

Electronic Supplementary Information

Vibrational Synchronization and its Reaction Pathway Influence from an Entropic Intermediate in a Dirhodium Catalyzed Allylic C-H Activation/Cope Rearrangement Reaction

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Molecular structures and energies

Free energies reported are G_{RRHO} . Example route in Gaussian input:

```
#n M06/def2SVP freq=HPModes Integral=(grid=SuperFineGrid)
```

Relative energies in kcal/mol for stationary points at the M06/def2-TZVP//M06/def2-SVP and M06/def2-SVP level. Relative $G_{quasi-RRHO}$ is in parentheses.

structure	M06/def2-TZVP//def2-SVP	M06/def2-SVP
Reactants ($Rh_2(OAc)_4$ carbenoid 1 + 1,4-cyclohexadiene 2)	0 (0)	0 (0)
s-cis TS1	-0.2 (13.3)	-5.0 (8.6)
s-trans TS1	1.3 (13.8)	-3.5 (9.1)
TS2	-15.3 (3.4)	-22.4 (-3.8)
Product 3 + Rh_2Ac_4	-26.3 (-23.8)	-27.6 (-26.0)
Product 4 + Rh_2Ac_4	-26.5 (-24.9)	-28.1 (-26.6)
Product 5 + Rh_2Ac_4	-24.7 (-21.8)	-26.9 (-24.0)

s-cis TS1

electronic energy = -1941.86774729 E_h

free energy at 298.15 K = -1941.434531 E_h

imaginary frequency = 719.4275i cm^{-1}

structure:

```
Rh  -0.81972  0.04218  -0.13133
C   0.85561  1.19975  -0.68345
C   0.43678  2.40132  -1.45247
O  -0.09190  3.36722  -0.68883
C  -0.72869  4.41550  -1.39187
H  -0.03302  4.91722  -2.08270
H  -1.09268  5.12714  -0.64051
H  -1.57365  4.01889  -1.97680
O   0.52853  2.47101  -2.65269
C   2.11866  0.65921  -1.07986
C   2.66684  -0.44037  -0.48759
H   2.03694  -1.00814  0.20672
H   2.68245  1.20615  -1.85055
O  -1.28584  1.19452  1.51653
C  -2.37278  0.97706  2.13719
O  -3.20405  0.07426  1.88091
Rh  -2.83946  -1.27137  0.35270
O  -1.68724  -2.40130  1.64431
C  -0.45972  -2.17406  1.73747
O   0.18267  -1.26175  1.12987
O  -3.82950  -0.04498  -0.97256
C  -3.22595  0.92297  -1.49516
O  -2.00874  1.23160  -1.31504
O  -2.29244  -2.49080  -1.21533
C  -1.28158  -2.20262  -1.90418
O  -0.49067  -1.23099  -1.70714
C   1.64042  2.22215  1.57935
C   2.70963  3.07191  1.05753
C   3.34226  0.64536  2.35409
C   2.05322  1.03966  2.31924
H   1.26733  0.42262  2.76593
H   2.42593  4.01562  0.58080
H   1.04169  1.66769  0.58434
H   0.72277  2.72088  1.92189
C   4.00050  2.70003  1.11328
```

H	4.77128	3.35679	0.69475
C	4.45342	1.44336	1.77085
H	5.20298	1.67495	2.55628
H	5.03197	0.81741	1.05442
C	4.01417	-0.94158	-0.69534
C	4.40013	-2.12641	-0.04387
C	4.97062	-0.27450	-1.48288
C	5.68558	-2.63579	-0.18217
H	3.66395	-2.64514	0.58040
C	6.25436	-0.78635	-1.62488
H	4.70379	0.66162	-1.98292
C	6.61711	-1.96752	-0.97599
H	5.96537	-3.55997	0.33133
H	6.98405	-0.25696	-2.24419
H	7.63030	-2.36439	-1.08592
C	-2.68701	1.91877	3.26357
H	-3.43519	1.48270	3.93745
H	-1.77187	2.17827	3.81439
H	-3.09434	2.85117	2.84212
C	0.35234	-3.07419	2.62428
H	-0.26199	-3.45698	3.44983
H	0.69488	-3.93755	2.03173
H	1.23919	-2.54948	3.00802
C	-0.97921	-3.06514	-3.09401
H	-1.49184	-4.03195	-3.01267
H	-1.33642	-2.55103	-3.99993
H	0.10534	-3.20229	-3.20164
C	-4.00469	1.83035	-2.40199
H	-4.25537	2.75255	-1.85403
H	-3.39156	2.11414	-3.26912
H	-4.93679	1.34955	-2.72448
H	3.60880	-0.28139	2.87661

s-trans TS1

electronic energy = -1941.86533530 E_h

free energy at 298.15 K = -1941.434986 E_h

imaginary frequency = 816.4095i cm⁻¹

structure:

Rh	-0.90223	0.02912	-0.12105
C	0.97054	0.86654	-0.42985
C	0.90449	2.03555	-1.33780
O	0.48534	3.15017	-0.71572
C	0.10199	4.21258	-1.56685
H	0.93109	4.52307	-2.22178
H	-0.19868	5.04528	-0.91900
H	-0.74452	3.90145	-2.19910
O	1.11776	1.97700	-2.52380
C	2.09651	-0.02000	-0.45905
C	3.28823	0.26566	-1.04689
H	3.36959	1.19142	-1.63073
H	1.97261	-0.94638	0.11698
O	-1.31905	1.17047	1.54432
C	-2.44075	1.03523	2.12672
O	-3.35329	0.24250	1.79800
Rh	-3.09825	-1.02607	0.18119
O	-2.14003	-2.37832	1.42186
C	-0.90293	-2.30153	1.60459
O	-0.12075	-1.43269	1.10614
O	-3.84437	0.42495	-1.08243
C	-3.08158	1.30817	-1.54273
O	-1.83753	1.41965	-1.31702
O	-2.64279	-2.19229	-1.45566
C	-1.55119	-2.02610	-2.05470
O	-0.63818	-1.20396	-1.73826
C	1.62171	1.94239	1.83379
C	1.76707	0.78358	2.71238
C	2.96618	0.21598	2.93073
C	4.23181	0.75004	2.35755

C	4.05092	1.99308	1.56166
C	2.84816	2.56984	1.36808
H	2.76482	3.50179	0.80031
H	4.95294	2.47184	1.16293
H	4.72684	-0.02740	1.73153
H	4.97413	0.92400	3.16383
H	3.03716	-0.66829	3.57392
H	0.85357	0.35298	3.13398
H	1.03561	1.40591	0.79905
H	0.76121	2.59894	2.02368
C	4.49172	-0.54709	-0.98643
C	5.66911	-0.06134	-1.58082
C	4.54715	-1.78129	-0.31170
C	6.89597	-1.99707	-0.83395
C	5.73581	-2.49647	-0.23988
C	6.85899	-0.77586	-1.50484
H	5.63594	0.89692	-2.11016
H	7.76384	-0.38015	-1.97458
H	7.82966	-2.56345	-0.77479
H	5.75987	-3.45687	0.28290
H	3.64380	-2.18617	0.15468
C	-0.26017	-3.34752	2.46975
C	-3.67608	2.35534	-2.43942
C	-1.29117	-2.85281	-3.27940
C	-2.68691	1.94019	3.29937
H	0.60981	-2.93355	2.99842
H	0.09499	-4.16832	1.82675
H	-0.98854	-3.76103	3.17920
H	-3.08373	2.43084	-3.36325
H	-3.62350	3.33375	-1.93698
H	-4.72186	2.12190	-2.67429
H	-1.44314	-2.22199	-4.16894
H	-1.97899	-3.70640	-3.32575
H	-0.24562	-3.18996	-3.29536
H	-3.05948	2.90764	2.92745
H	-1.75201	2.13086	3.84553
H	-3.44652	1.51154	3.96554

s-trans TS1 (def2-TZVP)

electronic energy = -1943.83178867 E_h

free energy at 298.15 K = -1943.400320 E_h

imaginary frequency = 822.6666i cm⁻¹

RMSD to s-trans TS1 optimized with M06/def2-SVP = 0.079

RMSD to s-trans TS1 excluding H atoms = 0.047

MAD of normal mode frequencies = 9.4 cm⁻¹

average % difference in normal mode frequencies = 1.2%

RMSD of normal mode frequencies = 14.5 cm⁻¹

structure:

Rh	-0.89821	0.02941	-0.11963
C	0.98430	0.86890	-0.43943
C	0.92397	1.99984	-1.38998
O	0.49021	3.13284	-0.81573
C	0.12741	4.16141	-1.72176
H	0.97311	4.45777	-2.34485
H	-0.20420	5.00142	-1.11529
H	-0.68347	3.82034	-2.36836
O	1.14705	1.89388	-2.56668
C	2.10647	-0.01382	-0.43439
C	3.28987	0.23713	-1.03218
H	3.37749	1.13268	-1.64287
H	1.98057	-0.91186	0.16578
O	-1.35666	1.24381	1.47369
C	-2.48058	1.11210	2.04516
O	-3.37957	0.29733	1.74771
Rh	-3.08664	-1.02473	0.18936
O	-2.15034	-2.32311	1.49128

C	-0.92317	-2.21631	1.69909
O	-0.13592	-1.36306	1.19003
O	-3.82744	0.36290	-1.13536
C	-3.05746	1.22049	-1.62258
O	-1.81896	1.34704	-1.39557
O	-2.60941	-2.25026	-1.38679
C	-1.50412	-2.10819	-1.95948
O	-0.59689	-1.27708	-1.66588
C	1.61199	2.02239	1.79680
C	1.74025	0.90649	2.72249
C	2.92219	0.34119	2.97303
C	4.19357	0.83211	2.38555
C	4.03055	2.04677	1.55086
C	2.84339	2.61957	1.32513
H	2.77519	3.52313	0.72992
H	4.93227	2.49894	1.14941
H	4.66754	0.03286	1.78918
H	4.92810	1.02334	3.18121
H	2.98089	-0.50575	3.64933
H	0.82962	0.50923	3.15662
H	1.03989	1.43508	0.76800
H	0.76374	2.68833	1.95004
C	4.48068	-0.58310	-0.95736
C	5.63614	-0.15252	-1.61391
C	4.54518	-1.77016	-0.21907
C	6.85495	-2.05116	-0.81044
C	5.71800	-2.49426	-0.15042
C	6.81054	-0.87617	-1.54231
H	5.59636	0.76587	-2.19075
H	7.69433	-0.52512	-2.06178
H	7.77328	-2.62360	-0.75458
H	5.74823	-3.41492	0.42051
H	3.66340	-2.13072	0.29893
C	-0.28737	-3.20310	2.63372
C	-3.64260	2.22673	-2.56838
C	-1.20676	-3.00035	-3.12695
C	-2.74219	2.05652	3.18089
H	0.45850	-2.70723	3.25545
H	0.22678	-3.96535	2.04486
H	-1.03986	-3.68839	3.25138
H	-3.02412	2.29445	-3.46378
H	-3.63742	3.20881	-2.09145
H	-4.66378	1.96160	-2.83216
H	-1.17656	-2.39686	-4.03550
H	-1.96809	-3.77042	-3.22741
H	-0.22209	-3.45198	-3.00715
H	-3.04984	3.02110	2.77226
H	-1.83104	2.21785	3.75784
H	-3.53823	1.67953	3.81930

TS2

electronic energy = -1941.895563 E_h

free energy at 298.15 K = -1941.453655 E_h

imaginary frequency = 471.0491i cm⁻¹

structure:

Rh	0.56378	-0.04285	-0.09839
C	-1.61946	-1.86086	-0.72392
C	-1.14502	-3.08383	-0.01148
O	-1.24014	-2.96536	1.31649
C	-0.73049	-4.04412	2.06949
H	-1.21512	-4.99271	1.78914
H	-0.92533	-3.81644	3.12472
H	0.35404	-4.14482	1.90317
O	-0.79595	-4.09275	-0.57147
C	-1.77098	-0.61785	-0.05168
C	-2.37121	0.46820	-0.76601
H	-2.00885	0.57549	-1.80025
H	-1.92311	-0.67531	1.03346

O	0.46985	0.23642	1.93769
C	1.54813	0.41378	2.57832
O	2.69597	0.53554	2.07550
Rh	2.89191	0.59246	0.02884
O	2.28290	2.55219	0.04984
C	1.07746	2.80707	-0.21123
O	0.17172	1.94922	-0.42150
O	3.36544	-1.40846	-0.00685
C	2.43877	-2.25139	0.11605
O	1.20653	-1.97840	0.21164
O	2.89182	0.59344	-2.02966
C	1.90075	0.12876	-2.65149
O	0.81567	-0.26717	-2.12997
C	-3.47127	-2.45073	-1.15848
C	-4.13436	-2.61638	0.14984
C	-4.81417	-1.60959	0.71095
C	-4.95732	-0.27457	0.05722
C	-4.17066	-0.14818	-1.22914
C	-3.83430	-1.32672	-1.91620
H	-3.53420	-1.27108	-2.96926
H	-4.45710	0.71225	-1.84849
H	-4.67867	0.53455	0.75966
H	-6.02947	-0.08479	-0.15459
H	-5.31845	-1.75901	1.67176
H	-4.04772	-3.58357	0.65542
H	-1.24014	-1.83987	-1.75351
H	-3.19632	-3.36839	-1.69318
C	0.65695	4.24289	-0.29172
C	2.81262	-3.70130	0.18349
C	2.02406	-0.00069	-4.14001
C	1.42776	0.48132	4.07169
H	3.73014	-3.88636	-0.39066
H	1.98357	-4.32471	-0.18075
H	3.01755	-3.96663	1.23336
H	2.40698	0.64167	4.53892
H	0.97907	-0.45139	4.44471
H	0.74403	1.29901	4.34438
H	2.71317	0.75755	-4.53410
H	1.04067	0.07376	-4.62216
H	2.44355	-0.99245	-4.37132
H	-0.23014	4.39824	0.34232
H	0.35329	4.47110	-1.32521
H	1.47331	4.91136	0.00836
C	-2.62030	1.78459	-0.13005
C	-2.56115	1.97546	1.25568
C	-2.93146	2.88422	-0.93998
C	-3.12106	4.31382	0.99251
C	-3.18316	4.13579	-0.38938
C	-2.80451	3.22995	1.80963
H	-2.28261	1.14425	1.91019
H	-2.74254	3.36215	2.89390
H	-3.31668	5.29656	1.43134
H	-3.42272	4.98064	-1.04191
H	-2.96078	2.75158	-2.02800

Rh₂(OAc)₄ carbenoid

electronic energy = -1708.80474982 E_h

free energy at 298.15 K = -1708.486528 E_h

All vibrational modes have real frequencies.

structure:

Rh	0.49419	0.09785	-0.01489
C	-1.28313	0.93040	-0.03919
C	-1.30646	2.38780	0.20633
O	-0.91944	3.08349	-0.85920
C	-0.68819	4.46353	-0.64126
H	-1.59563	4.97031	-0.27771
H	-0.38001	4.88715	-1.60443
H	0.10989	4.59857	0.10583

O	-1.59992	2.86624	1.27451
C	-2.47189	0.18211	-0.14332
C	-3.71376	0.73038	0.04260
H	-3.76993	1.80011	0.28576
H	-2.35415	-0.88884	-0.34778
O	0.91439	0.55963	-1.97253
C	2.03175	0.24014	-2.48423
O	2.96440	-0.36694	-1.90611
Rh	2.72404	-0.94259	0.05519
O	1.79577	-2.68051	-0.57368
C	0.55787	-2.70600	-0.75784
O	-0.24616	-1.73044	-0.60822
O	3.41907	0.90277	0.67902
C	2.63244	1.87057	0.79858
O	1.37951	1.85258	0.58196
O	2.33036	-1.44276	2.01338
C	1.23487	-1.11196	2.52556
O	0.29514	-0.48579	1.94305
C	-4.98137	0.04056	-0.00627
C	-6.15889	0.77077	0.24138
C	-5.08973	-1.33372	-0.29811
C	-7.40239	0.15436	0.19769
H	-6.08073	1.83822	0.47165
C	-6.33220	-1.94660	-0.34195
H	-4.18781	-1.92067	-0.49104
C	-7.49086	-1.20576	-0.09450
H	-8.30812	0.73458	0.39279
H	-6.40468	-3.01342	-0.56990
H	-8.46842	-1.69487	-0.12935
C	2.22278	0.63543	-3.91846
H	3.22506	0.36001	-4.26861
H	1.46001	0.13901	-4.53672
H	2.06604	1.71879	-4.02483
C	-0.06826	-3.99899	-1.19220
H	-0.64078	-3.83945	-2.11777
H	0.69687	-4.76895	-1.34894
H	-0.78059	-4.33468	-0.42342
C	0.98235	-1.46832	3.95988
H	0.03839	-2.02655	4.04137
H	1.81177	-2.05994	4.36613
H	0.85974	-0.54440	4.54468
C	3.19762	3.19622	1.21611
H	3.20037	3.87273	0.34714
H	2.55752	3.65165	1.98512
H	4.22461	3.08214	1.58443

