.30942	-0.79042
Na	0.94846	-1.68433	1.14107
Na	-0.98795	0.87046	2.75500
Na	-2.59178	-1.54470	0.40619
Na	2.64187	0.01325	-1.53266
Na	-3.38316	0.03688	-2.88048
Na	-0.37692	-2.05699	-2.19415
Na	2.05106	-0.28615	4.26879
Na	2.10702	1.70601	1.44734

Na13:

Na	-1.45894	1.12581	-2.16945
Na	0.01054	-0.01494	3.35344
Na	0.99258	1.66496	0.30282
Na	3.41806	1.43136	2.83509
Na	-3.40491	-1.45480	2.83283
Na	-0.99332	-1.66360	0.29334
Na	4.32956	0.86578	-0.69112
Na	1.44844	-1.10079	-2.18991
Na	-4.33227	-0.85488	-0.67734
Na	2.05474	2.18147	-3.07585
Na	-2.43472	1.50311	1.15000
Na	-2.07439	-2.14700	-3.08706
Na	2.43048	-1.51932	1.13608

Na14 :

Na	-0.03345	1.83917	1.82134
Na	0.01739	-1.84381	1.80221
Na	0.01358	0.01203	-3.81812
Na	3.29904	-1.60627	-3.29051
Na	0.43348	-2.69812	-1.55919
Na	1.93230	0.34027	-0.64974
Na	-0.41914	2.70808	-1.55855
Na	-1.92706	-0.33991	-0.66532
Na	-2.88733	0.32267	2.86177
Na	-3.51983	2.64068	0.22416
Na	2.86927	-0.34003	2.88202
Na	-3.28066	1.62735	-3.29760
Na	-0.01515	-0.01363	4.95689

Na	3.51326	-2.64693	0.24962

Na15:

Na	-3.74661	-1.11647	-2.51742
Na	0.92740	-2.55128	0.39041
Na	3.93984	3.34037	-0.44516
Na	1.98697	0.54351	-0.36885
Na	0.90422	3.06885	-2.52742
Na	-1.73976	1.59948	-0.52951
Na	2.03782	-1.85260	3.64739
Na	0.72240	3.62305	1.14089
Na	-0.25965	-1.01275	-2.49673
Na	-0.34480	0.41635	2.49944
Na	-2.72202	-1.43953	0.78147
Na	3.19492	1.44549	2.70339
Na	-1.10057	-3.61804	2.93930
Na	-1.71584	-4.12748	-1.14860
Na	-2.08436	1.68098	-4.06865

Na16:

Na	-2.22577	-1.82609	2.27204
Na	-1.88476	-2.60082	-3.68860
Na	1.58884	2.69021	2.30576
Na	-2.48631	-0.29303	-1.10432
Na	0.53952	-0.49218	1.11546
Na	-1.38790	1.14733	-4.07137
Na	3.05239	-2.93684	0.31831
Na	-0.63710	5.02378	0.76424
Na	0.51817	2.44193	-1.35717
Na	-2.16074	1.94754	1.52364
Na	3.44445	0.52275	-0.11545
Na	-2.97231	3.25388	-1.52058
Na	-0.38975	-3.66188	-0.46821
Na	1.04706	-1.01437	-2.34012
Na	0.74448	-3.51139	3.07901
Na	3.20974	-0.69082	3.28736

Na17:

Na	-0.66988	2.66089	3.67242
Na	2.67351	-0.95024	-3.44933
Na	3.26596	1.22247	-0.64206
Na	0.22811	-3.44561	-2.29907
Na	-0.65837	-2.81097	1.36089

Na	2.90143	-2.40728	0.08432
Na	-1.00417	-0.64295	-4.30361
Na	0.20997	-0.19696	-0.97196
Na	0.98401	2.30179	-3.31962
Na	-2.49969	2.00724	-1.98410
Na	2.09970	-2.92524	3.53905
Na	-2.48860	0.43940	1.53835
Na	-1.02900	-1.01461	4.36393
Na	-2.83524	-1.61898	-1.37665
Na	-3.08509	3.85796	1.03247
Na	0.27739	3.16455	0.32539
Na	1.63000	0.35851	2.42954

Na18:

Na	0.29012	-0.02264	3.62752
Na	-2.13908	0.91974	-2.99058
Na	-2.77782	2.18940	2.84285
Na	2.20494	3.25724	-0.57999
Na	2.19877	-2.48623	-1.59874
Na	-4.25824	1.08620	-0.16239
Na	3.08656	-1.72338	1.77352
Na	3.50974	1.63164	2.41660
Na	1.47524	0.78813	-3.11974
Na	-1.60477	3.43425	-0.46437
Na	-0.46468	-2.01529	-3.98700
Na	4.21629	0.39938	-0.85084
Na	-2.96442	-1.18641	2.25003
Na	-2.75883	-2.11351	-1.16783
Na	-0.48012	-4.78738	-1.76983
Na	-0.13416	-3.03899	1.22060
Na	0.46180	3.35524	2.50768
Na	0.06393	0.35987	0.14715

Na19:

Na	2.42517	-2.54017	0.33379
Na	0.25241	-0.14551	2.08899
Na	-2.02768	2.29632	3.01470
Na	-2.69468	-1.65796	-2.66296
Na	0.53559	-3.43519	-2.67456
Na	0.69420	-3.32380	3.37235
Na	3.18591	1.14780	0.17573
Na	3.25119	-0.85483	-2.80727
Na	-3.55497	3.73768	0.11182
Na	0.08932	-0.35734	-4.74582

Na	-2.04985	2.01727	-2.68217
Na	-2.62561	-1.45205	3.37196
Na	3.47019	-0.68731	3.22411
Na	1.76567	2.72621	3.14105
Na	0.16483	-0.24686	-1.27997
Na	-1.29480	-3.11237	0.41776
Na	1.64325	2.46465	-2.88790
Na	-0.05663	3.20326	0.16127
Na	-3.17347	0.22021	0.32718

Na20:

Na	1.90773	2.67163	2.17185
Na	-1.98796	-3.06843	2.16572
Na	0.05495	2.84432	-3.51871
Na	3.32032	-0.26880	0.42423
Na	1.88998	-0.26979	-3.02952
Na	0.00221	-2.06071	-0.42811
Na	-1.94164	2.67323	2.11396
Na	-3.33167	-0.25053	0.34964
Na	1.91309	-3.08714	2.21110
Na	0.01341	4.68943	-0.33111
Na	-1.82243	-0.26330	-3.07314
Na	-3.44894	-0.16917	3.82056
Na	3.03288	2.81498	-1.34361
Na	0.02911	1.27180	-0.41304
Na	-3.05718	-3.27398	-1.46065
Na	-0.01331	-0.26888	2.88949
Na	3.06991	-3.29139	-1.39211
Na	0.03463	-3.29334	-3.65737
Na	-2.99071	2.83331	-1.40834
Na	3.36596	-0.18921	3.90309

Na21:

Na	4.18931	1.25869	1.23147
Na	-3.44142	-0.57755	-2.15526
Na	-4.22984	-0.74160	1.46431
Na	-2.78524	2.24296	3.12593
Na	4.41157	-2.52492	0.88751
Na	-1.14479	4.36491	0.55413
Na	1.70218	2.72451	-0.89053
Na	1.53814	-3.47744	-1.51496
Na	-1.66868	-3.58857	-3.30887
Na	1.80802	2.14771	-4.33547
Na	-1.44642	2.66630	-2.74265

Na	-1.40938	0.88827	0.22604
Na	0.89254	2.13184	2.70258
Na	-1.69514	-2.88476	0.10962
Na	1.40584	-0.74160	0.59117
Na	0.05644	-0.54580	-2.82202
Na	3.51726	-0.23359	-2.10763
Na	-4.42569	2.63455	-0.25551
Na	2.63882	-0.91093	3.83502
Na	1.08304	-3.85316	2.15224
Na	-0.99662	-0.97973	3.25293

Na22:

Na	0.28688	2.45255	3.06832
Na	3.53465	-0.28899	-1.13738
Na	0.20343	4.72293	-0.01825
Na	0.45931	-1.94603	-0.31381
Na	2.31241	2.88565	-2.62188
Na	2.40407	-3.28229	-2.81163
Na	-2.78562	2.73345	0.59733
Na	-2.69521	-0.17190	-1.74580
Na	0.29502	-0.49007	5.17877
Na	2.50890	-0.41181	2.44293
Na	3.40041	-3.56453	0.80493
Na	-4.96802	-0.25284	0.86665
Na	-1.44520	3.01242	-2.80194
Na	-1.32273	-3.25798	-2.99137
Na	0.63595	-5.36641	-0.30009
Na	-1.73141	-0.32929	2.27051
Na	-2.72375	-3.14547	0.40760
Na	0.24317	-3.28230	2.81780
Na	3.33694	2.71441	0.97781
Na	0.52629	-0.15457	-3.46904
Na	-2.77742	6.04487	-1.04481
Na	0.34109	1.30089	-0.22167

Na23:

Na	-1.35290	-0.50363	2.46414
Na	0.86268	-0.57130	5.19858
Na	0.73880	-3.44305	2.85723
Na	-2.39521	-3.36417	0.65253
Na	-4.64570	-0.39390	1.10557
Na	2.32092	2.92508	-2.69687
Na	2.81231	-0.44037	2.22864
Na	0.71109	-2.04500	-0.27453

Na	2.56588	-3.41035	-2.83488
Na	-2.46056	-0.37452	-1.50328
Na	-2.48449	2.61940	1.07610
Na	-3.16772	5.60835	-0.76032
Na	0.71043	2.40676	3.10825
Na	0.54905	1.28211	-0.17769
Na	0.82179	-5.50069	-0.24528
Na	3.74549	-3.66814	0.61350
Na	-1.15372	-3.48743	-2.79616
Na	-4.84492	2.39798	-1.41955
Na	3.67176	-0.25384	-1.34948
Na	3.53566	2.76095	0.74271
Na	0.64164	-0.21716	-3.43699
Na	-1.44536	2.90245	-2.57325
Na	0.27761	4.80799	0.00342

Na24:

Na	-1.84682	-3.02905	-2.08856
Na	-0.03481	2.93678	4.10931
Na	-0.00930	-0.01093	-2.31405
Na	-3.00364	-0.06245	-4.00432
Na	-0.06421	5.01643	0.38536
Na	0.05948	-4.99684	0.45252
Na	-3.01483	3.09781	1.55244
Na	-1.88937	-0.00327	3.32240
Na	1.83557	2.99774	-2.10362
Na	2.94412	3.17202	1.55157
Na	2.98766	0.00633	-4.00464
Na	-0.02976	1.79081	-5.26095
Na	0.04298	-2.90052	4.11685
Na	3.02649	-3.05666	1.58260
Na	1.89373	-2.97411	-2.05279
Na	-1.90090	2.95684	-2.10015
Na	-0.01874	1.66652	0.72318
Na	-3.34504	-0.04033	-0.30995
Na	-2.95265	-3.13840	1.58772
Na	0.01443	0.01660	6.33867
Na	0.01940	-1.88734	-5.22681
Na	1.89487	0.04248	3.31193
Na	3.31802	0.04885	-0.31507
Na	0.00909	-1.64955	0.73561

Na25:

Na	-1.13360	-2.79067	0.58654

Na	-1.10450	-3.16638	-3.02657
Na	-3.42721	4.05090	1.89731
Na	2.24953	-2.82956	2.07046
Na	4.84440	-3.77113	-0.82583
Na	0.99337	0.31401	0.93289
Na	2.75114	0.40254	3.82738
Na	-0.62554	-1.06095	3.77293
Na	-0.29814	3.58935	-0.30417
Na	-3.59597	1.43703	4.41170
Na	-0.30915	2.65409	3.43356
Na	-0.48335	2.95630	-3.82759
Na	4.75836	-1.10460	-3.20089
Na	-2.33293	0.79027	1.21277
Na	1.42322	-0.66787	-4.58574
Na	4.52240	-0.38630	0.39487
Na	-3.60459	2.47316	-1.51429
Na	-0.95559	0.13420	-2.01056
Na	2.47115	1.67998	-2.02558
Na	2.84078	3.18739	1.34215
Na	2.75654	-4.00635	-4.03868
Na	1.86588	-2.12719	-1.39062
Na	-3.90162	-1.38644	-1.18906
Na	-5.70733	1.27389	1.32162
Na	-4.10340	-1.82868	2.58895

Na26:

Na	-0.04875	4.83504	-1.07365
Na	-2.85596	-0.22199	-0.30795
Na	3.66154	-3.04812	-2.15303
Na	-1.82682	-3.31905	1.27468
Na	3.32062	-0.24360	3.05309
Na	-0.05959	1.52354	-1.66619
Na	-5.40800	1.78815	1.17039
Na	-5.56436	-1.87415	1.13893
Na	5.47286	1.82082	0.82331
Na	0.03960	-0.29283	1.36843
Na	1.90948	-3.31304	1.15360
Na	-3.13110	-0.26187	3.26968
Na	2.82164	-0.19633	-0.48857
Na	5.64022	-1.82341	0.76571
Na	1.87720	2.86379	1.35667
Na	0.13910	-2.17700	4.20973
Na	-3.43050	2.88085	-1.77289
Na	-0.04960	-2.59431	-1.80745
Na	-3.78356	-3.07142	-1.90210

Na	-5.78634	0.02364	-2.01501
Na	1.74539	-0.35085	-3.93457
Na	-1.97804	-0.36994	-3.82068
Na	-1.80632	2.83586	1.46730
Na	0.13689	1.53486	4.29055
Na	3.29659	2.90268	-1.98392
Na	5.63598	0.06120	-2.40153

Na27:

Na	2.20129	2.73691	3.79319
Na	-1.51459	0.43233	0.16341
Na	1.10414	-1.53881	-1.57506
Na	-0.07889	-2.25021	1.76465
Na	0.51092	-4.90848	-0.40198
Na	-1.82981	0.01753	-3.38638
Na	-3.62477	-1.57773	2.41164
Na	1.53118	0.22536	-4.71407
Na	-0.27279	3.62741	1.28559
Na	3.09508	3.85336	-0.00688
Na	-2.11261	-4.95076	2.17184
Na	3.08851	3.52628	-3.75087
Na	-1.19937	-2.82213	4.92543
Na	2.04520	0.61448	1.23909
Na	-0.38133	-3.26542	-3.99777
Na	2.08119	-1.26951	4.31235
Na	3.44433	-2.58371	0.84861
Na	-3.75305	2.28859	1.84996
Na	-2.63824	3.39309	-1.73827
Na	-2.39798	-2.84947	-0.99573
Na	-4.67933	0.14486	-0.92043
Na	-0.84331	0.76597	3.69845
Na	0.43968	5.43631	-1.98836
Na	-0.47488	3.31083	-4.73349
Na	0.78334	2.05845	-1.83830
Na	1.43273	-4.83389	3.24970
Na	4.04347	0.41828	-1.66634

Na28:

Na	2.22454	-2.28782	-3.35040
Na	3.19193	-5.45432	2.06706
Na	4.20867	-2.52842	-0.00200
Na	3.71730	1.11955	-2.37910
Na	3.65566	1.03101	1.44477
Na	4.07540	4.43697	-0.80942

Na	0.93251	-4.38368	-0.44388
Na	2.00102	-2.14592	2.75964
Na	1.30888	-0.70984	-0.46654
Na	1.89417	4.16017	-3.77785
Na	0.24759	0.90051	-3.71074
Na	1.13642	2.73246	-0.67075
Na	-0.52590	-5.08812	2.80762
Na	-1.35127	-2.27815	-2.47392
Na	1.95652	4.33998	2.23733
Na	0.29481	1.09017	2.86351
Na	-1.29151	-2.11001	1.18054
Na	-2.69957	-4.96638	-0.31354
Na	0.84111	6.12235	-0.79909
Na	-1.20423	-1.83383	4.59073
Na	-1.69725	0.87865	-0.55538
Na	-1.68185	4.02621	-2.52271
Na	-3.43531	0.73348	-3.45669
Na	-1.61355	3.82843	1.35934
Na	-4.37491	-1.54705	-0.38580
Na	-3.96430	-3.44838	2.76570
Na	-3.31067	0.60875	2.52406
Na	-4.54342	2.75452	-0.58216

Na29:

Na	0.30491	-0.03412	-2.34243
Na	3.59582	1.12241	-2.97719
Na	-3.87604	4.19649	1.57155
Na	0.07300	3.20885	-3.42667
Na	-5.46314	-1.75036	1.30673
Na	5.52828	-1.64494	2.16259
Na	-0.15574	-0.16732	4.70903
Na	2.56249	-2.66186	-3.09343
Na	-1.61610	2.45866	-0.38043
Na	5.92495	-1.55412	-1.60644
Na	3.09995	0.93926	3.09545
Na	-5.25373	1.47997	-0.43146
Na	3.00558	-0.85965	-0.09776
Na	3.75886	4.26503	2.29498
Na	-3.52201	-4.32570	-0.61122
Na	-5.35185	-1.78843	-2.42983
Na	-1.96407	-2.71397	2.54257
Na	-2.62129	-0.99056	-0.50779
Na	-3.22969	0.85616	2.65226
Na	-0.03847	3.17181	2.79504
Na	1.96208	2.71323	-0.26185

