

Phosphorus allotropes at the nanoscale: computational study of phosphorus nanoclusters

Supplementary Information

*Dmitry V. Rybkovskiy,^{a,b} Sergey V. Lepeshkin,^{a,c} Vladimir S. Baturin,^{a,d} Anastasiia A. Mikhailova^{a,b},
Artem R. Oganov^a*

^a Skolkovo Institute of Science and Technology, Bolshoy Boulevard 30, bld. 1, 121205 Moscow, Russian Federation

^b A. M. Prokhorov General Physics Institute, Russian Academy of Sciences, 38 Vavilov street, 119991 Moscow, Russian Federation

^c Lebedev Physical Institute, Russian Academy of Sciences, 53 Leninskii prosp., 119991 Moscow, Russian Federation

^d Vernadsky Institute of Geochemistry and Analytical Chemistry Russian Academy of Sciences, 19 Kosygina street, 119991 Moscow, Russian Federation

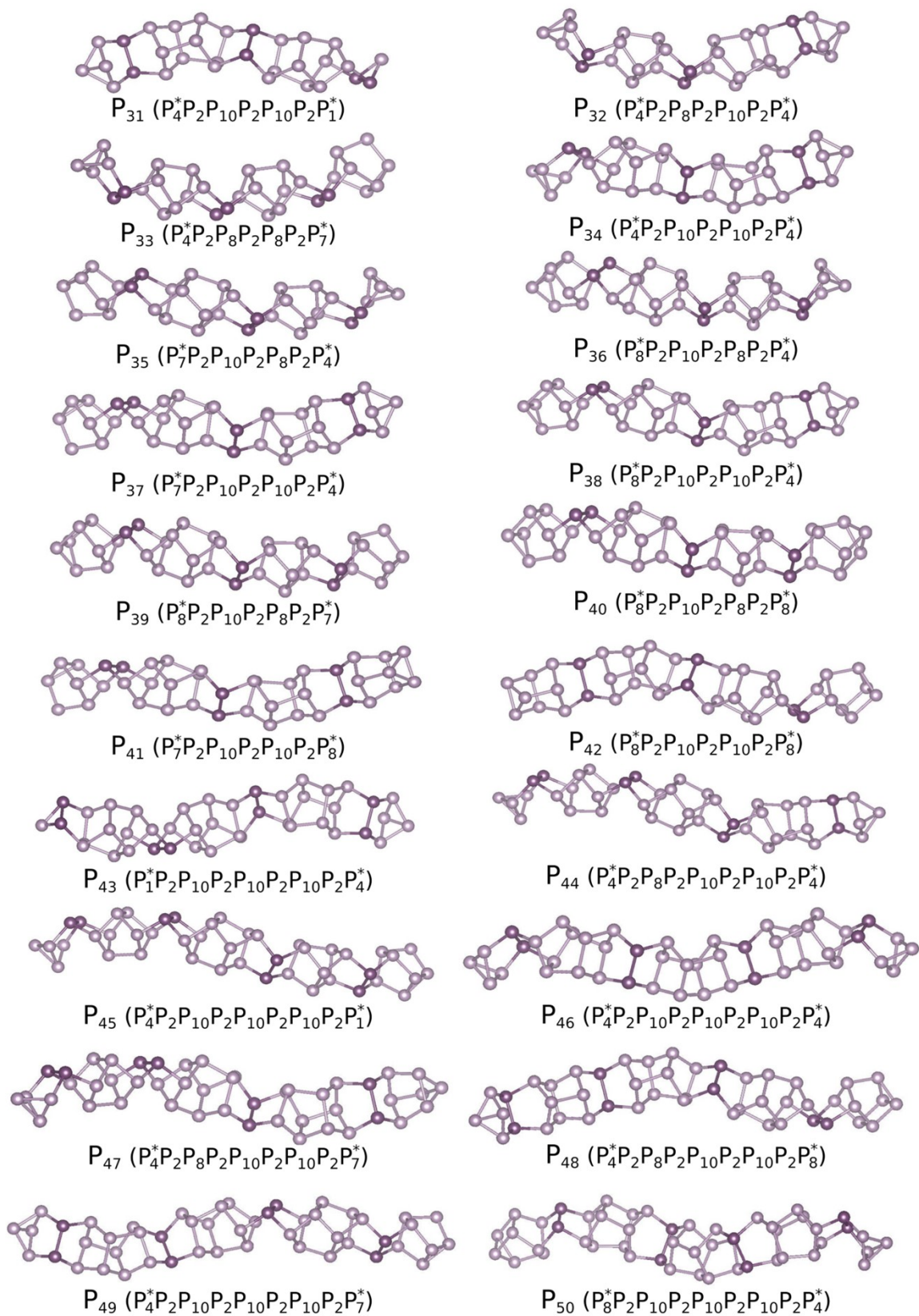


Figure S1. Ground-state structures of P_n clusters with $n = 31 - 50$. The P_2 units serving as a linking fragment between other units, are marked with darker color.

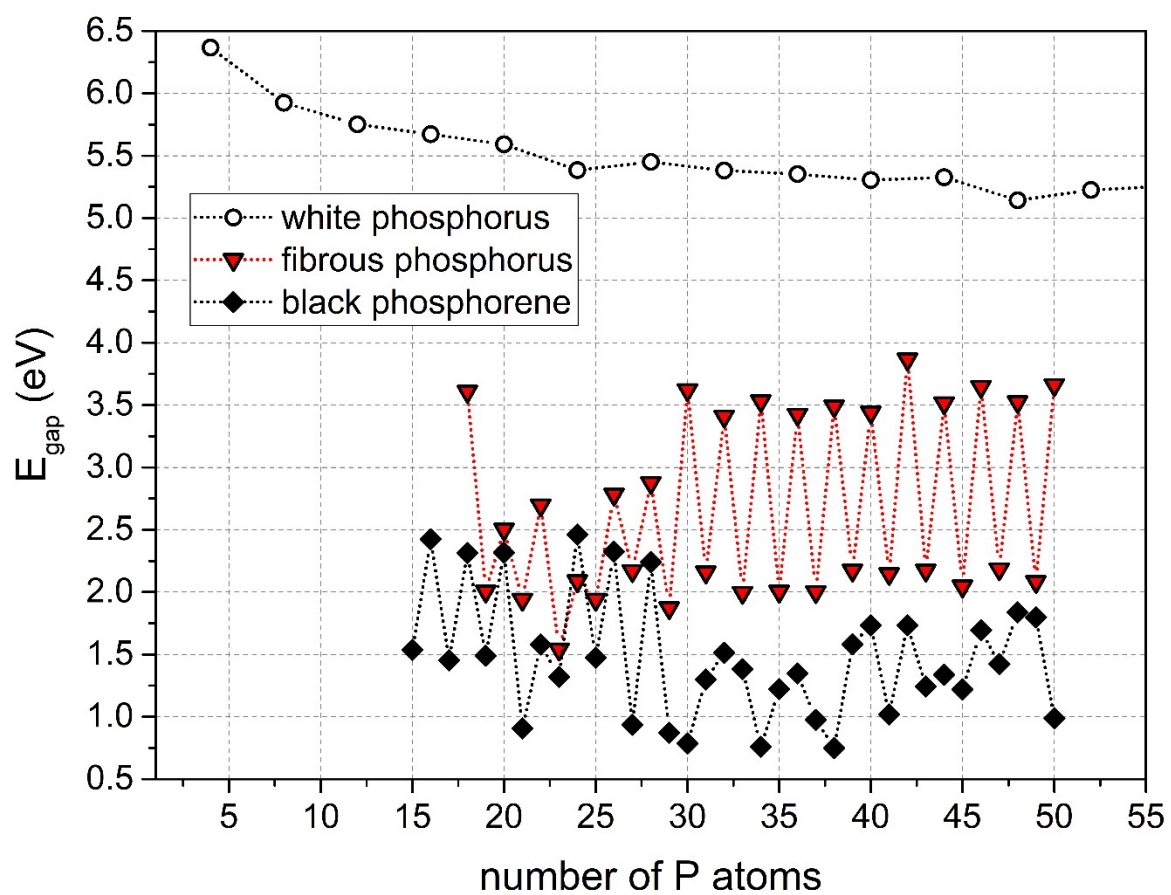


Figure S2. Calculated HOMO-LUMO gaps for clusters of white and fibrous phosphorus and black phosphorene.

Table S1. Fragmentation energies and fission products of P_n clusters with $n = 2 - 50$.

Cluster	Fission products	Fragmentation energy, eV
P_2	$P + P$	5.018
P_3	$P + P_2$	2.457
P_4	$P_2 + P_2$	2.118
P_5	$P_2 + P_3$	1.365
P_6	$P_2 + P_4$	0.256
P_7	$P_3 + P_4$	0.852
P_8	$P_4 + P_4$	0.168
P_9	$P_4 + P_5$	0.734
P_{10}	$P_4 + P_6$	1.132
P_{11}	$P_4 + P_7$	0.911
P_{12}	$P_4 + P_8$	0.537
P_{13}	$P_4 + P_9$	1.197
P_{14}	$P_4 + P_{10}$	1.024
P_{15}	$P_4 + P_{11}$	0.739
P_{16}	$P_4 + P_{12}$	0.951
P_{17}	$P_4 + P_{13}$	0.901
P_{18}	$P_4 + P_{14}$	0.863
P_{19}	$P_4 + P_{15}$	0.776
P_{20}	$P_4 + P_{16}$	0.720
P_{21}	$P_4 + P_{17}$	0.547
P_{22}	$P_4 + P_{18}$	0.630
P_{23}	$P_4 + P_{19}$	0.905
P_{24}	$P_4 + P_{20}$	0.888
P_{25}	$P_4 + P_{21}$	0.968

Cluster	Fission products	Fragmentation energy, eV
P_{26}	$P_4 + P_{22}$	0.891
P_{27}	$P_4 + P_{23}$	0.885
P_{28}	$P_4 + P_{24}$	0.884
P_{29}	$P_4 + P_{25}$	0.889
P_{30}	$P_4 + P_{26}$	0.889
P_{31}	$P_4 + P_{27}$	0.616
P_{32}	$P_4 + P_{28}$	0.632
P_{33}	$P_4 + P_{29}$	0.567
P_{34}	$P_4 + P_{30}$	0.626
P_{35}	$P_4 + P_{31}$	0.901
P_{36}	$P_4 + P_{32}$	0.889
P_{37}	$P_4 + P_{33}$	0.948
P_{38}	$P_4 + P_{34}$	0.889
P_{39}	$P_4 + P_{35}$	0.888
P_{40}	$P_4 + P_{36}$	0.884
P_{41}	$P_4 + P_{37}$	0.889
P_{42}	$P_4 + P_{38}$	0.889
P_{43}	$P_4 + P_{39}$	0.615
P_{44}	$P_4 + P_{40}$	0.631
P_{45}	$P_4 + P_{41}$	0.571
P_{46}	$P_4 + P_{42}$	0.625
P_{47}	$P_4 + P_{43}$	0.901
P_{48}	$P_4 + P_{44}$	0.889
P_{49}	$P_4 + P_{45}$	0.944
P_{50}	$P_4 + P_{46}$	0.889

Atomic coordinates of all calculated ground-state structures of P_n clusters with $n = 2 - 50$ in the XYZ format.

