

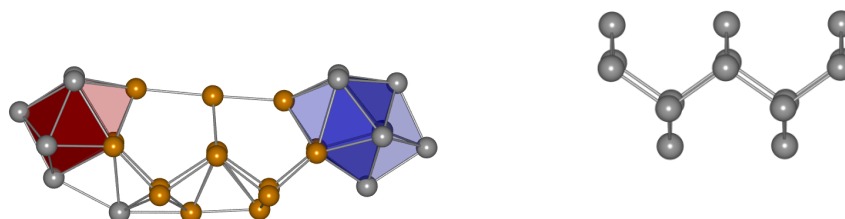
Supplementary Material

Structures of medium sized tin cluster anions

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Figure 1:



Best fitting isomer (4) of Sn_{29}^- . The 15 highlighted atoms in between the bta and ttp (left) resemble a distorted segment of the cubic diamond bulk structure of α -tin (right).

Coordinates Sn_{16}^- - Sn_{29}^- .

1. Sn_{16}^-

(1)

Sn	-0.7360274	-1.5808841	0.4906783
Sn	-3.8715243	1.5145858	1.1152701
Sn	-3.8595798	-1.5564206	1.0704501
Sn	-1.0580049	0.0334554	-2.2493303
Sn	-1.8414147	-0.0369316	2.7889131
Sn	-0.7466117	1.5658401	0.5280709
Sn	-2.5826177	2.5415035	-1.5431696
Sn	-4.1554448	0.0139723	-1.5125714
Sn	1.7779755	0.0075307	-0.9823081
Sn	2.4481343	-2.4163649	0.7587958
Sn	4.3020595	-1.5098381	-1.5199722
Sn	4.4715024	-0.0004263	1.1048728

Sn	4.3228843	1.4829480	-1.5336092
Sn	1.6141208	0.0165763	2.3620358
Sn	2.4805079	2.4253717	0.7376589
Sn	-2.5659593	-2.5009182	-1.6157848

(2)

Sn	2.7080919	0.3183744	-2.4931393
Sn	2.8184842	0.7205121	2.2845662
Sn	3.7861820	2.1444085	-0.2646231
Sn	4.2015078	-0.7988722	-0.0289147
Sn	2.1676817	-2.2016916	1.6784410
Sn	-3.8010689	-2.1342725	0.2662291
Sn	-2.7100577	-0.3168466	2.4962500
Sn	-0.8235803	-2.3886235	0.2036022
Sn	-4.1992067	0.8085305	0.0207129
Sn	-2.8156018	-0.7224540	-2.2828500
Sn	-2.1462055	2.2009212	-1.6800338
Sn	2.0815631	-2.4538327	-1.3790598
Sn	-2.0760158	2.4551852	1.3760186
Sn	-0.0357582	-0.1249677	-1.5344114
Sn	0.8057100	2.3830038	-0.2076732
Sn	0.0382744	0.1106251	1.5448852

(3)

Sn	1.1006396	-1.2184759	1.1607386
Sn	4.0801451	-0.4702599	-1.7982575
Sn	4.1901645	-1.2099555	1.2271787
Sn	2.5340482	-2.8569407	-0.7986812
Sn	0.9419674	-0.5851371	-1.9353076
Sn	2.4806153	0.8538427	2.7077280
Sn	-1.9003456	-0.1637156	-0.8296739
Sn	-1.8267364	-0.7622367	2.1862199
Sn	-4.6744801	-0.8259709	-1.7970923
Sn	-2.1295090	2.1190114	1.2890469
Sn	-3.4055418	-2.5247478	0.2950941
Sn	-4.6277810	0.1468702	1.0986894
Sn	-3.9341183	2.0153490	-1.1901656
Sn	0.8496064	1.7492790	0.3270347
Sn	3.9974937	1.7355516	0.2990446
Sn	2.3238321	1.9975363	-2.2415969

(4)

Sn	-3.0940283	-1.9654421	1.1838799
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Sn	-2.3584157	2.8962415	0.3225118
Sn	-0.1536569	-0.4035160	1.5761480
Sn	-2.6756743	0.7749271	2.5114285
Sn	-4.1958782	0.4904720	-0.1294656
Sn	0.4912518	2.0801440	0.0890169
Sn	2.5747389	0.6726614	-2.4241183
Sn	4.2308295	-0.2226700	0.0782375
Sn	3.3473965	2.6016853	-0.1401202
Sn	2.4680562	0.9024077	2.3701027
Sn	-2.3254234	1.3848131	-2.3618594
Sn	2.4611380	-2.1852261	-1.4006702
Sn	-0.3513349	-3.0015562	-0.0248004
Sn	-2.7866105	-1.5818513	-1.8404742
Sn	2.4039189	-2.0788891	1.6613205
Sn	-0.0363078	-0.3642015	-1.4711374

2. Sn_{17}^-

(1)

Sn	3.5676906	-1.2749755	1.5624748
Sn	3.5692069	-1.2771498	-1.5589264
Sn	4.2603160	1.2211593	-0.0000488
Sn	2.2728566	1.4165112	2.3524540
Sn	2.2739826	1.4123196	-2.3542933
Sn	2.1585881	3.3859362	-0.0033020
Sn	-0.1328071	1.6354348	-0.0007842
Sn	-2.6856032	1.4589061	-1.6391959
Sn	0.4402407	-0.8572982	-1.5774350
Sn	-1.5068859	-2.8680129	0.0021155
Sn	-2.3030602	-1.3913186	-2.5147887
Sn	1.6765745	-3.1684393	0.0010718
Sn	0.4410125	-0.8556254	1.5784603
Sn	-2.3024719	-1.3868335	2.5168481
Sn	-3.9966341	-0.8433509	0.0006423
Sn	-5.0471735	1.9311357	-0.0017715
Sn	-2.6858325	1.4616012	1.6364789

(2)

Sn	-1.7576884	-3.2288880	0.5183887
Sn	-0.6752341	-1.1219027	-1.2370169
Sn	-3.8011697	-1.4577289	1.7855932
Sn	-0.7332160	1.5760891	-0.0071134

Sn	-2.9088168	1.3849995	2.2800691
Sn	-0.7418398	-0.7328944	1.9277872
Sn	2.3436267	-0.3649382	0.7816603
Sn	4.8811567	0.6247521	-1.0269865
Sn	4.0658639	1.9968846	1.5311741
Sn	2.1847450	2.2366337	-0.8877797
Sn	5.1949806	-0.7810542	1.6574841
Sn	4.1419705	-2.2786592	-0.7284968
Sn	-3.2229381	3.0634055	-0.3287596
Sn	-3.7204675	-1.8722709	-1.3993223
Sn	-2.6637267	0.8131902	-2.4119002
Sn	-4.8104998	0.6085552	-0.1406768
Sn	2.2232536	-0.4661734	-2.3141045

(3)

Sn	-1.2353698	0.7851326	-2.2748352
Sn	-4.3092825	0.3374938	-1.6342172
Sn	-2.0421480	-0.8826400	2.5104269
Sn	-1.1521948	1.4222727	0.8520425
Sn	-0.9886990	-1.5592435	-0.1523862
Sn	-4.2100777	0.9702631	1.3298586
Sn	-4.0235366	-1.9423902	0.3745076
Sn	-2.6502411	-1.9494976	-2.4829088
Sn	1.9158848	-2.3888047	-0.8072719
Sn	1.5872329	-0.8837422	2.0522579
Sn	1.5290419	0.5724334	-0.9116793
Sn	3.7429196	2.5105325	-0.7232877
Sn	1.7395991	2.1432541	1.6932605
Sn	4.4384058	0.6457033	1.4538060
Sn	4.1987040	-2.2572428	1.0270584
Sn	4.4434235	-0.3916228	-1.4467278
Sn	-2.9836619	2.8680984	-0.8599041

3. Sn_{18}^-

(1)

Sn	1.9361082	-2.1650851	-1.7685302
Sn	-3.8758239	0.0994734	2.3526813
Sn	-1.7276851	-2.1324230	1.7919912
Sn	-1.3965049	-1.5935801	-1.1578808
Sn	-1.9784189	1.6146202	-1.7211484
Sn	-1.0910665	0.6688125	1.1576944
Sn	-2.9784176	2.8168969	0.9480756