Rh₂(OAc)₄

electronic energy = -1134.023664 E_h

free energy at 298.15 K = -1133.861584 E_h

All vibrational modes have real frequencies.

structure:

Rh	0.00007	-0.00757	1.18992
O	-1.44659	1.43946	1.12281
C	-1.85307	1.85251	-0.00000
O	-1.44695	1.43910	-1.12282
Rh	-0.00010	-0.00773	-1.18999
O	-1.44616	-1.45369	-1.12261
C	-1.85949	-1.85978	0.00030
O	-1.44617	-1.45336	1.12308
O	1.44841	1.43745	-1.12321
C	1.85545	1.85011	-0.00049
O	1.44877	1.43742	1.12242
O	1.44431	-1.45535	-1.12289
C	1.85710	-1.86216	-0.00006
O	1.44429	-1.45539	1.12279
C	-2.87707	2.94407	-0.00006
H	-3.49511	2.89204	0.90557
H	-2.35567	3.91415	-0.00135

H	-3.49651	2.89054	-0.90465
C	-2.95120	-2.88337	0.00036
H	-2.89726	-3.50333	-0.90382
H	-2.89950	-3.50101	0.90625
H	-3.92098	-2.36144	-0.00163
C	2.94747	-2.88717	-0.00005
H	2.89423	-3.50553	-0.90536
H	3.91795	-2.36652	0.00064
H	2.89344	-3.50629	0.90470
C	2.88098	2.94025	0.00019
H	3.48777	2.89928	-0.91348
H	2.36111	3.91090	0.02215
H	3.51141	2.87399	0.89638

1,4-cyclohexadiene

electronic energy = -233.05508603 E_h

free energy at 298.15 K = -232.962453 E_h

All vibrational modes have real frequencies.

structure:

C	1.49394	-0.00007	0.00003
C	0.66769	1.24649	0.00001
C	-0.66768	-1.24650	-0.00002
C	0.66753	-1.24656	-0.00001
H	1.20421	-2.20258	0.00000
H	1.20438	2.20250	-0.00005
H	2.18037	-0.00019	0.87133
H	2.18032	-0.00011	-0.87136
C	-0.66753	1.24656	0.00000
H	-1.20419	2.20259	-0.00007
C	-1.49394	0.00009	0.00003
H	-2.18033	0.00017	-0.87134
H	-2.18039	0.00010	0.87134
H	-1.20446	-2.20247	-0.00003

Product 3

electronic energy = -807.880212 E_h

free energy at 298.15 K = -807.620980 E_h

All vibrational modes have real frequencies.

structure:

C	1.57018	-0.78893	-0.72075
C	2.74808	-1.25381	0.03298
O	3.74837	-1.59586	-0.79761
C	4.93331	-2.05167	-0.17852
H	4.74385	-2.95067	0.42927
H	5.35744	-1.28081	0.48448
H	5.64264	-2.28574	-0.98197
O	2.83739	-1.32268	1.23411
C	0.46057	-0.42012	-0.07214
C	-0.74322	0.16537	-0.72550
H	-0.63043	0.03157	-1.81959
H	0.48221	-0.50555	1.02299
C	1.42882	2.78981	-0.60771
C	1.57852	2.60048	0.83126
C	-0.80879	1.71932	-0.50589
C	0.31056	2.39851	-1.24178
H	0.22112	2.50465	-2.32937
H	2.56337	2.74057	1.28713
H	1.65416	-0.73367	-1.81198
H	2.25293	3.23909	-1.17119
C	0.51844	2.26081	1.58216
H	0.62348	2.13063	2.66446
C	-0.84166	2.13350	0.96631
H	-1.34410	3.11967	1.04542
H	-1.48230	1.44257	1.54271

C	-2.05251	-0.48219	-0.32506
C	-3.13699	-0.39870	-1.20768
C	-2.24697	-1.13406	0.89678
C	-4.37653	-0.93847	-0.88174
H	-2.99894	0.09792	-2.17576
C	-3.48892	-1.67579	1.22794
H	-1.42033	-1.23343	1.60644
C	-4.55801	-1.57979	0.34274
H	-5.20603	-0.86363	-1.59109
H	-3.61659	-2.18271	2.18894
H	-5.53005	-2.00853	0.60254
H	-1.76780	2.02084	-0.96574

Product 4

electronic energy = -807.880977 E_h

free energy at 298.15 K = -807.623211 E_h

All vibrational modes have real frequencies.

structure:

C	-1.56399	0.56802	-0.65775
C	-1.73915	1.87250	0.08133
O	-1.33564	2.90580	-0.67040
C	-1.38373	4.17842	-0.05174
H	-2.40871	4.42795	0.26321
H	-1.02927	4.90460	-0.79302
H	-0.73802	4.20511	0.84100
O	-2.17076	2.00188	1.19692
C	-0.13755	0.10182	-0.65445
C	0.91610	0.72603	-0.11436
H	0.78426	1.72397	0.32772
H	0.00161	-0.88109	-1.12627
C	-2.50213	-0.54219	-0.11172
C	-2.66300	-1.62647	-1.13564
C	-2.34971	-2.90738	-0.92593
C	-1.81518	-3.41978	0.37149
C	-1.71659	-2.35834	1.41904
C	-2.02989	-1.07762	1.20957
H	-1.93566	-0.34566	2.01834
H	-1.36990	-2.66755	2.41197
H	-0.82414	-3.89339	0.21186
H	-2.44570	-4.25664	0.73412
H	-2.49599	-3.63470	-1.73318
H	-3.05648	-1.32040	-2.11386
H	-1.85458	0.76695	-1.70965
H	-3.48677	-0.05240	0.04000
C	2.28619	0.20664	-0.06246
C	3.34581	1.08673	0.19960
C	2.58698	-1.15134	-0.25339
C	4.94522	-0.71129	0.03580
C	3.90033	-1.60287	-0.20940
C	4.66173	0.63624	0.24419
H	3.12538	2.14714	0.36426
H	5.47219	1.34293	0.44551
H	5.97770	-1.07022	0.07397
H	4.11254	-2.66597	-0.35707
H	1.77403	-1.86655	-0.41616

Product 5

electronic energy = -807.879023 E_h

free energy at 298.15 K = -807.619189 E_h

All vibrational modes have real frequencies.

structure:

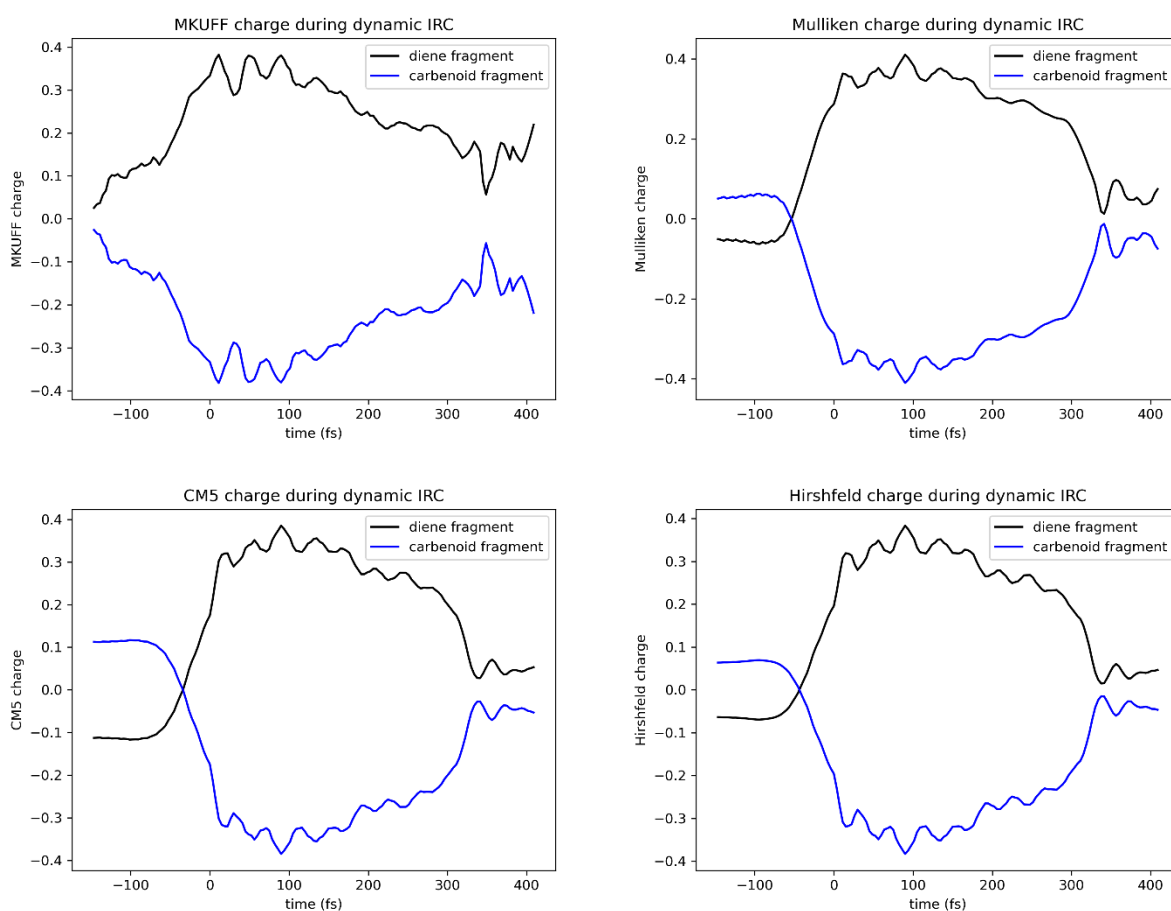
C	-1.62650	-0.56792	1.23613
C	-2.45839	-1.25916	0.23389
O	-3.63017	-1.62466	0.78426

C	-4.52849	-2.30440	-0.06773
H	-5.42401	-2.52471	0.52622
H	-4.08774	-3.24084	-0.44484
H	-4.79731	-1.68451	-0.93780
O	-2.18636	-1.49790	-0.91975
C	-0.38660	-0.09349	1.03741
C	0.40416	-0.12197	-0.22835
H	-0.08552	-0.83127	-0.91501
H	0.08142	0.39709	1.90110
C	-1.81081	2.43664	-0.74672
C	-1.29954	3.13680	0.42742
C	0.01217	3.11201	0.71427
C	0.97427	2.42924	-0.20874
C	0.36092	1.25874	-0.97966
C	-1.04029	1.56647	-1.42124
H	-1.44993	0.99258	-2.25950
H	0.98254	1.08516	-1.87746
H	1.88633	2.10451	0.32204
H	1.32808	3.18292	-0.94279
H	0.40292	3.65050	1.58464
H	-2.00070	3.68331	1.06610
H	-2.09280	-0.45916	2.21997
H	-2.84668	2.60960	-1.05606
C	1.83648	-0.57813	-0.04420
C	2.46214	-1.23578	-1.11123
C	2.58683	-0.34879	1.11416
C	4.52524	-1.40457	0.12804
C	3.91767	-0.75702	1.19940
C	3.78957	-1.64354	-1.03154
H	1.88527	-1.43456	-2.02211
H	4.25168	-2.15878	-1.87885
H	5.56801	-1.72722	0.19726
H	4.48236	-0.56781	2.11721
H	2.13528	0.15291	1.97576

Charge Analysis

Charges on molecular fragments during dynamic IRC of *s*-trans TS1

Partial atomic charges were calculated during the dynamic IRC to characterize the charge transfer over the reaction coordinate. Due to the significant degree of delocalization, we found it best to sum charges for the two key fragments: the 1,4-cyclohexadiene (minus the H that is transferred to the carbenoid), and the $\text{Rh}_2(\text{OAc})_4$ carbenoid, including the H that it receives from the diene.



Initial Conditions for Trajectories

Atom positions are from the structures provided above.

Masses used for each element for all trajectories:

H: 1.007830
C: 12.000000
O: 15.994910
Rh: 102.904800

velocities are given in m/s

s-trans TS1

random sampling

initial velocities for 50 trajectories starting from s-trans TS1 using completely random sampling

trajectory 1

atom	VX	VY	VZ
1	-2.884958e+02	3.245771e+02	-4.167691e+00
2	1.283321e+03	-3.215914e+02	6.353782e+02
3	8.226010e+01	-7.144761e+02	-1.288437e+03
4	-5.943569e+02	-4.058999e+02	5.228153e+02
5	1.552054e+03	-5.234549e+02	-1.085517e+03
6	1.247130e+03	2.669278e+03	-3.053281e+03
7	-3.596945e+03	-3.346698e+03	-5.116050e+03
8	-8.567845e+03	-9.845562e+01	-5.140810e+03
9	2.354049e+02	9.239879e+01	5.768239e+02
10	7.437556e+02	-1.710142e+02	1.001937e+03
11	-1.585236e+03	3.029524e+02	-2.788743e+02
12	1.372796e+03	5.680474e+03	2.246158e+03
13	-3.839499e+03	9.153965e+03	-2.844744e+03
14	5.257085e+02	-1.264452e+03	-1.241893e+02
15	6.868973e+02	5.585697e+02	7.606775e+02
16	-9.678715e+02	-1.107475e+03	3.004751e+02
17	1.462319e+01	6.877711e+01	-8.056051e+01
18	-8.580599e+02	-5.582669e+02	4.814559e+02
19	-1.589996e+02	-7.812033e+02	1.690488e+03
20	2.149948e+02	6.433881e+02	-6.332604e+02
21	-1.007068e+03	8.646015e+02	6.823936e+02
22	1.331186e+03	6.786779e+02	-4.460056e+02
23	-3.896030e+02	-1.114508e+03	5.783989e+01
24	-1.539153e+03	-6.964606e+02	-8.786428e+02
25	-1.705161e+02	3.993544e+02	7.752489e+02

26	8.566708e+02	1.376129e+03	-1.000559e+03
27	-1.759503e+03	3.196402e+01	-2.068313e+01
28	-1.101451e+03	4.921242e+02	1.279942e+03
29	8.259233e+02	-4.243709e+02	-1.791503e+02
30	5.322779e+02	-6.325283e+02	7.591410e+02
31	-1.726389e+02	1.545983e+03	-4.432389e+02
32	2.412832e+03	8.694342e+02	1.129635e+03
33	-2.911435e+03	-1.102036e+04	-1.038302e+02
34	7.006199e+03	-1.737252e+03	2.929499e+03
35	1.044019e+03	-2.899920e+03	-9.724720e+03
36	-8.624705e+01	4.133078e+03	-5.596131e+03
37	7.390732e+03	-3.279491e+03	3.977534e+03
38	6.384780e+03	8.823838e+02	-1.188039e+03
39	-1.559731e+03	5.810157e+02	-3.417736e+03
40	2.444068e+03	-5.246920e+03	-7.869282e+03
41	-1.110415e+03	-5.022750e+02	-3.180447e+02
42	1.625656e+02	5.073199e+02	-5.471685e+02
43	-1.643447e+02	-1.992223e+02	3.170180e+02
44	-6.673115e-01	-5.296522e+01	-6.071465e+02
45	4.468464e+02	1.197653e+03	-2.675470e+02
46	1.835601e+03	-8.674127e+02	7.871884e+02
47	7.381170e+03	-4.296822e+03	1.921552e+03
48	-1.522294e+03	6.596362e+03	1.829056e+03
49	3.240423e+03	-1.873734e+03	3.487169e+03
50	-4.290508e+03	-9.983096e+03	4.228296e+03
51	-5.424431e+02	5.272080e+03	-2.251759e+03
52	6.654711e+02	7.622130e+02	5.614258e+02
53	-1.273308e+03	-2.097980e+02	6.251880e+02
54	7.680460e+01	-1.881489e+03	-1.001187e+03
55	3.700993e+02	-1.706931e+03	2.627790e+02
56	-1.306916e+03	-5.747702e+02	-1.878084e+03
57	2.371257e+03	-3.620714e+03	5.956810e+03
58	4.292021e+03	6.387974e+03	-6.898823e+03
59	2.735197e+02	3.244459e+03	-2.374620e+03
60	3.678892e+03	-6.109007e+03	-3.672705e+03
61	7.880620e+03	7.320121e+02	-4.489693e+03
62	-3.410279e+03	3.958599e+03	2.057604e+03
63	1.576723e+03	7.989962e+03	-9.145363e+02
64	-2.240174e+03	5.378097e+03	1.273432e+03
65	-6.477464e+03	5.728895e+03	-3.180251e+03
66	1.862453e+03	-3.823823e+03	4.689408e+03
67	-8.057041e+02	3.320422e+03	-4.832686e+03