2

P2

P	0.0000000000	0.0000000000	0.9447910000
P	0.0000000000	0.0000000000	-0.9447910000

3

P3

P	0.0000000000	1.1656250000	-0.0000000000
P	1.1271580000	-0.5824800000	-0.0000000000
P	-1.1271580000	-0.5831460000	0.0000000000

4

P4

P	-0.8165600000	-0.8225570000	-0.6912010000
P	0.7450300000	-0.7248510000	0.8605090000
P	-0.7402950000	0.8941670000	0.6881330000
P	0.8118240000	0.6532410000	-0.8574410000

5

P5

P	0.1952550000	-1.4742760000	-0.0000890000
P	-1.1264940000	0.0000000000	1.0894330000
P	0.1952930000	1.4742810000	-0.0000780000
P	-1.1263480000	0.0000160000	-1.0893930000
P	1.8622940000	-0.0000210000	0.0001270000

6

P6

P	-0.3667690000	-1.6141750000	-0.0002590000
P	1.8133400000	1.0072240000	-0.0002030000
P	-1.4465260000	-0.0001950000	1.1057280000
P	1.8132980000	-1.0071590000	0.0002280000
P	-0.3668950000	1.6141290000	0.0002640000
P	-1.4464480000	0.0001760000	-1.1057580000

7

P7

P	-1.1654300000	-0.9695920000	1.1230070000
P	-1.1627440000	-0.9690640000	-1.1238750000
P	-1.7215510000	0.8455440000	0.0000020000
P	1.1638310000	-0.9695780000	1.1236170000
P	1.7217570000	0.8450600000	0.0010300000
P	1.1638380000	-0.9694950000	-1.1234050000
P	0.0002990000	2.1871240000	-0.0003760000

8

P8

P	3.7214190000	0.0461920000	0.0155010000
P	1.9087530000	0.6864970000	-1.0652510000

P	1.8889630000	0.5513100000	1.1326230000
P	-1.9565060000	1.2835170000	-0.0333110000
P	1.9660880000	-1.2838660000	-0.0828670000
P	-1.8899460000	-0.6556750000	-1.0763900000
P	-1.9176230000	-0.5900850000	1.1249670000
P	-3.7211480000	-0.0378900000	-0.0152710000

9

P9

P	-1.9725780000	-1.0546610000	0.0001620000
P	-0.2233670000	-1.8182120000	-1.1421400000
P	-1.8988900000	1.1821750000	-0.0001730000
P	-0.1032370000	1.8289690000	1.1421420000
P	-0.1032400000	1.8286280000	-1.1426870000
P	1.0289700000	-0.0341460000	-1.6841970000
P	-0.2233620000	-1.8178710000	1.1426840000
P	1.0289770000	-0.0336420000	1.6842030000
P	2.4667260000	-0.0812400000	0.0000070000

10

P10

P	1.7048230000	-1.6227760000	0.0322190000
P	3.1985210000	0.0004740000	-0.2943460000
P	1.9477580000	-0.0002440000	1.5447000000
P	1.7040990000	1.6228420000	0.0332320000
P	0.0000410000	1.1143350000	-1.3158250000
P	-0.0000440000	-1.1143700000	-1.3157570000
P	-1.7047810000	1.6227320000	0.0321500000
P	-3.1986070000	-0.0004850000	-0.2942870000
P	-1.9477510000	0.0003080000	1.5447050000
P	-1.7040590000	-1.6228160000	0.0332080000

11

P11

P	3.4141550000	0.0000010000	0.8752820000
P	2.4119040000	1.1275130000	-0.7158950000
P	2.4119070000	-1.1275070000	-0.7159010000
P	-2.7382480000	-1.1402900000	-0.1885700000
P	0.4658110000	-1.7115460000	0.2519420000
P	-0.8569930000	-1.1373450000	-1.4263510000
P	0.1321270000	-0.0000010000	1.6416960000
P	-2.1112250000	-0.0000010000	1.6407840000
P	-0.8569970000	1.1373350000	-1.4263540000
P	-2.7382450000	1.1402950000	-0.1885680000
P	0.4658040000	1.7115470000	0.2519340000

12

P12

P	2.5351090000	0.5881090000	1.1736510000
P	2.5357880000	-1.3096440000	-0.0774220000
P	2.5353660000	0.7224720000	-1.0955770000
P	0.4302800000	-2.0608600000	-0.1220370000

P	0.4297350000	1.1358440000	-1.7237060000
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P	-0.4297160000	-0.9250760000	-1.8454360000
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P	-2.5351710000	-0.7221700000	1.0962340000

13

P13

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P	-2.6234460000	-1.6253400000	-0.0526310000
P	-2.9506580000	0.0109450000	-1.5337430000
P	-0.8692530000	1.1253090000	1.2429220000
P	0.7910210000	1.6959250000	-0.1240400000
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P	2.4201620000	-1.1223010000	1.2985370000
P	-0.8693440000	-1.1424970000	1.2274950000
P	2.4199940000	1.1049200000	1.3133640000
P	-4.0899020000	-0.0026430000	0.3796570000

14

P14

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P	3.7104700000	-1.1372350000	0.1872460000
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P	0.4771370000	1.6988680000	0.0080450000
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P	-4.4031900000	0.0001070000	-0.2205390000
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P	0.5520120000	0.0001500000	1.4530140000
P	-2.9148330000	1.6261920000	0.1081180000

15

P15

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P	-0.7559510000	-0.3538020000	1.7592270000
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P	-3.8375020000	0.2872320000	1.1347510000
P	-3.2869960000	-1.5778260000	-0.0027050000

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P	2.4628600000	-1.4725500000	-1.1173210000
P	1.3822170000	0.3814940000	-1.7653710000

16

P16

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P	2.2093780000	-1.1436270000	1.4356810000
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P	1.3423470000	0.0000590000	-1.6604510000
P	3.5871080000	0.0001730000	-1.5842880000
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P	-1.0782880000	-1.7670260000	0.3393860000

17

P17

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P	-3.6081730000	-1.3058820000	-1.1117000000
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P	-2.0359220000	0.1949230000	-1.7005030000
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P	-0.3525490000	-1.1368520000	1.1603710000
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P	4.6577720000	0.0924710000	-1.1381730000
P	1.4187290000	0.0784150000	-1.7017570000
P	2.9672610000	-1.3944650000	-1.1345270000
P	1.5662040000	1.5209080000	-0.0047500000
P	3.7855190000	1.8278670000	-0.0057270000
P	2.9672370000	-1.3873340000	1.1433010000
P	4.6577880000	0.0996010000	1.1375570000
P	1.4187760000	0.0891800000	1.7012500000

18

P18

P	0.0000330000	-1.1603920000	-1.2342750000
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P	1.8098700000	-0.0000190000	1.5027780000

P	4.0145830000	-0.0001320000	1.8993140000
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P	4.9548100000	-1.1386300000	0.2032930000
P	1.7198390000	-1.7027080000	0.0620270000
P	3.3258610000	1.1388570000	-1.3494410000
P	-1.7199650000	1.7028120000	0.0625280000
P	-3.3258280000	1.1389740000	-1.3494120000
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P	-4.0146680000	-0.0003020000	1.8992790000
P	-1.8099280000	-0.0001740000	1.5028700000
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P	-3.3257380000	-1.1387610000	-1.3495260000
P	-1.7197800000	-1.7026150000	0.0620080000
P	1.7199910000	1.7026650000	0.0621460000
P	-0.0001330000	1.1608370000	-1.2339850000

19

P19

P	-5.6263810000	-1.2131100000	0.5613090000
P	-4.3530200000	-1.4569040000	-1.2075750000
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P	0.7431210000	-1.1706420000	0.9470800000
P	0.7913100000	-0.5113610000	-1.1924560000
P	1.2721440000	1.6433060000	-0.8906700000
P	-0.3194950000	2.2079400000	0.5580470000
P	-0.4937990000	0.3726480000	1.9745170000
P	-2.5366810000	-0.4807190000	1.5347690000
P	-1.9389050000	1.8389230000	-0.8959530000
P	-3.4151620000	1.3914390000	0.7105080000
P	-2.2891820000	-1.6707730000	-0.3431610000
P	-1.3699760000	-0.2339270000	-1.7793990000
P	2.9902360000	1.5474240000	0.5132400000
P	2.6883130000	-0.3758620000	1.6711490000
P	4.5823430000	0.9970890000	-0.9404780000
P	5.8333570000	-0.5039680000	0.1340900000
P	4.4134570000	-1.1705790000	-1.4465110000
P	4.0900900000	-1.7865220000	0.6702830000

20

P20

P	4.7998630000	-1.6276990000	0.4491360000
P	6.3209670000	-0.0001520000	0.3692540000
P	4.7800070000	0.0000170000	1.9759360000
P	4.7999310000	1.6274650000	0.4487970000
P	3.3832920000	1.1288010000	-1.1932090000
P	1.4937060000	-1.6868800000	-0.1864000000
P	3.3830690000	-1.1293830000	-1.1928830000
P	1.4941950000	1.6874020000	-0.1869630000
P	1.1448370000	0.0001530000	1.2639650000
P	0.0002580000	-1.1656220000	-1.7477120000
P	-3.3836830000	-1.1283620000	-1.1938500000
P	-1.4943570000	-1.6872240000	-0.1878290000

P	-3.3831230000	1.1299400000	-1.1927490000
P	-4.7999520000	1.6274510000	0.4494390000
P	-4.7794200000	-0.0007590000	1.9760180000
P	-0.0002370000	1.1663370000	-1.7472130000
P	-1.1449920000	-0.0006390000	1.2638030000
P	-1.4938350000	1.6869860000	-0.1858510000
P	-6.3209040000	-0.0001370000	0.3698560000
P	-4.7996230000	-1.6276980000	0.4484530000