Sn -4.8193852 0.9827751 -0.4213970
Sn 1.4859294 -1.5218191 1.0962071
Sn 3.6597297 -0.5417902 2.7341407
Sn 4.4545225 -1.9054176 0.0066625
Sn 1.0630651 0.6323913 -1.2606770
Sn 1.7989169 1.6864831 1.6591242
Sn -4.2721804 -1.9945367 0.1241786
Sn -3.7269100 -0.6850594 -2.6465190
Sn 3.9414850 0.1151220 -2.3183148
Sn 4.6403179 1.0789890 0.4740124
Sn 2.8863178 2.8441479 -1.0503008

(2)

Sn -2.0617391 -1.5464345 1.8030149
Sn 4.0575999 -0.3785770 -2.2058185
Sn 1.6122450 -2.1680856 -1.6213611
Sn 1.1359429 -1.1891547 1.1990412
Sn 2.0732562 1.8470660 1.4879796
Sn 1.3263795 0.7943566 -1.3294271
Sn 3.5482906 2.6035401 -1.1608038
Sn 4.8966105 0.6462871 0.5335629
Sn -1.3432642 -1.0383381 -1.1622752
Sn -3.5793707 -2.7698882 -0.6627501
Sn -4.8759672 -0.5219733 0.6606752
Sn -3.4384259 1.0651085 2.6971122
Sn -1.1304623 1.3760930 0.9560094
Sn -4.0761342 -0.0295780 -2.2274198
Sn 3.9830235 -2.2519634 0.3033598
Sn 3.4574164 -0.5419854 2.8350707
Sn -3.9699345 2.2833662 -0.1083316
Sn -1.6154665 1.8201607 -1.9976386

(3)

Sn -3.2713151 -2.4026238 -1.6855490
Sn -1.8664646 -1.9958127 1.0188365
Sn 4.3087371 -0.7106305 -2.0103799
Sn -4.3067824 0.5829558 -2.0629288
Sn -4.2689733 1.8911794 0.7769886
Sn 2.1202363 -2.6742379 -1.0887848
Sn -4.8852322 -1.1042088 0.4412548
Sn -3.3556566 -0.1577910 2.8731902
Sn -1.4461429 -0.1892642 -1.4594094
Sn -1.2525365 1.1864792 1.2919535

Sn 1.4546236 0.1675639 -1.5029727
Sn -2.1719212 2.6472371 -1.1918402
Sn 4.8955394 1.0743051 0.4250297
Sn 3.3309340 0.2783546 2.8724983
Sn 1.9022511 2.0626556 0.9079508
Sn 1.2328077 -1.0686398 1.3057668
Sn 4.2246055 -1.8993601 0.8812524
Sn 3.3552901 2.3118380 -1.7928568

(4)

Sn -2.4953228 2.4691464 1.6105799
Sn 4.5270493 -1.0819806 -1.1410891
Sn 2.8578221 -2.7496954 0.7834301
Sn 1.1779600 -0.5436347 1.7696711
Sn 1.1200871 1.7450711 -0.5513199
Sn 1.3884052 -1.2418582 -1.2918931
Sn 2.8440431 0.8037802 -2.8296924
Sn 4.1903635 1.8568477 -0.3314033
Sn 2.3890329 2.1143877 2.1330305
Sn 4.3138358 -0.2734924 1.8494350
Sn -1.5644124 0.0669299 0.1218288
Sn -1.8517344 2.5715103 -1.3756684
Sn -4.2681114 -1.7557008 -0.2970885
Sn -1.6156405 -2.4268776 1.5861335
Sn -3.8122170 -0.2538720 2.2982255
Sn -1.4324365 -2.5089462 -1.4998349
Sn -4.6645954 1.2621699 -0.2482477
Sn -3.1041285 -0.0537853 -2.5860970

4. Sn_{19}^-

(1)

Sn -2.5645905 1.6416029 -1.3563368
Sn -4.6684941 0.0000000 -2.6195030
Sn -3.0110685 2.5615529 1.4292904
Sn -5.4354071 1.5440928 -0.0997349
Sn -5.4354071 -1.5440928 -0.0997349
Sn -4.3923660 0.0000000 2.3275939
Sn -2.5645905 -1.6416029 -1.3563368
Sn -3.0110685 -2.5615529 1.4292904
Sn 4.3923660 0.0000000 2.3275939
Sn 3.0110685 2.5615529 1.4292904

Sn	2.5645905	1.6416029	-1.3563368
Sn	2.5645905	-1.6416029	-1.3563368
Sn	1.5046261	0.0000000	1.1725668
Sn	3.0110685	-2.5615529	1.4292904
Sn	5.4354071	-1.5440928	-0.0997349
Sn	4.6684941	0.0000000	-2.6195030
Sn	5.4354071	1.5440928	-0.0997349
Sn	-1.5046261	0.0000000	1.1725668
Sn	0.0000000	0.0000000	-1.6541902

(2)

Sn	2.9812495	-2.5498054	0.1415151
Sn	-5.0365085	1.7406417	-0.0475679
Sn	-3.7150979	0.9071034	-2.7441902
Sn	-5.1419828	-1.1558521	-1.0518270
Sn	0.9290831	-0.4664131	-0.8055978
Sn	-2.0047283	-1.2933425	-1.6636510
Sn	3.1617888	-1.3839416	-2.6218225
Sn	1.3417294	-1.0923222	2.2116733
Sn	-1.6895885	-0.6261998	1.3958311
Sn	-3.0310770	1.9047416	2.2081624
Sn	-1.9568963	1.7105163	-0.5577308
Sn	3.5712424	1.4051143	-1.6604281
Sn	0.9546246	2.5844261	-0.8002023
Sn	2.4715772	1.5528884	1.4191620
Sn	5.3177305	1.8518110	0.6990131
Sn	5.4573327	-0.8810459	-0.7053402
Sn	4.4383535	-0.7022222	2.1451877
Sn	-4.7701628	-0.5859840	1.9346299
Sn	-3.2786697	-2.9201141	0.5031835

(3)

Sn	5.3891509	-0.7380626	-0.0955155
Sn	3.6894907	-3.1052355	0.2446052
Sn	3.1875468	-1.3193315	-2.2715405
Sn	4.3059524	1.4532341	-1.8367791
Sn	-1.7633963	-0.2087818	-1.6087164
Sn	1.2253771	0.9031689	-1.5855337
Sn	-3.2775618	2.3463098	-0.5626436
Sn	-4.3875839	0.4227561	-2.7265503
Sn	4.5201817	1.7218502	1.3642996
Sn	-1.7285674	0.5162180	1.3813589
Sn	-4.2759259	1.6208212	2.2987944

Sn	2.4982665	3.2806274	-0.2150168
Sn	-5.5379941	0.3403298	-0.0141380
Sn	1.3587009	1.1574204	1.5985843
Sn	3.4416078	-0.8988171	2.4155992
Sn	1.2624226	-1.4639546	0.2020606
Sn	-1.6489897	-2.4006500	0.4906386
Sn	-4.0622689	-1.4350639	2.0415394
Sn	-4.1964095	-2.1928390	-1.1210463

5. Sn_{20}^-

(1)

Sn	-1.4839538	-1.4008487	-0.1841414
Sn	-3.3920005	-1.2919781	2.3328103
Sn	-4.7851394	1.3251824	1.7316884
Sn	-1.7679925	1.1433372	-1.7107199
Sn	-1.6071666	1.0365465	1.4848713
Sn	-3.7249586	-3.2551431	-0.0505968
Sn	-5.6629514	-1.0449813	0.1338345
Sn	-3.7037184	-1.1516730	-2.3640596
Sn	-4.9440099	1.4233509	-1.4331211
Sn	-3.0787627	3.2113912	0.0767911
Sn	3.3194794	-1.2812061	2.3318144
Sn	3.7392759	-3.2504612	-0.0316667
Sn	1.8041056	1.1151872	-1.7837748
Sn	3.7911500	-1.1651470	-2.3455803
Sn	4.7228676	1.3509216	1.7790966
Sn	5.6640077	-1.0298991	0.2280224
Sn	1.5827476	1.0426105	1.4059713
Sn	1.4896059	-1.4115775	-0.2371860
Sn	3.0589848	3.2148016	0.0176907
Sn	4.9784294	1.4195862	-1.3817444