Na	-3.80471	4.31336	-2.21041
Na	3.93947	-4.19610	0.01374
Na	0.07010	-0.04317	1.32074
Na	0.21061	-3.34287	-0.38775
Na	-1.70244	-2.69383	-3.46288
Na	5.47769	1.64045	0.34533
Na	-3.02725	0.99460	-3.42789
Na	2.02651	-2.66191	2.83389

Na30:

Na	2.18951	-2.85215	2.67542
Na	2.86422	0.23353	1.07109
Na	-0.01646	-2.77822	-3.08219
Na	-0.08039	3.31243	-3.07281
Na	5.65464	1.99391	1.77631
Na	3.87985	0.06677	4.34814
Na	5.34800	0.17127	-1.52285
Na	-3.35229	3.15645	-0.75965
Na	3.76931	-1.64674	-4.26513
Na	-5.63819	1.85902	1.95635
Na	0.01757	-1.42833	0.21552
Na	-1.80213	0.26366	-2.24409
Na	1.70838	0.27892	-2.30181
Na	-3.19308	-2.94882	-0.83406
Na	2.17759	3.14191	2.93574
Na	-5.49474	-1.94704	1.83052
Na	3.75626	2.14831	-4.24762
Na	-3.95496	2.06957	-4.13104
Na	-5.41424	0.05006	-1.35657
Na	-2.15810	3.08085	3.00321
Na	-3.73666	-0.03351	4.46912
Na	3.24725	3.23439	-0.86297
Na	-3.86252	-1.73890	-4.13680
Na	3.23091	-2.87283	-0.93063
Na	-0.02336	2.32309	0.31462
Na	5.59671	-1.81427	1.66076
Na	0.06327	-4.81387	0.15168
Na	0.05260	0.18362	3.50432
Na	-2.84034	0.16229	1.16228
Na	-2.03152	-2.91247	2.75495

Na38:

Na	0.00534	-4.41345	4.26181
Na	3.40626	4.11948	-1.45201

Na	-5.28737	0.93020	-1.43720
Na	0.02082	2.24922	3.52249
Na	1.98839	-1.17882	3.48926
Na	-0.00549	-3.31958	1.12489
Na	-1.79726	1.05054	-2.02514
Na	2.88580	1.63894	1.12506
Na	-0.02339	-2.02244	-2.02285
Na	0.00680	3.62216	-0.09659
Na	-1.96064	-1.16918	3.50447
Na	3.10134	-1.79183	-3.80363
Na	-3.15975	-1.76547	-3.77319
Na	-2.86285	1.65760	1.15950
Na	3.13337	-1.82189	-0.15047
Na	1.84642	-4.99721	-1.50765
Na	-2.23005	4.93401	2.28791
Na	5.27811	0.88244	-1.50274
Na	-0.03323	0.02943	-4.92388
Na	0.00695	0.00876	0.79725
Na	-3.54420	2.08950	-4.62967
Na	-3.74205	2.17655	4.32248
Na	-0.00038	3.64973	-3.72862
Na	-0.04519	-4.01854	-4.66926
Na	3.50884	2.06027	-4.66786
Na	2.29131	4.90460	2.25693
Na	3.80595	2.13983	4.28540
Na	5.79845	3.30348	1.39778
Na	-3.15581	-4.44019	2.21501
Na	5.42166	-0.53699	2.19375
Na	-1.89963	-4.98084	-1.48740
Na	-3.15387	-1.79244	-0.11302
Na	-0.02507	-6.68277	1.35035
Na	1.77843	1.03364	-2.04476
Na	-5.40289	-0.49631	2.26809
Na	3.13930	-4.46438	2.18531
Na	-5.75418	3.35045	1.46367
Na	-3.39498	4.15366	-1.41571

Na40:

Na	0.04584	-3.44384	0.49664
Na	-3.32348	-3.39861	-4.38712
Na	-1.88812	4.35677	-3.09423
Na	2.14816	-3.89487	3.36444
Na	2.87356	-1.13930	1.24119
Na	1.89502	2.17818	2.62788
Na	-1.71062	-1.63694	-2.06377

Na	-0.01567	0.28345	0.23957
Na	1.81247	-1.57674	-2.01043
Na	-3.38119	-0.69399	4.59474
Na	3.44337	-4.28312	-0.44828
Na	-0.04946	-2.25191	6.16798
Na	0.05832	2.39633	-5.88771
Na	3.03444	5.00047	0.64812
Na	-0.11200	1.48888	5.59760
Na	5.30506	-1.20061	-1.36863
Na	3.24885	-0.58262	4.68411
Na	-2.05349	2.10852	2.56502
Na	-0.05213	3.55327	-0.15174
Na	3.18921	0.60874	-4.39981
Na	3.12550	1.76072	-0.90878
Na	-2.88217	-1.24052	1.15963
Na	-3.07766	0.50920	-4.49360
Na	-0.09284	6.82593	-0.69221
Na	-5.21544	-1.37554	-1.53963
Na	0.09586	-1.59836	-5.18158
Na	0.11715	-4.57736	-2.92584
Na	-2.12059	-3.96608	3.30335
Na	-3.28548	-4.40452	-0.54955
Na	-5.65318	-2.78329	2.15151
Na	-0.03290	-0.98558	3.18984
Na	3.56710	-3.27017	-4.27794
Na	-3.15999	1.65853	-1.00368
Na	-0.12636	5.23415	2.83507
Na	5.34859	1.24427	1.84919
Na	0.01968	1.32597	-2.84541
Na	1.85727	4.42344	-3.04770
Na	5.66344	-2.58313	2.31927
Na	-5.44557	1.05609	1.68984
Na	-3.21418	4.90033	0.55604

Na50:

Na	-1.52970	2.73536	-1.82816
Na	3.52281	2.59449	2.72676
Na	4.34401	-4.39844	-2.56056
Na	2.99345	-1.09692	1.95739
Na	-0.33182	-6.05007	0.73115
Na	2.77567	-4.46886	0.90471
Na	8.18010	0.04331	-0.31327
Na	0.50605	0.70313	3.27490
Na	1.31865	4.35359	-2.82974
Na	6.28640	-0.00885	3.03974

Na	-2.63607	-1.15343	3.95003
Na	3.88583	4.22425	-0.45351
Na	0.12606	4.15252	1.47827
Na	2.35981	-1.98827	-4.79780
Na	-4.95779	-2.09686	-2.93493
Na	-1.53069	-2.58562	-4.81295
Na	-4.48543	1.04041	-1.19012
Na	3.19950	-0.06558	5.37845
Na	-1.29430	-0.92132	-1.95300
Na	6.73729	2.63041	-2.44341
Na	4.86377	0.81307	-0.18276
Na	4.78509	-3.21275	3.88422
Na	5.88648	-1.11426	-3.00046
Na	-7.09665	3.01915	-0.22597
Na	5.91932	-2.75063	0.34412
Na	-2.66308	-4.52718	-1.52227
Na	-3.68921	4.08832	0.84346
Na	-5.94344	-4.52097	-0.05669
Na	0.64572	-2.96220	4.19926
Na	1.33971	1.40813	-0.32545
Na	-6.07700	-2.50058	3.10427
Na	2.50173	-1.58693	-1.47445
Na	0.19647	0.99019	-4.55023
Na	-3.83951	-1.89043	0.53792
Na	-6.94206	1.14824	-3.47294
Na	-0.38178	0.16101	6.51974
Na	-4.75321	4.15152	-2.84080
Na	-5.31951	1.03780	2.41094
Na	1.11328	3.42947	5.30378
Na	-1.92329	0.97172	1.09362
Na	-3.39146	0.88593	-4.55144
Na	3.47817	1.44485	-3.41431
Na	6.91635	3.19161	1.25238
Na	-1.50652	6.12862	-1.40175
Na	-1.57889	4.26510	-4.91902
Na	-7.22306	-0.93833	-0.19133
Na	-2.27464	2.65871	4.21050
Na	-0.29553	-2.42011	0.95190
Na	-2.91238	-4.51308	2.56076
Na	0.69542	-4.49948	-2.41093

Na55:

Na	-0.00367	0.00412	-0.00046
Na	1.65119	3.03128	0.97152
Na	3.39537	-0.28077	1.12726

Na	2.55136	1.15551	-2.22520
Na	1.97956	-2.52435	-1.60288
Na	-0.80483	2.87225	-1.94205
Na	0.53501	0.50931	3.52588
Na	-0.52589	-0.52154	-3.52636
Na	0.81052	-2.87739	1.94091
Na	-1.99193	2.53411	1.59539
Na	-2.56380	-1.14050	2.24233
Na	-3.39057	0.27587	-1.12971
Na	-1.65265	-3.03049	-0.95008
Na	3.25287	5.96766	1.84810
Na	6.67203	-0.58183	2.22669
Na	4.99546	2.30458	-4.35930
Na	3.92915	-4.94092	-3.11661
Na	-1.55496	5.69639	-3.81237
Na	1.37562	-2.38356	5.45848
Na	-1.08852	-1.00405	-6.91800
Na	1.56323	-5.69290	3.81997
Na	-3.93040	4.93424	3.10442
Na	-4.98481	-2.29013	4.36865
Na	-6.66540	0.57769	-2.23694
Na	-3.24267	-5.97340	-1.84370
Na	5.07988	2.75086	2.13212
Na	0.83633	5.89398	-0.98146
Na	2.18036	3.58602	4.46374
Na	-0.34386	5.55759	2.58926
Na	5.99195	0.82536	-1.11706
Na	5.42653	-2.79148	-0.48244
Na	1.10313	1.01949	6.88255
Na	3.95300	0.23531	4.63288
Na	4.22659	4.18628	-1.26843
Na	4.56146	-1.32869	-3.85844
Na	1.73420	4.04053	-4.15828
Na	2.03936	0.61883	-5.77173
Na	1.45536	-3.02987	-5.12372
Na	4.19184	-3.22796	3.06948
Na	-1.36505	2.39221	-5.44811
Na	-5.07624	-2.76496	-2.13209
Na	2.83112	-5.42608	0.38360
Na	-2.19359	-3.59531	-4.46502
Na	0.33624	-5.56021	-2.58500
Na	-5.99413	-0.84154	1.10780
Na	-5.39884	2.78042	0.47172
Na	-3.93951	-0.23544	-4.63611
Na	-4.18899	3.22316	-3.07411
Na	-4.22747	-4.18491	1.28168

Na	-4.55174	1.32690	3.84407
Na	-0.84035	-5.89393	0.99425
Na	-2.01759	-0.60886	5.79097
Na	-1.45710	3.02437	5.11871
Na	-2.84354	5.41875	-0.39823
Na	-1.72482	-4.02939	4.16391

Na60:

Na	-0.21441	-0.43032	0.06484
Na	-0.09841	-6.88596	2.94445
Na	1.62138	-2.94707	-1.66178
Na	-0.20248	-3.67317	1.52845
Na	2.89756	-1.47626	1.57372
Na	-6.20574	-2.55140	3.19147
Na	-0.27970	-0.40706	-3.59543
Na	2.58083	1.30159	5.65526
Na	2.01161	4.50079	-0.59173
Na	-2.21793	-2.97550	-5.22355
Na	-5.16705	3.08040	0.18103
Na	-3.23675	-1.46355	1.71036
Na	4.61731	-1.89526	-3.31599
Na	1.72424	1.98304	1.92529
Na	-2.39556	5.35431	-0.07705
Na	-5.20465	-4.03774	-0.05542
Na	-3.23804	-4.85467	3.05434
Na	-0.51536	2.66601	-1.66424
Na	-0.26344	-5.60047	-3.38966
Na	-3.27173	-2.08715	5.33344
Na	-2.11732	-2.99883	-1.57783
Na	-0.18675	-0.56926	3.70923
Na	3.41661	-5.40061	-3.37736
Na	-0.40792	5.80054	-3.18340
Na	-0.15533	3.21321	5.01070
Na	4.73148	-4.05265	-0.25679
Na	2.74223	0.83729	-1.56040
Na	-3.51894	4.54361	3.48557
Na	-3.44699	0.53903	-5.15131
Na	-0.18895	-3.96036	5.16078
Na	1.58296	-2.97364	-5.34676
Na	-3.49570	3.77207	-3.25756
Na	2.90517	7.36219	-2.61354
Na	3.82641	6.74853	0.99985
Na	2.89300	-4.89830	2.89470
Na	-2.05212	-6.24095	-0.18416
Na	-0.51306	2.78134	-5.33851

Na	-0.39944	-0.40581	-7.07309
Na	2.73026	0.52972	-5.34802
Na	-5.37081	1.09129	3.11344
Na	-6.41842	-0.57307	0.05502
Na	-0.18910	-0.62278	7.06397
Na	-6.31988	1.48844	-2.99159
Na	0.19200	5.40368	2.43287
Na	2.64741	3.81235	-3.94220
Na	2.94287	-2.07823	5.17234
Na	-3.99692	-5.50827	-3.23869
Na	-3.35982	0.49018	-1.47317
Na	5.44325	5.11064	-2.00676
Na	-2.93080	1.36409	5.48420
Na	-2.03094	2.10556	1.81074
Na	0.41279	7.73891	-0.13021
Na	5.67526	1.64511	-3.13341
Na	5.85789	-2.72002	2.94516
Na	1.72083	-6.33146	-0.27282
Na	3.47370	4.25222	3.71986
Na	5.05233	2.89338	0.59437
Na	5.11188	0.76657	3.36989
Na	5.95405	-0.58491	-0.12929
Na	-5.26810	-2.06802	-3.19694

Na70:

Na	3.49406	-4.76565	-0.17587
Na	3.74129	5.15246	3.13284
Na	3.25895	-1.07897	-5.32572
Na	-0.33395	-0.19498	6.71340
Na	-0.13104	-6.32956	-4.81245
Na	-0.12935	-5.97823	1.76731
Na	-1.86444	-3.62015	7.36401
Na	2.99830	-4.63197	3.62195
Na	-1.99595	-3.88758	-7.16941
Na	1.53821	2.59075	2.09974
Na	-3.28122	-0.99577	-5.11965
Na	-5.69155	6.58808	-0.31563
Na	-7.21580	0.67604	0.22487
Na	-4.27436	4.89230	-3.34155
Na	-2.03353	5.88480	-0.44277
Na	1.84177	2.78167	-5.54297
Na	-7.68684	3.79672	-1.82528
Na	-2.16750	2.50850	-5.57689
Na	0.11825	-6.19729	5.54291
Na	-5.55217	-2.14812	-1.77693

Na	7.19825	4.06575	1.61078
Na	3.66066	1.40397	-2.75378
Na	6.74242	3.82106	-2.27285
Na	-5.54080	-2.24900	2.11374
Na	-7.45431	4.06349	1.92790
Na	-3.19773	-4.88756	3.90716
Na	-4.02638	5.27758	2.85319
Na	5.27336	6.63427	-0.22432
Na	3.05978	-4.62354	-3.85428
Na	-0.22340	5.53119	3.23169
Na	5.05121	1.53147	3.37664
Na	3.35034	5.15703	-3.06827
Na	1.71159	-3.89634	-7.31700
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Na	-3.28235	-4.53825	-3.74143
Na	-2.02007	-2.60312	1.44591
Na	1.58499	6.14544	0.06935
Na	-0.04841	-0.40840	-7.13940
Na	5.24458	-2.22419	1.67035
Na	-0.05832	-2.84040	-4.61801
Na	-2.10329	-1.66018	-1.99923
Na	-0.44193	5.18419	-3.63990
Na	-5.38407	1.21962	-3.10900
Na	0.15777	0.52220	-3.73248
Na	-2.19152	2.84993	5.13523
Na	-3.81323	-4.91530	-0.03316
Na	1.95883	-1.82698	-1.99787
Na	-5.00480	1.57901	3.23106
Na	6.70651	0.78903	-0.20449
Na	-1.02964	0.24615	3.24120
Na	-2.28005	2.24531	-2.11011
Na	-4.84535	3.35341	-0.09245
Na	-3.71655	0.16603	0.38326
Na	-3.53120	-1.25766	5.10563
Na	3.31836	0.17143	0.44944
Na	-0.17405	-4.47818	-1.42876
Na	4.22507	3.45795	0.09771
Na	5.32866	-2.01974	-2.05609
Na	2.03473	-3.12260	6.94017
Na	-1.78345	3.01310	1.39396
Na	-0.10154	0.17415	-0.03379
Na	-0.28339	-3.06183	4.38217
Na	0.97201	3.08669	-1.35310
Na	2.28323	-0.58816	3.93170
Na	1.38617	-2.62472	1.33629
Na	6.53792	0.73670	-4.22624

Na	5.19783	-2.03046	5.20755
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Na	1.64227	-7.40623	-1.64071
Na	-1.86727	-7.46726	-1.65654

Na80:

Na	-3.09107	1.82637	-1.92376
Na	-2.21012	-0.05451	-5.83688
Na	5.29308	-1.94505	5.95356
Na	0.04953	-0.00543	-3.00028
Na	0.12193	-3.59709	1.91828
Na	5.16716	-0.67272	-0.29112
Na	-1.69119	-1.02509	-0.00938
Na	-3.96607	7.71231	-0.61083
Na	4.74147	-5.43449	-2.69180
Na	3.02059	1.93245	1.90536
Na	1.92932	-6.61408	2.77304
Na	-4.41161	-3.61957	5.85812
Na	-1.87358	-3.86005	-5.00201
Na	-3.05431	-2.38976	2.86127
Na	-1.57372	6.75701	-3.32020
Na	-4.69773	-7.29492	-0.57334
Na	5.38248	1.65152	4.57252
Na	1.15659	1.94828	-5.81485
Na	1.17685	-1.96441	-5.81355
Na	7.07738	-1.11909	2.79768
Na	1.82382	4.88542	0.33774
Na	3.30764	-4.03760	0.38486
Na	-4.55405	-5.57441	2.73086
Na	3.57099	-1.41308	2.91016
Na	4.05406	4.02375	-4.50986
Na	-0.13461	7.80623	-0.01944
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Na	0.00166	-3.64245	-1.86555
Na	-7.03478	-1.38540	-2.79466
Na	-4.33917	0.12826	4.97087
Na	5.19277	-4.56536	3.34961
Na	-6.67181	2.00653	-1.11499
Na	-4.91695	4.83597	-2.80772
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Na	-2.00893	4.82228	-0.36405
Na	6.81499	-3.77546	0.05404
Na	-2.57589	6.71393	2.71306
Na	-3.20435	1.67672	1.87419
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Na	4.30767	0.23424	-4.96769
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Na	3.69518	7.84956	0.56793
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Na	-1.32345	-5.52350	4.54530
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Na	3.14595	1.78693	-1.88104
Na	1.34662	6.82418	3.28878
Na	-5.15661	-0.84027	0.30785
Na	1.99901	-3.75983	5.03153
Na	-0.57723	3.82991	2.85257
Na	-1.10815	-1.96128	5.84428
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Na	-1.22236	1.92567	5.81443
Na	-0.03182	1.97365	-0.01432
Na	-1.01260	5.62255	5.85997
Na	6.67597	-2.01114	-3.24487
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Na	-5.24069	4.60853	1.00015

Na146:

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Na	0.96170	-2.98240	1.61799
Na	-0.96142	-2.95914	-1.47013
Na	-0.97434	2.95590	-1.48869
Na	3.11539	-0.01728	1.61546
Na	-3.12924	-0.00620	-1.47440
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Na	-2.52934	1.82594	1.60534
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Na	0.98049	3.04816	5.18735
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Na	-5.20592	-3.76647	6.88024
Na	-5.20853	3.75897	6.86908

Na	5.26860	-0.01115	-6.82583
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K4:

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K	-2.05865	-0.00017	-0.00042
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K	0.00032	-3.91459	-0.00046

K6:

K	3.72777	0.00141	-0.36186
K	1.14424	3.52505	-0.40478
K	1.14503	-3.52484	-0.40468
K	-3.01036	2.17802	-0.38542
K	-3.01294	-2.18194	-0.38589
K	-0.00886	-0.00123	1.95054

K8:

K	0.93557	3.01400	0.00378
K	0.93255	-3.01876	-0.00527
K	-3.30412	2.29530	0.01908
K	-3.30642	-2.29845	0.00565
K	3.27800	-0.00725	2.30100
K	3.27736	-0.00125	-2.30327
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K	-0.94710	0.00420	-3.01780

K10:

K	-1.51995	2.59782	-0.90116
K	-3.97502	-0.87758	0.28477
K	-0.67087	-1.91811	-2.48237
K	3.44153	-2.09236	-0.70623
K	1.93556	-0.86648	5.34642
K	-0.12770	-2.65049	1.89810
K	2.26069	1.58673	1.38924
K	2.09118	1.61442	-3.11667
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K	-1.91703	1.24006	-5.32548

K12:

K	-4.92713	2.17198	0.25525
K	5.52664	-1.09451	1.75893
K	-0.23369	1.06170	-5.29552
K	-0.72777	1.68374	-0.97369
K	1.15540	-2.16665	1.41836
K	-1.36803	1.11786	3.50106
K	-3.31853	-2.00881	0.59882
K	3.32398	0.02133	-2.06826
K	-4.18960	-0.07549	-3.54685
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K	2.66781	2.30489	1.80295

K14:

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K	5.48415	0.26195	1.07502
K	2.93889	-1.99747	-2.00523
K	-2.80953	3.66172	-2.41642
K	1.27871	-0.79555	2.10418
K	4.24088	-4.15952	1.71583
K	1.80968	2.30208	-1.60863
K	-5.49216	0.27904	-1.07297
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K	-4.25277	-4.15487	-1.69333
K	2.82404	3.65836	2.38211

K16:

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K	0.59002	-0.57288	1.22369
K	-1.75191	1.38495	-5.13316
K	3.90023	-3.71269	0.32804
K	-0.77130	6.28688	0.92965
K	0.72606	3.05446	-1.77370
K	-2.76152	2.46778	2.12715
K	4.43037	0.75295	-0.15277

K	-3.72899	4.02466	-1.86623
K	-0.54068	-4.64058	-0.57213
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K	4.00596	-0.83996	4.13579

K18:

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K	12.48583	12.01880	18.10982
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K	14.87905	14.49523	15.05958
K	14.93331	9.53032	15.28417
K	17.18456	12.08017	18.23615
K	11.01466	10.84241	13.82785
K	18.03799	18.30456	14.40210
K	18.88306	10.95020	14.01342
K	11.10459	14.58299	11.62849
K	12.45916	16.52962	18.51226
K	20.25413	14.65044	16.08968
K	14.93315	16.80311	11.08346
K	9.48300	14.51305	15.82572
K	14.81595	20.89698	12.64885

K20:

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K	-4.27838	0.32227	0.43015
K	2.44993	-3.44241	2.66492
K	-2.36690	0.39604	-3.90009
K	-2.54706	3.90248	2.85408
K	-0.03247	0.26408	3.71475
K	-3.76446	-3.57186	-1.84345
K	-0.00770	-1.52864	-0.47162
K	2.39503	0.39868	-3.86035
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K	-0.00635	-5.94580	-0.51288
K	0.01817	-3.55493	-4.49360
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K	3.88328	4.22086	-1.72612

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K22:

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K -12.29115 -18.96830 -12.11510
K -10.86864 -11.43146 -16.76935
K -17.12397 -15.21318 -18.73897
K -18.53983 -7.26792 -13.97675
K -14.77123 -13.24651 -15.37304

K24:

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K 4.60852 0.69320 1.43956
K 1.53421 -4.03312 -3.86847
K -1.33277 -0.54121 6.20847
K 0.24288 -0.49341 2.29153
K 1.47912 -0.26915 -1.79947
K 1.98659 2.53329 4.86038
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K -0.33273 3.39952 -3.94645
K -5.84089 -1.43879 -1.83709
K 5.61257 -1.82992 -2.30257
K 4.30170 2.89628 -2.66373
K 1.20584 4.08864 0.57245
K 2.76462 -3.98359 0.63027

K	-2.54868	1.16111	-0.71712
K	6.98560	-3.10781	1.95099
K	2.33769	0.10621	-5.91902
K	-6.48685	2.48761	0.61073
K	-2.55652	3.04595	3.37309
K	-2.07653	-0.96513	-4.67326
K	-5.11612	2.71742	-3.88506
K	-3.08483	5.45784	-0.66575
K	-0.78166	-4.44839	3.66386

K26:

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K	5.02090	-5.01257	-0.85472
K	-2.00082	-3.08611	2.81100
K	4.47251	1.40111	3.00620
K	0.50202	0.31837	-3.56462
K	-6.28497	2.45761	-0.80072
K	-6.56614	-1.56067	1.51478
K	7.31581	2.18957	-0.66514
K	0.45648	0.28310	1.02507
K	2.76599	-3.15486	2.86085
K	-3.54570	1.57928	2.94422
K	3.98946	-0.82714	-0.97277
K	7.43285	-1.83450	1.64161
K	2.89975	3.76752	-0.90555
K	0.42715	0.06092	5.29916
K	-3.65792	1.76919	-4.64055
K	0.39823	-4.33538	-0.96408
K	-4.28418	-4.83273	-0.94479
K	-6.65113	-1.49755	-3.22343
K	2.85074	-3.21607	-4.66533
K	-1.96807	-3.12998	-4.71345
K	-1.78171	3.87476	-0.94962
K	0.54246	4.12152	3.04088
K	4.73900	1.61465	-4.58939
K	7.56904	-1.79329	-3.08580

K28:

K	-0.41275	3.20747	-4.62925
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K	-0.05905	5.72621	-0.42435
K	-4.39038	2.94977	-1.93337
K	-2.81506	3.05971	2.66649

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K 3.71548 3.11888 -2.28512
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K -7.05821 -0.98696 -2.61126
K -2.72780 -0.87816 -4.19187
K -3.82443 -0.86335 0.42690
K 6.60473 2.11705 1.23053
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K -0.24032 -0.71593 3.88606
K 3.27679 -0.55896 0.35882
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K -7.27893 -3.23435 1.45387
K 4.37927 -0.51597 4.55892
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K -0.31756 -4.88523 -4.47388
K -2.64043 -4.57479 2.80905
K 3.82888 -4.47748 -1.86955
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K 2.25314 -4.45111 2.69040
K -0.47442 -7.17527 -0.40392

K30:

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K40:

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K 3.62103 6.47177 -2.17004
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K70:

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K 5.90813 2.48191 4.28018

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K	-3.55614	-0.13557	-1.88883
K	-7.25886	-1.82052	2.71547
K	-2.32832	2.47346	6.80972
K	6.55733	-6.18056	-4.15609
K	5.86599	1.68117	-4.35128
K	4.75067	-1.36758	6.64113
K	6.13054	6.17596	-2.42391
K	3.34701	-3.74311	2.71839

K80:

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K	-4.56190	-0.04699	2.42244
K	-0.99596	-6.51574	-0.36926
K	-1.23934	2.17818	-0.04452
K	9.86285	4.74951	-0.72958
K	-7.03340	-5.85175	-3.45412
K	2.33536	-3.89662	2.46778
K	-8.47907	-2.26784	3.49753
K	-4.49771	5.67151	7.41431
K	-4.79198	2.46089	-6.44808
K	-2.87564	3.94003	3.60001
K	8.56905	1.76002	-4.16630
K	-9.03991	6.16956	-0.81268
K	1.84640	-6.88258	5.83093
K	2.45402	-1.53187	-7.43311
K	-2.44535	-1.43350	-7.43933
K	-1.69060	-8.89666	3.54877
K	6.07637	-2.47743	0.44000
K	-5.20399	-4.05216	0.45737
K	-6.89764	5.93826	3.39937
K	-1.93385	-4.41611	3.67689
K	4.92309	-5.20784	-5.71186
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K	-9.16864	-6.02857	0.76874
K	-4.59320	0.12292	-2.44105
K	-1.55904	8.89389	-3.57528
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K	-5.99296	-6.42777	4.22764

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K	6.27153	6.01668	-3.49440
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K	6.10529	2.37020	-0.41928
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K	2.18073	4.00566	2.39236
K	2.60881	-8.43581	1.44947
K	-8.41746	2.40117	-3.51980
K	2.23262	8.47067	3.40748
K	-8.67874	1.98160	1.33229
K	0.16280	-5.46284	-6.33986
K	4.50063	-2.87047	6.39729
K	9.77343	-4.89488	0.80887
K	-1.85486	4.43761	-3.69801
K	-4.84869	8.57981	-0.09358
K	5.01359	5.11849	5.72916
K	-6.91839	1.86813	5.72274
K	6.16827	-6.14515	3.54170
K	2.11924	-4.06916	-2.36964
K	8.54794	-1.90371	4.23031
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K	-4.54912	-5.59693	-7.44254
K	4.78874	-0.73001	-3.64183
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K	-2.47327	6.61330	-7.56205
K	2.39553	1.49121	7.41431
K	2.47654	-0.02592	0.01212
K	7.04644	1.13728	7.46718
K	-2.73827	-8.39278	-4.11744

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K146:

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K	1.22357	-3.79450	2.05857
K	-1.22322	-3.76492	-1.87044
K	-1.23966	3.76079	-1.89406
K	3.96372	-0.02198	2.05535
K	-3.98133	-0.00789	-1.87588
K	3.21164	2.32800	-1.90477
K	3.20035	-2.33635	-1.87804
K	-3.22222	-2.32363	2.05392
K	-3.21808	2.32314	2.04247
K	-0.01165	-0.00240	9.07792
K	0.00517	-0.01024	-8.80757
K	1.24747	3.87818	6.59987
K	1.24870	-3.88483	6.57974
K	-1.24840	-3.90749	-6.39634
K	-1.25301	3.88102	-6.42113
K	4.04454	0.00154	6.59513
K	-4.06581	-0.00017	-6.40820
K	2.47345	7.63324	4.06669
K	2.47348	-7.63011	4.05021
K	-2.47791	-7.62582	-3.89225
K	-2.47826	7.61819	-3.88517
K	5.25353	3.81669	4.10407
K	5.25829	-3.83941	4.11031
K	-5.25098	-3.84393	-3.92292
K	-5.28000	3.83085	-3.92669
K	7.98741	-0.00288	4.06215
K	-7.99772	-0.00152	-3.89551
K	0.00435	7.68994	0.08483
K	-0.01243	-7.68720	0.09679
K	4.49494	6.21991	0.08431
K	4.51292	-6.21516	0.09881
K	-4.50996	-6.22352	0.10573
K	-4.50422	6.22423	0.10126
K	7.27800	2.36897	0.09617
K	7.27908	-2.38186	0.07456
K	-7.28846	-2.37134	0.09928

K	-7.28951	2.36871	0.08870
K	2.02076	6.21964	-3.92503
K	2.00602	-6.22203	-3.92544
K	-2.02327	-6.22398	4.11514
K	-2.02358	6.21598	4.11144
K	6.48052	4.70119	-3.88168
K	6.46909	-4.71952	-3.89615
K	-6.49117	-4.71409	4.05677
K	-6.48374	4.71515	4.06733
K	6.54769	-0.02059	-3.92844
K	-6.53287	-0.00988	4.12408
K	3.32064	2.39448	-6.43754
K	3.32254	-2.40551	-6.40948
K	-3.32265	-2.40954	6.58215
K	-3.29498	2.39913	6.59248
K	-0.00062	-0.00241	-13.32556
K	1.24752	3.86439	11.21612
K	1.24859	-3.86487	11.22043
K	-1.26839	-3.90486	-11.05316
K	-1.25529	3.89874	-11.05767
K	4.05828	0.00067	11.22585
K	-4.11076	-0.00006	-11.05408
K	2.52423	7.77238	8.75579
K	2.51976	-7.77000	8.75386
K	-2.52374	-7.79017	-8.57200
K	-2.53446	7.79048	-8.57857
K	5.36567	3.90136	8.84638
K	5.36389	-3.91166	8.84535
K	-5.39293	-3.93695	-8.66018
K	-5.40397	3.92993	-8.67742
K	8.15529	-0.00766	8.74264
K	-8.18667	-0.00765	-8.55551
K	3.76211	11.56382	6.17654
K	3.75463	-11.56692	6.17592
K	-3.75720	-11.55396	-5.98472
K	-3.75669	11.55581	-5.99413
K	6.53909	7.73484	6.19638
K	6.54196	-7.74608	6.19751
K	-6.54912	-7.73948	-6.01217
K	-6.55493	7.74664	-6.03284
K	9.36766	3.83235	6.19355
K	9.36905	-3.83429	6.19120
K	-9.38181	-3.84953	-6.00930
K	-9.38148	3.84323	-6.01027
K	12.15554	-0.01079	6.19294
K	-12.15272	-0.00955	-6.00163

K 1.26899 11.63847 2.15560
K 1.26369 -11.66047 2.14880
K -1.26576 -11.63089 -1.96850
K -1.26148 11.64639 -1.96825
K 5.82401 10.17119 2.15281
K 5.81551 -10.18749 2.14288
K -5.81413 -10.15073 -1.97403
K -5.81333 10.15910 -1.97579
K 8.68973 6.32429 2.14227
K 8.69669 -6.34510 2.14527
K -8.69607 -6.32169 -1.95665
K -8.70565 6.33335 -1.96347
K 11.45950 2.38974 2.16087
K 11.45144 -2.40141 2.16185
K -11.44881 -2.39723 -1.97319
K -11.44310 2.39131 -1.97710
K 3.32957 10.29452 -1.98471
K 3.31992 -10.25940 -1.97904
K -3.34081 -10.30500 2.16418
K -3.33343 10.26317 2.16108
K 7.84556 8.67508 -1.95941
K 7.84281 -8.67486 -1.97363
K -7.86778 -8.68501 2.15231
K -7.86537 8.67531 2.15097
K 10.67339 4.79026 -1.96635
K 10.67018 -4.79715 -1.96166
K -10.67942 -4.80026 2.14305
K -10.66542 4.80062 2.14797
K 10.77458 -0.00727 -1.95166
K -10.77096 -0.00360 2.13957
K 0.74900 10.13828 -6.01945
K 0.75532 -10.13228 -6.02655
K -0.74243 -10.12751 6.19878
K -0.74036 10.12061 6.21092
K 5.33867 8.64267 -6.01966
K 5.33890 -8.65196 -6.03970
K -5.32931 -8.62385 6.19815
K -5.33670 8.62134 6.20342
K 9.84579 7.13999 -5.99072
K 9.83983 -7.13992 -5.98296
K -9.84379 -7.14165 6.17599
K -9.85285 7.12993 6.17388
K 9.87662 2.41331 -6.02924
K 9.88454 -2.41834 -6.01922
K -9.87831 -2.42272 6.20981
K -9.87726 2.41803 6.19143