21

P21

P	-5.6832870000	1.1198680000	-0.5060570000
P	-3.6835710000	-1.7005450000	0.3047040000
P	-3.6835960000	1.7005980000	0.3046160000
P	-5.6832620000	-1.1199260000	-0.5060280000
P	-3.1853030000	0.0000410000	1.6914450000
P	-6.5372140000	-0.0000080000	1.1749840000
P	-2.3836320000	-1.1665450000	-1.4230730000
P	-2.3836010000	1.1665500000	-1.4230780000
P	-0.7202120000	1.6912090000	-0.0464050000
P	-0.7201870000	-1.6912550000	-0.0464760000
P	-0.9055390000	-0.0000220000	1.4315880000
P	1.0164430000	-1.1528960000	-1.2987870000
P	1.0164280000	1.1529550000	-1.2987480000
P	5.9139110000	1.1388200000	0.3214060000
P	2.6894820000	1.7030960000	0.0552070000
P	4.3471630000	1.1391810000	-1.2946120000
P	2.7238370000	-0.0000140000	1.4969220000
P	4.9115710000	-0.0000070000	1.9804470000
P	4.3471750000	-1.1391660000	-1.2946220000
P	5.9139180000	-1.1388200000	0.3213940000
P	2.6894760000	-1.7031120000	0.0551720000

22

P22

P	-4.7808180000	-2.1073740000	-0.5138280000
P	-3.4655590000	-0.7133230000	-1.6462020000
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P	-6.6642790000	-0.9458560000	-0.2400780000
P	-5.6227210000	0.8070890000	0.6629120000
P	-4.0104830000	1.3110930000	-0.7849280000
P	-5.2793370000	-1.2425580000	1.4782820000
P	3.4657140000	-0.7128740000	1.6463060000
P	4.7805160000	-2.1073860000	0.5138900000
P	0.3584710000	0.3084160000	1.9237900000
P	2.3899120000	1.7667450000	-0.6617130000
P	4.0105220000	1.3111990000	0.7845500000
P	1.4953190000	-1.2015030000	0.7425400000
P	-1.7244840000	-0.2690030000	1.2801020000
P	-2.3899330000	1.7668210000	0.6612740000
P	-0.7797450000	2.2866820000	-0.7823140000
P	0.7798410000	2.2869000000	0.7820090000

P	1.7244030000	-0.2691860000	-1.2799290000
P	5.2793760000	-1.2428410000	-1.4781390000
P	5.6230460000	0.8069450000	-0.6628340000
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P	-1.4954040000	-1.2019040000	-0.7421990000

23

P23

P	5.7518050000	-1.6274960000	0.4714970000
P	7.2727730000	0.0001720000	0.3920720000
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P	5.7517530000	1.6277940000	0.4701990000
P	4.3361900000	1.1285550000	-1.1726890000
P	4.3360100000	-1.1297680000	-1.1716780000
P	0.9554260000	-1.1670940000	-1.7265620000
P	2.4467620000	-1.6870940000	-0.1643660000
P	0.9550790000	1.1661090000	-1.7271700000
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P	2.4470480000	1.6873780000	-0.1660160000
P	2.0963010000	0.0005930000	1.2842670000
P	-0.5413260000	-1.6903360000	-0.1673970000
P	-0.1958880000	0.0000220000	1.2831160000
P	-2.4080640000	1.1485750000	-1.2137780000
P	-2.4082050000	-1.1486960000	-1.2136670000
P	-3.9361470000	-1.6998200000	0.2999970000
P	-5.6645360000	-1.1162890000	-1.0202900000
P	-3.8300450000	0.0000680000	1.7227090000
P	-5.6644550000	1.1162720000	-1.0205690000
P	-7.0084560000	0.0001120000	0.3761430000
P	-3.9360430000	1.6997820000	0.2998380000
P	-5.9457670000	0.0006670000	2.3339340000

24

P24

P	3.6239580000	1.7028100000	0.1217360000
P	2.0672270000	-1.1529160000	-1.3645980000
P	2.0673040000	1.1526550000	-1.3647940000
P	3.5414680000	0.0000710000	1.5619940000
P	5.3854410000	-1.1391850000	-1.0892530000
P	3.6239690000	-1.7028170000	0.1219340000
P	-0.0661890000	0.0001630000	1.2002200000
P	0.2348500000	-1.6912930000	-0.2584100000
P	-1.3065230000	-1.1666360000	-1.7723490000
P	-4.6690160000	-1.1292500000	-1.1190060000
P	-2.7517620000	-1.6877460000	-0.1679330000
P	-4.6687690000	1.1296480000	-1.1186570000
P	-6.0363220000	1.6278080000	0.5645060000
P	-7.5585720000	-0.0000370000	0.5293880000
P	-5.9712120000	-0.0000430000	2.0902520000
P	-1.3067870000	1.1667750000	-1.7722560000
P	-2.3578430000	-0.0003920000	1.2710540000
P	-2.7516380000	1.6873960000	-0.1671010000

P	0.2349580000	1.6915570000	-0.2588480000
P	6.8163790000	1.1388960000	0.6481010000
P	5.3854450000	1.1390410000	-1.0893310000
P	5.6831260000	0.0000890000	2.2205430000
P	6.8164020000	-1.1388110000	0.6481760000
P	-6.0358940000	-1.6277840000	0.5646310000

25

P25

P	6.5475040000	0.6417720000	-0.7474700000
P	7.5360510000	-1.1691460000	0.0987580000
P	6.0898420000	-1.3778770000	-1.5817720000
P	5.6118220000	-2.2513260000	0.4115120000
P	4.3936860000	-0.8187670000	1.6032750000
P	5.0018720000	1.1928440000	0.7547050000
P	-0.6503280000	-1.0549740000	-0.6402910000
P	-0.7825900000	-0.1414460000	1.3993930000
P	-1.3733460000	1.9342190000	0.8329960000
P	0.2184890000	2.4038220000	-0.6502330000
P	0.5164490000	0.4270060000	-1.8328040000
P	2.5892470000	-0.2528140000	-1.2624760000
P	1.8212110000	2.3101490000	0.8652110000
P	3.3617320000	1.7428950000	-0.6358440000
P	2.3776020000	-1.2054520000	0.7522570000
P	1.3440810000	0.3339520000	1.9882200000
P	-3.0365500000	1.6032890000	-0.5921010000
P	-2.5997600000	-0.4662340000	-1.5126240000
P	-4.0345120000	-1.8311240000	-0.5057630000
P	-5.7783800000	-1.0653000000	-1.7097800000
P	-4.3522140000	-0.8538380000	1.4613460000
P	-6.2269080000	0.9489120000	-0.8597520000
P	-7.3930720000	-0.8341810000	-0.1791180000
P	-4.7272530000	1.2306600000	0.7970290000
P	-6.4546760000	-1.4470420000	1.7453250000

26

P26

P	5.3066860000	1.1515430000	0.7801970000
P	3.7018220000	1.7178200000	-0.6447430000
P	2.6345530000	-1.1930090000	0.7607530000
P	2.8999040000	-0.2692210000	-1.2611260000
P	-3.7469140000	-1.7092590000	-0.5808280000
P	-0.3647810000	-0.9981270000	-0.6860470000
P	-2.2845300000	-0.3818530000	-1.6021480000
P	0.8511990000	0.4460770000	-1.8746490000
P	-4.4024130000	1.3898500000	0.6673290000
P	-1.0515690000	2.0242270000	0.7410190000
P	-0.5140040000	-0.0564610000	1.3396400000
P	1.6119000000	0.3816370000	1.9610250000
P	-2.6937790000	1.7156350000	-0.7134270000
P	-4.0639480000	-0.6970840000	1.3841340000
P	2.1487050000	2.3346690000	0.8233560000

P	0.5741230000	2.4424020000	-0.7198810000
P	-5.5280060000	-1.0195010000	-1.6949740000
P	-7.0173130000	-1.9020340000	-0.2566610000
P	-5.9588120000	1.0592410000	-0.8678220000
P	5.8522010000	-2.3080990000	0.4897380000
P	4.6429110000	-0.8365360000	1.6422930000
P	6.3815860000	-1.4697270000	-1.5056870000
P	6.8657950000	0.5506630000	-0.6886350000
P	-6.1986750000	-1.2794740000	1.7412160000
P	7.8029270000	-1.2687300000	0.1968890000
P	-7.4495660000	0.1753520000	0.5690400000

27

P27

P	-5.1821480000	1.7005010000	-0.3611520000
P	-6.9414230000	1.1144450000	0.9167940000
P	-5.0416860000	0.0034510000	-1.7842910000
P	-6.9414550000	-1.1183340000	0.9121370000
P	-8.2512540000	0.0008980000	-0.5137910000
P	-5.1821310000	-1.6992410000	-0.3678920000
P	-7.1422710000	0.0054450000	-2.4459610000
P	-3.6905210000	1.1462230000	1.1872630000
P	-3.6901710000	-1.1513230000	1.1824680000
P	-0.3434270000	-1.1708620000	1.7755350000
P	-1.7997680000	-1.6906410000	0.1786930000
P	-0.3431610000	1.1636060000	1.7803550000
P	1.1874430000	1.6909580000	0.2575830000
P	-1.7999870000	1.6902500000	0.1862140000
P	-1.4179270000	0.0028130000	-1.2580720000
P	1.1876780000	-1.6921940000	0.2512780000
P	0.8765270000	0.0022620000	-1.2013350000
P	3.0260630000	1.1502380000	1.3527700000
P	3.0260950000	-1.1551250000	1.3485220000
P	7.7632280000	-1.1375710000	-0.6917670000
P	4.5741090000	-1.7025650000	-0.1480620000
P	6.3425030000	-1.1409590000	1.0540930000
P	4.4829060000	0.0029330000	-1.5847270000
P	6.6210290000	0.0042220000	-2.2554810000
P	6.3424530000	1.1372490000	1.0582940000
P	7.7632400000	1.1401920000	-0.6875610000
P	4.5740570000	1.7031280000	-0.1419080000

28

P28

P	-8.0445470000	-1.1390590000	0.8045260000
P	-4.8697160000	-1.7029500000	0.1833700000
P	-6.6662900000	-1.1389010000	-0.9749810000
P	-4.7439250000	-0.0001480000	1.6207280000
P	-6.8652180000	-0.0002040000	2.3426210000
P	-6.6662680000	1.1393190000	-0.9747580000
P	-8.0446220000	1.1388090000	0.8047460000
P	-4.8696950000	1.7029430000	0.1839200000