trajectory 2

atom	VX	VY	VZ
1	-1.967211e+00	-5.403307e+02	7.270870e+01
2	-3.417049e+02	-3.904246e+02	7.243152e+02
3	-1.057722e+03	-1.760926e+02	-1.583542e+03
4	2.749269e+02	-1.465321e+02	7.589383e+02
5	9.393602e+02	1.816139e+02	-1.155886e+03
6	3.115796e+03	-6.973000e+02	-8.263192e+03
7	3.815316e+01	1.579716e+03	1.122931e+04
8	1.492051e+03	-8.200517e+02	2.293732e+03
9	-2.810050e+01	1.557886e+03	-2.820472e+02
10	1.465045e+02	8.394471e+01	5.614497e+01
11	-1.815232e+03	-5.035084e+02	-4.165692e+02
12	-1.045381e+03	2.802837e+03	-1.440101e+03
13	-2.243815e+03	6.630744e+03	-4.193690e+03
14	7.752065e+02	2.627304e+02	-1.516499e+03
15	5.736975e+02	-1.620878e+01	1.026196e+03
16	-6.230897e+02	4.992623e+02	8.225832e+01
17	-3.699828e+02	-2.643615e+02	-1.338389e+01
18	3.660506e+02	2.850107e+02	8.582036e+02
19	1.512332e+03	1.411995e+02	6.303988e+01
20	-8.271788e+02	-7.582300e+02	-3.813002e+02
21	1.168530e+03	1.426457e+02	-4.822465e+01
22	-8.175534e+01	-4.717025e+01	4.551550e+02
23	-3.778051e+02	-5.430075e+02	4.063378e+02
24	-8.853976e+02	2.871587e+02	6.792665e+02
25	5.637671e+02	4.622507e+02	-2.218452e+03
26	-6.200354e+02	7.267502e+02	-2.612937e+02
27	1.601903e+02	-1.410577e+03	1.464034e+03
28	-9.503685e+02	9.238176e+02	-8.273972e+02
29	1.515819e+03	-3.534206e+02	-1.447680e+03
30	5.493489e+02	8.598080e+02	7.583003e+02
31	-2.233097e+02	1.109113e+02	7.836261e+02
32	1.241104e+03	8.894425e+02	6.637767e+02
33	5.875845e+03	8.622340e+03	-3.585720e+03
34	-2.822911e+03	-4.108295e+03	-2.054280e+02
35	-7.115626e+03	2.805718e+03	5.518981e+03
36	7.569129e+03	-2.516784e+03	1.059384e+03
37	-1.697151e+03	-6.540339e+03	1.515390e+03
38	-8.800563e+02	3.098355e+03	6.250763e+03
39	-6.106838e+01	-4.053606e+03	-1.434256e+03
40	-2.854438e+03	4.943756e+03	9.793458e+03
41	1.926055e+03	3.490798e+02	-1.380052e+02
42	2.485061e+03	-7.559693e+02	1.023604e+03
43	3.608567e+02	1.563617e+02	9.400122e+01
44	-6.115907e+02	8.783613e+02	-2.742375e+02
45	-4.595337e+02	3.444616e+02	-3.239447e+02

46	5.882320e+01	6.376931e+02	-4.349495e+02
47	-4.556286e+03	-1.818022e+02	6.583473e+02
48	-5.249947e+03	-5.386196e+03	-8.577210e+02
49	1.025504e+04	-3.618479e+03	-4.540886e+03
50	7.092748e+03	1.319327e+03	4.067776e+03
51	-3.445595e+03	-7.245076e+03	8.569732e+02
52	5.883067e+02	-9.583517e+02	-4.651080e+02
53	2.363083e+02	5.577212e+02	-1.359486e+02
54	-7.283492e+02	-2.298839e+02	7.474971e+02
55	-1.577298e+03	2.829529e+02	-1.399694e+03
56	-6.858602e+03	5.838943e+03	-1.359567e+03
57	-3.105967e+03	1.070573e+04	4.386130e+00
58	-1.789612e+03	5.644087e+02	5.321872e+03
59	2.937519e+03	4.844183e+03	-3.921357e+03
60	3.814605e+03	-2.055296e+03	-4.963456e+02
61	-6.925352e+03	-1.924816e+03	-8.243515e+03
62	-1.025342e+04	-4.087440e+03	9.256255e+03
63	1.394851e+03	7.882043e+03	2.813918e+02
64	4.181809e+03	-1.312673e+03	6.125880e+02
65	-1.092724e+02	4.314863e+02	-1.757816e+03
66	5.521840e+03	2.189610e+03	7.630339e+03
67	-1.645197e+03	1.681391e+03	-1.510389e+03

trajectory 3

atom	VX	VY	VZ
1	2.327109e+02	-1.656760e+02	3.231752e+02
2	1.063459e+03	4.680085e+02	3.732057e+02
3	-4.716969e+01	-2.280743e+02	-1.678678e+03
4	-2.673649e+02	-5.522051e+01	9.868123e+02
5	-4.505434e+02	-7.232055e+02	-4.570378e+02
6	-2.302360e+03	-3.876630e+03	-5.419855e+02
7	-7.020337e+03	3.814366e+03	-4.170564e+03
8	6.966566e+03	-1.858963e+02	6.611282e+03
9	2.455074e+02	-1.567363e+02	1.971493e+02
10	6.103792e+02	-1.701101e+03	-5.078936e+02
11	-4.978061e+02	6.785895e+01	6.930137e+00
12	2.281289e+03	-1.035602e+04	1.505247e+02
13	1.704648e+03	3.595891e+03	-3.547538e+02
14	-1.534496e+02	2.974643e+02	7.695287e+02
15	-1.089401e+03	-1.164919e+03	-4.378254e+02
16	-5.868305e+02	1.492043e+03	2.579133e+02
17	-1.912650e+02	4.382199e+01	-6.236258e+01
18	1.325662e+03	3.667405e+02	3.781328e+02
19	-1.498184e+03	1.282855e+03	7.366071e+01