(2)

Sn	1.4901507	1.5020372	-0.1578066
Sn	5.2137635	0.4242061	1.7173773
Sn	1.5135743	-1.4281542	-0.3884109
Sn	2.1994619	-0.3687586	2.3278444
Sn	4.4921417	2.3087021	-0.7540186
Sn	5.5868709	-0.4295561	-1.1587800
Sn	2.9103972	0.4477446	-2.5882385
Sn	3.6582352	-2.4940448	-2.0441666

Sn	4.1878121	-2.2871662	1.0202614
Sn	-1.5095843	1.4259318	-0.3830069
Sn	-2.9130580	-0.4478180	-2.5848119
Sn	-4.5025272	-2.3019314	-0.7572262
Sn	-2.2015694	0.3593305	2.3304913
Sn	-1.4876200	-1.5046866	-0.1598325
Sn	-3.6474730	2.4924175	-2.0476705
Sn	-5.5873356	0.4421114	-1.1561484
Sn	-4.1799065	2.2910968	1.0221822
Sn	-5.2152187	-0.4213939	1.7176297
Sn	-3.1466173	-2.5390870	2.0154483
Sn	3.1385028	2.5290188	2.0288832

(3)

Sn	-2.4509078	2.3333141	2.4103028
Sn	-1.4874544	1.6235426	-0.2912793
Sn	-4.2802132	-2.0298526	-2.0042412
Sn	-1.6102683	-1.2609175	-1.0060904
Sn	-5.7280700	-0.0475253	-0.3712829
Sn	-3.9238226	-2.2484928	1.0312320
Sn	-1.5868355	-0.5444573	1.9139090
Sn	-4.6912642	0.3610076	2.3846270
Sn	-3.5408573	0.9667298	-2.3408998
Sn	-4.4887061	2.5948284	0.1144575
Sn	1.4817906	1.2551310	-0.6967442
Sn	3.3992231	1.6426075	1.7821826
Sn	4.6798737	-1.1169973	1.8606731
Sn	1.6908126	-1.5973397	-1.5948030
Sn	1.5646120	-0.7646778	1.4746129
Sn	3.7857638	2.9570642	-1.0507236
Sn	5.6138224	0.7806684	-0.2500179
Sn	3.7314568	0.3351380	-2.7410650
Sn	4.9392006	-1.9746126	-1.1972892
Sn	2.9018440	-3.2651586	0.5724398

(4)

Sn	-4.1967475	-0.2064957	-1.6738187
Sn	-4.4307590	0.7613954	1.6320361
Sn	-5.1398426	-2.0407734	0.6041086
Sn	-2.1872783	-1.2096455	0.5529224
Sn	-6.7782557	0.2553071	-0.2196962
Sn	-4.8309583	2.5499857	-0.7135457
Sn	-1.8119936	1.7445044	-0.2790600

Sn	1.4191852	1.6234684	-1.8365358
Sn	-1.0875613	-0.4529992	-2.2749113
Sn	-1.0220272	0.7619571	2.5179820
Sn	4.2006552	0.3707774	-2.4764001
Sn	5.8206761	0.2357595	0.1382433
Sn	4.5906381	-2.2740764	-0.9711979
Sn	1.5682950	1.1289672	1.1080727
Sn	1.8778111	-1.1767581	-0.9229329
Sn	3.9936994	2.6403458	-0.4470005
Sn	4.1940017	1.5370149	2.3799709
Sn	-0.3427575	-3.0792189	-0.8037858
Sn	0.5201349	-1.8577553	1.9524825
Sn	3.6430844	-1.3117603	1.7330662

6. Sn_{21}^-

(1)

Sn	-5.1497036	-1.3010242	1.0889494
Sn	-1.9148211	-0.8916272	-2.1226995
Sn	-3.7477569	-2.9664996	-1.0221708
Sn	-5.0945507	-0.3712287	-1.8154566
Sn	-4.7603756	1.7103710	0.4155315
Sn	1.9949398	1.7276727	-0.8109623
Sn	-3.0535192	1.9981516	-2.1662117
Sn	4.8143541	2.0352584	-1.4531378
Sn	4.1694749	1.5225834	1.5299737
Sn	1.4789079	0.2002758	1.6867925
Sn	4.0549396	-1.4658681	2.1354701
Sn	3.5659948	-0.5142265	-2.6542168
Sn	1.0145570	-1.0555909	-1.1605014
Sn	1.2059730	-2.7327507	1.3353026
Sn	5.6396138	-0.5621378	-0.2727105
Sn	3.6034974	-2.7609316	-0.6408918
Sn	-2.0283760	-1.8926305	1.1239478
Sn	-1.8010382	0.9551343	0.2358171
Sn	-0.3994083	3.4701901	-0.5157867
Sn	-0.3760933	2.4510175	2.3319366
Sn	-3.2166094	0.4438612	2.7510247

(2)

Sn	2.0858581	0.1753082	2.7464500
Sn	4.8202652	1.2002469	1.7800039

Sn 5.8382702 -0.7204808 -0.4187260
Sn 1.6797889 -1.3989037 0.3052333
Sn 4.3406133 -1.8106951 1.9789399
Sn 2.1991056 1.6927115 0.2031337
Sn 3.2523391 -0.2913925 -2.1700097
Sn 3.8276507 -2.9300998 -0.9139405
Sn -5.0548263 -0.2426987 1.9379927
Sn -1.8295500 1.7176177 -0.0954587
Sn -1.1801563 -1.1957251 -0.4395854
Sn -1.8730334 -0.2671544 2.3483885
Sn -4.8842256 1.7874673 -0.5626633
Sn -3.1858473 -2.7395787 -1.9160656
Sn -5.4507039 -1.1452961 -0.8897829
Sn -3.4555694 -2.6137061 1.1663007
Sn -3.0679599 0.2979123 -2.5034353
Sn -3.5836940 2.2937782 2.1940067
Sn 0.4003093 0.7471555 -2.4036361
Sn 4.8245862 2.0415349 -1.1541061
Sn 0.2967795 3.4019987 -1.1930400

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Sn 1.8938671 -1.3969239 -1.1968177
Sn 2.4309486 -2.6807392 1.5759551
Sn 1.2858636 0.1069662 1.4449360
Sn 3.1523958 2.4311413 1.4879727
Sn 4.1928648 -0.3096522 2.5801911
Sn -0.3528028 -3.0597923 -2.0414297
Sn -2.1798197 -0.8152012 -1.5993316
Sn -0.6836872 -2.5105896 0.8262016
Sn -4.9849059 -1.6832311 -1.3418784
Sn -3.6160345 -1.7054006 1.3292076
Sn -1.6001142 0.7055176 1.1230611
Sn -5.8194632 0.4421977 0.6703244
Sn -3.9230849 2.8184658 0.5222879
Sn -3.8609479 0.8244985 2.9311512
Sn -4.6099839 1.2394990 -2.0216236
Sn -1.6801736 2.1115838 -1.5090773
Sn 1.5351935 1.5732639 -1.1762820
Sn 4.1793504 2.8797081 -1.3849976
Sn 4.7983154 -1.9244844 -0.1092520
Sn 5.6142867 0.9243756 0.2961764
Sn 4.2279319 0.0287970 -2.4067751

(4)