P	-3.3575280000	-1.1526110000	-1.3483340000
P	-3.3573060000	1.1532450000	-1.3478820000
P	-0.0001580000	1.1674400000	-1.8548960000
P	-1.4940060000	1.6917270000	-0.2950550000
P	0.0000770000	-1.1671080000	-1.8551680000
P	1.4940440000	-1.6917190000	-0.2955630000
P	-1.4942780000	-1.6920710000	-0.2959980000
P	-1.1477920000	-0.0003520000	1.1524470000
P	1.4943570000	1.6920180000	-0.2958700000
P	1.1479870000	0.0001100000	1.1522780000
P	3.3574830000	-1.1531710000	-1.3480760000
P	3.3575000000	1.1526750000	-1.3484780000
P	8.0445880000	1.1389360000	0.8045210000
P	4.8697600000	1.7029800000	0.1831330000
P	6.6663910000	1.1387220000	-0.9750640000
P	4.7437650000	0.0003340000	1.6206360000
P	6.8650720000	0.0003550000	2.3427180000
P	6.6662560000	-1.1394860000	-0.9745580000
P	8.0445250000	-1.1389160000	0.8050290000
P	4.8695420000	-1.7029190000	0.1840080000

29

P29

P	5.1185650000	-1.9723290000	0.4552120000
P	6.9104030000	-1.3543570000	1.6735060000
P	5.4915390000	-0.9581230000	-1.4832250000
P	7.4827920000	0.6523090000	0.8820000000
P	8.5321810000	-1.1795600000	0.1429540000
P	5.9994720000	1.0775550000	-0.7589070000
P	7.5518340000	-1.6732270000	-1.7949570000
P	3.7757570000	-0.5507120000	1.5094280000
P	4.3402550000	1.5139960000	0.6494430000
P	-1.2422790000	-0.9067810000	-0.7511100000
P	-1.3923160000	-0.0002920000	1.2901780000
P	-2.0363610000	2.0621360000	0.7330300000
P	-0.4641480000	2.5735980000	-0.7569650000
P	-0.1188140000	0.6072130000	-1.9433520000
P	1.9750980000	-0.0219530000	-1.3827370000
P	1.1453240000	2.5181430000	0.7509200000
P	2.6971350000	1.9945430000	-0.7568290000
P	1.7903010000	-0.9873100000	0.6287710000
P	0.7236890000	0.5278960000	1.8717130000
P	-3.6931490000	1.6964840000	-0.6916950000
P	-3.2074260000	-0.3679630000	-1.6188650000
P	-7.8360330000	-2.1216700000	-0.1975120000
P	-4.5858420000	-1.7744950000	-0.5863720000
P	-6.4197350000	-1.1521640000	-1.6536230000
P	-4.9064800000	-0.8042910000	1.3990090000
P	-7.0043990000	-1.4888550000	1.7916640000
P	-6.9271560000	0.8933730000	-0.7879710000
P	-8.3450180000	-0.0774690000	0.6666670000
P	-5.3551910000	1.2743030000	0.7196230000

30

P30

P	8.0832430000	-2.2176730000	0.2273470000
P	4.8351900000	-1.8150740000	0.5779730000
P	6.6655190000	-1.2445830000	1.6797420000
P	5.2010880000	-0.8198440000	-1.3870180000
P	7.2910080000	-1.5378480000	-1.7624330000
P	7.2230880000	0.8043660000	0.8539590000
P	8.6423010000	-0.1700880000	-0.5969560000
P	5.6794000000	1.2388910000	-0.6682490000
P	3.4693020000	-0.3991470000	1.6141700000
P	4.0065380000	1.6702180000	0.7274510000
P	-1.5067650000	-0.8866620000	-0.7107650000
P	-1.7018490000	0.0503360000	1.3131540000
P	-2.3765150000	2.0906540000	0.7130930000
P	-0.7947980000	2.6078810000	-0.7648370000
P	-0.3959810000	0.6285590000	-1.9135070000
P	1.7019310000	0.0501440000	-1.3130340000
P	0.7948060000	2.6079620000	0.7645450000
P	2.3765710000	2.0905340000	-0.7132690000
P	1.5067950000	-0.8865920000	0.7110110000
P	0.3960110000	0.6288540000	1.9134810000
P	-4.0065980000	1.6701590000	-0.7274600000
P	-3.4692190000	-0.3992100000	-1.6140930000
P	-8.0832940000	-2.2176050000	-0.2274900000
P	-4.8352180000	-1.8151080000	-0.5779610000
P	-6.6655040000	-1.2444790000	-1.6797740000
P	-5.2011680000	-0.8199530000	1.3870900000
P	-7.2911140000	-1.5379050000	1.7623280000
P	-7.2230600000	0.8044240000	-0.8538510000
P	-8.6423270000	-0.1700490000	0.5969420000
P	-5.6793790000	1.2388390000	0.6684110000

31

P31

P	9.2473830000	0.6861870000	-0.9208100000
P	7.7887120000	-0.4058730000	-2.1413420000
P	8.5557270000	-1.2765420000	-0.2224500000
P	2.9662440000	1.5079740000	-0.2242650000
P	2.6707520000	-0.5523880000	-1.0528110000
P	2.2174250000	-1.6458520000	0.8371600000
P	3.9652900000	-1.0345310000	2.0733810000
P	4.2972830000	1.2042830000	1.5411270000
P	6.2817620000	1.2340540000	0.4674550000
P	5.4147040000	-2.0553670000	0.7607670000
P	7.0577910000	-0.6646040000	1.3339990000
P	5.8320670000	0.5706590000	-1.6210750000
P	4.7576690000	-1.3651360000	-1.3578940000
P	0.7194320000	-0.3448560000	1.8312820000
P	1.1303920000	1.7618980000	0.9903250000
P	-4.0577470000	-1.2112440000	-0.7819000000

P	-4.4412790000	-0.2714950000	1.2136420000
P	-5.2274910000	1.7016430000	0.5348880000
P	-3.6025520000	2.3197980000	-0.8529890000
P	-2.9872590000	0.3627530000	-1.9407000000
P	-0.8926490000	-0.0461930000	-1.2010860000
P	-2.1164830000	2.4579030000	0.7733160000
P	-0.4040460000	2.0420830000	-0.5860560000
P	-1.1484300000	-0.9754890000	0.8206490000
P	-2.4363540000	0.4694590000	1.9312960000
P	-6.7477210000	1.1056460000	-0.9685070000
P	-6.0194720000	-0.8839020000	-1.7731280000
P	-8.3782560000	0.5034560000	0.4202490000
P	-9.2485640000	-1.3340630000	-0.4956520000
P	-7.9194670000	-1.5038410000	1.2830840000
P	-7.2748620000	-2.3564200000	-0.6719520000

32

P32

P	0.3452030000	0.3434530000	1.8377740000
P	2.3445560000	-0.3461090000	-1.0013920000
P	2.4035960000	1.8742750000	-0.6181430000
P	5.3413690000	1.3571740000	-0.7216470000
P	3.9897590000	1.9517730000	0.9385320000
P	4.6029520000	-0.7383430000	-1.0910060000
P	3.6891940000	-0.0311110000	2.1329130000
P	6.9526360000	-0.8620480000	1.5140820000
P	1.9559380000	-0.9902210000	1.1240850000
P	4.9007330000	-1.5104640000	1.0020740000
P	7.2465490000	1.0584430000	0.3620970000
P	9.8049600000	-1.1856030000	-0.5111650000
P	8.0972560000	-1.7186160000	-1.8363110000
P	8.5106340000	0.4212070000	-1.3547530000
P	8.0863840000	-2.3469510000	0.3052870000
P	0.6148070000	2.2697740000	0.6135740000
P	-1.4495290000	-0.6210430000	0.9680840000
P	-1.2539260000	-0.0401900000	-1.1853100000
P	-0.9504940000	2.1565620000	-0.9504560000
P	-2.7000030000	2.6576630000	0.3296380000
P	-2.8684110000	0.8781710000	1.8142470000
P	-7.1830360000	0.6419900000	-1.1399240000
P	-4.7955200000	-0.1415200000	1.2400090000
P	-4.1513130000	2.1176630000	-1.2440300000
P	-6.2839660000	-1.3887790000	-1.5913210000
P	-8.1603300000	-1.6290510000	1.5321070000
P	-8.7738960000	0.1540330000	0.3368980000
P	-5.7350320000	1.6125000000	0.2342670000
P	-4.3130210000	-1.3752100000	-0.5651830000
P	-3.3641470000	0.0596180000	-1.9816880000
P	-9.4786530000	-1.8799920000	-0.2450570000
P	-7.4252490000	-2.7490470000	-0.2482820000

33

P33

P	-8.7421400000	1.1718390000	-1.6277630000
P	-10.2546510000	1.3486360000	0.0001080000
P	-8.4650380000	2.6729500000	0.0004590000
P	-8.7422480000	1.1710320000	1.6279380000
P	-7.6230990000	-0.6864900000	1.1290320000
P	-7.6228290000	-0.6858860000	-1.1298730000
P	-4.3852450000	-1.8029170000	-1.1674300000
P	-5.5916520000	-0.0107170000	-1.6873430000
P	-4.3851100000	-1.8033740000	1.1667610000
P	-2.6485660000	-0.5182030000	1.6915920000
P	-5.5920590000	-0.0117800000	1.6875380000
P	-5.0024630000	1.3587020000	0.0003820000
P	-2.6483310000	-0.5181870000	-1.6919810000
P	-2.7430500000	0.9669160000	0.0000270000
P	-0.9863100000	-1.8650360000	1.1444730000
P	-0.9861380000	-1.8649570000	-1.1445800000
P	2.4100310000	-1.9554180000	-1.1672400000
P	0.7342590000	-0.5931680000	-1.6917150000
P	2.4103220000	-1.9549370000	1.1677990000
P	3.6975120000	-0.2187640000	1.6900980000
P	0.7340050000	-0.5933170000	1.6921490000
P	0.8966610000	0.8851130000	-0.0000020000
P	3.6980020000	-0.2201600000	-1.6905050000
P	3.1735380000	1.1754800000	-0.0005480000
P	5.6798550000	-1.0252270000	1.1493320000
P	5.6801550000	-1.0260330000	-1.1483740000
P	7.0073610000	0.6663060000	-1.6999650000
P	8.8867560000	-0.4282590000	-1.1159630000
P	6.7239980000	2.0651910000	-0.0005590000
P	8.8866070000	-0.4276140000	1.1168530000
P	10.0456060000	1.1253000000	0.0000390000
P	7.0071490000	0.6674370000	1.6998100000
P	8.7471100000	2.9355410000	-0.0005490000

34

P34

P	9.2763160000	0.5247140000	-0.5050370000
P	10.1787020000	-0.8163090000	1.0312610000
P	8.9014930000	-1.6749270000	-0.5782670000
P	8.2333830000	-1.7773350000	1.5449030000
P	6.9058870000	-0.0527030000	2.0140820000
P	7.5930830000	1.5308460000	0.5457560000
P	2.1081720000	-1.2711300000	-0.4266780000
P	1.7721930000	0.3229760000	1.1104830000
P	1.2355120000	2.0216250000	-0.2329910000
P	2.9687320000	1.9760360000	-1.6284310000
P	3.3788390000	-0.2845550000	-1.9733420000
P	5.3864530000	-0.6352420000	-1.0088430000
P	4.4163160000	2.4987400000	-0.0461220000
P	6.0942880000	1.4777320000	-1.0904860000
P	4.9809410000	-0.7937940000	1.1873560000