K	2.07419	6.36159	-8.66969
K	2.07541	-6.36455	-8.66957
K	-2.06360	-6.33013	8.84816
K	-2.06838	6.33114	8.84788
K	6.64138	4.81973	-8.57831
K	6.64253	-4.81909	-8.56732
K	-6.62349	-4.79208	8.75373
K	-6.62682	4.78253	8.73953
K	6.70324	-0.01419	-8.68450
K	-6.67995	-0.00166	8.84477
K	3.32837	2.41652	-11.06014
K	3.32584	-2.42172	-11.05662
K	-3.30514	-2.39029	11.21630
K	-3.30621	2.39197	11.21499

Al3:

Al	1.26278	-0.72906	-0.00001
Al	-1.26277	-0.72906	-0.00002
Al	-0.00001	1.45823	-0.00002

Al4:

Al	1.43381	-0.00028	-0.00007
Al	-1.43379	-0.00019	-0.00026
Al	0.00007	2.12397	-0.00014
Al	0.00006	-2.12443	-0.00021

Al5:

Al	0.00000	0.00000	-1.08200
Al	-2.50874	0.00000	-0.87203
Al	2.50874	0.00000	-0.87203
Al	-1.24191	0.00000	1.41303
Al	1.24191	0.00000	1.41303

Al6:

Al	-1.47609	-0.85222	0.96476
Al	-1.47609	0.85222	-0.96476
Al	0.00000	-1.70444	-0.96476
Al	1.47609	-0.85222	0.96476
Al	1.47609	0.85222	-0.96476
Al	0.00000	1.70444	0.96476

Al7:

Al	0.84215	-1.45865	-0.57031
Al	1.56966	0.00000	1.44331
Al	-0.78483	-1.35936	1.44331
Al	0.84215	1.45865	-0.57031
Al	0.00000	0.00000	-2.61901
Al	-0.78483	1.35936	1.44331
Al	-1.68431	0.00000	-0.57031

Al8:

Al	1.15966	-0.53609	-1.59553
Al	-0.53894	-1.72645	0.00000
Al	3.04693	0.11847	0.00000
Al	1.15966	-0.53609	1.59553
Al	-3.04693	-0.11847	0.00000
Al	-1.15966	0.53609	1.59553
Al	-1.15966	0.53609	-1.59553
Al	0.53894	1.72645	0.00000

Al9:

Al	0.33199	-0.07912	1.34537
Al	2.75058	-0.74608	0.00000
Al	0.77335	-2.45007	0.00000
Al	0.33199	-0.07912	-1.34537
Al	-0.39394	2.20368	0.00000
Al	2.18067	1.84145	0.00000
Al	-1.71124	-1.79225	0.00000
Al	-2.13171	0.55076	1.27294
Al	-2.13171	0.55076	-1.27294

Al10:

Al	2.10108	-2.05448	-0.00009
Al	0.69785	-0.04212	1.41582
Al	1.61879	2.66604	-0.00002
Al	2.90959	0.40028	0.00000
Al	-0.80616	1.78754	-0.00006
Al	-3.25645	0.87071	-0.00010
Al	-1.77146	-0.58663	-1.47298
Al	-0.41721	-2.41290	-0.00003
Al	0.69785	-0.04212	-1.41590
Al	-1.77146	-0.58663	1.47302

Al11:

Al	1.51230	2.21298	0.60465
Al	2.83586	0.00000	1.04044
Al	1.51230	-2.21298	0.60465
Al	-1.51230	-2.21298	0.60465
Al	0.00000	0.00000	1.10191
Al	-1.51230	2.21298	0.60465
Al	-2.83586	0.00000	1.04044
Al	-1.33435	0.00000	-1.28267
Al	0.00000	2.38086	-1.51802
Al	0.00000	-2.38086	-1.51802
Al	1.33435	0.00000	-1.28267

Al12:

Al	0.03445	-0.04148	-0.71620
Al	2.03276	0.04638	1.26484
Al	-0.19440	-1.28338	1.80588
Al	-0.13577	1.34419	1.86531
Al	-2.27117	0.16898	1.08733
Al	1.28613	2.44111	0.03219
Al	-2.03149	-1.83163	-0.69390
Al	0.29901	-2.89634	-0.04810
Al	2.36977	-1.57519	-0.86105
Al	2.56144	0.86617	-1.55142
Al	-2.61900	0.45821	-1.74197
Al	-1.33174	2.30299	-0.44291

Al13:

Al	0.00000	0.00000	0.00000
Al	1.47405	0.85104	2.03073
Al	-1.47405	0.85104	2.03073
Al	0.00000	-1.70209	2.03073
Al	2.28794	-1.32095	0.55341
Al	2.28794	1.32095	-0.55341
Al	0.00000	2.64189	0.55341
Al	-2.28794	1.32095	-0.55341
Al	-2.28794	-1.32095	0.55341
Al	0.00000	-2.64189	-0.55341
Al	1.47405	-0.85104	-2.03073
Al	0.00000	1.70209	-2.03073
Al	-1.47405	-0.85104	-2.03073

Al14:

Al	2.24114	0.93021	1.73317
Al	1.95985	3.22470	3.47649
Al	1.95757	-1.51760	3.06607
Al	0.62587	0.72906	4.07280
Al	-0.25303	2.29720	1.86179
Al	0.54304	1.00424	-0.49070
Al	1.88600	-1.35910	0.25710
Al	-0.06942	-0.32277	1.76876
Al	-2.36967	-1.59365	1.77354
Al	-0.70382	-1.67498	3.99640
Al	0.07788	-2.94333	1.65116
Al	-2.05661	0.69057	3.27214
Al	-2.10381	0.83254	0.45686
Al	-0.77872	-1.40503	-0.51962

Al16:

Al	0.41647	-2.88717	-0.14672
Al	0.90758	1.11423	-2.21730
Al	2.14210	-1.65748	1.65101
Al	0.48440	-0.24044	-0.02388
Al	1.00990	0.89959	2.27170
Al	3.68127	-0.58457	-0.12875
Al	-0.43265	-1.50096	2.19254
Al	-2.93449	2.91073	0.21179
Al	-1.62680	0.79226	1.56686
Al	2.45756	1.67595	0.02800
Al	-1.69526	0.93580	-1.40467
Al	-0.55075	-1.28958	-2.30502
Al	2.04357	-1.49254	-1.90914
Al	-0.03974	2.48973	0.11961
Al	-1.99476	-1.54743	-0.02251
Al	-3.86562	0.39745	0.10819

Al18:

Al	-0.10966	1.79017	-2.30786
Al	-0.28255	0.51075	0.04310
Al	-2.35741	0.58138	1.88733
Al	-0.16623	-0.88856	2.30066
Al	-1.54365	2.81401	-0.16971
Al	-0.11227	-0.93929	-2.20808
Al	-2.41959	0.45136	-1.57440
Al	-1.54802	-1.79959	-0.00100

Al	-4.07234	-0.85510	0.25517
Al	1.22393	-1.74267	0.04827
Al	-4.06912	1.89031	0.14642
Al	1.94924	0.56761	1.59889
Al	2.07254	0.45472	-1.38901
Al	-0.16390	2.07158	2.19259
Al	3.89363	-0.81633	0.26023
Al	3.89662	1.84286	0.15627
Al	1.22905	2.75559	-0.11804
Al	-5.15437	0.59722	2.17869

Al20:

Al	0.19699	0.61742	0.34954
Al	-2.06854	1.84397	-0.99362
Al	2.54391	-0.80790	1.01145
Al	-1.23492	-0.71996	-1.74736
Al	-2.20017	-0.73660	0.98031
Al	-1.35595	-3.10004	2.21256
Al	1.61416	-3.14955	2.22994
Al	0.15951	-1.89788	0.28257
Al	-2.03313	1.95181	1.61050
Al	-2.17948	-3.03483	-0.55170
Al	0.12269	-4.38782	0.26145
Al	0.22454	3.09440	0.23416
Al	2.47415	-3.10130	-0.52638
Al	2.48035	1.79586	-1.01728
Al	2.47273	1.89557	1.58666
Al	0.19969	1.76082	-2.31764
Al	1.60476	-0.75654	-1.73268
Al	0.15694	-3.06928	-2.18974
Al	0.16161	-0.86215	2.79092
Al	0.22631	1.88336	2.90805

Al22:

Al	-1.87646	1.38364	0.73062
Al	-3.57424	-2.84039	-0.46347
Al	1.04999	-3.58394	-3.16690
Al	-4.13157	-0.24285	-0.11119
Al	0.58803	-2.55871	1.69669
Al	-2.90729	1.50650	-1.78356
Al	1.75895	-0.56740	0.23526
Al	-2.48063	-1.08128	-2.14785
Al	-0.52983	-1.55933	-3.90229
Al	0.87598	0.97406	-3.68290

Al	2.28458	-3.12039	-0.44839
Al	0.23169	-4.93628	-1.02323
Al	-0.16010	-2.19346	-1.07339
Al	-1.73840	-1.21144	0.81953
Al	-1.74140	0.83095	-4.04445
Al	-1.82777	-3.69512	-2.52233
Al	-0.38755	0.53827	-1.37179
Al	-1.44767	-3.97436	0.65244
Al	2.03204	-1.14959	-2.39401
Al	0.82233	1.96101	0.68834
Al	2.23683	1.45374	-1.47699
Al	0.12035	0.06723	2.40116

Al24:

Al	-0.03927	-0.23782	-2.75884
Al	-0.03668	-0.24936	2.61925
Al	1.36868	-2.12888	-1.48726
Al	1.37089	-2.12719	1.34303
Al	2.22526	0.49704	-1.46823
Al	2.23213	0.50118	1.36622
Al	-0.02738	2.15694	-1.53438
Al	-0.05815	2.12685	1.40539
Al	-2.28665	0.47177	-1.48618
Al	-2.29776	0.49324	1.36263
Al	-1.41533	-2.13176	-1.52547
Al	-1.40625	-2.11924	1.30433
Al	-0.01796	-0.18884	-0.07065
Al	2.75047	-4.07026	-0.05169
Al	3.67346	-1.46499	-0.04012
Al	4.52758	1.15126	-0.01542
Al	2.28696	2.82698	-0.13901
Al	-0.15445	4.41960	-0.03822
Al	-2.40291	2.84799	-0.07013
Al	-4.58173	1.17077	-0.04139
Al	-3.72031	-1.44579	-0.05943
Al	-2.77459	-4.01073	-0.12781
Al	-0.03487	-4.05620	-0.08666
Al	1.60649	4.26062	2.03376

Al26:

Al	4.22268	1.59431	-0.91225
Al	1.38931	0.71633	4.60581
Al	0.21571	-0.57960	0.02213
Al	-1.20991	0.82503	3.84513

Al	5.49500	3.34473	0.79580
Al	2.83958	3.39311	0.88369
Al	1.49807	-2.88682	1.19636
Al	0.16660	-1.09125	2.76131
Al	4.15996	-2.88455	1.28209
Al	0.19598	3.35334	0.64722
Al	0.15018	2.99342	3.41116
Al	5.39447	-1.09072	2.92135
Al	1.56046	1.60058	-0.98728
Al	4.06472	0.71912	4.68359
Al	4.12573	5.18771	2.54562
Al	2.75838	2.99787	3.65499
Al	4.19408	1.15177	1.91523
Al	5.50807	-0.58492	0.18195
Al	5.37922	2.99070	3.56091
Al	6.70654	0.82347	4.08704
Al	1.46414	5.19225	2.46797
Al	-1.37024	1.24319	1.17486
Al	2.85813	-0.67661	0.24420
Al	1.42384	1.15436	1.83501
Al	7.02061	1.23674	1.43090
Al	2.77595	-1.15061	3.00382

Al28:

Al	0.12180	3.08606	2.53090
Al	2.88452	3.00009	2.65693
Al	5.52876	2.90243	2.52008
Al	8.26280	2.78381	2.10517
Al	1.12453	2.89255	-0.04163
Al	4.06480	2.79461	-0.03062
Al	6.99002	2.67447	-0.34847
Al	2.32208	2.70633	-2.39693
Al	5.54588	2.58592	-2.56606
Al	3.81202	2.50992	-4.72267
Al	1.46322	5.15859	1.57251
Al	1.31680	0.82428	1.84262
Al	4.23029	5.04428	1.53568
Al	4.08407	0.74852	1.80433
Al	6.98688	4.95186	1.28279
Al	6.83828	0.62303	1.55496
Al	2.61820	4.94475	-0.93510
Al	2.47047	0.64786	-0.66898
Al	5.56718	4.83538	-1.09210
Al	5.42031	0.54004	-0.82218
Al	3.96559	4.76640	-3.34849

Al	3.81969	0.43822	-3.07706
Al	2.86761	7.18916	0.57582
Al	2.57909	-1.40235	1.10864
Al	5.64103	7.08386	0.42814
Al	5.34913	-1.50134	0.96491
Al	4.12262	6.99244	-1.89537
Al	3.83407	-1.59901	-1.36220

Al30:

Al	2.98030	-0.09303	5.04772
Al	1.68148	-2.16132	6.27063
Al	3.70036	0.25851	-0.43398
Al	0.41225	-3.90768	1.90968
Al	0.29354	-4.32886	4.58352
Al	4.36815	-2.26292	6.12589
Al	-0.99423	-2.42314	6.13708
Al	1.69808	-2.06718	3.50616
Al	-2.44969	-0.08218	2.41642
Al	-0.79548	-1.71439	0.66018
Al	-1.00917	-2.11814	3.43007
Al	-2.44821	-0.41689	5.11490
Al	0.36304	0.15098	2.34594
Al	0.30028	-0.15875	5.16337
Al	4.59369	-1.97106	0.73925
Al	0.98422	0.48862	-0.27963
Al	3.05686	-4.26116	4.65906
Al	5.70712	-0.19809	5.01767
Al	1.52877	2.06999	4.05565
Al	4.43294	-2.09159	3.46914
Al	5.90264	-0.08058	2.28504
Al	3.07734	-3.96814	1.98260
Al	4.85619	2.15757	1.23529
Al	-0.45292	2.73334	1.66472
Al	-1.11531	1.81575	4.11098
Al	2.24823	2.54258	1.52543
Al	3.15788	0.06723	2.26586
Al	-1.59580	0.77173	0.10016
Al	1.90180	-1.77735	0.77552
Al	4.23720	2.01949	3.86181

Al32:

Al	-0.01678	-3.51768	2.18031
Al	-0.18854	-0.43407	4.24191
Al	-1.80175	-2.03032	-4.48971

Al	-2.09969	0.32425	-2.87584
Al	2.27385	2.73458	-1.14157
Al	-0.19760	4.17176	1.75177
Al	0.28266	-3.06485	-2.99782
Al	2.44595	-1.93510	-4.25708
Al	-0.12324	4.15517	-1.12231
Al	-2.39332	0.27455	2.61844
Al	2.27111	-2.21637	1.14115
Al	-2.32481	-2.43127	0.85389
Al	2.13753	0.26929	2.82557
Al	0.26961	-0.27320	-4.14394
Al	0.14726	1.99951	-2.74860
Al	2.17384	2.65572	1.65616
Al	-2.18021	-2.20925	-1.77689
Al	2.45736	-2.05610	-1.49228
Al	-2.37348	2.63200	1.33843
Al	0.10086	-3.32601	-0.40959
Al	-0.16196	1.93627	3.13787
Al	2.46105	0.43640	-2.61762
Al	-2.23898	2.58325	-1.40030
Al	-2.23640	0.13788	-0.11671
Al	2.27268	0.31538	0.11065
Al	-0.04090	1.72412	0.22497
Al	0.10337	-0.62785	-1.37868
Al	-0.08982	-0.79728	1.46971
Al	1.89385	-2.21202	3.73483
Al	-2.17089	-2.22677	3.44608
Al	-0.22123	-3.15300	4.89342
Al	1.99222	5.14478	0.38229

Al34:

Al	3.82763	1.85249	-0.29435
Al	-1.86442	-2.49767	-3.14324
Al	-0.64909	-0.77575	1.71123
Al	-0.64788	-0.43190	4.42644
Al	-0.86079	4.08177	-1.60971
Al	-0.10261	-3.70654	-1.40295
Al	-2.89197	0.36464	2.95203
Al	-0.35327	1.77658	-2.84864
Al	3.79824	1.57077	2.37874
Al	0.05778	-0.65080	-3.78898
Al	-2.87834	0.05917	0.26622
Al	-2.80098	2.56002	1.25011
Al	-2.51336	-0.05808	-2.43084
Al	-0.69885	1.90119	2.83996