Sn	3.7352381	-1.9527710	2.4827245
Sn	2.3636401	-0.6451564	-2.0623866
Sn	4.3783224	2.6023453	0.3329339
Sn	2.9949978	1.0337486	2.5841826
Sn	4.3772514	-2.2266775	-0.5119661
Sn	5.6186151	0.0417067	1.2740330
Sn	5.2950343	0.4214824	-1.7029937
Sn	1.4652212	-1.4479662	0.7196045
Sn	1.4780670	1.4673252	0.0786821
Sn	2.9154423	2.2660929	-2.3693138
Sn	0.1828881	-2.7450629	-1.7212417
Sn	-1.8790512	-0.6819575	-1.5769652
Sn	-1.4797482	1.5851010	0.2417175
Sn	-1.7240707	-1.0629683	1.5885077
Sn	-4.9367328	-1.1865804	-1.6187113
Sn	-4.9354660	-1.4562808	1.5450875
Sn	-3.7686699	3.3279152	0.3772633
Sn	-5.7170714	1.0935277	0.1798722
Sn	-3.6558153	1.0810062	2.5481749
Sn	-3.7087069	1.5645170	-2.1943691
Sn	-2.9993853	-3.0793472	-0.1948364

7. Sn_{22}^-

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Sn	4.2933812	-0.2604836	2.3608540
Sn	4.3058650	-0.3030055	-2.3529048
Sn	1.4273929	0.0863229	-1.5757088
Sn	1.4197871	0.1147954	1.5677900
Sn	5.8044380	-1.6079784	0.0162326
Sn	2.9169688	-1.9463536	0.0160524
Sn	5.5644027	1.3403788	-0.0095914
Sn	0.5747647	2.5068279	-0.0295360
Sn	3.3182404	2.5560383	1.5510770
Sn	3.3270145	2.5244015	-1.6007691
Sn	-2.2007400	1.5694495	1.5534792
Sn	-3.3413901	-1.0813992	2.6713079
Sn	0.3237193	-3.3955570	0.0001348
Sn	-0.3296797	-2.0387024	2.5934055
Sn	-4.1223856	3.1398739	-0.0797558
Sn	-5.3113516	0.7656034	-1.5362664

Sn	-4.8371678	-1.8829012	0.0986392
Sn	-5.2980736	0.8539535	1.5232999
Sn	-2.2168924	1.4707206	-1.6527373
Sn	-0.3495343	-2.0453238	-2.5930837
Sn	-1.8619954	-1.0928923	0.0285635
Sn	-3.4067641	-1.2737689	-2.5504827

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Sn	4.5509114	-0.3690823	2.5949858
Sn	4.8545521	-2.5963675	0.5815755
Sn	4.4793115	2.3277182	1.1684552
Sn	6.3128213	0.0864923	0.1182397
Sn	4.7413567	1.9173333	-1.8055570
Sn	3.9712608	-0.9307766	-1.6924535
Sn	-1.9182512	1.0238314	-1.2820092
Sn	-2.6675829	3.2276736	0.5538862
Sn	-4.8525626	1.9832041	-1.2055482
Sn	-4.1392443	-0.7876324	-2.2302801
Sn	-1.6140801	0.6831706	1.8386384
Sn	-1.9981818	-1.6389572	-0.0249066
Sn	-4.6800435	1.6014766	1.9939440
Sn	-4.6770460	-2.8775463	-0.0769890
Sn	-6.1478260	-0.3206498	0.1958256
Sn	-3.9235726	-1.2460041	2.3994607
Sn	0.3713932	1.4728996	-3.0313170
Sn	2.0536409	1.4173344	-0.6147775
Sn	2.1262558	-1.4634353	0.8660289
Sn	1.7847709	1.0911350	2.3064129
Sn	1.0709073	-1.2232460	-2.2160540
Sn	0.3012091	-3.3785714	-0.4375609

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Sn	4.4895659	2.0260936	-1.0298484
Sn	4.4143774	-1.4344795	2.0976492
Sn	1.5615023	-1.4467599	1.0798309
Sn	1.7267117	0.9318258	-1.1093763
Sn	5.7597748	1.3654900	1.7086402
Sn	2.8576763	1.2155838	1.6236522
Sn	6.0986076	-0.6006745	-0.4714431
Sn	1.4240271	-1.8641133	-1.9581880
Sn	4.1409502	-0.4728594	-2.7134900
Sn	-1.7602922	0.4713863	1.4488609
Sn	3.9777108	-2.7580973	-0.5563547

Sn	-1.8008083	-2.4871797	1.6903117
Sn	-4.3443697	-0.8796895	2.5050618
Sn	-4.3601202	1.9457494	1.3490494
Sn	-1.6579217	-1.3479226	-1.1166615
Sn	-2.5184889	1.5193242	-1.2278597
Sn	-4.2670683	-2.7021606	-0.0620417
Sn	-5.3818939	1.9009904	-1.5622220
Sn	-6.1672834	-0.3638570	0.1722720
Sn	-4.3353668	-0.8693446	-2.4305243
Sn	0.2298957	2.6315834	1.7109618
Sn	-0.0871865	3.2191113	-1.1482803

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Sn	-4.1648654	2.2579613	0.8573140
Sn	-1.7918573	0.0741246	1.7372408
Sn	-5.1761466	1.3823451	-1.8917728
Sn	-2.4377948	0.6438043	-1.2170662
Sn	-6.2889504	0.0039281	0.5301558
Sn	-4.3102271	-2.1626524	1.4446482
Sn	-4.4704099	0.3517972	3.0480988
Sn	1.7836816	-0.8469025	-1.2028713
Sn	4.7227903	-1.5443677	-1.8039371
Sn	3.7402731	1.3382329	-1.9495190
Sn	1.7879909	-1.2735061	1.8649674
Sn	1.8494079	1.4942049	0.6266658
Sn	4.5175807	2.8194131	0.5881442
Sn	6.1094527	0.3947823	0.0033927
Sn	4.1152265	0.5774219	2.6329129
Sn	0.1972725	1.8670675	-2.2278009
Sn	-0.9008502	2.7386318	0.4849329
Sn	2.8779314	-3.4028264	-0.1371928
Sn	4.8776498	-1.9564115	1.3859729
Sn	-1.8051906	-2.1398264	-0.3025010
Sn	-0.5789071	-0.9940699	-2.9476379
Sn	-4.6540579	-1.6231522	-1.5241475

8. Sn_{23}^-

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Sn	0.0000000	1.7525408	2.6783025
Sn	0.0000000	6.1662078	-2.1506279
Sn	2.7511625	0.0000000	-1.5392351

Sn	0.0000000	0.0000000	-2.5365046
Sn	1.5451076	2.0629741	0.1440330
Sn	-1.5820216	4.3753260	2.3139585
Sn	-1.5451076	2.0629741	0.1440330
Sn	2.3315478	4.8299450	-0.6310121
Sn	0.0000000	3.2233333	-2.1654927
Sn	-2.3315478	4.8299450	-0.6310121
Sn	-2.7511625	0.0000000	-1.5392351
Sn	1.5820216	4.3753260	2.3139585
Sn	0.0000000	6.3911418	0.7913464
Sn	0.0000000	-1.7525408	2.6783025
Sn	0.0000000	-6.1662078	-2.1506279
Sn	1.5820216	-4.3753260	2.3139585
Sn	-1.5451076	-2.0629741	0.1440330
Sn	-1.5820216	-4.3753260	2.3139585
Sn	2.3315478	-4.8299450	-0.6310121
Sn	0.0000000	-6.3911418	0.7913464
Sn	-2.3315478	-4.8299450	-0.6310121
Sn	1.5451076	-2.0629741	0.1440330
Sn	0.0000000	-3.2233333	-2.1654927

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Sn	5.2915769	-1.3631174	-1.5916738
Sn	6.3316748	0.9435711	0.0000000
Sn	5.2915769	-1.3631174	1.5916738
Sn	-1.3118182	2.6002303	0.0000000
Sn	2.2233672	-0.6552702	-1.5483154
Sn	4.1943894	1.3984460	-2.3351835
Sn	2.2233672	-0.6552702	1.5483154
Sn	1.8799390	1.8660776	0.0000000
Sn	4.4637237	3.2963579	0.0000000
Sn	4.1943894	1.3984460	2.3351835
Sn	3.2851078	-2.9896610	0.0000000
Sn	-6.2694516	-1.7698971	0.0000000
Sn	-0.1176220	-1.8904464	-2.7390068
Sn	-0.5520403	-2.7984176	0.0000000
Sn	-1.9016199	0.1251695	-1.5638035
Sn	-4.0433508	2.5422762	1.5407238
Sn	-1.9016199	0.1251695	1.5638035
Sn	-4.7590926	-0.3152600	-2.3588697
Sn	-3.4063620	-1.9936163	0.0000000
Sn	-4.7590926	-0.3152600	2.3588697
Sn	-0.1176220	-1.8904464	2.7390068