P	3.8335680000	1.0533180000	1.6753230000
P	-0.2472100000	1.1267260000	-1.6185270000
P	0.2471130000	-1.1260070000	-1.6190060000
P	-4.9810610000	0.7936230000	1.1872710000
P	-5.3866440000	0.6352350000	-1.0088120000
P	-6.0942580000	-1.4778810000	-1.0905850000
P	-4.4160400000	-2.4986820000	-0.0464030000
P	-3.8335980000	-1.0534820000	1.6751760000
P	-1.7719640000	-0.3233740000	1.1105280000
P	-2.9688400000	-1.9753550000	-1.6288660000
P	-1.2354380000	-2.0215520000	-0.2337290000
P	-2.1081460000	1.2712500000	-0.4259100000
P	-3.3787780000	0.2851660000	-1.9730890000
P	-7.5932310000	-1.5310740000	0.5455300000
P	-6.9058490000	0.0521880000	2.0141860000
P	-9.2762390000	-0.5245970000	-0.5053800000
P	-10.1788130000	0.8159350000	1.0312140000
P	-8.9013710000	1.6750580000	-0.5779120000
P	-8.2335130000	1.7768320000	1.5453470000

35

P35

P	9.3931950000	0.0497980000	-1.4447550000
P	10.6213130000	-1.5603270000	-0.5131050000
P	8.8676330000	-2.0938390000	-1.7765820000
P	8.8619690000	-2.5779720000	0.4021630000
P	7.8225120000	-0.9616410000	1.5240770000
P	8.1904930000	0.8614640000	0.2425060000
P	4.9911930000	1.9514070000	0.8017380000
P	6.2843830000	1.1821570000	-0.8333070000
P	4.6137210000	0.0691860000	2.1291770000
P	2.8196490000	-0.8672800000	1.2088790000
P	5.7333530000	-1.5399970000	1.0839510000
P	5.4389130000	-0.8937890000	-1.0521260000
P	3.3776560000	1.8510170000	-0.7253850000
P	3.2041610000	-0.3843210000	-0.9594140000
P	1.2879580000	0.5891590000	1.8543120000
P	1.6306250000	2.4145970000	0.5006270000
P	-3.4852330000	-1.0534030000	-0.3632880000
P	-3.8825810000	0.3230550000	1.3574320000
P	-4.7505430000	2.0543350000	0.2488140000
P	-3.1641780000	2.3787970000	-1.2789590000
P	-2.4922380000	0.2397480000	-1.8866000000
P	-0.3765440000	0.0869170000	-1.1149400000
P	-1.6639480000	2.9488690000	0.2353280000
P	0.0369060000	2.2773480000	-1.0328520000
P	-0.5664020000	-0.3390090000	1.0744050000
P	-1.8964200000	1.2817410000	1.8360010000
P	-6.2519480000	1.0933300000	-1.0667450000
P	-5.4455610000	-1.0427920000	-1.3951280000
P	-6.7112630000	-2.3165350000	-0.0869370000
P	-8.4753290000	-2.1880800000	-1.4830140000

P	-7.2954020000	-0.9280960000	1.5428120000
P	-9.2802710000	-0.1246460000	-1.2080650000
P	-10.1967750000	-1.8369000000	-0.0986060000
P	-7.9462750000	0.8208950000	0.3411720000
P	-9.2947230000	-1.7651940000	1.9364130000

36

P36

P	9.6982800000	0.0306550000	-1.3848650000
P	10.8914340000	-1.6439810000	-0.5242480000
P	9.1434960000	-2.0847780000	-1.8306970000
P	9.1069470000	-2.6787660000	0.3203870000
P	8.0805960000	-1.1051170000	1.5129190000
P	8.4898200000	0.7745270000	0.3292910000
P	5.3019400000	1.8854570000	0.9108170000
P	6.6006100000	1.1790040000	-0.7480090000
P	4.8817960000	-0.0550580000	2.1379590000
P	3.0833760000	-0.9155130000	1.1542420000
P	5.9875450000	-1.6271520000	1.0238000000
P	5.7257190000	-0.8696960000	-1.0796610000
P	3.7034050000	1.8872560000	-0.6352100000
P	3.4981440000	-0.3304660000	-0.9832510000
P	1.5677540000	0.5311640000	1.8573070000
P	1.9524980000	2.4164100000	0.6005890000
P	-3.2054150000	-0.9223600000	-0.4856470000
P	-3.6008980000	0.3739850000	1.2965580000
P	-4.4298460000	2.1727020000	0.2689060000
P	-2.8226760000	2.5461020000	-1.2248030000
P	-2.1780340000	0.4295860000	-1.9326090000
P	-0.0725910000	0.2047560000	-1.1495680000
P	-1.3300050000	3.0163540000	0.3302250000
P	0.3731390000	2.3815810000	-0.9536090000
P	-0.2923160000	-0.3270660000	1.0137520000
P	-1.6047320000	1.2748210000	1.8434210000
P	-5.9295220000	1.3070220000	-1.1134130000
P	-5.1520320000	-0.8312500000	-1.5376120000
P	-9.6451200000	-2.8014680000	0.0266330000
P	-6.4344150000	-2.1441200000	-0.2820410000
P	-8.2454230000	-1.9986290000	-1.5424790000
P	-7.0022460000	-0.8181910000	1.4225260000
P	-9.0333710000	-1.6581220000	1.8617820000
P	-9.0382140000	0.1056080000	-1.1755580000
P	-10.4392480000	-0.6991020000	0.3922540000
P	-7.6303980000	0.9938430000	0.2799130000

37

P37

P	-10.1793290000	-0.5902580000	-0.3644700000
P	-11.0516440000	0.6011850000	1.3065530000
P	-9.8380760000	1.6137230000	-0.2622710000
P	-9.1048760000	1.5479880000	1.8407580000
P	-7.7388810000	-0.1875140000	2.1216230000

P	-8.4497400000	-1.6530610000	0.5458910000
P	-3.0396890000	1.3132060000	-0.3518600000
P	-2.6315790000	-0.3986220000	1.0334940000
P	-2.1135790000	-1.9686420000	-0.4649200000
P	-3.8908590000	-1.8353710000	-1.7978830000
P	-4.3441290000	0.4389750000	-1.9373940000
P	-6.3247700000	0.6731060000	-0.8859980000
P	-5.2796510000	-2.5138490000	-0.2221160000
P	-7.0044310000	-1.4371400000	-1.1246850000
P	-5.8519980000	0.6530540000	1.3023380000
P	-4.6632240000	-1.2088170000	1.5970290000
P	-0.6894140000	-0.9349250000	-1.8150480000
P	-1.2156730000	1.3010490000	-1.6083540000
P	4.1249610000	-0.7639170000	0.8602490000
P	4.4615450000	-0.4090040000	-1.3246140000
P	5.1347650000	1.7174270000	-1.2507310000
P	3.4732870000	2.6155600000	-0.0722190000
P	2.9684580000	1.0201280000	1.5373010000
P	0.9009630000	0.3045560000	0.9787840000
P	1.9837890000	2.2041180000	-1.6465090000
P	0.2970760000	2.1023560000	-0.1976870000
P	1.2114590000	-1.1470890000	-0.6979170000
P	2.4170210000	-0.0116130000	-2.1930790000
P	6.6674390000	1.6924870000	0.3487280000
P	6.0391570000	-0.0530500000	1.7195580000
P	7.4566890000	-1.6875480000	1.2146580000
P	9.1526080000	-0.7108440000	2.3314500000
P	7.9745850000	-1.2595750000	-0.9004620000
P	9.7836420000	0.9989920000	1.0434420000
P	10.8844780000	-0.9450350000	0.9356230000
P	8.4276110000	0.9082200000	-0.7529620000
P	10.0520090000	-1.9902570000	-0.8463000000

38

P38

P	10.4652890000	-0.6098340000	0.4675090000
P	11.3547400000	0.3103220000	-1.3586960000
P	10.1528590000	1.5589810000	0.0396720000
P	9.4210230000	1.1924550000	-2.0327120000
P	8.0331500000	-0.5482550000	-2.0582500000
P	8.7229750000	-1.7734120000	-0.2808700000
P	3.3497380000	1.3596110000	0.1507450000
P	2.9222680000	-0.5333150000	-0.9675110000
P	2.3824850000	-1.8578460000	0.7450420000
P	4.1592100000	-1.5502980000	2.0495690000
P	4.6409790000	0.7139040000	1.8523860000
P	6.6258900000	0.7653730000	0.7841770000
P	5.5415560000	-2.4716420000	0.5961850000
P	7.2785740000	-1.2944280000	1.3348780000
P	6.1558910000	0.4273880000	-1.3785400000
P	4.9442640000	-1.4428860000	-1.3981580000
P	0.9689000000	-0.6185450000	1.9221580000

P	1.5242890000	1.5557200000	1.3899130000
P	-3.8365130000	-0.7840290000	-0.7687480000
P	-4.1739260000	-0.1065490000	1.3384610000
P	-4.8193210000	1.9942770000	0.9524500000
P	-3.1444590000	2.6877480000	-0.3389820000
P	-2.6571050000	0.8672250000	-1.6952590000
P	-0.5997330000	0.2155820000	-1.0301630000
P	-1.6633310000	2.4941270000	1.2838680000
P	0.0239860000	2.1593290000	-0.1286030000
P	-0.9319800000	-0.9698780000	0.8407500000
P	-2.1260570000	0.3876290000	2.1483790000
P	-6.3459950000	1.7599450000	-0.6360160000
P	-5.7374170000	-0.1844970000	-1.7339560000
P	-10.4226460000	-2.1512010000	-0.8980160000
P	-7.1608290000	-1.7151930000	-0.9754140000
P	-8.9163200000	-1.0089510000	-2.1195760000
P	-7.6649670000	-0.9700690000	1.0681800000
P	-9.7707450000	-1.7245560000	1.2096410000
P	-9.5411920000	0.9232150000	-1.0865580000
P	-11.0489270000	-0.2201980000	0.1332300000
P	-8.1066040000	1.1627520000	0.5788320000