Al	1.66780	0.43653	0.76101
Al	1.32214	-2.17367	3.05663
Al	1.57341	2.97917	1.84231
Al	-0.59701	1.64125	-0.05838
Al	1.97874	0.58278	-2.12773
Al	-0.26456	-0.92679	-1.08348
Al	-0.68049	4.19084	1.07145
Al	1.59398	0.63988	3.55559
Al	-2.59123	-2.46390	-0.62627
Al	-1.06538	-3.04563	3.70737
Al	-2.97264	2.40760	-1.47001
Al	3.62586	-1.11570	2.15847
Al	1.56069	3.03778	-1.07018
Al	-3.03559	-2.23249	1.96122
Al	-0.58416	-3.55024	1.18342
Al	1.66874	-2.32555	0.35816
Al	0.45397	-3.41905	-4.11250
Al	1.96476	-2.09000	-2.31764
Al	3.69951	-0.81529	-0.55558
Al	-3.15718	-1.68685	4.68461

Al36:

Al	2.38073	-2.69076	2.02942
Al	1.04337	4.51891	0.25010
Al	-0.89059	-0.01144	-1.45504
Al	-2.01791	-1.99490	-3.01489
Al	-1.66846	-0.26012	4.33282
Al	2.31749	2.99633	-1.67565
Al	-3.72776	-0.19353	-1.61345
Al	0.18119	1.32933	3.34003
Al	1.63582	-4.34833	-0.05117
Al	2.01420	2.84014	2.21764
Al	-2.59675	1.83392	-0.12081
Al	-3.91091	-0.29509	1.02829
Al	-0.83553	3.15399	1.48971
Al	-2.33358	-2.15047	-0.25541
Al	1.07449	-1.31750	0.01292
Al	0.85458	-1.26225	-3.24028
Al	-0.40406	-3.32537	1.26684
Al	-1.07128	-0.11758	1.30682
Al	4.20983	-3.74277	0.17426
Al	2.30115	0.07902	2.17101
Al	0.88766	1.44358	0.10870
Al	-2.42322	-2.20600	2.51855
Al	-0.20025	-3.23118	-1.57211

Al	-0.63187	3.27277	-1.35408
Al	-1.00700	0.08559	-4.52695
Al	-2.67953	1.68991	2.65112
Al	2.68729	-2.54196	-1.86201
Al	0.36969	-1.51783	3.24484
Al	-2.27779	1.90886	-2.88312
Al	0.66703	1.57868	-3.14571
Al	2.63231	0.23741	-1.80898
Al	3.67570	4.24972	0.44090
Al	3.72917	1.56754	0.34213
Al	3.90786	-1.07518	0.25397
Al	-4.23499	-0.40436	3.68857
Al	-3.64756	-0.09636	-4.29716

Al38:

Al	2.75232	2.13440	1.81266
Al	-4.36457	1.27375	-0.21228
Al	0.04348	-1.05411	-1.72325
Al	1.95577	-2.31155	-3.15754
Al	-0.05981	-1.89845	4.46957
Al	-2.73573	2.46428	-2.15414
Al	0.09306	-3.96247	-1.80993
Al	-1.43429	0.11503	3.07257
Al	4.44729	1.22633	-0.14220
Al	-2.66624	2.19867	1.79480
Al	-1.87189	-2.52999	-0.41925
Al	0.09352	-3.98370	0.82929
Al	-3.15677	-0.68803	1.08306
Al	1.99561	-2.52607	-0.37060
Al	1.43269	0.94599	-0.38671
Al	1.45099	0.62103	-3.40796
Al	3.14487	-0.64876	1.22308
Al	0.06430	-0.93507	1.04401
Al	4.06490	3.84644	-0.01761
Al	0.03169	2.15345	1.68917
Al	-1.35521	0.94049	-0.37585
Al	1.80688	-2.50297	2.45854
Al	3.34074	-0.58125	-1.70766
Al	-3.22190	-0.54616	-1.76024
Al	-0.00656	-1.17969	-4.87093
Al	-1.77803	-2.56421	2.34445
Al	2.85501	2.47835	-2.12809
Al	1.32513	0.30874	3.25026
Al	-1.86469	-2.35604	-3.16453
Al	-1.32496	0.65315	-3.45438

Al	0.05390	2.63915	-2.24030
Al	-3.96744	3.88231	-0.07926
Al	-1.26847	3.75486	-0.12192
Al	1.36988	3.77240	-0.06838
Al	0.01182	-4.31395	3.43752
Al	0.08994	-3.85107	-4.54943
Al	-0.28754	0.40048	5.65172
Al	-1.04437	2.63133	4.15547

Al40:

Al	1.81495	-2.98121	-0.98047
Al	0.19795	1.55829	-2.67879
Al	-4.25994	1.25065	-1.13187
Al	2.79128	4.20638	0.33724
Al	2.17773	-0.52877	3.19836
Al	-2.54127	-2.39996	-0.96362
Al	-4.69327	-1.18398	0.39320
Al	-1.57995	4.78996	0.35735
Al	-0.46700	-3.41933	-2.46352
Al	0.51341	3.85522	-1.16249
Al	-1.88341	2.44513	1.90425
Al	1.83142	-2.78986	-3.79875
Al	0.19636	1.45725	0.36789
Al	-2.54912	-2.36643	1.78542
Al	-2.16309	0.17512	-2.48097
Al	-3.98461	3.53449	0.35407
Al	0.21436	1.51600	3.35507
Al	4.21512	-2.37425	0.35447
Al	2.43127	1.92126	-1.12531
Al	4.53249	-0.05240	1.72861
Al	-0.13119	-1.01849	1.75434
Al	-2.17974	0.07929	0.36745
Al	2.12408	-0.49584	0.34774
Al	0.51725	3.80154	1.80460
Al	-0.48391	-3.64059	0.30547
Al	-1.84656	2.49485	-1.10615
Al	-4.37791	1.13773	1.76886
Al	2.47591	1.86582	1.88399
Al	-0.14196	-1.02823	-1.10525
Al	1.85064	-2.95103	1.77211
Al	4.78078	2.35946	0.31047
Al	-0.13356	-0.87395	-3.96238
Al	2.11534	-0.39783	-2.50159
Al	-2.22116	0.05116	3.21803
Al	-2.53167	-2.20602	-3.78013

Al	-4.61943	-1.14203	-2.41403
Al	4.14044	-2.31662	-2.45333
Al	4.43214	0.08513	-1.17163
Al	-0.11074	-0.96687	4.54693
Al	-0.45135	-3.45594	3.07452

Al42:

Al	2.25804	0.16308	2.90841
Al	0.22561	-3.23686	-0.19479
Al	-4.20910	-1.47676	-0.23191
Al	2.52661	-1.93123	-4.13097
Al	2.46212	2.84878	-1.16070
Al	-2.14227	0.04886	2.75541
Al	-4.42894	0.90517	1.35118
Al	-1.90438	-2.00446	-4.29500
Al	0.02316	-0.85724	4.16483
Al	0.29448	-2.96109	-2.95730
Al	-1.95924	0.39866	-2.86190
Al	2.26036	-2.44169	4.01531
Al	0.17147	4.21023	-1.26739
Al	0.22442	-0.54152	-1.46228
Al	-2.14681	2.46634	1.59148
Al	-2.01144	-2.39301	1.13452
Al	-4.18772	-1.27708	-2.95402
Al	0.24552	2.07292	-2.90108
Al	4.55596	1.04063	1.61719
Al	2.42715	-2.23557	-1.40068
Al	4.64963	1.21887	-1.17863
Al	0.11705	1.86827	0.12149
Al	-2.02001	0.19989	-0.05446
Al	2.29333	0.23795	0.09043
Al	0.29843	-0.33206	-4.22901
Al	0.04930	1.69385	3.14468
Al	-1.92471	-2.22947	-1.55499
Al	-4.33743	1.08283	-1.51577
Al	2.43915	0.51304	-2.70976
Al	0.13202	-0.71803	1.39383
Al	2.37228	2.67416	1.66607
Al	4.66732	-1.14240	-2.63327
Al	0.11115	-3.29965	2.57817
Al	2.33956	-2.40080	1.26722
Al	-2.05102	2.65611	-1.41172
Al	-2.17587	-2.51250	3.87535
Al	-4.36625	-1.61466	2.48747
Al	4.49367	-1.48314	2.76953

Al	4.59040	-1.43083	0.06007
Al	0.07210	4.02007	1.79248
Al	-4.41561	3.34439	0.06393
Al	-2.01347	4.87003	0.23968

Al44:

Al	2.26249	-2.35699	-1.39465
Al	-0.10977	1.73625	-2.94435
Al	-4.65880	0.71873	-1.30106
Al	2.11382	4.77927	-0.00089
Al	2.29902	0.09534	2.70729
Al	-2.21245	-2.47060	-1.29240
Al	-4.56679	-1.73585	0.08997
Al	-2.33966	4.66580	0.09560
Al	0.01431	-3.22358	-2.73017
Al	-0.12840	3.97512	-1.42470
Al	-2.25890	2.28665	1.51178
Al	2.19269	-2.26864	-4.16108
Al	0.11505	-0.75626	4.14996
Al	-0.03823	1.57328	0.01514
Al	-2.14669	-2.48576	1.35007
Al	-2.29980	0.03396	-2.70311
Al	-4.58407	3.03664	0.12990
Al	0.02813	1.67959	2.97820
Al	4.64604	-1.51433	-0.12543
Al	2.14276	2.42184	-1.46163
Al	4.61884	0.91487	1.31231
Al	0.05166	-0.80131	1.35581
Al	-2.28711	-0.05768	0.05207
Al	2.28443	0.05386	-0.05104
Al	-0.06190	3.93983	1.49926
Al	0.08076	-3.41433	-0.03132
Al	-2.32153	2.30875	-1.35994
Al	-4.59273	0.69636	1.52366
Al	2.38746	-2.34531	4.01319
Al	2.21036	2.39355	1.40867
Al	-0.01537	-0.77958	-1.36987
Al	2.32541	-2.38085	1.24500
Al	4.42945	3.25274	-0.07070
Al	-0.07906	-0.67934	-4.16074
Al	2.16580	0.14514	-2.80178
Al	-2.16952	-0.01369	2.80530
Al	-2.26999	-2.37950	-4.06375
Al	-4.53645	-1.65572	-2.63327
Al	4.48029	-1.43058	-2.83986

Al	4.55042	0.94306	-1.50904
Al	0.13973	-3.26701	2.67064
Al	4.60968	-1.48502	2.59460
Al	-4.40651	-1.69635	2.80731
Al	-2.08402	-2.45056	4.12307

Al50:

Al	3.55522	-1.48781	0.34038
Al	1.75198	0.36222	-0.83331
Al	1.75082	-0.10522	4.68838
Al	-4.29001	0.25693	-1.26121
Al	2.86798	2.17194	3.52164
Al	3.44891	-1.77291	3.24558
Al	0.12137	2.02412	0.67301
Al	0.68474	-2.20567	3.11534
Al	-1.58269	3.55818	2.33407
Al	4.64607	0.72689	-0.75014
Al	-3.12349	-1.51255	2.97086
Al	-1.30117	-3.33004	1.66427
Al	-2.64791	1.73607	0.39849
Al	0.33080	1.31901	-2.97855
Al	4.30925	3.33121	-1.40931
Al	-2.75554	-1.56860	-2.56598
Al	0.59472	-1.71738	-2.43546
Al	-2.42865	1.22010	-3.14250
Al	1.74261	0.10227	1.87132
Al	3.09548	1.50671	-2.98189
Al	-0.91659	-0.58400	-4.47337
Al	-1.04412	0.02138	-1.02744
Al	-2.72787	1.25347	3.24787
Al	-4.66408	0.15260	1.50010
Al	2.57629	-3.45093	-1.19343
Al	2.93123	2.41767	0.75803
Al	4.56663	0.49173	2.04122
Al	1.14548	3.98569	2.46412
Al	-2.89292	-1.53577	0.19596
Al	-4.26525	3.14221	2.00804
Al	1.54979	3.32025	-1.38494
Al	-5.80195	2.15846	0.03733
Al	-0.00015	1.70662	3.46334
Al	-3.96086	3.04098	-1.74943
Al	1.87456	-0.35867	-4.52250
Al	-1.02817	-0.52136	4.59551
Al	-0.11671	4.82913	0.30587
Al	2.62222	-3.73142	1.56294

Al	-1.23071	-3.25374	-1.09418
Al	3.49902	-1.21030	-2.40569
Al	-1.18919	3.03057	-1.52576
Al	-2.85797	4.67116	0.13516
Al	-0.96608	-0.30697	1.71727
Al	0.74353	-1.95761	0.31256
Al	2.30613	-3.18810	-3.88611
Al	-1.53984	-3.17225	4.39379
Al	-1.14237	-3.38861	-3.89261
Al	0.61266	-4.90300	-2.47560
Al	0.60991	-4.82408	0.25435
Al	0.56996	-2.42685	-5.79854

Al60:

Al	2.65960	1.68881	2.77700
Al	2.63270	-0.58847	1.15551
Al	2.42238	4.42476	-1.16567
Al	-2.07095	-2.77137	-1.45549
Al	4.69241	2.76449	-1.42565
Al	2.61663	4.17099	1.58592
Al	2.43777	-0.33584	-1.60691
Al	0.11758	3.59182	0.31795
Al	2.25524	0.15593	-4.48712
Al	4.96782	0.18520	2.48760
Al	-2.41626	2.42236	-2.45314
Al	-2.33259	2.09206	0.36074
Al	-0.15268	-1.11663	-2.78337
Al	2.16357	-3.23549	0.89539
Al	-1.88078	-3.01926	1.21207
Al	0.22505	-1.60734	2.52997
Al	-0.00329	-4.27814	-0.39133
Al	2.48214	1.83776	-0.01223
Al	4.60659	-2.45559	2.17415
Al	0.18190	-4.43654	2.33766
Al	0.09861	-1.43576	-0.13977
Al	-0.18524	1.54464	-3.92213
Al	-2.71082	0.27765	-4.05802
Al	0.39679	0.80539	4.11996
Al	4.97484	0.25912	-0.33323
Al	4.87940	2.52158	1.22417
Al	4.56782	0.69533	-3.09300
Al	-2.54614	-0.10212	-1.19310
Al	-0.41626	-3.35594	-5.76309
Al	-0.36537	-0.65764	-5.44751
Al	4.44736	-2.34474	-0.53347

Al	2.26148	2.19966	-2.77766
Al	-0.20864	-3.93490	-3.10173
Al	2.34544	-3.20035	3.62340
Al	0.04430	3.85754	-2.40807
Al	4.22567	-1.96571	-3.21561
Al	0.43418	3.36167	3.03253
Al	-2.35058	-0.35326	1.50249
Al	2.87672	-0.62999	4.07633
Al	1.97757	-2.99688	-1.76333
Al	1.77068	-2.46030	-4.43917
Al	-0.03024	1.18718	-1.22011
Al	0.15821	0.94656	1.40433
Al	0.40806	-1.63713	5.23432
Al	-2.20077	4.62912	-0.82676
Al	-1.76184	-3.13840	3.93804
Al	-2.09358	-0.49784	4.37489
Al	-2.00153	4.38026	1.94803
Al	-2.00688	1.91026	3.16886
Al	0.35679	-4.34636	5.06233
Al	-2.33991	-2.39369	-4.14708
Al	-4.40414	-1.63345	-2.59581
Al	-4.46156	0.44580	3.23531
Al	-4.35175	5.21192	0.78798
Al	-4.49836	2.80959	2.00011
Al	-4.01604	-2.13384	2.85888
Al	-4.40014	-1.96867	0.13767
Al	-4.69849	3.05868	-0.79740
Al	-4.90701	0.62460	0.41476
Al	-4.87987	0.96110	-2.43288

Al70:

Al	1.51295	-2.75981	2.98526
Al	-2.76688	-0.99681	1.37040
Al	2.86751	-0.63808	-1.33805
Al	-2.79946	-0.82769	-4.30929
Al	1.15686	5.19820	0.01464
Al	4.40227	-2.53962	2.90792
Al	0.03181	-0.85464	1.50878
Al	2.83122	-0.72387	1.40547
Al	0.02044	-0.99250	4.31192
Al	-0.17662	3.05424	4.25401
Al	-5.57945	-1.10378	-1.46168
Al	-5.60216	-1.14816	1.34867
Al	0.04098	-0.66880	-1.26525
Al	1.31132	1.15856	2.78785

Al	4.24336	1.42096	-2.79260
Al	-1.44717	1.15200	-5.63498
Al	-4.34485	0.91088	2.76169
Al	-1.52072	1.11332	0.03526
Al	3.01117	-4.50088	1.45976
Al	4.40050	-2.63281	-0.00458
Al	1.34534	1.28842	-2.75367
Al	2.86336	-0.70814	4.29474
Al	-2.94497	2.98590	-4.24283
Al	-4.36593	1.02528	-0.03303
Al	-1.26501	-2.75323	0.01695
Al	1.12348	5.03552	2.78918
Al	-1.45068	1.02440	2.77031
Al	1.56990	-2.55187	-2.82713
Al	4.20195	1.32673	2.81797
Al	-1.63987	4.89725	2.77085
Al	-2.53395	-4.74249	-1.53802
Al	-2.83523	-0.98355	4.25825
Al	1.39302	1.29680	-5.61943
Al	-1.48296	0.99613	5.55997
Al	-0.15637	3.05175	1.39656
Al	-2.77456	-0.91739	-1.37275
Al	-4.11660	-3.05622	-0.05886
Al	-1.65754	5.05991	-0.00321
Al	1.30920	1.13068	5.58095
Al	-2.57067	-4.77428	1.43136
Al	1.40374	1.25946	0.05371
Al	2.74052	3.25360	1.37533
Al	-0.14390	3.09019	-1.39436
Al	-1.43231	1.14969	-2.77055
Al	3.01368	-4.46297	-1.50682
Al	4.39620	-2.44936	-2.91243
Al	2.74411	3.29184	-1.34978
Al	0.06000	-0.70189	-4.20541
Al	-2.97116	2.87353	4.16258
Al	2.91480	-0.54667	-4.27833
Al	5.68331	-0.54520	-1.38536
Al	-3.03771	3.00375	-1.38225
Al	-1.27577	-2.69308	-2.84258
Al	1.13447	5.14294	-2.77509
Al	-4.32930	0.99877	-2.84416
Al	2.62266	3.14768	4.19962
Al	-0.13304	3.15967	-4.25806
Al	-1.02403	-6.50625	-0.06877
Al	4.24405	1.44865	0.02188
Al	-1.60931	5.00661	-2.79377