Sn -4.0433508 2.5422762 -1.5407238
Sn -6.1960696 1.1617597 0.0000000

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Sn 4.8337111 -0.7765868 -2.2014620
Sn 6.1843111 -1.0015710 0.6158809
Sn 6.3263362 1.5874053 -0.7824615
Sn 4.7528639 1.4657084 1.9350006
Sn 0.0879152 0.3915704 -3.2816525
Sn 4.0257606 -2.9143541 -0.1477509
Sn 1.9547230 -0.7884247 -1.3472458
Sn 3.4606879 1.8044829 -0.9479869
Sn -2.0646191 -1.6112141 1.4224391
Sn -3.0301820 -3.1263217 -1.0673738
Sn -5.1375935 -2.2984557 0.8279511
Sn -4.4117907 -0.0554738 2.6587436
Sn -2.0742883 -0.3596559 -1.4801775
Sn -5.0147842 -1.0450289 -2.1393022
Sn -6.4257215 0.3236986 0.1199761
Sn 1.8966402 0.7224675 1.4001794
Sn 3.9770790 -1.4355412 2.5856793
Sn 1.3214523 -2.1922167 1.2081967
Sn 0.6409518 2.5469014 -1.3965456
Sn 0.0585233 3.0141484 1.4178763
Sn -2.2644125 1.3334035 0.9234876
Sn -4.1752924 1.8103786 -1.5834487
Sn -4.9222716 2.6046796 1.2599965

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Sn 0.5040835 0.8082484 1.8821134
Sn 0.2650808 1.1826710 -1.1355734
Sn 1.8138627 -0.7127311 -2.7470784
Sn 3.9607069 -0.8602888 -0.7349584
Sn -2.2688304 -1.3425324 -0.1497343
Sn 0.7359062 -1.5902365 -0.0101498
Sn -4.3310836 -3.4129883 -0.2790781
Sn -4.3055031 -1.4885390 2.1975610
Sn -2.7663277 1.0448650 1.5413220
Sn -5.9259376 0.9942358 1.6073707
Sn -4.3728480 -1.2554861 -2.5262358
Sn -2.8415982 1.1844926 -1.6174092
Sn -4.4230747 3.0739625 0.0479024
Sn -6.4308205 -1.3778511 -0.1474121

Sn	-6.0444364	1.1306387	-1.6455500
Sn	1.6695709	3.3061253	0.4671257
Sn	3.2079094	2.0010011	-1.8444174
Sn	3.0216471	-1.2045813	2.2021544
Sn	5.2656286	-2.9109441	1.1327130
Sn	6.1414292	1.4706831	-0.6892684
Sn	6.3636175	-0.2096862	1.9787762
Sn	3.8209991	1.5063653	1.2873761
Sn	6.9400184	-1.3374240	-0.8175496

9. Sn_{24}^-

(1)

Sn	4.9022226	0.9266023	2.9106779
Sn	4.7403547	-1.7336377	1.4271432
Sn	6.0412078	-1.7357309	-1.3093736
Sn	-3.8521941	-2.2923993	0.2650419
Sn	-0.9274385	-1.3641657	-0.0113319
Sn	-0.0252215	0.1255259	-2.4794987
Sn	2.5900404	1.9940390	-1.5119150
Sn	-3.0782331	0.2121687	-1.8000739
Sn	-5.9737015	1.8187304	1.4336412
Sn	0.0060327	-0.1038627	2.5219692
Sn	2.5574512	0.7121628	1.1891306
Sn	5.5361760	1.1977262	-2.0419010
Sn	-3.1180670	0.6037967	1.4954253
Sn	-5.9260768	1.4151701	-1.6223291
Sn	-5.3348533	-1.5961803	-2.2625933
Sn	-0.2535100	1.7665061	0.0405114
Sn	-3.5745558	2.8260909	-0.3362147
Sn	-6.7312145	-0.8660870	0.2685607
Sn	4.8694213	2.8146706	0.4754438
Sn	6.7990528	0.4418717	0.6380532
Sn	3.2231316	-0.9530973	-1.3512522
Sn	1.6981149	-2.4352862	1.1393701
Sn	0.9500484	-2.7671115	-1.8183198
Sn	-5.1181883	-1.0075026	2.7398347

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Sn	-0.2320788	0.1720960	2.3283200
Sn	-5.4666763	-0.9102530	2.4035863
Sn	-6.0492130	1.9062665	1.3405750

Sn 0.6359989 1.2906614 -0.3487595
Sn -2.0258018 2.2635546 -1.5709743
Sn -7.1011623 -0.5118110 -0.1565274
Sn 5.4982697 1.5262219 1.8245898
Sn -5.1187076 -2.8287232 0.0315972
Sn -5.1056156 1.4905171 -1.4762361
Sn -0.4263722 -0.1405138 -2.7074590
Sn -1.0991661 3.0199590 1.2956960
Sn -2.6226990 -1.8606219 1.6002709
Sn 3.0054279 -0.1754033 2.0643135
Sn 5.5584951 -1.7135734 1.8273455
Sn 6.0870398 -2.6657832 -1.0303639
Sn 3.5463112 1.3468723 -0.5034092
Sn -2.8400265 -0.8595595 -1.2136867
Sn 0.2611063 -1.7134746 -0.0891335
Sn -3.2563526 1.0612132 1.1661086
Sn 3.3966605 -1.7253535 -0.4798735
Sn 7.2988805 -0.0675996 -0.1541460
Sn 5.2926451 -0.1126352 -2.5269548
Sn -5.3897359 -1.2836678 -2.5792894
Sn 6.1527725 2.4916109 -1.0455894

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Sn -0.5660354 1.8565609 0.7548822
Sn -0.9707324 2.6945986 -2.0497862
Sn 2.4882121 -0.5396697 -1.6015686
Sn 4.6017880 -2.4880791 -1.0201147
Sn 5.5144439 0.3179724 -1.9318830
Sn 2.3499355 1.3562361 0.8223121
Sn 6.0412415 -0.6673279 0.9281982
Sn 5.2799553 2.2363410 0.4498089
Sn 4.2048275 0.6342141 2.9387754
Sn 3.2415645 2.3320720 -1.8327081
Sn -1.9086200 0.0030370 -1.4332261
Sn -2.8853120 -0.2015917 1.5086105
Sn -4.8824984 -0.4025242 -0.8214608
Sn 3.0476279 -1.6630057 1.3818138
Sn -4.0021844 2.3492239 -2.0315115
Sn -1.5786996 -4.1466442 0.0052700
Sn -4.2864150 -2.9789195 0.8342304
Sn -1.8958655 -2.6947270 2.6967112
Sn -0.2276256 -2.2990051 -2.1206928
Sn -3.3249829 -2.7834930 -2.1019693

Sn	0.0550071	-1.5710358	0.7685959
Sn	-2.7032127	4.0514296	0.1393891
Sn	-4.9730339	2.1891128	0.9087030
Sn	-2.6193856	2.4152246	2.8076204

10. Sn₂₅⁻

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Sn	7.2928017	-0.0180611	0.0000000
Sn	5.2562534	-0.6067156	-2.3797671
Sn	6.0906585	2.1804031	-1.6296997
Sn	3.0366880	1.3629566	-1.5931413
Sn	6.0906585	2.1804031	1.6296997
Sn	4.0597588	3.6890464	0.0000000
Sn	5.8558582	-2.5606566	0.0000000
Sn	-0.9633636	-1.8632619	2.5750862
Sn	-2.1767409	-3.0861150	0.0000000
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Sn	0.4385322	-1.4611921	0.0000000
Sn	5.2562534	-0.6067156	2.3797671
Sn	3.3377687	-1.1049714	0.0000000
Sn	3.0366880	1.3629566	1.5931413
Sn	-5.3333379	-2.4506072	0.0000000
Sn	-3.2954309	-0.4613147	-1.5464697
Sn	-2.8481830	2.0828810	0.0000000
Sn	-5.5293693	1.8383940	1.5462797
Sn	-3.2954309	-0.4613147	1.5464697
Sn	-5.9905049	-1.0158439	2.5440370
Sn	-7.3614032	-0.0825679	0.0000000
Sn	-5.5293693	1.8383940	-1.5462797
Sn	-5.9905049	-1.0158439	-2.5440370
Sn	-0.2382772	1.0176353	-1.5717619
Sn	-0.2382772	1.0176353	1.5717619