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P39

P	8.3631650000	-2.2574320000	0.6643960000
P	10.3282190000	-1.4161350000	1.3732590000
P	8.3290040000	-1.6522520000	-1.4704940000
P	10.6793910000	0.3844930000	0.1004540000
P	11.6235750000	-1.5686920000	-0.4434820000
P	8.8981850000	0.4836890000	-1.2741040000
P	10.3129820000	-2.4311330000	-2.0251760000
P	7.1662100000	-0.6564990000	1.6309280000
P	7.5265080000	1.1956400000	0.3200760000
P	4.3145800000	2.1959460000	0.8100390000
P	5.6424110000	1.4387020000	-0.8046020000
P	3.9507740000	0.3155560000	2.1460890000
P	2.1853670000	-0.6560090000	1.2091130000
P	5.1107240000	-1.2840550000	1.1274600000
P	4.8359770000	-0.6547140000	-1.0178890000
P	2.7234790000	2.0586460000	-0.7362270000
P	2.5901240000	-0.1803970000	-0.9564560000
P	0.6232370000	0.7803810000	1.8269070000
P	0.9532220000	2.6022700000	0.4657480000
P	-4.0944620000	-0.9524980000	-0.4376420000
P	-4.5358510000	0.4291240000	1.2682770000
P	-5.4173510000	2.1403030000	0.1398660000
P	-3.8179660000	2.4794410000	-1.3704020000
P	-3.1051090000	0.3475070000	-1.9568210000
P	-0.9962530000	0.2328410000	-1.1590990000
P	-2.3454540000	3.0830460000	0.1576710000
P	-0.6194890000	2.4300740000	-1.0861280000
P	-1.2063960000	-0.1823780000	1.0306870000

P	-2.5708610000	1.4218140000	1.7663680000
P	-6.8847640000	1.1515480000	-1.1937480000
P	-6.0395600000	-0.9817810000	-1.4958080000
P	-10.4737990000	-3.0010100000	0.1701890000
P	-7.2842510000	-2.2616790000	-0.1702620000
P	-9.0948300000	-2.2440970000	-1.4396920000
P	-7.8986660000	-0.8605550000	1.4560750000
P	-9.9040050000	-1.7377550000	1.9389390000
P	-9.9541700000	-0.1484470000	-1.1928310000
P	-11.3343500000	-0.9073010000	0.4158400000
P	-8.5795470000	0.8637980000	0.2124800000

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P40

P	11.2027740000	-2.5841070000	-0.0044360000
P	8.0778080000	-2.0526420000	0.8542010000
P	10.0661210000	-1.2805300000	1.4360850000
P	8.0376770000	-1.5219520000	-1.3132330000
P	10.0314940000	-2.3531790000	-1.9092610000
P	10.4103970000	0.5176880000	0.0802440000
P	11.5470530000	-0.7862100000	-1.3599700000
P	8.5928840000	0.6351540000	-1.1731470000
P	6.8645490000	-0.4322530000	1.7697610000
P	7.2119880000	1.3870410000	0.3964180000
P	3.9819810000	2.3467320000	0.8180590000
P	5.3379900000	1.5579890000	-0.7570680000
P	3.6324590000	0.5064570000	2.2129200000
P	1.8913740000	-0.5225580000	1.2920810000
P	4.8264240000	-1.1088820000	1.2613960000
P	4.5662500000	-0.5541250000	-0.9061820000
P	2.4093560000	2.1337330000	-0.7384100000
P	2.3122130000	-0.1135480000	-0.8844350000
P	0.3026170000	0.9100010000	1.8459520000
P	0.6196290000	2.6903840000	0.4272530000
P	-4.3646920000	-0.9693630000	-0.4056190000
P	-4.8448120000	0.4620700000	1.2479380000
P	-5.7396920000	2.1205820000	0.0533330000
P	-4.1295590000	2.4329910000	-1.4512470000
P	-3.3788840000	0.2936510000	-1.9579330000
P	-1.2771580000	0.2383440000	-1.1355700000
P	-2.6826920000	3.1102990000	0.0703920000
P	-0.9341950000	2.4423050000	-1.1333140000
P	-1.5043830000	-0.1062650000	1.0646790000
P	-2.9001980000	1.5008890000	1.7320530000
P	-7.1778240000	1.0651760000	-1.2609150000
P	-6.2977660000	-1.0640130000	-1.4818820000
P	-10.7189740000	-3.0932370000	0.2064410000
P	-7.5374140000	-2.3172790000	-0.1264580000
P	-9.3343530000	-2.3701140000	-1.4140780000
P	-8.1898520000	-0.8715360000	1.4451170000
P	-10.1869450000	-1.7624410000	1.9370190000
P	-10.2273530000	-0.2807220000	-1.2472420000

P	-11.6131700000	-1.0057610000	0.3721690000
P	-8.8831210000	0.7992310000	0.1368890000

41

P41

P	8.6302980000	0.8114960000	-1.9401160000
P	10.2689430000	-0.6203690000	-2.5248010000
P	9.2138870000	1.3813750000	0.1238470000
P	10.9147640000	-1.5715220000	-0.6118320000
P	12.0523340000	0.1714420000	-1.4311460000
P	9.6239680000	-0.6273800000	0.9744590000
P	11.3006790000	1.9411280000	-0.3070430000
P	7.1681010000	-0.8278580000	-1.6081990000
P	7.8130600000	-1.7727240000	0.3949930000
P	2.4474510000	1.4016970000	0.1514900000
P	2.0535780000	-0.6451160000	-0.6678160000
P	1.4598720000	-1.6872240000	1.2140500000
P	3.1934590000	-1.1685540000	2.5104530000
P	3.6844460000	1.0373200000	1.9722240000
P	5.7038320000	0.9293370000	0.9707020000
P	4.6201060000	-2.3005340000	1.2653200000
P	6.3369430000	-1.0154720000	1.8632290000
P	5.2975360000	0.2567210000	-1.1259960000
P	4.0871990000	-1.6020730000	-0.8839790000
P	0.0104490000	-0.2836670000	2.1359590000
P	0.5838880000	1.7827080000	1.2866000000
P	-4.7076140000	-0.8907440000	-0.6436770000
P	-5.1110520000	0.1074960000	1.3193890000
P	-5.7427790000	2.1190030000	0.5884770000
P	-4.0274990000	2.6085720000	-0.7428450000
P	-3.4989420000	0.6001200000	-1.7809010000
P	-1.4634940000	0.0701970000	-0.9584730000
P	-2.5984620000	2.6781500000	0.9360110000
P	-0.8677610000	2.1339780000	-0.3536980000
P	-1.8551620000	-0.8091950000	1.0637540000
P	-3.0889540000	0.7311770000	2.1050560000
P	-7.2185200000	1.6315470000	-0.9905310000
P	-6.5764150000	-0.4582570000	-1.7505340000
P	-11.2871350000	-2.2900630000	-0.7651400000
P	-8.0243330000	-1.8574860000	-0.8069240000
P	-9.7419440000	-1.3464510000	-2.1024260000
P	-8.5925220000	-0.8038270000	1.0779270000
P	-10.7024790000	-1.5359630000	1.2691720000
P	-10.3980260000	0.7209280000	-1.4048740000
P	-11.9446080000	-0.2240950000	-0.0692610000
P	-9.0170910000	1.2241850000	0.2471010000

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P42

P	11.5983020000	-1.7599980000	1.5841570000
P	8.3317940000	-1.3744570000	1.4569310000
P	10.0398950000	-0.3936180000	2.4619200000

P	8.8986480000	-1.1106620000	-0.6866140000
P	11.0152410000	-1.8409090000	-0.5844540000
P	10.6812620000	1.2596850000	1.0315410000
P	12.2410020000	-0.1073660000	0.1557960000
P	9.3027580000	1.0847770000	-0.6883220000
P	6.8684190000	0.2648560000	1.7972860000
P	7.4956050000	1.9148750000	0.3002970000
P	2.1625800000	-1.1747900000	-0.6765190000
P	1.7545230000	0.4033290000	0.8594760000
P	1.1438650000	2.0765020000	-0.4848800000
P	2.8752840000	2.1064150000	-1.8832370000
P	3.3878940000	-0.1342060000	-2.2238110000
P	5.4112010000	-0.3931720000	-1.2577800000
P	4.2975890000	2.6939860000	-0.3031360000
P	6.0226230000	1.7509680000	-1.3466220000
P	5.0077190000	-0.5733320000	0.9371860000
P	3.7812390000	1.2261680000	1.4205320000
P	-0.2975820000	1.1142780000	-1.8697420000
P	0.2975640000	-1.1140300000	-1.8699550000
P	-5.0077630000	0.5734030000	0.9371970000
P	-5.4112310000	0.3931370000	-1.2577810000
P	-6.0225920000	-1.7510100000	-1.3465160000
P	-4.2974910000	-2.6939180000	-0.3030370000
P	-3.7812380000	-1.2261580000	1.4205610000
P	-1.7543600000	-0.4035540000	0.8595040000
P	-2.8753910000	-2.1062770000	-1.8833090000
P	-1.1437630000	-2.0766060000	-0.4851400000
P	-2.1625620000	1.1746850000	-0.6761810000
P	-3.3878590000	0.1342700000	-2.2236820000
P	-7.4957390000	-1.9148500000	0.3001950000
P	-6.8683880000	-0.2650320000	1.7973050000
P	-11.5983400000	1.7598220000	1.5843280000
P	-8.3318120000	1.3742890000	1.4571160000
P	-10.0399750000	0.3932990000	2.4618850000
P	-8.8986100000	1.1108620000	-0.6864740000
P	-11.0151800000	1.8411300000	-0.5842520000
P	-10.6813600000	-1.2597000000	1.0312220000
P	-12.2410400000	0.1075030000	0.1556000000
P	-9.3027300000	-1.0845910000	-0.6885900000

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P43

P	12.8686860000	0.0891500000	-0.7509840000
P	11.3723690000	-1.1727780000	-1.7403590000
P	12.0392930000	-1.6165170000	0.3541200000
P	6.6374330000	1.3987190000	-0.4926300000
P	6.2321070000	-0.7776390000	-0.8355570000
P	5.6682680000	-1.3765730000	1.2372470000
P	7.4223060000	-0.5938460000	2.3631000000
P	7.9059390000	1.4387810000	1.3430320000
P	9.9122090000	1.1086770000	0.3645630000
P	8.8344560000	-1.9699550000	1.3742370000