20	3.150710e+01	-8.208045e+02	7.966593e+02
21	-1.725149e+02	6.805483e+02	-6.747277e+02
22	-1.372994e+03	1.217089e+03	-1.128856e+03
23	-7.284825e+02	-2.929177e+02	-2.486386e+01
24	6.084406e+02	-1.180927e+02	8.742111e+02
25	2.153219e+02	9.843227e+02	1.121195e+03
26	3.332656e+02	-1.233029e+02	-1.187567e+03
27	1.692800e+03	7.223434e+01	-7.457352e+02
28	-2.666252e+03	-1.050498e+02	5.580975e+02
29	1.733413e+03	-6.701065e+02	5.366062e+01
30	5.185179e+02	3.378479e+02	-1.514965e+03
31	1.911684e+01	5.389822e+02	1.145569e+03
32	6.105216e+02	-2.078264e+01	1.337435e+03
33	-2.383867e+03	-9.886173e+03	5.692173e+03
34	6.049617e+03	-2.754391e+03	2.077648e+03
35	4.039362e+03	-3.633384e+03	-1.057704e+03
36	2.705631e+03	5.328037e+03	6.078682e+03
37	-9.969951e+03	-5.313384e+03	7.458157e+02
38	3.592375e+03	8.308711e+03	1.076365e+01
39	3.235317e+03	1.801078e+03	-4.955905e+03
40	-5.876739e+03	-1.472223e+02	2.386526e+03
41	-4.986946e+02	-5.070033e+01	-2.701615e+02
42	1.385139e+02	4.148546e+02	-8.205081e+02
43	-8.251947e+02	-4.813732e+02	-6.578533e+02
44	-9.336207e+02	1.385199e+03	-8.108335e+02
45	1.461357e+03	1.041128e+03	1.056011e+02
46	4.175554e+01	-1.673182e+02	1.934995e+02
47	5.904615e+03	-1.369739e+03	6.596901e+02
48	6.117673e+03	-7.668888e+01	-4.291341e+03
49	-5.494474e+02	-6.396481e+03	5.098001e+03
50	-3.757697e+03	-1.846569e+03	4.450088e+03
51	8.901579e+03	4.975692e+03	4.875589e+02
52	1.727523e+02	5.292416e+02	-7.337525e+02
53	1.721727e+02	1.394890e+03	6.629425e+02
54	-1.375589e+03	-5.753787e+01	-1.958049e+03
55	8.226282e+02	-2.011001e+03	-1.086934e+03
56	1.005453e+04	-2.636969e+02	6.420510e+03
57	-1.394823e+03	-8.603777e+02	1.269416e+03
58	-1.067573e+03	4.161567e+02	-3.793018e+02
59	-1.447155e+03	-7.763883e+03	8.804762e+02
60	-4.627505e+03	-6.688159e+03	-5.641890e+03
61	-8.843820e+02	-3.751618e+03	-4.548441e+03
62	-5.974205e+02	-2.683585e+03	5.805853e+03
63	3.576716e+03	2.916571e+03	-5.607494e+03
64	5.317431e+02	-5.055429e+03	6.812850e+03
65	-2.664656e+03	5.863411e+03	9.187793e+02

66	-2.513816e+03	9.471287e+02	-2.840778e+03
67	-9.311998e+03	-7.992725e+02	-9.986001e+02

trajectory 4

atom	VX	VY	VZ
1	-9.807884e+01	7.960666e+01	-1.503840e+02
2	-5.101638e+02	-8.147986e+02	2.239925e+03
3	4.283079e+02	-4.271187e+02	-1.007660e+03
4	7.049404e+02	-4.090994e+02	7.219114e+02
5	5.068863e+02	5.283009e+02	6.950587e+02
6	3.946899e+03	-5.959369e+03	-1.206605e+03
7	1.553064e+03	-4.379683e+03	2.264275e+03
8	-4.890957e+03	-3.160202e+03	-7.410854e+03
9	-6.976870e+02	-2.196906e+02	8.405341e+00
10	4.202377e+01	4.192717e+02	7.657959e+02
11	5.100413e+02	2.432339e+03	-1.507866e+03
12	-5.241804e+03	-6.009400e+03	2.518302e+02
13	-4.317249e+03	2.037135e+03	-1.269520e+03
14	-5.362951e+02	-1.120741e+03	-1.277359e+02
15	-4.128392e+02	7.324684e+02	-2.389757e+03
16	3.713993e+02	-2.909646e+00	-3.640862e+02
17	-2.900580e+02	4.879504e+01	6.571952e+01
18	-1.237027e+03	3.735838e+02	-5.119288e+02
19	-2.310590e+02	-7.279541e+02	1.250112e+03
20	8.249121e+02	-8.658777e+02	-6.444707e+02
21	7.231530e+02	-1.183542e+02	9.315321e+02
22	-6.452546e+02	-4.003290e+02	9.645645e+02
23	1.967075e+03	-4.864303e+02	3.706652e+02
24	1.216925e+03	4.051994e+02	2.831843e+02
25	-1.058006e+03	-2.016420e+03	-1.735010e+03
26	-9.292243e+01	9.815928e+02	2.522344e+02
27	-8.229600e+02	-9.928235e+01	-6.365861e+01
28	1.541583e+03	-3.580597e+02	-8.295607e+02
29	-7.404902e+02	-6.707427e+02	1.277609e+02
30	-1.210288e+03	4.387791e+02	-1.552825e+03
31	2.186763e+03	-1.092654e+03	1.794307e+03
32	-1.113476e+02	1.986766e+03	-5.674150e+02
33	2.528125e+03	-3.519985e+03	1.312299e+03
34	-1.301054e+03	7.459976e+03	-7.641303e+03
35	2.499484e+03	-6.347670e+03	2.437741e+03
36	3.171419e+03	2.362360e+03	4.656696e+03
37	-3.982521e+03	4.201337e+03	1.015005e+03
38	-6.163314e+03	-7.105518e+03	2.983258e+03
39	-1.547700e+03	-5.180125e+02	2.630193e+03

40	2.128993e+02	-9.954267e+03	-2.216040e+03
41	-6.934337e+02	-1.357693e+02	-6.474957e+02
42	-6.573356e+02	-1.697472e+02	9.442145e+02
43	3.141067e+03	6.774273e+02	-1.259246e+02
44	-5.592697e+02	-2.974175e+02	1.245750e+03
45	-6.837625e+02	2.257688e+02	2.602039e+02
46	4.868657e+01	3.728993e+02	-1.009901e+03
47	-4.537560e+02	3.495124e+03	1.071679e+03
48	-5.014368e+03	-2.176691e+03	3.494125e+03
49	-5.160440e+03	1.307708e+03	2.103377e+03
50	4.459048e+03	4.549023e+03	-2.455658e+03
51	-6.018242e+03	-5.554333e+03	7.641332e+02
52	1.310867e+03	2.285353e+03	3.582573e+02
53	-2.156314e+02	1.067370e+03	-2.405164e+02
54	-4.141071e+02	4.695409e+02	-2.200808e+02
55	8.862070e+02	7.926122e+01	-5.603073e+02
56	-5.604653e+03	5.541030e+03	-1.633011e+03
57	6.606043e+02	-6.365212e+03	-3.455808e+03
58	-4.295807e+03	1.345996e+03	3.630153e+03
59	2.716814e+02	-2.069223e+03	2.387198e+03
60	-4.784326e+03	-1.137520e+04	1.590598e+03
61	-4.267583e+03	1.422098e+03	2.131889e+01
62	3.424530e+03	6.655864e+01	4.555806e+02
63	-5.928784e+03	-6.125964e+03	-9.724993e+01
64	5.346520e+03	4.295104e+03	1.049334e+03
65	2.674870e+02	1.797501e+02	-1.540513e+03
66	8.111994e+03	-3.809136e+03	9.221356e+03
67	1.199751e+03	2.640640e+03	1.230544e+03

trajectory 5

atom	VX	VY	VZ
1	-2.505206e+01	-1.545841e+02	-4.330031e+02
2	-3.432174e+02	2.375832e+03	1.070121e+03
3	4.568963e+02	-1.873223e+03	-1.663787e+03
4	5.739498e+02	2.851557e+02	-2.011549e+01
5	3.356001e+02	5.480468e+02	6.527663e+02
6	-3.349351e+03	5.116327e+01	-5.610938e+03
7	-3.102487e+03	-2.918400e+03	-1.918155e+03
8	-7.365184e+03	-5.292531e+03	-5.622254e+03
9	-3.866439e+02	7.318962e+01	4.854235e+01
10	6.304249e+02	-4.093372e+02	-1.154043e+02
11	-2.044831e+03	-3.942069e+02	-9.089711e+02
12	6.806863e+02	-1.912401e+03	2.736283e+03
13	-4.003013e+03	-7.902662e+03	5.301563e+03