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Sn	6.2988217	-1.3609124	1.6800384
Sn	3.2509791	-0.7906255	1.2688253
Sn	6.3496563	-1.5284071	-1.5703259
Sn	4.4335728	-3.1635414	-0.0042941
Sn	-1.1550657	1.6609341	2.6954671
Sn	-2.4127666	-1.1683597	2.6379193
Sn	-1.0721489	-3.0233072	0.5533940

Sn 0.3218177 -0.5590208 1.4005758
Sn 5.2504080 1.1213085 -2.5189629
Sn 3.0280208 1.6386695 -0.3790154
Sn 3.2192718 -1.0022716 -1.8227629
Sn -5.4950729 -0.8674910 1.7812901
Sn -3.2510409 -1.4020738 -0.4919020
Sn -2.6858225 1.0698575 -2.1063114
Sn -5.4639610 2.3304795 -1.4739512
Sn -3.3672245 1.3799174 0.8168767
Sn -6.1289761 2.0420633 1.4917006
Sn -7.3419438 0.1112329 -0.5317182
Sn -5.3250829 -0.4402630 -2.7795747
Sn -5.9243750 -2.5652346 -0.6734797
Sn -0.1765965 -0.9012556 -1.5841418
Sn -0.1233653 1.8924936 -0.2644660
Sn 5.5137239 3.2398510 -0.2744525
Sn 7.2282068 0.8719412 -0.0078061
Sn 5.0289636 1.4140154 2.1570774

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Sn 1.0921123 1.0400108 2.9236454
Sn 2.7545579 2.7768990 1.0835472
Sn 1.6550375 3.0415511 -1.7343986
Sn 5.7728515 1.4863804 0.8912829
Sn 3.5309489 0.8321004 -1.3559439
Sn 2.3760838 -1.9517525 -0.9803901
Sn 4.8834159 -2.9905211 0.5333789
Sn 3.1983056 -0.3884241 1.4796846
Sn 5.8180759 -0.9694253 2.6164447
Sn 7.2266034 -1.1202930 -0.0847022
Sn 5.1957372 -1.7624205 -2.2907882
Sn 6.3601331 1.0552415 -2.0203210
Sn -0.1972196 2.0231210 0.3941268
Sn -2.7184749 -0.8127611 -1.2695875
Sn -4.4516319 1.4835405 -2.3719364
Sn -3.2182364 -1.0206130 1.7983660
Sn -6.2371006 -1.3418234 1.3802217
Sn -6.4921039 1.4224037 -0.1750051
Sn -5.1994760 1.2162779 2.5352545
Sn -4.3142430 -3.0937973 -0.1188733
Sn -3.2518477 1.7429282 0.3380339
Sn -5.7872297 -1.1405114 -1.8673534
Sn 0.0055823 -0.9608390 0.8464936

Sn 0.3730678 0.2068654 -2.0063124
Sn -8.3749495 -0.7741381 -0.5448683

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Sn -5.0214948 -1.7685923 1.7392918
Sn -5.3691020 -2.4144496 -1.2469301
Sn -7.4380183 -0.7473068 0.1360434
Sn -3.1426499 0.6455363 2.2809210
Sn -2.8728221 1.2226142 -2.2564310
Sn -2.9688027 -0.9176659 -0.2842253
Sn -6.0988641 1.0845503 2.1804827
Sn -4.2410812 2.3650769 0.0480805
Sn -7.1775016 2.3268033 -0.3859584
Sn -5.7024838 0.4508681 -2.0892061
Sn 0.0939567 0.5990873 1.4178014
Sn -0.2236109 -2.0771922 -0.1328672
Sn 2.7397957 -2.9663991 -0.0473405
Sn 1.2251026 -2.0581850 2.4686602
Sn 5.9954105 -0.1863361 2.6301082
Sn 0.2333280 0.6142698 -1.6284377
Sn 2.4399359 2.2386439 -0.0464368
Sn 5.0770207 2.5605260 1.5687999
Sn 5.1741796 2.5273976 -1.4890919
Sn 1.3944739 -2.0243546 -2.6482040
Sn 3.4205457 -0.2077079 -1.5347469
Sn 7.2317101 0.9568198 0.1278746
Sn 3.2933041 -0.1928953 1.5393358
Sn 5.7458890 -1.8046744 0.0948439
Sn 6.1917789 -0.2264343 -2.4423674

11. Sn_{26}^-

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Sn 0.2922018 -0.9926344 1.1960146
Sn -1.1080603 2.8737363 -1.5914805
Sn 0.3100402 0.2019329 -1.6087640
Sn 0.7314948 1.9908596 0.8132157
Sn -2.2270212 2.8677356 1.1852727
Sn -7.7905052 1.0018174 0.4246281
Sn -6.0199211 0.8952367 -2.1683672
Sn -5.0156703 1.7694847 0.7294421
Sn -5.9761448 -0.8830778 2.2044733

Sn -1.0742275 0.8839023 3.1315705
Sn -3.0905290 -0.4631347 1.4528764
Sn -3.1093409 0.7138822 -1.3939782
Sn 3.3002139 0.4867512 -1.3951970
Sn 3.2947165 -0.9926418 1.1482602
Sn 4.3610902 -2.3181870 -1.5054441
Sn 4.2854853 1.8391058 1.3011493
Sn 5.2404256 2.7023980 -1.4800874
Sn 6.1244761 -0.0572263 -2.5653440
Sn -1.8893974 -2.0538479 -0.8696788
Sn -4.6816274 -1.8618926 -2.4269190
Sn -4.6466888 -3.0308669 0.4412658
Sn -7.0596788 -1.6201672 -0.6299195
Sn 5.2536798 -3.1609676 1.3387160
Sn 6.0802344 -0.3686766 2.4052185
Sn 7.1978477 -1.6891612 -0.3132083
Sn 7.2169062 1.2656393 0.1762848

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Sn 0.1416060 0.6889687 -1.3978026
Sn -1.0633782 -2.7326299 2.0372739
Sn 0.1593429 0.0171009 1.6122954
Sn 0.6744106 -2.1524870 -0.4530859
Sn -2.2055210 -3.3170293 -0.7130454
Sn -1.0464637 -1.6188513 -2.9636702
Sn 3.1784097 -0.2009309 1.4601654
Sn 3.1656769 0.7796883 -1.3147256
Sn 4.1886023 2.6003710 1.0545342
Sn 4.2140824 -2.0123062 -0.9477031
Sn 5.1390861 -2.3380582 1.9623178
Sn 5.0766881 2.9172150 -1.8843374
Sn 5.9654451 0.6056321 2.5334452
Sn 5.9844668 0.0059222 -2.4077858
Sn 7.0631144 1.8411292 0.0300791
Sn 7.1030582 -1.1628052 0.1041457
Sn -3.4132942 -1.0980806 1.3698412
Sn -3.4202523 -0.4626452 -1.6700323
Sn -2.3316513 1.5239901 0.3164540
Sn -4.1979185 3.7209920 0.7790407
Sn -6.5602818 -0.6957343 1.4551738
Sn -4.6383042 1.3544074 2.6763544
Sn -6.6968046 2.1316270 0.4346719
Sn -6.5527849 -0.0604626 -1.6240779