Al	-1.27538	-2.89458	2.96819
Al	-4.09149	-2.87461	-2.96286
Al	0.23430	-4.51298	-1.52284
Al	1.53011	-2.61617	0.03279
Al	0.21623	-4.59142	1.50485
Al	-3.06232	2.96714	1.33668
Al	-4.17151	-2.95471	2.85543
Al	2.68221	3.26955	-4.20744
Al	5.66916	-0.59514	1.42842
Al	1.66532	-6.37100	-0.05565

Al146:

Al	-0.00063	-0.00318	0.09313
Al	-0.00494	-0.00035	2.80767
Al	0.00256	-0.00192	-2.61886
Al	0.73645	2.26984	1.26250
Al	0.73602	-2.27217	1.26092
Al	-0.73830	-2.27192	-1.14174
Al	-0.73844	2.26693	-1.14106
Al	2.38347	-0.00157	1.25973
Al	-2.38475	-0.00190	-1.13995
Al	1.92889	1.39882	-1.13940
Al	1.92993	-1.40419	-1.14106
Al	-1.93315	-1.40500	1.26148
Al	-1.93346	1.40339	1.26095
Al	-0.00484	0.00110	5.63202
Al	0.00382	-0.00395	-5.23383
Al	0.74762	2.32095	4.02108
Al	0.74543	-2.32399	4.02119
Al	-0.76117	-2.35925	-3.91060
Al	-0.76026	2.35374	-3.90902
Al	2.43204	-0.00246	4.01901
Al	-2.47023	-0.00172	-3.90810
Al	1.47141	4.54025	2.43511
Al	1.47208	-4.54536	2.43340
Al	-1.47911	-4.56012	-2.31722
Al	-1.48167	4.55689	-2.31596
Al	3.20145	2.32965	2.48350
Al	3.20156	-2.33553	2.48072
Al	-3.21321	-2.34081	-2.40337
Al	-3.21521	2.33738	-2.40295
Al	4.77014	-0.00442	2.43217
Al	-4.78690	-0.00153	-2.31468
Al	0.00387	4.67450	0.04913
Al	0.00294	-4.67735	0.04771

Al	2.73892	3.78250	0.04967
Al	2.73828	-3.78704	0.04742
Al	-2.74994	-3.78014	0.04642
Al	-2.75202	3.77713	0.04787
Al	4.44421	1.43613	0.04855
Al	4.44372	-1.44341	0.04768
Al	-4.44246	-1.45020	0.04711
Al	-4.44350	1.44807	0.04731
Al	1.22881	3.78097	-2.40137
Al	1.22728	-3.78436	-2.40262
Al	-1.22728	-3.77343	2.48275
Al	-1.22749	3.76861	2.48145
Al	3.87506	2.81296	-2.31445
Al	3.87204	-2.81789	-2.31387
Al	-3.86455	-2.80802	2.43453
Al	-3.86704	2.80594	2.43197
Al	3.97545	-0.00241	-2.40024
Al	-3.96589	-0.00076	2.47986
Al	2.00578	1.45349	-3.90830
Al	2.00554	-1.45678	-3.90932
Al	-1.97781	-1.43588	4.02464
Al	-1.98031	1.43233	4.02035
Al	0.00385	-0.00593	-7.87771
Al	0.79481	2.48631	6.72505
Al	0.78991	-2.48315	6.72562
Al	-0.79574	-2.47940	-6.66412
Al	-0.78845	2.47024	-6.66385
Al	2.59839	-0.00287	6.72371
Al	-2.59295	-0.00545	-6.66478
Al	1.52168	4.69971	5.28384
Al	1.50968	-4.70460	5.28361
Al	-1.52373	-4.70711	-5.14580
Al	-1.51529	4.70372	-5.14241
Al	3.34511	2.43686	5.31987
Al	3.34039	-2.44107	5.31854
Al	-3.30870	-2.41226	-5.25051
Al	-3.30296	2.40626	-5.25124
Al	4.92938	0.00335	5.28242
Al	-4.93557	-0.00613	-5.14194
Al	2.20841	6.81127	3.61313
Al	2.20471	-6.81517	3.60765
Al	-2.21963	-6.84487	-3.46133
Al	-2.22007	6.84109	-3.45457
Al	4.06375	4.69650	3.70664
Al	4.05864	-4.70188	3.70988
Al	-4.04110	-4.69511	-3.62991

Al	-4.04091	4.69022	-3.63444
Al	5.71475	2.41656	3.70942
Al	5.71486	-2.42167	3.70926
Al	-5.70450	-2.40125	-3.63182
Al	-5.70581	2.39825	-3.63324
Al	7.15119	-0.00314	3.61092
Al	-7.18706	0.00056	-3.45758
Al	0.74353	7.06194	1.23012
Al	0.73575	-7.06577	1.22709
Al	-0.72720	-7.09129	-1.11536
Al	-0.72159	7.08870	-1.11262
Al	3.54652	6.14878	1.23103
Al	3.54289	-6.15595	1.22526
Al	-3.57594	-6.16408	-1.11513
Al	-3.57832	6.16234	-1.11077
Al	5.30171	3.85521	1.28856
Al	5.30253	-3.86270	1.28954
Al	-5.31118	-3.86466	-1.20540
Al	-5.31544	3.86357	-1.20593
Al	6.93924	1.47970	1.23126
Al	6.94121	-1.48201	1.22737
Al	-6.96225	-1.50760	-1.11580
Al	-6.96389	1.50244	-1.11276
Al	2.02776	6.24474	-1.20535
Al	2.02337	-6.25096	-1.20940
Al	-2.02577	-6.23857	1.29089
Al	-2.02356	6.23706	1.29249
Al	4.74387	5.30527	-1.11481
Al	4.74337	-5.31351	-1.11725
Al	-4.74565	-5.27875	1.22980
Al	-4.74731	5.27695	1.23241
Al	6.51346	2.87487	-1.11416
Al	6.51639	-2.87788	-1.11500
Al	-6.48627	-2.88813	1.22871
Al	-6.48992	2.88363	1.22968
Al	6.56852	-0.00031	-1.20745
Al	-6.55942	-0.00223	1.29224
Al	0.51604	6.17173	-3.62982
Al	0.51536	-6.17658	-3.63022
Al	-0.53439	-6.19368	3.70993
Al	-0.53338	6.19004	3.70677
Al	3.21130	5.29149	-3.63055
Al	3.20921	-5.29234	-3.63756
Al	-3.21227	-5.31993	3.71047
Al	-3.21204	5.31036	3.71486
Al	5.81831	4.22465	-3.45464

Al	5.82069	-4.22934	-3.45270
Al	-5.79423	-4.20841	3.60855
Al	-5.79969	4.20819	3.60723
Al	6.02710	1.41549	-3.62969
Al	6.02453	-1.42096	-3.63433
Al	-6.05205	-1.41106	3.70882
Al	-6.04982	1.41045	3.71368
Al	1.27107	3.89587	-5.24994
Al	1.27272	-3.89496	-5.25238
Al	-1.28968	-3.94637	5.32239
Al	-1.28971	3.93661	5.32044
Al	4.00081	2.90522	-5.14459
Al	4.00402	-2.90810	-5.14275
Al	-3.99637	-2.90876	5.28644
Al	-4.00244	2.90528	5.28253
Al	4.09803	-0.00348	-5.24726
Al	-4.14929	-0.00074	5.31742
Al	2.10743	1.52358	-6.66086
Al	2.11108	-1.52755	-6.66368
Al	-2.11769	-1.52856	6.72988
Al	-2.12178	1.52444	6.72416

Zn3:

Zn	-1.69588	0.00249	-0.00052
Zn	0.85131	1.46739	0.00196
Zn	0.84783	-1.47074	0.00310

Zn4:

Zn	0.96625	0.96625	-0.96625
Zn	0.96625	-0.96625	0.96625
Zn	-0.96625	-0.96625	-0.96625
Zn	-0.96625	0.96625	0.96625

Zn5:

Zn	-0.77341	-1.33887	-0.00091
Zn	-0.77234	1.33793	-0.00118
Zn	1.54738	-0.00074	-0.00110
Zn	0.00019	-0.00065	2.56114
Zn	0.00124	0.00052	-2.56274

Zn6:

Zn	0.91487	1.39577	1.53907

Zn	1.10437	-0.70841	-0.39348
Zn	-1.10194	0.70862	-0.39379
Zn	-0.91477	-1.39478	1.54059
Zn	1.39105	2.19174	-1.15264
Zn	-1.39062	-2.19127	-1.15220

Zn7:

Zn	2.52693	0.90987	-1.23072
Zn	-2.53246	-0.89005	-1.22304
Zn	0.83689	2.44034	0.32925
Zn	-0.84234	-2.43657	0.33053
Zn	1.85235	0.07614	1.29513
Zn	-1.84300	-0.06798	1.30352
Zn	0.00514	-0.00071	-0.81904

Zn8:

Zn	2.98670	0.69564	-0.00084
Zn	-1.15270	0.16708	2.45084
Zn	-1.15765	0.16795	-2.44817
Zn	-2.39318	1.31151	0.00035
Zn	1.42133	-1.08812	1.40180
Zn	1.42574	-1.09661	-1.39726
Zn	-1.49017	-1.19274	-0.00025
Zn	0.31076	1.05849	-0.00211

Zn9:

Zn	0.81163	1.39902	-1.43759
Zn	0.80787	1.39720	1.43430
Zn	0.80851	-1.39833	-1.43821
Zn	0.80674	-1.39822	1.43671
Zn	-1.30223	2.24851	-0.00440
Zn	-1.30420	-2.24634	-0.00057
Zn	-1.62326	0.00250	-1.43954
Zn	-1.62649	-0.00004	1.43790
Zn	2.59098	-0.00374	0.00013

Zn10:

Zn	0.00200	0.00198	3.06010
Zn	-1.58711	0.00123	-1.67258
Zn	0.79468	1.37557	-1.67412
Zn	0.81060	1.40536	1.00776
Zn	-1.62645	-0.00073	1.01076

Zn	-1.31940	-2.27774	-0.36183
Zn	2.63229	-0.00034	-0.36157
Zn	0.79525	-1.37593	-1.67484
Zn	0.80869	-1.40780	1.00915
Zn	-1.31721	2.27876	-0.36119

Zn11:

Zn	2.21582	0.50622	1.30390
Zn	0.77747	-3.61864	0.01549
Zn	-1.03759	-1.63039	-0.79872
Zn	-0.77417	3.61794	0.01571
Zn	-0.30801	1.32762	1.59009
Zn	-1.64983	1.03176	-0.79631
Zn	0.30794	-1.32876	1.59175
Zn	-2.21499	-0.50639	1.30500
Zn	-0.00288	-0.00274	-2.62361
Zn	1.64983	-1.03307	-0.79471
Zn	1.03607	1.62879	-0.80008

Zn12:

Zn	0.26612	2.75116	-2.93849
Zn	0.40415	-2.34611	1.84767
Zn	-0.81367	0.01591	2.45534
Zn	1.96892	-1.12213	-0.07513
Zn	-2.02486	2.83261	-1.64548
Zn	-1.93399	1.04558	0.28880
Zn	1.75919	0.90358	-1.76050
Zn	0.06959	-2.96482	-0.67537
Zn	-1.89061	-1.59485	0.57845
Zn	-0.41821	-0.46103	-1.33151
Zn	1.85603	-0.27616	2.49099
Zn	0.73513	1.24049	0.62093

Zn13:

Zn	0.86637	-0.01597	3.66196
Zn	-1.61136	0.10189	-2.86278
Zn	-1.42014	2.24319	-1.41708
Zn	0.46317	-1.63027	-2.30546
Zn	-2.34898	0.04341	-0.19499
Zn	2.97046	-0.28785	2.06931
Zn	-1.31790	-0.31451	2.17282
Zn	1.99433	-0.61155	-0.37287
Zn	-2.06163	-2.18865	-1.68571

Zn	1.79900	2.17354	2.34392
Zn	0.05858	1.20733	0.45536
Zn	0.85695	1.01637	-2.06325
Zn	-0.30808	-1.74884	0.26531

Zn14:

Zn	-3.15875	0.82759	1.24376
Zn	0.36969	3.44610	-0.38774
Zn	-2.27655	2.63993	-0.68142
Zn	-1.20555	2.71420	1.75460
Zn	0.19927	-1.53958	-1.98663
Zn	1.02350	0.88589	-0.75964
Zn	2.78522	-0.82001	-1.71191
Zn	-0.62018	-3.31933	-0.11993
Zn	0.40621	0.64860	1.89453
Zn	2.56306	-0.49898	0.91123
Zn	1.93007	-2.84970	-0.33427
Zn	-1.29360	-0.80339	0.27465
Zn	0.53674	-1.95755	1.82695
Zn	-1.29337	0.56833	-2.00841

Zn15:

Zn	-2.04721	1.30069	-2.42101
Zn	0.32374	3.20645	1.17715
Zn	-1.86823	-2.86743	-0.41954
Zn	0.48940	-0.90781	3.28868
Zn	2.56400	-0.63169	1.64858
Zn	2.47020	1.81966	0.40185
Zn	-2.12913	-1.31760	-2.52298
Zn	0.20287	0.02925	-3.09512
Zn	1.38124	1.53152	2.89830
Zn	0.30361	-2.43769	-1.88953
Zn	-1.06843	0.90611	1.91633
Zn	1.83981	-0.43399	-0.96128
Zn	-2.35911	-0.16986	-0.07692
Zn	0.00435	-1.39050	0.73301
Zn	-0.09933	1.35437	-0.64723

Zn16:

Zn	-2.06970	-3.47805	0.53732
Zn	0.94946	2.40823	2.47555
Zn	-1.64062	0.30110	-3.06901
Zn	2.88894	0.87164	1.57097

Zn	0.81797	1.63029	-2.82616
Zn	0.53900	-1.09559	-2.63690
Zn	-1.43613	2.70992	-1.96376
Zn	-1.08869	0.56197	1.86262
Zn	2.04497	-1.78362	1.53156
Zn	2.20049	0.42086	-0.92480
Zn	1.01037	-0.13504	3.32270
Zn	-2.16734	0.53228	-0.47827
Zn	-1.81159	-1.93575	-1.61545
Zn	0.15860	-0.89762	-0.06875
Zn	-0.58104	-2.10817	2.26995
Zn	0.18496	1.99507	-0.01269

Zn17:

Zn	-1.26558	3.05538	-0.63935
Zn	-1.79141	-0.74202	1.96691
Zn	-0.74202	-1.79141	-1.96691
Zn	-0.74202	1.79141	1.96691
Zn	1.79141	-0.74202	-1.96691
Zn	0.74202	1.79141	-1.96691
Zn	3.05538	1.26558	-0.63935
Zn	-1.26558	-3.05538	0.63935
Zn	3.05538	-1.26558	0.63935
Zn	1.26558	-3.05538	-0.63935
Zn	-3.05538	-1.26558	-0.63935
Zn	-1.79141	0.74202	-1.96691
Zn	1.79141	0.74202	1.96691
Zn	-3.05538	1.26558	0.63935
Zn	0.74202	-1.79141	1.96691
Zn	1.26558	3.05538	0.63935
Zn	-0.00000	-0.00000	-0.00000

Zn18:

Zn	-2.26481	1.75374	-0.70653
Zn	-1.36908	1.98605	1.92512
Zn	1.36908	1.98605	1.92512
Zn	0.00000	1.86853	-2.42509
Zn	2.26481	1.75374	-0.70653
Zn	-2.26481	-1.75374	-0.70653
Zn	2.26481	-1.75374	-0.70653
Zn	-1.36908	-1.98605	1.92512
Zn	1.36908	-1.98605	1.92512
Zn	0.00000	-3.06081	-0.08592
Zn	0.00000	-1.86853	-2.42509

Zn	-1.84083	0.00000	-2.63706
Zn	1.84083	0.00000	-2.63706
Zn	0.00000	0.00000	3.07730
Zn	2.92894	0.00000	1.17460
Zn	-2.92894	0.00000	1.17460
Zn	0.00000	3.06081	-0.08592
Zn	0.00000	0.00000	-0.00472

Zn19:

Zn	0.00000	0.00000	1.34505
Zn	-0.78620	-2.41967	-1.78101
Zn	-0.78620	2.41967	-1.78101
Zn	-2.54419	0.00000	-1.78101
Zn	2.05829	-1.49544	-1.78101
Zn	2.05829	1.49544	-1.78101
Zn	0.00000	0.00000	-4.88100
Zn	1.09250	-3.36237	0.00000
Zn	1.09250	3.36237	0.00000
Zn	3.53541	0.00000	0.00000
Zn	-2.86020	-2.07806	0.00000
Zn	0.00000	0.00000	-1.34505
Zn	-2.86020	2.07806	0.00000
Zn	-0.78620	-2.41967	1.78101
Zn	-0.78620	2.41967	1.78101
Zn	-2.54419	0.00000	1.78101
Zn	2.05829	-1.49544	1.78101
Zn	2.05829	1.49544	1.78101
Zn	0.00000	0.00000	4.88100

Zn20:

Zn	-0.00273	-0.00334	4.04788
Zn	-0.00116	2.25302	2.71269
Zn	-0.00125	-2.25345	2.70683
Zn	1.71771	0.00048	2.10271
Zn	-1.71830	-0.00249	2.09605
Zn	-0.00196	4.42491	-0.39767
Zn	-0.00198	-4.43363	-0.39773
Zn	2.68133	-1.41499	0.16793
Zn	-2.68136	1.41259	0.17813
Zn	-2.68172	-1.41457	0.16834
Zn	2.68095	1.41467	0.17737
Zn	-2.68925	-0.00590	-2.17992
Zn	2.68929	-0.00563	-2.18011
Zn	-0.00284	-1.39979	0.34249

Zn	-0.00239	1.39888	0.34283
Zn	-1.28255	-2.28079	-1.90020
Zn	-1.27742	2.28833	-1.90293
Zn	1.27691	2.28800	-1.90053
Zn	1.27941	-2.28394	-1.90005
Zn	-0.00091	0.00534	-2.27156

Zn21:

Zn	1.18378	-1.69622	-1.37459
Zn	-2.66402	-0.15568	-1.31352
Zn	0.73167	-2.10869	1.30351
Zn	-1.69624	-1.99954	2.15885
Zn	-2.70061	0.44651	1.40456
Zn	-1.22224	-2.31538	-0.55984
Zn	1.17769	0.40506	-2.99766
Zn	-1.97006	2.22924	-0.48869
Zn	-0.88406	-1.19332	-2.99578
Zn	3.16364	-1.78910	0.34762
Zn	1.23114	2.12140	1.37078
Zn	-0.23006	0.13930	2.59461
Zn	-1.35283	2.48239	2.21003
Zn	-0.28522	0.16915	-0.05302
Zn	-3.60769	-1.82186	0.46921
Zn	5.37815	-3.21606	0.17294
Zn	-0.30340	4.04295	0.47878
Zn	2.34335	-0.09121	2.08784
Zn	0.60086	2.38811	-1.31355
Zn	-1.23382	1.38829	-2.95610
Zn	2.33907	0.56849	-0.56172

Zn22:

Zn	1.56665	-0.23167	2.70766
Zn	0.97413	1.73728	1.03804
Zn	-2.25157	-0.75134	1.09638
Zn	-0.95183	1.96551	-2.41179
Zn	-3.24961	-2.37584	-0.66980
Zn	1.55063	-2.35052	1.10141
Zn	1.54356	1.60287	-1.61898
Zn	2.74028	-0.01917	0.29291
Zn	-1.12804	3.38787	3.43178
Zn	0.03535	3.55007	-0.65203
Zn	-0.61314	4.94566	1.44304
Zn	2.65760	-0.59954	-2.38284
Zn	0.09166	-0.46639	-0.20158

Zn	3.44389	-2.35505	-0.67693
Zn	0.10191	-0.40429	-2.85501
Zn	-1.38927	-2.53609	-2.41413
Zn	-0.49129	-1.75511	2.72169
Zn	1.04100	-2.71668	-1.62169
Zn	-0.86914	-2.95072	0.29442
Zn	-1.59058	1.59237	0.23175
Zn	-0.85636	0.83851	2.82475
Zn	-2.34978	-0.11404	-1.67745

Zn23:

Zn	1.74117	-0.42087	2.62702
Zn	1.06529	1.57198	1.01219
Zn	-2.10935	-0.93369	1.06735
Zn	-0.84676	1.82508	-2.40384
Zn	-2.77601	3.59135	1.32763
Zn	-3.14436	-2.49724	-0.73199
Zn	1.70452	-2.49724	0.97837
Zn	1.67498	1.45950	-1.66317
Zn	2.84592	-0.16671	0.20214
Zn	-1.08283	3.12284	3.39882
Zn	0.20974	3.39338	-0.67976
Zn	-0.36198	4.75313	1.49988
Zn	2.76276	-0.73546	-2.47851
Zn	0.18152	-0.58353	-0.27471
Zn	3.58500	-2.51263	-0.81098
Zn	0.20568	-0.54131	-2.92015
Zn	-1.28267	-2.69511	-2.48209
Zn	-0.30390	-1.98617	2.64793
Zn	1.15451	-2.86192	-1.73687
Zn	-0.72928	-3.07331	0.18766
Zn	-1.57246	1.44858	0.18968
Zn	-0.68632	0.59181	2.79618
Zn	-2.22462	-0.27036	-1.74845

Zn24:

Zn	3.84366	1.06665	1.31655
Zn	1.33231	-1.99091	0.00278
Zn	1.17185	1.22279	-1.42946
Zn	2.53980	2.97660	-0.01289
Zn	0.09174	-0.32977	-3.30481
Zn	3.87551	-1.25404	0.02185
Zn	-1.39648	1.42984	-2.02558
Zn	0.06041	-0.31678	3.32680

Zn	-2.57786	2.63344	-0.00804
Zn	-3.85637	0.66444	1.27002
Zn	-3.84616	0.66792	-1.28220
Zn	2.40654	-0.92692	2.19674
Zn	2.44687	-0.94551	-2.18832
Zn	-0.63805	-0.10337	0.00380
Zn	0.13221	-2.65735	-2.28272
Zn	3.87257	1.05103	-1.28389
Zn	-1.42813	1.41833	2.03248
Zn	-1.21933	-2.68357	0.00353
Zn	1.14489	1.26278	1.45624
Zn	-2.16345	-1.12896	-2.16422
Zn	-2.17463	-1.14443	2.14054
Zn	-3.64300	-1.66099	-0.01410
Zn	-0.10787	3.38666	-0.06035
Zn	0.12998	-2.63793	2.28609

Zn25:

Zn	-3.33843	0.63908	1.12862
Zn	-0.69152	3.00081	-1.39229
Zn	0.92308	3.48388	0.50815
Zn	1.15116	1.01633	-1.46202
Zn	-2.03751	-1.73411	-1.94794
Zn	-2.54491	-1.60312	2.37263
Zn	-1.07359	0.52141	2.79772
Zn	1.18970	0.96792	1.52346
Zn	1.23580	-1.61760	0.36628
Zn	-1.33852	2.46220	1.14234
Zn	0.30535	-2.85408	-1.74032
Zn	-3.19107	2.36139	-0.85656
Zn	3.79876	0.68318	1.72382
Zn	3.97817	-1.59885	0.35737
Zn	3.22658	2.61007	0.07188
Zn	0.26572	-0.85424	-3.27824
Zn	-3.88081	0.07167	-1.69270
Zn	-1.12661	-2.69561	0.45325
Zn	4.05199	0.57149	-1.15052
Zn	2.63719	-1.41405	2.66855
Zn	-0.85474	-0.00977	-0.02939
Zn	-1.48358	0.84149	-2.53265
Zn	0.04190	-1.80622	2.79380
Zn	2.50973	-1.31343	-1.94710
Zn	-3.72097	-1.76994	0.13047

Zn30:

Zn	2.97643	1.61086	0.22828
Zn	1.00023	3.03688	1.18318
Zn	-0.85250	3.18810	-0.73691
Zn	-2.22223	1.74982	-2.35370
Zn	0.22820	1.81212	-3.14684
Zn	-1.63265	-0.69057	-3.17518
Zn	3.52648	-0.38966	1.83337
Zn	0.01280	0.00738	-1.18513
Zn	-2.88700	1.77138	0.19688
Zn	1.99952	-3.01197	-1.38961
Zn	-2.32169	-2.33084	-0.78049
Zn	-0.00374	-0.00538	1.17196
Zn	-0.36848	-2.78846	-2.37037
Zn	-2.10877	-2.88381	1.78760
Zn	1.46452	-1.06051	-3.15709
Zn	0.03771	0.02870	-5.21399
Zn	2.63215	1.08657	-2.33226
Zn	-1.45223	3.24165	1.82749
Zn	-1.33906	-0.89200	3.39008
Zn	2.39042	1.65776	2.83529
Zn	-3.14980	-0.65828	1.13275
Zn	3.18755	-0.84192	-0.74250
Zn	-0.09212	-3.38808	0.18247
Zn	1.39594	-0.72744	3.40579
Zn	2.12857	-2.40145	1.15619
Zn	1.62664	3.24139	-1.35352
Zn	0.22993	-2.93822	2.79546
Zn	-2.67371	1.22780	2.80328
Zn	-0.11704	1.56028	3.41203
Zn	-3.59986	-0.20512	-1.40739

Zn35:

Zn	0.10761	2.73212	1.94080
Zn	3.88243	0.34357	0.62642
Zn	1.46488	-0.24473	-0.54727
Zn	-0.52510	1.40203	-0.46876
Zn	-0.88321	3.42564	-2.84525
Zn	-3.05114	0.38838	0.30874
Zn	-0.94606	-1.17064	-0.48618
Zn	-0.01629	-2.49438	2.72424
Zn	-2.33449	4.49738	-1.11900
Zn	2.22745	1.19929	2.62455
Zn	-0.56168	-1.75704	-3.03795

Zn	-0.29691	-3.92995	-1.64469
Zn	-1.57744	-3.55585	0.62609
Zn	2.42154	-1.41443	2.10399
Zn	0.07513	1.53040	4.27195
Zn	-0.84194	0.78098	-3.04771
Zn	3.57188	-2.09651	-0.11058
Zn	-1.18704	-0.76047	4.33044
Zn	-2.71567	-3.35267	-2.08891
Zn	-2.35045	-1.45240	2.04168
Zn	-2.32083	2.89642	0.81698
Zn	1.35720	2.35321	-2.29232
Zn	1.39696	-0.65633	4.35438
Zn	1.89077	-2.53746	-2.13723
Zn	1.04116	-2.88731	0.38940
Zn	1.65305	-0.13062	-3.18143
Zn	-2.91581	1.95704	-1.81373
Zn	4.13151	-1.02983	-2.33255
Zn	0.06479	-0.05019	1.60597
Zn	-2.05985	1.16467	2.70922
Zn	-2.98520	-0.69443	-2.24129
Zn	-3.70233	-2.16467	-0.12034
Zn	3.67914	1.38041	-1.80433
Zn	0.16090	4.02187	-0.40615
Zn	2.13873	2.32573	0.25758

Zn40:

Zn	-1.31452	-3.10371	-2.53381
Zn	0.02329	-1.39559	4.39738
Zn	-0.02550	5.12066	-0.16597
Zn	-3.45830	-2.04229	1.49594
Zn	5.26647	-0.80967	0.00234
Zn	1.34774	-2.91946	2.73200
Zn	2.11777	-0.62915	-3.19802
Zn	-0.00822	-1.68125	-4.30157
Zn	-4.18745	1.93588	-0.04342
Zn	-0.00825	3.39303	1.82346
Zn	-4.35980	0.40143	2.05513
Zn	-2.13490	-0.65235	-3.17773
Zn	-0.01820	0.91617	-3.35264
Zn	3.49231	-2.00727	1.46553
Zn	3.48236	-2.09563	-1.36567
Zn	4.35772	0.31709	-2.07886
Zn	-1.30766	-2.92999	0.10146
Zn	1.33718	-2.91656	0.08957
Zn	4.16787	1.97715	-0.08093

Zn	0.00915	-0.81741	1.37749
Zn	-2.14430	1.73599	-1.99528
Zn	2.11129	1.75979	-2.01683
Zn	-0.02681	3.26688	-2.03804
Zn	-2.11316	-0.44364	3.23251
Zn	-2.11199	-0.12061	0.01464
Zn	2.14262	-0.42293	3.21459
Zn	-4.37755	0.27129	-2.04104
Zn	0.00713	1.13266	3.28383
Zn	-0.00780	1.46750	-0.04660
Zn	-5.25814	-0.86545	0.04787
Zn	-0.00135	-0.90404	-1.31993
Zn	-2.04624	3.56374	-0.10830
Zn	2.00702	3.58201	-0.12288
Zn	-2.13101	1.86885	1.89846
Zn	2.12603	1.88585	1.88012
Zn	-1.29547	-2.93368	2.74477
Zn	-3.47180	-2.13185	-1.33733
Zn	4.37306	0.44649	2.01790
Zn	1.32828	-3.09052	-2.54635
Zn	2.11286	-0.09991	-0.00582

Zn45:

Zn	-0.30322	4.73846	-1.15395
Zn	-1.65167	2.73863	-1.99624
Zn	-2.79097	-1.84142	-2.18100
Zn	-0.64431	2.88876	2.81269
Zn	0.96895	1.38140	4.29417
Zn	-0.64259	1.44980	-4.15036
Zn	3.16325	-0.68631	-2.61256
Zn	0.09826	-0.00286	-1.87682
Zn	-2.91538	0.72881	-2.91922
Zn	-0.81937	-1.47868	4.16116
Zn	1.91819	1.07701	-4.03611
Zn	1.99050	-2.91016	-2.13985
Zn	0.05633	-0.01434	1.94640
Zn	-2.98037	-0.72970	2.81103
Zn	-0.26646	-4.75597	1.16374
Zn	-4.69912	0.25544	1.17232
Zn	0.78212	-3.02363	2.74833
Zn	0.90446	3.05888	-2.71138
Zn	2.07591	-0.01820	0.05789
Zn	3.85804	-2.16050	-0.50646
Zn	2.17655	-3.84558	0.49515
Zn	1.13684	-1.38217	-4.18484

Zn	3.14213	1.92871	-1.88572
Zn	0.12308	-1.92090	-0.02083
Zn	-2.92447	1.86569	2.12440
Zn	4.87951	0.21918	-0.65411
Zn	-2.02420	3.77428	0.58666
Zn	-1.41467	-0.99477	-4.25779
Zn	3.04458	-1.90929	2.00249
Zn	-4.65785	-0.28077	-1.30799
Zn	-1.81293	-0.01769	0.04738
Zn	1.94415	2.99222	2.24936
Zn	-3.66849	2.02583	-0.48593
Zn	-1.76611	-2.85864	2.00862
Zn	-1.58885	0.96348	4.23811
Zn	1.74632	-1.08050	4.12489
Zn	2.94601	0.69701	2.68482
Zn	0.42984	-4.75224	-1.27839
Zn	2.12650	3.85290	-0.42337
Zn	3.80935	2.16633	0.66085
Zn	-3.67861	-2.05699	0.43692
Zn	-1.99420	-3.77549	-0.61309
Zn	0.34019	4.75581	1.29740
Zn	-0.56737	-2.94747	-2.82325
Zn	0.15033	1.88759	0.07822

Zn50:

Zn	-1.46970	3.49117	4.95632
Zn	-2.03541	-1.83425	-4.07061
Zn	1.25130	3.84521	1.35181
Zn	-0.53060	0.40248	-4.46330
Zn	-1.94064	0.91129	5.77695
Zn	-0.96746	3.00184	2.42036
Zn	1.34916	3.74043	-1.28016
Zn	0.50714	-1.51861	0.82387
Zn	2.02635	0.34594	-4.13456
Zn	-2.86620	0.54675	-3.24132
Zn	-0.91708	-1.38946	-1.48827
Zn	4.23856	0.52419	-0.39930
Zn	0.89688	2.67634	-3.79383
Zn	-3.83658	-1.65494	-2.29418
Zn	-0.18083	-2.27915	3.37997
Zn	3.58451	1.18491	2.01999
Zn	-2.61127	-3.65339	-1.23247
Zn	1.10434	1.13212	0.57819
Zn	1.53214	2.14465	3.30924
Zn	-0.83914	4.26723	-2.54071

Zn	3.35308	2.93555	0.15085
Zn	1.71322	-3.53193	-2.20691
Zn	-1.00385	3.66141	-0.04958
Zn	-3.67839	-1.83574	0.29871
Zn	-2.80361	1.32482	3.37860
Zn	2.32530	-2.99678	2.77404
Zn	3.50779	-1.34768	1.19406
Zn	0.41595	-4.42712	1.94462
Zn	-0.12053	-4.27648	-0.56174
Zn	1.63795	-0.54662	-1.43012
Zn	-1.73198	2.67798	-4.26468
Zn	0.53760	1.90946	5.69569
Zn	-3.98915	0.58325	-0.91488
Zn	3.13160	-2.05634	-3.72787
Zn	3.93843	-2.12198	-1.22963
Zn	-2.54038	-1.28574	2.69278
Zn	-2.85330	2.75534	-1.73772
Zn	-0.79592	-3.87785	-3.03557
Zn	0.57639	-1.86020	-3.95456
Zn	-0.02152	-0.82334	5.52299
Zn	-1.78945	-3.31405	1.28809
Zn	-1.54767	0.27113	0.46179
Zn	2.94087	2.00145	-2.26603
Zn	2.41027	-3.68556	0.24926
Zn	-3.13106	2.51540	0.89476
Zn	4.38252	-0.02598	-2.90737
Zn	-0.43054	0.37225	2.91074
Zn	-4.35271	0.30513	1.62158
Zn	1.97796	-0.48804	3.21920
Zn	-0.35904	1.28900	-1.69761