P	10.5478510000	-0.5778780000	1.6721860000
P	9.4697360000	0.0055840000	-1.5306800000
P	8.2704310000	-1.7537010000	-0.8690850000
P	4.2328820000	0.2011500000	1.8507080000
P	4.7940880000	2.0291710000	0.5631500000
P	-0.5188610000	-0.9852360000	-0.6614810000
P	-0.9013520000	0.4194540000	1.0407280000
P	-1.5490470000	2.2204550000	-0.1069730000
P	0.1524070000	2.4092330000	-1.5298060000
P	0.6672100000	0.2215790000	-2.1159310000
P	2.7133870000	-0.1220920000	-1.2254340000
P	1.6044540000	2.8374580000	0.0741660000
P	3.3167460000	2.0221400000	-1.0912730000
P	2.3518410000	-0.5400950000	0.9451490000
P	1.1323420000	1.1926370000	1.6444080000
P	-3.0149750000	1.3989330000	-1.5550520000
P	-2.4109930000	-0.8132780000	-1.7998600000
P	-7.6659290000	0.5360370000	1.2748810000
P	-8.1090990000	0.5854000000	-0.9191270000
P	-8.7138320000	-1.5410210000	-1.2101200000
P	-6.9661630000	-2.5777850000	-0.3047720000
P	-6.4192270000	-1.2908280000	1.5490430000
P	-4.4083770000	-0.4018920000	1.0313380000
P	-5.5798130000	-1.8206360000	-1.8464730000
P	-3.8173250000	-1.9221760000	-0.4912430000
P	-4.8551550000	1.3237790000	-0.3245260000
P	-6.1074070000	0.4396050000	-1.9462680000
P	-10.1738860000	-1.8395060000	0.4347780000
P	-9.5344570000	-0.3838690000	2.0498110000
P	-11.9255850000	-0.8164650000	-0.4789700000
P	-12.8604640000	0.3103250000	1.2030170000
P	-11.6602410000	1.3950520000	-0.3273600000
P	-10.9542510000	1.3104470000	1.7843030000

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P44

P	12.1340620000	-0.1223640000	-1.1084690000
P	13.2454280000	-1.8507670000	-0.2445710000
P	11.5405630000	-2.2096890000	-1.6305430000
P	11.4007110000	-2.8554490000	0.5012950000
P	10.3703660000	-1.2834220000	1.6924760000
P	10.8777390000	0.6125890000	0.5747860000
P	7.7003250000	1.7985020000	1.0572980000
P	9.0452570000	1.0963280000	-0.5660390000
P	7.1789730000	-0.1587890000	2.2173470000
P	5.3986430000	-0.9439350000	1.1422000000
P	8.2851700000	-1.7337800000	1.1078830000
P	8.1289620000	-0.9183110000	-0.9841320000
P	6.1661450000	1.8824070000	-0.5503900000
P	5.9147890000	-0.3194520000	-0.9619050000
P	3.8962330000	0.5278420000	1.8212080000
P	4.3816700000	2.4307340000	0.6277040000

P	-0.8106190000	-0.7377850000	-0.7409730000
P	-1.2495980000	0.5307260000	1.0522420000
P	-1.9913470000	2.3700220000	0.0291600000
P	-0.3099740000	2.7364120000	-1.3826380000
P	0.3054580000	0.6192540000	-2.1163760000
P	2.3694570000	0.3178560000	-1.2542530000
P	1.1295820000	3.1282310000	0.2424490000
P	2.8655650000	2.4762380000	-0.9879230000
P	2.0481100000	-0.2572790000	0.8853730000
P	0.7474900000	1.3613470000	1.7006900000
P	-3.4247590000	1.5757720000	-1.4660480000
P	-2.7160410000	-0.5833000000	-1.8594760000
P	-8.0092570000	0.3006410000	1.3173330000
P	-8.4692730000	0.4749790000	-0.8668870000
P	-8.9725690000	-1.6541150000	-1.2977590000
P	-7.1707330000	-2.6628820000	-0.4703180000
P	-6.6738190000	-1.4774060000	1.4635750000
P	-4.7121580000	-0.4586990000	0.9994740000
P	-5.8329730000	-1.7380510000	-1.9626440000
P	-4.0586760000	-1.8437170000	-0.6231650000
P	-5.2507970000	1.3296260000	-0.2366900000
P	-6.4701380000	0.4955290000	-1.9092080000
P	-10.4051000000	-2.1328220000	0.3286450000
P	-9.8255710000	-0.7592350000	2.0354730000
P	-12.2105860000	-1.1374580000	-0.5077350000
P	-13.1872190000	-0.1731580000	1.2498370000
P	-12.0517570000	1.0691880000	-0.2084110000
P	-11.3277310000	0.8776390000	1.8901060000

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P45

P	12.4179150000	-0.5481660000	-1.1545600000
P	13.3525440000	-2.5195440000	-0.6974970000
P	11.6414340000	-2.4060680000	-2.1172440000
P	11.4125570000	-3.4865370000	-0.1777540000
P	10.5147700000	-2.1239840000	1.3352410000
P	11.2116020000	-0.0852470000	0.6572690000
P	8.1506520000	1.2569230000	1.4090530000
P	9.4481120000	0.8057560000	-0.3374970000
P	7.4333940000	-0.8494820000	2.1134430000
P	5.6042540000	-1.2098620000	0.9023810000
P	8.4057160000	-2.2390960000	0.6784830000
P	8.3559380000	-0.9735180000	-1.1824060000
P	6.6543200000	1.8349590000	-0.1312660000
P	6.2064700000	-0.1895990000	-1.0157280000
P	4.2347850000	0.2104250000	1.8981190000
P	4.9113190000	2.2753220000	1.1497960000
P	-0.5352100000	-0.0111470000	-0.8519170000
P	-0.8740300000	0.8646640000	1.1804800000
P	-1.4232770000	2.9472680000	0.6004940000
P	0.2980310000	3.4545080000	-0.7158290000
P	0.7249270000	1.5018150000	-1.9006800000

P	2.7393490000	0.8255820000	-1.1387030000
P	1.7443210000	3.3424820000	0.9469620000
P	3.4300700000	2.8163770000	-0.4073170000
P	2.3356870000	-0.1731170000	0.8239690000
P	1.1803940000	1.3416220000	1.9849420000
P	-2.9352870000	2.6267090000	-0.9877400000
P	-2.4006010000	0.5818410000	-1.8895840000
P	-5.6621980000	-0.2353590000	-2.1750080000
P	-3.8670580000	-0.8112850000	-0.9984170000
P	-6.2342590000	1.8579640000	-1.3123360000
P	-7.5667150000	1.3695810000	0.3991580000
P	-4.7068580000	2.2131260000	0.2632220000
P	-4.4035770000	0.1018560000	0.9912840000
P	-6.7331500000	-1.6604600000	-0.8469360000
P	-6.6045890000	-0.5425120000	1.1042290000
P	-9.3737060000	0.7139980000	-0.6867210000
P	-8.8083620000	-1.3467280000	-1.5308130000
P	-9.9139500000	-2.7879750000	-0.2539500000
P	-11.9071140000	-2.3050930000	-1.1845090000
P	-10.0228470000	-1.7165210000	1.6864450000
P	-12.4578060000	-0.3021670000	-0.3656070000
P	-13.2649480000	-2.1580220000	0.5864400000
P	-10.7527810000	0.2613310000	0.9935030000
P	-11.9602370000	-2.5226220000	2.3551030000

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P46

P	12.8324480000	-0.5884490000	0.7508220000
P	13.7793450000	0.0877790000	-1.1514930000
P	12.5528320000	1.5108370000	0.0442110000
P	11.8730880000	0.8899400000	-1.9848310000
P	10.4692080000	-0.8309770000	-1.8289560000
P	11.0995420000	-1.8263630000	0.1070180000
P	5.7477580000	1.3709060000	-0.0068960000
P	5.3316320000	-0.6448080000	-0.8901010000
P	4.7334890000	-1.7401510000	0.9592130000
P	6.4775860000	-1.2821290000	2.2638450000
P	6.9872030000	0.9360770000	1.7970220000
P	8.9999650000	0.8399010000	0.7856280000
P	7.8890410000	-2.3880340000	0.9766430000
P	9.6173170000	-1.1382480000	1.6090030000
P	8.5843960000	0.2349900000	-1.3295860000
P	7.3550120000	-1.6146920000	-1.1469990000
P	3.3006470000	-0.3541170000	1.9314540000
P	3.8923210000	1.7326490000	1.1477430000
P	-1.4260930000	-0.8253410000	-0.8503690000
P	-1.8204060000	0.1147880000	1.1441020000
P	-2.4383110000	2.1519500000	0.4748510000
P	-0.7167410000	2.6707120000	-0.8376230000
P	-0.2105380000	0.6925090000	-1.9442230000
P	1.8204040000	0.1152380000	-1.1443730000
P	0.7167940000	2.6702870000	0.8386460000

P	2.4383600000	2.1522000000	-0.4740120000
P	1.4261560000	-0.8258080000	0.8497080000
P	0.2105340000	0.6914550000	1.9443250000
P	-3.8923530000	1.7331350000	-1.1470650000
P	-3.3007320000	-0.3532870000	-1.9317430000
P	-8.5843690000	0.2344420000	1.3297670000
P	-8.9999810000	0.8402800000	-0.7852300000
P	-9.6173290000	-1.1374630000	-1.6094460000
P	-7.8890640000	-2.3875860000	-0.9775810000
P	-7.3550550000	-1.6151840000	1.1462980000
P	-5.3316230000	-0.6452120000	0.8899660000
P	-6.4775750000	-1.2811570000	-2.2643100000
P	-4.7334540000	-1.7397550000	-0.9599930000
P	-5.7476740000	1.3708860000	0.0075710000
P	-6.9871990000	0.9369140000	-1.7965030000
P	-11.0994550000	-1.8262820000	-0.1076780000
P	-10.4691970000	-0.8317180000	1.8286610000
P	-12.8324910000	-0.5882300000	-0.7509340000
P	-13.7793680000	0.0872000000	1.1516690000
P	-12.5529440000	1.5107760000	-0.0434880000
P	-11.8731260000	0.8891380000	1.9852660000

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P47

P	13.0511330000	-0.0718680000	0.9434250000
P	14.1321930000	-1.8911430000	0.2432010000
P	12.4561720000	-2.0873470000	1.6953740000
P	12.2651050000	-2.9530200000	-0.3528900000
P	11.2181280000	-1.5065470000	-1.6807800000
P	11.7630420000	0.4923070000	-0.7812690000
P	8.5829730000	1.6480190000	-1.3190980000
P	9.9594430000	1.1107090000	0.3403290000
P	8.0229160000	-0.4167760000	-2.2526010000
P	6.2625350000	-1.0678650000	-1.0612870000
P	9.1439320000	-1.8744760000	-1.0061890000
P	9.0399740000	-0.8400840000	0.9901990000
P	7.0859330000	1.9157490000	0.3033000000
P	6.8298090000	-0.2274630000	0.9524430000
P	4.7538390000	0.3358250000	-1.8597440000
P	5.2791570000	2.3511170000	-0.8880360000
P	0.0992810000	-0.6061110000	0.9279280000
P	-0.3725110000	0.4651670000	-0.9817130000
P	-1.0790430000	2.4104920000	-0.1478280000
P	0.6360670000	2.9125480000	1.1793250000
P	1.2548490000	0.8815160000	2.1237900000
P	3.2965550000	0.4703330000	1.2538290000
P	2.0409220000	3.1141430000	-0.5095740000
P	3.8001000000	2.5831320000	0.7457600000
P	2.9231450000	-0.3287760000	-0.8039280000
P	1.6142180000	1.2037840000	-1.7599850000
P	-2.4833580000	1.7952340000	1.4556710000
P	-1.7792070000	-0.3149300000	2.0647080000