Sn -5.3019103 -2.6452918 -0.5370509
Sn -4.6254243 2.3102687 -1.9124759

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Sn -0.2628213 1.6393997 0.8322642
Sn 0.9751556 -2.7106280 -1.3482627
Sn -0.2443105 0.1099715 -1.8419164
Sn -0.6307326 -1.3157924 0.7700972
Sn 1.7701751 -2.8899389 1.6899437
Sn 7.4043897 -1.5161114 0.8132090
Sn 5.8815253 -1.4488688 -1.9020145
Sn 4.5022369 -1.7337652 0.9818428
Sn 7.2755975 1.0511835 -0.6055886
Sn 5.9332024 0.8489869 2.2250927
Sn 5.0943708 2.9630909 0.1489476
Sn 0.9555500 -0.1635001 3.0398205
Sn 5.0634207 1.4395069 -2.5922309
Sn 3.0884106 0.8597103 1.2894567
Sn 2.3727493 2.3332737 -1.2606614
Sn 3.0529735 -0.6194609 -1.3633308
Sn -3.3118058 -0.1896213 -1.6664725
Sn -3.2964506 1.3015833 0.8846695
Sn -4.9724486 2.3240895 -1.5603127
Sn -3.7589159 -1.6618537 1.0535360
Sn -4.8281541 -2.7624713 -1.5271867
Sn -5.6307344 2.9813554 1.4260030
Sn -6.3445751 -0.2724236 -2.4039330
Sn -5.7483622 0.0862603 2.5063727
Sn -7.4164196 1.1206904 0.0129506
Sn -6.9240268 -1.7746666 0.3977041

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Sn 1.3374468 -1.4012954 2.9322359
Sn 0.0648118 0.9676603 1.2909652
Sn -0.1542350 -1.9652282 0.4290293
Sn 2.4110528 2.2246043 -0.5794148
Sn 3.4032057 -0.4691053 -1.5241080
Sn 5.7478316 -1.5823667 0.4462791
Sn 3.3069712 0.2413708 1.5021456
Sn 6.2042517 -0.6413557 -2.3453982
Sn 5.1644188 2.2124798 -2.0120888
Sn 2.7947888 -2.8135500 0.6383665
Sn 1.3962055 -2.5666334 -2.0572418

Sn	6.0042492	0.4988351	2.5987493
Sn	7.2691238	1.1353151	-0.0926391
Sn	-2.4602247	-3.7563810	0.3002416
Sn	-2.4943280	-1.7547289	-1.8548611
Sn	0.0047044	0.2611084	-1.7515353
Sn	-5.1351285	-0.3985231	-2.0267077
Sn	-2.7925835	1.1646572	-0.5668974
Sn	-3.1168316	1.0297061	2.3762225
Sn	-6.1351100	0.5085420	2.1858257
Sn	-4.0680657	-1.4082211	0.9267439
Sn	-6.9411870	-1.4958731	0.0545432
Sn	-7.1222088	1.5087706	-0.5386851
Sn	-4.9127152	3.0379204	0.8843596
Sn	-4.7966138	2.5532767	-2.1921911
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Sn	3.4303200	-0.4708958	2.4002027
Sn	4.1806495	-1.4633097	-0.3617653
Sn	2.9002949	1.4064807	0.0428903
Sn	2.2220031	-0.1837182	-2.4978913
Sn	0.2593396	-0.4665845	1.6242448
Sn	6.9775226	-1.3183920	-1.2639277
Sn	5.1824238	0.9135405	-2.3370047
Sn	2.1866753	-3.1207155	-1.8665369
Sn	-0.1129813	1.2719443	-0.9369096
Sn	1.8494506	-2.9771766	1.1010292
Sn	-0.3995932	-1.7904740	-1.0222076
Sn	7.3930262	1.4607507	-0.1958022
Sn	5.3271850	2.0165791	1.9984140
Sn	4.9882867	3.3610163	-0.6787050
Sn	-1.0692789	2.1827948	1.9260149
Sn	-2.6285515	-0.3072384	2.7673363
Sn	-5.8344027	3.0068901	0.6732543
Sn	-5.7025960	0.3147143	2.0311496
Sn	-7.5748660	0.8206438	-0.4569638
Sn	-6.8064772	-1.9639893	0.4594817
Sn	-5.9412326	-0.9772971	-2.3167543
Sn	-1.7200341	-2.8805073	1.5371124

Sn	-5.3402861	2.0519283	-2.1914335
Sn	-3.9224316	-1.5642485	0.0537203
Sn	-3.0023282	-0.0041446	-2.3561202
Sn	-3.3489937	1.5097356	0.1806526

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Sn	-0.1684835	1.1484421	0.5169026
Sn	2.2912206	-3.5558246	-0.5113005
Sn	-0.0268813	-1.8107481	-0.4227805
Sn	-1.1770593	-1.2190468	2.3810117
Sn	2.7692317	-1.8473397	1.7671308
Sn	6.8109063	-1.7032463	-1.0019054
Sn	5.5669344	-0.8435248	1.5523657
Sn	7.5165840	1.0928165	0.0056790
Sn	5.6717046	2.0526953	2.2390644
Sn	5.2596275	3.0461486	-0.6449436
Sn	1.4138545	0.3556954	3.1332607
Sn	5.9102747	0.7429313	-2.5840430
Sn	3.2038279	1.2109408	0.8622436
Sn	2.9484704	1.4980481	-2.0638042
Sn	3.8932550	-1.1846745	-1.2065044
Sn	-3.0769121	0.9341199	-1.2025774
Sn	-2.9882537	1.1176091	1.7717842
Sn	-5.2841210	2.4753238	-2.2137513
Sn	-4.1667302	-1.3440109	0.5071609
Sn	-5.7237558	-0.5715397	-2.1977086
Sn	-5.0837534	3.1345652	0.8094214
Sn	-2.5645437	-2.0505588	-2.1640555
Sn	-5.9671029	0.6777436	2.4026724
Sn	-7.2807420	1.3775571	-0.2615602
Sn	-7.0339402	-1.4958239	0.4367935
Sn	-2.2243224	-3.5103747	0.5425745
Sn	-0.4892900	0.2720759	-2.4531308

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Sn	-0.2908433	0.5862191	1.1471104
Sn	2.3209955	-3.6170435	-0.1212693
Sn	0.2766914	-1.7301573	-0.9763618
Sn	-1.4742078	-2.5061749	1.4938766
Sn	1.4259922	-2.0356009	2.1615324
Sn	6.1218927	-0.8615015	2.1038563
Sn	3.7413338	0.8756807	1.6109660
Sn	6.6005472	1.9713948	1.1272189

Sn 4.0983475 3.4069439 0.0990438
Sn 5.9721786 2.1330995 -1.8988321
Sn 1.5353994 0.5062518 3.4667033
Sn 7.1940022 -0.4662732 -0.7142587
Sn 3.0938823 1.0679938 -1.4286964
Sn 5.0658412 -0.5885610 -2.8952680
Sn 4.3300578 -1.5111552 -0.1631172
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Sn -4.1322082 -1.6455539 -0.5134947
Sn -5.9475640 0.1475680 -2.2523978
Sn -4.4671745 2.7891743 1.4025358
Sn -2.0863426 -1.0426746 -2.9416629
Sn -5.9393916 0.4301563 2.6857134
Sn -7.0871043 1.6853365 0.2041530
Sn -6.9278014 -1.2924713 0.3313464
Sn -2.0758050 -3.5922957 -1.2644145
Sn 0.0103979 1.1227778 -1.7636333

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Sn -0.1912100 -0.0864392 1.6384741
Sn 1.1539721 -0.5182747 -3.2100429
Sn -0.1017846 1.2612165 -1.0589577
Sn -0.5364852 -1.7920365 -0.9675584
Sn 2.1785823 -3.0617117 -1.8508458
Sn 7.3233416 -1.5370233 0.0599544
Sn 6.2908947 0.4482684 -2.1060871
Sn 4.4813173 -1.6762653 -0.5277163
Sn 7.2571667 1.3097257 0.7827772
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Sn 4.7808026 2.2270666 2.2266840
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Sn 3.3454611 0.7985394 -1.6846004
Sn -4.7404160 -0.9856165 -2.2505677
Sn -3.0698246 1.1090356 -0.8546666
Sn -5.8655553 1.8255101 -1.9618370
Sn -1.3271461 -2.8721270 1.8874886
Sn -6.0125828 -2.8478560 -0.1360859
Sn -4.4818594 3.4460654 0.2535844