Zn55:

Zn	3.25205	4.79688	-0.15112
Zn	3.75710	-1.87476	-2.28584
Zn	-2.46733	3.43950	-1.90871
Zn	1.12050	1.42299	3.08345
Zn	2.48118	-0.62069	3.99892
Zn	3.53788	-3.16861	-0.03028
Zn	-0.09318	-0.51068	-4.31570
Zn	-2.53752	-0.58711	4.15645
Zn	1.52604	-4.94127	-0.01589
Zn	1.27998	-2.86908	3.82951
Zn	2.65357	-4.21038	2.15337
Zn	-1.36529	5.64848	1.65428
Zn	-0.93622	0.14271	1.39321

Zn	-0.96146	5.54393	-0.97680
Zn	-3.69394	2.26545	0.08699
Zn	-3.53912	0.96444	-2.17699
Zn	3.93110	-0.56406	-0.04175
Zn	1.11515	1.36215	-2.90501
Zn	1.48545	5.68240	-1.65710
Zn	3.79247	-1.86971	2.22068
Zn	-2.58533	-0.45969	-4.12049
Zn	-3.60793	-1.75618	-2.19173
Zn	-3.57791	-1.81501	2.22031
Zn	-2.63335	3.42454	2.23917
Zn	1.13881	-1.56625	1.29795
Zn	-0.03257	-0.56761	4.32808
Zn	-0.94795	-5.55252	-0.04480
Zn	-0.03268	3.78346	2.76578
Zn	0.08537	-4.64421	2.21532
Zn	-1.11456	-2.29183	0.02468
Zn	3.57418	0.78161	-2.24820
Zn	-1.40037	-2.68653	-3.37996
Zn	2.24129	3.18341	1.62504
Zn	2.64475	3.30194	-2.13147
Zn	3.92325	2.16193	-0.09594
Zn	-3.17323	4.84466	0.12024
Zn	0.00795	-4.60437	-2.27194
Zn	-4.00323	-2.95558	-0.00873
Zn	3.43713	0.80848	2.08714
Zn	1.07666	5.52966	1.05032
Zn	-2.40071	-4.16936	1.53245
Zn	2.55092	-4.16701	-2.21135
Zn	1.05146	-1.60866	-1.37736
Zn	-0.56210	2.63867	0.12450
Zn	1.17083	-2.84624	-3.90403
Zn	-1.37688	1.74413	-3.55179
Zn	1.36449	0.82924	-0.06582
Zn	0.04647	3.75688	-2.59103
Zn	-3.89006	-0.34978	0.02692
Zn	-1.02183	0.18021	-1.28421
Zn	-3.51829	0.89991	2.28258
Zn	-1.30200	-2.71313	3.34602
Zn	-1.38625	1.67875	3.71402
Zn	2.43014	-0.62175	-4.05029
Zn	-2.49540	-4.20655	-1.58397

Zn60:

Zn	2.37434	4.41736	0.05663

Zn	-3.99120	-0.38365	-2.79251
Zn	0.00170	0.00333	1.09099
Zn	-0.07355	-5.37297	-0.39317
Zn	-0.00612	-0.02078	-4.49223
Zn	-1.28758	0.45130	3.60566
Zn	2.50757	0.79303	0.88443
Zn	-2.09570	4.69166	0.85647
Zn	-1.57306	3.65171	-1.49910
Zn	0.73898	2.07779	3.12592
Zn	0.26277	4.32709	1.89508
Zn	-5.13400	-0.84785	-0.47958
Zn	-0.25733	-4.30181	1.93446
Zn	0.07019	5.37358	-0.44932
Zn	3.00395	2.26136	-1.35437
Zn	5.13556	0.84380	-0.50098
Zn	-1.86177	-1.76911	-3.63278
Zn	-2.37732	-4.41723	0.10323
Zn	-2.11988	1.75284	0.45601
Zn	5.25928	0.84555	2.08804
Zn	1.08632	3.87811	-2.27534
Zn	-5.24894	-0.82487	2.10807
Zn	3.75118	-1.10759	2.95802
Zn	5.34320	-1.51083	0.96269
Zn	-5.26809	1.47795	-1.57757
Zn	1.32402	-0.13756	-1.52341
Zn	1.29770	-0.41497	3.60417
Zn	-5.33796	1.51989	0.96176
Zn	-3.00735	-2.27534	-1.32625
Zn	-0.72850	-2.04561	3.14384
Zn	1.75086	-2.91252	2.94659
Zn	-4.42959	-2.93712	0.86654
Zn	-2.72634	-3.68862	2.58872
Zn	2.73360	3.71648	2.54763
Zn	1.56574	-3.66458	-1.46228
Zn	3.24195	1.41781	3.49751
Zn	4.06678	-3.50687	2.02361
Zn	-3.29270	2.34067	-2.89558
Zn	0.47310	2.29727	-0.07440
Zn	-1.74773	2.94413	2.92484
Zn	3.28353	-2.36709	-2.88053
Zn	-2.43671	0.59231	-4.51866
Zn	-4.06381	3.52718	2.00068
Zn	-0.71284	2.34368	-3.55636
Zn	4.05529	-3.51811	-0.56874
Zn	0.70301	-2.37521	-3.53564
Zn	-1.33072	0.12430	-1.52258

Zn	-2.50459	-0.78553	0.89919
Zn	5.26472	-1.49383	-1.57759
Zn	4.43212	2.94646	0.82485
Zn	1.85447	1.73339	-3.65243
Zn	-1.09326	-3.89728	-2.23592
Zn	2.12071	-1.74898	0.46335
Zn	2.09857	-4.68282	0.89600
Zn	-0.47513	-2.29651	-0.05458
Zn	3.98332	0.35649	-2.80549
Zn	-3.74112	1.13653	2.95736
Zn	-4.05375	3.51446	-0.59862
Zn	2.42578	-0.63492	-4.51756
Zn	-3.23280	-1.38357	3.52045

Zn70:

Zn	0.08025	-2.62198	0.62450
Zn	0.00443	-2.54887	3.65640
Zn	4.66699	1.41921	2.38133
Zn	0.05479	2.61862	-0.62056
Zn	2.29220	-1.33761	-0.56941
Zn	-2.24181	1.47747	3.65486
Zn	-2.23858	1.45776	0.47696
Zn	-3.22764	3.76661	-1.18045
Zn	-4.52285	1.00749	2.41511
Zn	-4.92208	2.62356	0.38833
Zn	-2.63869	2.81887	-3.60949
Zn	-0.05643	2.55048	-3.64212
Zn	3.07307	3.49608	2.30357
Zn	0.75122	4.65446	1.79296
Zn	4.57393	-0.69905	0.93735
Zn	1.50019	-4.36949	2.49080
Zn	2.36527	1.36535	3.67717
Zn	2.43806	2.80034	-4.28192
Zn	3.68623	-2.95047	1.94156
Zn	-1.65704	4.36739	0.80061
Zn	-1.28950	-3.88874	-3.39849
Zn	-4.53668	-1.00699	-2.34317
Zn	0.01944	1.58871	4.95353
Zn	4.73993	0.79593	-1.15707
Zn	0.11127	1.70820	2.04462
Zn	3.91161	-0.73749	3.55879
Zn	1.14879	-3.65624	-4.12113
Zn	-2.58345	-2.81127	3.66619
Zn	0.00235	-0.00351	-0.00059
Zn	-1.14154	-4.58936	2.42783

Zn	1.47380	-0.79913	2.08922
Zn	2.46146	4.22423	-0.10155
Zn	-3.23260	-3.73902	1.25353
Zn	-3.53431	-3.41376	-2.27160
Zn	3.05246	-3.52040	-2.35758
Zn	-1.25819	-0.67522	4.97850
Zn	-2.30977	-1.49941	-3.67351
Zn	1.35752	-0.65576	4.99350
Zn	1.23338	3.64740	4.11673
Zn	0.23487	5.57379	-0.53890
Zn	-4.43842	-1.59558	2.02341
Zn	-1.67347	-4.33691	-0.73838
Zn	-3.73566	0.59201	-4.20335
Zn	-4.41322	1.60227	-1.93661
Zn	1.29554	0.65822	-5.00530
Zn	-4.73726	0.00163	0.03226
Zn	-1.47843	-0.69257	2.10006
Zn	-3.68641	-0.58512	4.26049
Zn	-1.16426	4.59852	-2.40389
Zn	1.45840	4.38321	-2.50704
Zn	3.80766	0.73895	-3.65412
Zn	2.26988	-1.37366	-3.65699
Zn	-2.26291	-1.45895	-0.41273
Zn	-1.52197	0.66574	-2.07261
Zn	0.00335	-1.71475	-2.05591
Zn	4.60905	-1.40474	-2.43135
Zn	3.65299	2.98338	-2.02082
Zn	2.35490	1.27852	0.46041
Zn	-4.93847	-2.61109	-0.30852
Zn	-1.21531	3.85089	3.43302
Zn	0.24535	-5.56542	0.55350
Zn	-3.49357	3.40696	2.33219
Zn	1.42322	0.80927	-2.11818
Zn	2.52043	-2.77081	4.23090
Zn	0.72340	-4.64601	-1.77908
Zn	4.72258	2.91726	0.33469
Zn	4.72549	-2.93957	-0.41690
Zn	2.49524	-4.27217	0.06821
Zn	-1.31573	0.67439	-4.96120
Zn	-0.04367	-1.58986	-4.97187

Zn146:

Zn	-0.00297	-0.00553	0.06536
Zn	-0.00203	-0.00388	2.70792
Zn	0.00175	-0.00240	-2.46181

Zn	0.69675	2.14588	1.20053
Zn	0.69245	-2.14651	1.19698
Zn	-0.70359	-2.15636	-1.03334
Zn	-0.70253	2.15634	-1.03955
Zn	2.25569	-0.00235	1.19983
Zn	-2.26712	-0.00451	-1.03772
Zn	1.83363	1.33503	-1.03758
Zn	1.83315	-1.33672	-1.03573
Zn	-1.82206	-1.32930	1.19746
Zn	-1.82694	1.32412	1.20134
Zn	-0.00583	-0.00208	5.47633
Zn	0.00264	-0.00104	-4.96970
Zn	0.72310	2.23544	3.82569
Zn	0.72550	-2.24415	3.83191
Zn	-0.72834	-2.24725	-3.73972
Zn	-0.72764	2.24362	-3.73930
Zn	2.35125	-0.00256	3.83020
Zn	-2.35754	-0.00111	-3.74142
Zn	1.39720	4.30605	2.27007
Zn	1.39423	-4.30569	2.27359
Zn	-1.39190	-4.28578	-2.20403
Zn	-1.39128	4.28684	-2.20926
Zn	3.07393	2.23343	2.36733
Zn	3.07441	-2.23885	2.36761
Zn	-3.06337	-2.22862	-2.28974
Zn	-3.05751	2.22106	-2.28359
Zn	4.52563	-0.00228	2.27544
Zn	-4.50738	-0.00288	-2.20976
Zn	0.01024	4.49689	0.03535
Zn	0.00928	-4.50559	0.03299
Zn	2.63171	3.64681	0.03299
Zn	2.63669	-3.64950	0.03267
Zn	-2.66008	-3.64083	0.03231
Zn	-2.65247	3.63087	0.03487
Zn	4.27789	1.37912	0.03594
Zn	4.28182	-1.38228	0.03416
Zn	-4.27795	-1.40156	0.03303
Zn	-4.27345	1.39695	0.03114
Zn	1.16757	3.59837	-2.28371
Zn	1.17015	-3.59934	-2.28679
Zn	-1.17972	-3.62467	2.37178
Zn	-1.17842	3.61103	2.36849
Zn	3.64647	2.64983	-2.20546
Zn	3.65280	-2.65705	-2.21144
Zn	-3.66220	-2.66387	2.27250
Zn	-3.67454	2.66856	2.27485

Zn	3.78171	-0.00030	-2.28070
Zn	-3.80369	-0.00181	2.36758
Zn	1.90919	1.38603	-3.73704
Zn	1.91302	-1.38732	-3.73998
Zn	-1.90953	-1.38617	3.82927
Zn	-1.90745	1.38210	3.82620
Zn	0.00241	-0.00204	-7.56113
Zn	0.73572	2.28624	6.51269
Zn	0.73694	-2.28870	6.51444
Zn	-0.73875	-2.28142	-6.45041
Zn	-0.73746	2.27782	-6.45259
Zn	2.39748	-0.00221	6.51567
Zn	-2.39553	-0.00239	-6.45011
Zn	1.46328	4.51850	5.09425
Zn	1.46540	-4.52576	5.09319
Zn	-1.46841	-4.52673	-4.98536
Zn	-1.46686	4.52622	-4.98697
Zn	3.24044	2.35548	5.31411
Zn	3.24098	-2.36221	5.31463
Zn	-3.26200	-2.37244	-5.20677
Zn	-3.26081	2.36820	-5.20946
Zn	4.74726	-0.00401	5.09980
Zn	-4.75965	-0.00322	-4.98778
Zn	2.10950	6.49762	3.47027
Zn	2.11100	-6.50598	3.47084
Zn	-2.11829	-6.52191	-3.34650
Zn	-2.11789	6.52354	-3.35170
Zn	3.85949	4.51346	3.61141
Zn	3.85906	-4.52118	3.61031
Zn	-3.86261	-4.51354	-3.51584
Zn	-3.85786	4.50845	-3.51828
Zn	5.48535	2.27262	3.61489
Zn	5.48542	-2.28069	3.61477
Zn	-5.48528	-2.28276	-3.51746
Zn	-5.48101	2.27743	-3.51906
Zn	6.83207	-0.00474	3.47982
Zn	-6.86007	-0.00158	-3.34662
Zn	0.74207	6.80389	1.21370
Zn	0.74310	-6.80837	1.21532
Zn	-0.72686	-6.83338	-1.13681
Zn	-0.72717	6.82941	-1.13758
Zn	3.39764	5.94226	1.21766
Zn	3.39555	-5.94536	1.21692
Zn	-3.42633	-5.95743	-1.13693
Zn	-3.42158	5.95008	-1.13764
Zn	5.28224	3.83659	1.28152

Zn	5.28277	-3.84228	1.28049
Zn	-5.31139	-3.85915	-1.20795
Zn	-5.30918	3.85630	-1.20856
Zn	6.69793	1.39253	1.22061
Zn	6.69926	-1.39976	1.22105
Zn	-6.72067	-1.42271	-1.13601
Zn	-6.71872	1.42052	-1.13785
Zn	2.02682	6.24314	-1.20820
Zn	2.03010	-6.24464	-1.20944
Zn	-2.02139	-6.21842	1.28045
Zn	-2.02268	6.21408	1.28283
Zn	4.60142	5.09713	-1.13728
Zn	4.60266	-5.10176	-1.13643
Zn	-4.60430	-5.07303	1.21801
Zn	-4.60221	5.07107	1.21404
Zn	6.26820	2.80000	-1.13189
Zn	6.27387	-2.80486	-1.13225
Zn	-6.24183	-2.81361	1.21350
Zn	-6.24463	2.81136	1.21084
Zn	6.56233	-0.00331	-1.19925
Zn	-6.53263	0.00011	1.27621
Zn	0.47380	5.92152	-3.51807
Zn	0.47393	-5.92035	-3.51543
Zn	-0.46936	-5.92942	3.61072
Zn	-0.47234	5.92405	3.60953
Zn	3.10273	5.06784	-3.51612
Zn	3.10181	-5.07053	-3.51844
Zn	-3.10834	-5.07190	3.61241
Zn	-3.10723	5.06935	3.61402
Zn	5.55198	4.03199	-3.34322
Zn	5.55711	-4.03650	-3.34531
Zn	-5.53642	-4.02192	3.47122
Zn	-5.53932	4.02012	3.47459
Zn	5.77491	1.37921	-3.50776
Zn	5.77834	-1.37935	-3.51056
Zn	-5.78099	-1.38696	3.60561
Zn	-5.78443	1.38298	3.60786
Zn	1.25012	3.83463	-5.20898
Zn	1.25014	-3.83782	-5.20876
Zn	-1.24557	-3.81915	5.31423
Zn	-1.24744	3.81618	5.31397
Zn	3.85448	2.79669	-4.98265
Zn	3.85670	-2.80026	-4.98650
Zn	-3.85147	-2.79705	5.09277
Zn	-3.85232	2.79365	5.09472
Zn	4.03704	-0.00196	-5.20420

Zn	-4.01845	-0.00111	5.31246
Zn	1.94318	1.40655	-6.44872
Zn	1.94248	-1.40964	-6.44885
Zn	-1.95176	-1.41556	6.51338
Zn	-1.95229	1.41197	6.51245