P	-7.1354120000	0.2700900000	-1.0735540000
P	-7.5492640000	0.6787520000	1.0885130000
P	-8.0546690000	-1.3879510000	1.7618020000
P	-6.2748980000	-2.4934590000	1.0092500000
P	-5.8154460000	-1.5287010000	-1.0521880000
P	-3.8379790000	-0.4827820000	-0.7462140000
P	-4.8987170000	-1.4247110000	2.3621530000
P	-3.1569230000	-1.6910890000	1.0021900000
P	-4.3384570000	1.4325800000	0.3007480000
P	-5.5250260000	0.7942930000	2.0790980000
P	-9.5057900000	-2.0627970000	0.2298410000
P	-8.9464970000	-0.8633510000	-1.6594670000
P	-10.5068820000	0.7123770000	-1.7934050000
P	-12.0673850000	-0.7406300000	-2.5218580000
P	-11.0923120000	1.0123330000	0.3260970000
P	-12.6281230000	-1.9361700000	-0.7227390000
P	-13.8775870000	-0.1838380000	-1.3319710000
P	-11.3716340000	-1.0994370000	0.9491360000
P	-13.2143010000	1.4908220000	-0.0217950000

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P48

P	13.3524250000	-0.1106160000	-0.9146050000
P	14.4396570000	-1.8602360000	-0.0627980000
P	12.7687670000	-2.1844790000	-1.4978230000
P	12.5756990000	-2.8776770000	0.6148620000
P	11.5187420000	-1.3306330000	1.8154710000
P	12.0563920000	0.5889780000	0.7535950000
P	8.8700590000	1.7702200000	1.1852300000
P	10.2531300000	1.1022380000	-0.4204190000
P	8.3171440000	-0.2117960000	2.2872250000
P	6.5628280000	-0.9686850000	1.1507940000
P	9.4479100000	-1.7635260000	1.1697590000
P	9.3442670000	-0.9004020000	-0.9065040000
P	7.3758650000	1.8940470000	-0.4571270000
P	7.1313250000	-0.2972690000	-0.9249580000
P	5.0457890000	0.4897850000	1.8257530000
P	5.5638590000	2.4188750000	0.6892710000
P	0.4021720000	-0.7054610000	-0.8811640000
P	-0.0791300000	0.5210730000	0.9301250000
P	-0.7923770000	2.3856670000	-0.0668320000
P	0.9236750000	2.7817200000	-1.4281040000
P	1.5537230000	0.6812710000	-2.1962930000
P	3.5955190000	0.3550450000	-1.2910220000
P	2.3232790000	3.1318360000	0.2408990000
P	4.0880850000	2.5055850000	-0.9615790000
P	3.2207000000	-0.2698430000	0.8258340000
P	1.9026600000	1.3317920000	1.6469460000
P	-2.1900950000	1.6302120000	-1.6151640000
P	-1.4743370000	-0.5200450000	-2.0431130000
P	-6.8397200000	0.2998550000	1.0247310000
P	-7.2513120000	0.5226140000	-1.1648170000

P	-7.7449920000	-1.5950360000	-1.6656510000
P	-5.9620200000	-2.6238040000	-0.8191210000
P	-5.5123780000	-1.4882050000	1.1556710000
P	-3.5385910000	-0.4619430000	0.7678090000
P	-4.5875240000	-1.6658110000	-2.2536480000
P	-2.8483970000	-1.8091070000	-0.8718270000
P	-4.0456750000	1.3567400000	-0.4368940000
P	-5.2250950000	0.5665120000	-2.1582450000
P	-9.1927550000	-2.1537510000	-0.0843560000
P	-8.6438900000	-0.7903930000	1.7036040000
P	-13.4796780000	0.9710130000	1.8754640000
P	-10.1982260000	0.7995960000	1.6827310000
P	-11.8408510000	-0.4499890000	2.4762850000
P	-10.7684540000	0.9225170000	-0.4725350000
P	-12.9210260000	1.5004760000	-0.2356860000
P	-12.4028860000	-1.8298190000	0.7527050000
P	-14.0430590000	-0.4086300000	0.1539110000
P	-11.0512030000	-1.2505130000	-0.8983890000

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P49

P	-13.7120350000	-0.9062980000	-0.6199580000
P	-14.6973840000	0.4217450000	0.8760710000
P	-13.4520910000	1.3076370000	-0.7436870000
P	-12.8098870000	1.4957750000	1.3815970000
P	-11.3983490000	-0.1450440000	1.9032770000
P	-11.9883440000	-1.7972300000	0.4686240000
P	-6.6491500000	1.2641910000	-0.5287800000
P	-6.2441060000	-0.2723780000	1.0494770000
P	-5.6073150000	-1.9724850000	-0.2473820000
P	-7.3273800000	-2.0515040000	-1.6575790000
P	-7.8520340000	0.1755100000	-2.0609340000
P	-9.8837090000	0.4437350000	-1.1208640000
P	-8.7600370000	-2.6111650000	-0.0744110000
P	-10.4794040000	-1.7047850000	-1.1564860000
P	-9.5072410000	0.6759730000	1.0739090000
P	-8.2693530000	-1.0961180000	1.6158570000
P	-4.1604810000	-1.0348200000	-1.6428370000
P	-4.7724740000	1.1879680000	-1.7029450000
P	0.5138730000	-0.3912970000	1.1907390000
P	0.9434810000	-0.2548920000	-1.0032200000
P	1.5419640000	1.8913510000	-1.1282360000
P	-0.2060460000	2.8429230000	-0.1313050000
P	-0.7265580000	1.4124180000	1.6226860000
P	-2.7404380000	0.5595750000	1.0611330000
P	-1.6069220000	2.2053290000	-1.7109810000
P	-3.3517750000	2.1951030000	-0.3289790000
P	-2.3051300000	-1.0513160000	-0.4329580000
P	-1.0739290000	-0.0375720000	-1.9934750000
P	2.9650980000	2.1202370000	0.5580180000
P	2.3664260000	0.4665110000	2.0500620000
P	7.7077630000	-0.1343280000	-1.1104650000

P	8.0845410000	1.2098450000	0.6399660000
P	8.6914390000	-0.3169350000	2.1502680000
P	6.9765900000	-1.7280050000	1.9946180000
P	6.4827610000	-1.8005740000	-0.2729570000
P	4.4514970000	-0.8272410000	-0.4291120000
P	5.5372980000	-0.2400700000	2.7568560000
P	3.8214330000	-1.1677140000	1.6845970000
P	4.8446630000	1.3758720000	-0.3472890000
P	6.0498290000	1.6517100000	1.5100260000
P	10.1861450000	-1.5280660000	1.0515850000
P	9.5792420000	-1.3186690000	-1.1639660000
P	11.0570420000	0.1099580000	-2.0071000000
P	12.6956060000	-1.4363010000	-2.0431520000
P	11.6112800000	1.3458390000	-0.2491310000
P	13.3044480000	-1.6825000000	0.0897440000
P	14.4662070000	-0.3216620000	-1.2524110000
P	11.9947960000	-0.2552010000	1.2393200000
P	13.7081520000	1.7249630000	-0.8078310000

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P50

P	14.0096660000	0.3224920000	1.0378720000
P	14.9950100000	0.1028530000	-0.9504750000
P	13.7379820000	-1.5503280000	-0.1466560000
P	13.1044090000	-0.4655640000	-1.9869260000
P	11.7034120000	1.1827110000	-1.4602350000
P	12.2952880000	1.6913250000	0.6674760000
P	6.9374870000	-1.3464470000	-0.3011430000
P	6.5462040000	0.8233800000	-0.6946080000
P	5.9118620000	1.4589120000	1.3478160000
P	7.6264390000	0.6940680000	2.5431550000
P	8.1388660000	-1.3568370000	1.5793190000
P	10.1731080000	-1.0424220000	0.6594260000
P	9.0684710000	2.0596130000	1.5798720000
P	10.7788680000	0.6825080000	1.9360620000
P	9.8048130000	0.0449480000	-1.2628040000
P	8.5776650000	1.8102150000	-0.6761700000
P	4.4550840000	-0.1057600000	1.9389470000
P	5.0563050000	-1.9543010000	0.6978780000
P	-0.2099800000	1.0446150000	-0.7448570000
P	-0.6497870000	-0.3371550000	0.9621300000
P	-1.2593440000	-2.1534160000	-0.1822910000
P	0.4883990000	-2.3609750000	-1.5451850000
P	1.0232640000	-0.1813920000	-2.1428700000
P	3.0386800000	0.1745040000	-1.1891380000
P	1.8858070000	-2.7675790000	0.1120310000
P	3.6364620000	-1.9679230000	-1.0063510000
P	2.6048350000	0.6215870000	0.9623500000
P	1.3622720000	-1.1019470000	1.6437060000
P	-2.6760550000	-1.3515270000	-1.6893740000
P	-2.0627300000	0.8570460000	-1.9440710000
P	-7.4146940000	-0.4523200000	0.9730310000

P	-7.7902850000	-0.5269960000	-1.2329410000
P	-8.3821500000	1.5962890000	-1.5794520000
P	-6.6617450000	2.6424890000	-0.6309140000
P	-6.1788420000	1.3827200000	1.2588690000
P	-4.1525870000	0.4855520000	0.8239890000
P	-5.2257250000	1.8641280000	-2.1131500000
P	-3.5112620000	1.9854590000	-0.6989250000
P	-4.5560650000	-1.2584580000	-0.5219000000
P	-5.7533530000	-0.3972230000	-2.1961910000
P	-9.8735080000	1.9618800000	0.0178150000
P	-9.2784540000	0.4936980000	1.7051650000
P	-14.0223950000	-1.5091590000	1.6681950000
P	-10.7515500000	-1.1637380000	1.5394450000
P	-12.4633000000	-0.0604580000	2.4007740000
P	-11.2901540000	-1.1481750000	-0.6274120000
P	-13.4139540000	-1.8466210000	-0.4684230000
P	-13.0732290000	1.4189720000	0.7790650000
P	-14.6338770000	-0.0299960000	0.0486450000
P	-11.6756340000	1.0347520000	-0.8905700000