14	1.072458e+03	-8.144527e+01	4.052847e+02
15	5.206094e+02	3.330663e+02	-8.689774e+01
16	-5.015699e+02	9.207737e+01	-1.071754e+01
17	-1.902481e+02	-1.615032e+02	-1.052085e+02
18	-4.492782e+02	7.227686e+02	1.511271e+02
19	3.519292e+02	-1.341775e+03	-5.604209e+02
20	-2.753994e+02	1.515081e+03	-3.120675e+02
21	1.230307e+03	-3.647666e+02	8.783834e+02
22	1.128710e+02	-1.586423e+03	1.324279e+03
23	9.853403e+02	7.072975e+02	-3.173954e+02
24	8.717746e+02	-7.492018e+01	2.352924e+01
25	-7.707605e+02	-1.178121e+03	-1.445137e+03
26	3.645378e+02	7.405060e+02	7.829016e+02
27	9.254520e+01	-4.801357e+02	1.859774e+03
28	1.092910e+03	-1.098212e+03	-3.518506e+02
29	-8.787288e+02	-3.270537e+02	1.579083e+03
30	1.206703e+02	-8.696367e+02	1.912913e+01
31	-1.054161e+03	1.146212e+03	-7.695585e+02
32	1.028209e+03	1.509901e+03	1.863091e+02
33	5.123827e+03	-5.561023e+03	5.023168e+03
34	1.441605e+03	5.141386e+03	-1.113040e+03
35	-2.558896e+03	-2.020709e+02	5.196592e+03
36	-8.059726e+03	5.460346e+03	-4.519889e+03
37	-2.854158e+03	5.233210e+03	-6.934624e+03
38	3.797942e+03	4.831333e+03	-2.189493e+03
39	1.157880e+02	1.030655e+03	5.647576e+03
40	-6.482476e+03	-5.513250e+02	-7.506844e+01
41	1.554007e+03	8.486708e+02	1.604420e+03
42	1.649011e+03	-5.337014e+02	-1.262244e+03
43	-2.447287e+02	-1.105986e+03	1.028774e+02
44	-3.821429e+01	1.073346e+01	8.241718e+01
45	1.604386e+03	-6.879999e+02	-1.051921e+02
46	-1.831745e+03	1.320561e+03	1.773720e+02
47	1.888766e+03	3.580061e+03	1.106021e+02
48	-5.922945e+03	-2.819132e+03	6.053905e+03
49	-2.981239e+03	4.328904e+03	-5.488100e+02
50	-5.829724e+03	1.532207e+03	-4.360904e+03
51	-6.597650e+03	-5.756244e+03	5.987996e+03
52	-2.294827e+02	2.178620e+02	-2.260690e+01
53	-1.013984e+03	1.227142e+03	-3.416003e+02
54	-5.866804e+02	-2.516740e+02	-8.627571e+02
55	5.370110e+02	7.027246e+02	-1.716582e+02
56	4.249694e+03	-8.199842e+02	7.181491e+02
57	-1.898169e+03	-1.141724e+03	2.080891e+03
58	-2.696715e+03	-5.496239e+03	8.519426e+03
59	-6.833148e+03	1.517227e+03	1.874716e+03

60	2.224593e+03	1.243125e+03	4.192866e+03
61	9.667077e+03	-5.659032e+03	3.692221e+03
62	-2.055402e+03	-7.663445e+02	-3.010058e+03
63	6.317120e+02	9.704627e+03	7.586077e+03
64	-4.896119e+03	2.044835e+03	1.556658e+03
65	2.907104e+03	1.220025e+03	-1.649320e+02
66	-8.017353e+03	4.150089e+02	-5.702486e+03
67	6.942002e+03	-3.027431e+03	4.685477e+03

trajectory 6

atom	VX	VY	VZ
1	-2.127671e+02	1.209478e+02	8.765728e+01
2	-3.193294e+02	8.090333e+02	2.858030e+02
3	-3.293415e+02	-8.977905e+02	-4.071713e+02
4	7.325679e+02	4.409427e+01	-1.069504e+03
5	3.096397e+02	-1.322892e+03	9.940329e+02
6	-1.071439e+02	7.652066e+03	-6.865888e+03
7	-1.708148e+03	8.256581e+03	2.060601e+03
8	6.207886e+03	-1.668687e+03	-8.982002e+02
9	7.341996e+02	3.287525e+02	1.857150e+03
10	-6.251818e+01	3.553611e+02	-2.788141e+02
11	-1.989705e+03	-1.100329e+03	1.608168e+03
12	-2.781529e+03	5.028814e+03	-3.155835e+03
13	-3.017060e+03	-2.805586e+03	8.299447e+01
14	1.342889e+03	-4.121229e+02	1.589201e+03
15	6.990186e+02	5.830127e+02	3.659462e+02
16	-4.625260e+02	1.268376e+02	9.178855e+01
17	-1.766859e+02	2.410776e+02	8.290037e+01
18	1.120776e+03	-1.054583e+03	-1.009438e+02
19	7.616493e+02	1.539935e+03	-1.711367e+03
20	5.281278e+01	-9.358480e+02	3.385418e+02
21	1.600766e+03	-1.494546e+02	-7.942564e+02
22	-1.155622e+03	-8.689027e+02	5.475882e+02
23	-1.946700e+03	-5.955240e+02	-1.254756e+03
24	-1.073670e+03	2.094751e+01	-4.658595e+02
25	1.290885e+03	8.236881e+02	-1.033153e+03
26	-9.535114e+02	-1.064361e+03	-8.987001e+02
27	3.835622e+02	-6.564325e+02	-1.171223e+02
28	-5.848584e+02	-1.119673e+03	2.389641e+02
29	7.988623e+02	9.002267e+02	9.573029e+02
30	-6.181899e+02	2.092081e+03	-1.286254e+03
31	8.812675e+02	-5.641796e+02	3.415952e+02
32	-1.261857e+03	2.137410e+03	-9.631950e+02
33	-1.845447e+03	-2.061205e+03	6.921450e+02

34	-4.419334e+03	-8.336708e+03	2.724678e+03
35	2.285241e+03	-2.177226e+03	-1.086473e+03
36	4.431922e+03	-7.390695e+03	6.331023e+03
37	1.885470e+03	6.368398e+03	-4.840960e+03
38	2.826049e+03	-1.868548e+03	3.873995e+03
39	-2.236798e+03	2.416305e+03	-6.523691e+02
40	6.469333e+03	-1.314495e+03	-1.784596e+03
41	3.616462e+02	-8.016517e+02	-4.879850e+02
42	1.950799e+03	-1.692598e+01	5.772201e+02
43	-1.024694e+03	-9.156537e+02	-1.753149e+02
44	2.256958e+02	1.632344e+03	3.313699e+02
45	1.108550e+02	-6.518345e+02	1.588448e+02
46	-1.495074e+03	-4.730168e+02	-3.999249e+02
47	-3.448581e+03	-8.296375e+03	1.763652e+03
48	1.748477e+03	5.878997e+03	-3.231289e+03
49	1.052311e+04	-3.813364e+02	-1.587904e+03
50	-3.918198e+03	3.557196e+03	1.271270e+03
51	1.500884e+03	3.500698e+03	8.238195e+02
52	-1.448449e+03	4.897327e+02	-3.350673e+02
53	1.090238e+03	9.215846e+01	-1.795687e+03
54	3.856653e+02	1.293503e+03	9.347867e+01
55	9.900787e+02	-4.143772e+02	1.084266e+03
56	1.031617e+04	-2.134595e+03	4.694441e+03
57	3.640060e+03	5.061444e+03	-4.242249e+03
58	3.745750e+03	-1.754324e+03	3.608031e+03
59	-2.361715e+03	3.656127e+02	9.112063e+03
60	3.608279e+03	-2.853167e+03	1.429212e+03
61	7.295774e+02	-4.638784e+03	-1.909623e+03
62	2.994924e+03	-3.584401e+03	8.889053e+03
63	-8.503642e+02	-4.032864e+03	-7.065317e+02
64	-4.985474e+03	-3.512046e+03	-2.883990e+03
65	-1.247878e+03	-1.724591e+03	-4.347254e+02
66	-7.671021e+03	-3.378549e+03	-5.075801e+03
67	-2.039277e+02	2.403877e+03	2.534751e+03

trajectory 7

atom	VX	VY	VZ
1	1.289549e+01	1.196993e+02	-2.346793e+02
2	-1.212413e+01	-1.972981e+03	3.556911e+02
3	9.102285e+02	5.494921e+02	1.500250e+03
4	-1.282752e+03	1.338040e+03	-1.999131e+03
5	-2.770457e+02	1.138429e+03	1.070340e+03
6	-8.510700e+03	3.983615e+03	2.952952e+03
7	1.234831e+03	-5.270636e+03	-4.447267e+03