Sn	-7.4650855	-0.3654281	-0.7342697
Sn	-3.9269204	1.1770999	2.2173694
Sn	-6.8469995	1.8968338	1.1480711
Sn	-6.2462088	-0.8274368	2.2026585
Sn	-3.6088209	-1.3685778	0.6748416

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Sn	-6.9367308	0.6902060	1.5913642
Sn	-3.9862922	0.1772397	2.4077968
Sn	-4.4203957	1.5176398	-0.2369705
Sn	-3.2637776	-1.3515566	-0.0757574
Sn	-2.3583135	0.5646030	-2.4843226
Sn	-0.6483389	-0.0133480	1.9166288
Sn	-7.1102603	1.5130159	-1.3758558
Sn	-5.2978953	-0.6199384	-2.5272094
Sn	-0.3787785	-1.2559842	-0.9235560
Sn	0.0534872	1.7010514	-0.4903885
Sn	-7.6644513	-1.3349776	-0.5929990
Sn	-5.8441008	-2.1862788	1.7053767
Sn	-5.2693297	-3.2255486	-1.1046226
Sn	1.0397831	-2.5723249	1.5247359
Sn	2.2050003	-0.2905692	3.1296947
Sn	7.9052287	-0.9289394	1.3032095
Sn	5.9323924	-2.7197370	-0.2464328
Sn	5.1101367	-0.5524923	2.0433308
Sn	7.4490874	-0.2962148	-1.5245923
Sn	6.6150990	1.8413945	0.6036621
Sn	5.4127155	1.7379628	-2.2725704
Sn	5.0045599	-1.3278555	-2.8415330
Sn	3.6588631	1.4996058	0.3717704
Sn	2.5734803	0.4957507	-2.2567483
Sn	3.2190935	-1.4968239	-0.1417145
Sn	-2.3096174	3.3378039	-1.2827639
Sn	-2.1379824	2.6789288	1.6665692
Sn	1.4473374	2.4173867	2.1138979

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Sn 7.8423075 -0.7648906 1.2306289
Sn 6.5815938 -1.0106530 -1.6332758
Sn 5.0562073 -1.5025485 1.1238817
Sn 7.3685804 1.7115759 -0.3000782
Sn 5.8240263 1.3253214 2.3897344
Sn 4.8494941 3.2369790 0.1718102
Sn 1.1818596 -0.6436809 3.0358282
Sn 5.3663488 1.6807735 -2.5055816
Sn 3.0939714 0.7863394 1.2712911
Sn 2.5027963 2.0002917 -1.4009766
Sn 3.6068913 -0.7531213 -1.4128112
Sn -3.4470399 1.2706453 -0.8323699
Sn -3.2166419 0.5037716 2.0670280
Sn -5.6787991 2.9830088 -1.4477176
Sn -4.4004369 -1.4616199 0.1199659
Sn -6.1180292 0.0336912 -2.1645116
Sn -5.2243376 2.8013368 1.6143071
Sn -2.9031371 -1.2228986 -2.7286938
Sn -6.2056070 0.0729989 2.6188508
Sn -7.5532797 1.4139308 0.2603970
Sn -7.2696677 -1.5577878 0.2033520
Sn -2.5139026 -3.5006804 -0.7501773
Sn -0.8722036 1.1160751 -2.2495247

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Sn -0.5998593 0.1423024 1.1643359
Sn 1.9855653 -3.1903653 -1.2864413
Sn -0.4262276 -1.6011143 -1.2951699
Sn -1.9037857 -2.6487678 1.2181045
Sn 2.1489140 -2.4194428 1.5380806
Sn 7.8088741 -0.9560337 1.2545559
Sn 6.5065732 -1.2424293 -1.5865059
Sn 4.9683200 -1.4612769 1.2046257
Sn 7.5769664 1.4576092 -0.4422363
Sn 6.0259069 1.3734479 2.2813588
Sn 5.2025343 3.2253180 -0.0294172
Sn 1.4331934 -0.1754611 3.2249516
Sn 5.5118113 1.4949712 -2.6001006
Sn 3.2427895 1.0117706 1.2457460
Sn 2.7056382 2.1080781 -1.4633487
Sn 3.5698394 -0.7280798 -1.3590122

Sn -3.3596879 1.3986111 -0.3670684
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Sn -4.5083779 -1.4378809 -0.1975658
Sn -5.9413848 0.6791212 -2.2079807
Sn -5.2741549 2.3738206 2.1087714
Sn -2.8420554 -0.4746511 -2.8471691
Sn -6.5160185 -0.4329450 2.3583237
Sn -7.5783409 1.5405968 0.3105073
Sn -7.3839248 -1.3622796 -0.4279452
Sn -2.8263607 -3.2982794 -1.6717860
Sn -0.6466050 1.3940264 -1.5830582

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Sn 0.0641544 1.3382769 -1.4145234
Sn -1.3439194 -2.4752123 1.6242819
Sn 0.0250707 0.5074060 1.5455527
Sn 0.2914991 -1.5234292 -0.7389201
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Sn -7.9106135 -1.2600500 -0.3022249
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Sn -7.4776377 1.5036571 0.5582266
Sn -6.3472203 0.5834413 -2.2302197
Sn -5.2631068 3.0464959 -0.7019408
Sn -1.4505095 -0.7706808 -3.1526238
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Sn -3.4637760 0.5586191 -1.4877722
Sn -2.5032521 2.5029805 0.6417826
Sn -3.3160702 -0.2780006 1.4425952
Sn 4.1451176 -1.6138417 -0.2133383
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Sn 6.0763231 -1.1004372 1.9635996
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Sn 4.8205226 -0.4592053 -2.9690154
Sn 6.9962715 -0.4172854 -1.0684150
Sn 5.6668503 2.2720004 -1.9299111
Sn 1.7023032 -2.0262756 2.3059247
Sn 2.1028654 -3.6911092 -0.1430289
Sn 8.7717093 0.0527814 1.1234903
Sn 6.5153006 1.8438164 1.0579261
Sn 4.0809820 3.2807966 0.5004369

14. Sn_{29}^-

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Sn	-6.9944720	-3.2104713	0.3782722
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Sn	-6.8504038	-0.9301994	2.4931823
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Sn	-4.7368728	1.0934574	1.6974567
Sn	1.5711143	1.2432322	1.3763049
Sn	1.6090216	0.8499012	-1.7338195
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Sn	-1.5866663	1.0124272	1.2899364
Sn	-1.6210562	0.6340018	-1.7603937
Sn	0.1128615	-1.7430233	-2.4443387
Sn	-1.5710957	-1.8413754	0.1216620
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Sn	1.6285372	-1.5892930	0.1417657
Sn	4.5783159	-1.5327103	0.3265947
Sn	6.8487936	-3.2628990	-0.2080617
Sn	6.1545728	-1.1463728	-2.3788369
Sn	8.6254766	-0.9270423	-0.4561538
Sn	6.9955601	-1.3452022	2.2661354
Sn	4.5273198	1.0262324	-1.0780785
Sn	5.9601938	3.1806803	0.3073885
Sn	7.5386568	1.5190802	-1.7701053
Sn	8.0168723	1.3441311	1.3993392
Sn	4.9165665	0.9006726	2.0696936
Sn	-7.8848290	1.6618809	1.2937850
Sn	-5.7876516	3.1650065	-0.2358708
Sn	-8.6916658	-0.8469584	-0.0976138
Sn	-7.6265762	1.3142457	-1.8697175

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Sn	4.5384551	-0.4903913	-1.4508171
Sn	4.8845228	-1.7867835	1.4235531
Sn	5.9994946	-3.0102856	-1.1577839
Sn	1.5608078	1.4012008	0.7296690
Sn	-1.6032275	1.6723868	0.7872028
Sn	-1.6148208	0.1472101	-1.9449407
Sn	1.6164838	-0.0897739	-1.9392450
Sn	0.1385206	2.5654610	-1.6136239

Sn 1.6000390 -1.6893813 0.7480371
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