8	6.898603e+02	-5.087385e+03	-3.086748e+03
9	-1.749669e+02	2.761974e+02	-3.700248e+02
10	-8.266707e+02	-5.098552e+02	-8.028422e+02
11	6.276569e+02	-1.888245e+02	1.855095e+02
12	1.350036e+03	-1.398696e+03	5.717690e+03
13	-3.192591e+03	-6.246821e+03	8.297473e+03
14	-6.340817e+02	-5.836611e+02	4.550392e+02
15	2.106327e+03	1.975231e+03	1.583602e+03
16	2.706696e+02	-1.836765e+02	2.375612e+02
17	1.427060e+02	-1.415768e+02	3.160880e+02
18	1.106972e+03	-5.006615e+02	-3.084811e+01
19	3.556962e+02	1.455295e+03	-7.663218e+02
20	-8.458380e+02	2.557937e+02	-3.556759e+02
21	-2.101516e+02	7.143300e+02	-6.235564e+02
22	7.167356e+02	-2.377343e+03	1.082367e+03
23	2.787662e+01	-6.538092e+02	5.037799e+02
24	-1.694415e+02	2.735562e+01	-1.141143e+03
25	2.034899e+02	1.332097e+03	-3.260260e+02
26	9.529844e+01	4.704724e+02	-4.611243e+02
27	4.159030e+02	4.728888e+02	-1.959661e+02
28	9.458188e+02	2.312310e+02	-2.385431e+02
29	-1.754230e+03	-6.609818e+01	-1.280645e+02
30	-2.032557e+01	7.161476e+01	-9.121763e+02
31	6.132363e+02	8.833582e+02	-7.305263e+02
32	-1.054284e+03	-2.910441e+03	9.221481e+02
33	8.385329e+03	6.344424e+03	-2.796590e+03
34	9.972619e+02	-6.053160e+03	7.225060e+02
35	-6.587059e+03	1.333442e+03	5.806676e+03
36	6.618943e+03	-1.994473e+03	-7.445966e+02
37	2.793089e+03	4.514734e+03	-2.479181e+03
38	-6.973410e+03	-4.032759e+03	-2.105186e+03
39	1.987700e+03	-3.360653e+03	-1.258485e+03
40	-5.932756e+03	2.792436e+03	-1.232248e+03
41	-2.410873e+02	-9.656039e+02	9.912842e+02
42	-9.483900e+02	6.110822e+02	-7.831063e+01
43	3.143148e+02	-2.271149e+02	5.040050e+02
44	-4.924018e+02	-5.163247e+02	-4.725725e+01
45	2.356804e+03	1.038370e+03	-1.082910e+02
46	2.039868e+02	-5.120358e+02	-2.506129e+02
47	3.788549e+03	-6.734227e+03	2.592922e+03
48	-2.090931e+03	1.820707e+03	1.668942e+03
49	-6.717982e+03	4.132071e+03	-1.591198e+02
50	3.079384e+03	5.219827e+03	2.901618e+03
51	-1.087562e+04	-2.296709e+03	-5.330934e+03
52	-1.158300e+03	1.663035e+02	-8.388645e+02
53	3.312215e+01	-5.407212e+02	4.417507e+02

54	9.257568e+02	1.648080e+03	1.084749e+03
55	-3.998624e+02	6.753741e+02	-8.255026e+02
56	-2.867821e+03	1.802366e+03	-6.847469e+03
57	-8.226727e+03	1.094989e+03	9.136552e+03
58	-1.773816e+03	-5.398390e+03	4.731487e+02
59	2.601637e+03	-5.658774e+01	-1.089973e+04
60	5.213917e+02	1.102501e+03	-5.028546e+02
61	8.227464e+02	4.510205e+03	-1.834317e+03
62	-1.427418e+03	-5.776777e+03	7.835892e+03
63	1.192410e+03	-1.920115e+03	3.073858e+03
64	-2.699262e+03	-1.816257e+03	-5.600518e+02
65	4.400212e+03	-6.069837e+03	6.962281e+03
66	-1.205575e+03	-3.057637e+03	-4.759466e+03
67	-6.267807e+02	-5.663083e+03	1.306022e+03

trajectory 8

atom	VX	VY	VZ
1	-4.751278e+02	-4.725065e+02	-1.597727e+02
2	-6.178166e+01	3.431458e+02	1.607767e+03
3	-4.600879e+02	1.627969e+03	-5.387888e+02
4	1.540012e+03	-2.688063e+02	-9.414591e+02
5	-5.790029e+02	-5.973473e+02	-5.706469e+02
6	7.032323e+01	-3.514042e+03	2.150972e+03
7	-3.396717e+03	2.068180e+03	2.164807e+01
8	7.584040e+03	3.645599e+03	3.526700e+03
9	-6.066144e+02	-4.946456e+02	1.654517e+03
10	1.365298e+03	-1.680538e+03	-8.479256e+01
11	-4.942517e+02	9.101565e+02	1.271849e+03
12	-6.294976e+02	-6.946084e+03	5.125742e+03
13	-5.155430e+03	5.147252e+03	2.572746e+03
14	2.583009e+02	6.473132e+02	1.280852e+02
15	-3.559409e+01	5.545672e+02	-1.218533e+03
16	-3.048818e+02	1.996227e+02	-7.346546e+02
17	3.484044e+01	4.225057e+01	2.726626e+02
18	1.653605e+03	1.112844e+03	2.724119e+02
19	-1.120439e+03	9.992890e+02	-4.030428e+02
20	9.930114e+02	-7.791481e+02	-9.255760e+01
21	-1.016257e+03	-3.136891e+02	-1.843285e+02
22	-6.799987e+02	1.257808e+03	4.853245e+02
23	7.496936e+02	2.723705e+02	-3.063853e+02
24	5.424206e+02	-8.156234e+02	-9.030811e+02
25	-1.289505e+03	7.327733e+02	1.575823e+03
26	-3.356942e+02	4.037462e+02	1.837835e+02
27	1.280660e+03	-7.546178e+02	3.254461e+02

28	1.050590e+03	-1.958281e+03	6.524735e+01
29	-3.956939e+02	1.603139e+02	6.381175e+02
30	2.775821e+02	2.899809e+02	-2.588692e+02
31	-1.740723e+03	3.133244e+02	4.094896e+02
32	9.729352e+02	-1.225470e+03	-6.046347e+02
33	-4.399927e+03	1.465472e+03	-1.470660e+03
34	4.053161e+03	9.698067e+03	2.239355e+03
35	1.166930e+03	-6.549572e+03	-4.315452e+03
36	-7.292909e+03	-8.164760e+02	8.573944e+02
37	-1.093172e+04	1.549623e+03	-2.581777e+03
38	-4.112109e+03	7.089983e+02	3.384755e+03
39	2.136269e+03	-8.531518e+02	1.764507e+03
40	-6.206506e+03	3.144904e+03	-7.327631e+02
41	6.049529e+02	-3.133078e+02	-9.631102e+02
42	-3.421607e+02	2.281529e+03	-2.556020e+02
43	-5.505032e+02	1.749707e+02	5.281901e+02
44	-4.386836e+02	8.344670e+02	7.314509e+02
45	9.203379e+02	-2.740110e+01	-1.064633e+03
46	-2.311012e+02	-1.400182e+03	1.216497e+03
47	-3.538664e+02	4.595930e+02	-5.600269e+03
48	9.942159e+03	2.647557e+03	-5.785011e+03
49	-1.191918e+03	4.766808e+03	-6.582445e+03
50	2.367166e+03	-4.067225e+03	5.894949e+02
51	9.056674e+01	2.480019e+03	-1.159838e+03
52	-4.582229e+02	9.961310e+01	-8.496243e+01
53	1.278693e+03	4.977582e+02	-5.485258e+01
54	4.564199e+02	-7.811197e+02	-6.170752e+02
55	1.731364e+03	1.521553e+03	9.023959e+01
56	1.625267e+03	4.293643e+03	7.851648e+02
57	4.829039e+02	-5.843636e+03	-8.978428e+03
58	2.950695e+03	6.748000e+03	-2.598607e+02
59	-3.207461e+03	1.035553e+03	1.398820e+03
60	1.894242e+02	5.292924e+03	5.982124e+03
61	-4.162279e+03	-8.702804e+03	-1.727649e+03
62	-9.048725e+03	-4.511943e+02	2.246797e+02
63	2.625159e+03	-7.772499e+02	-2.150280e+03
64	9.612030e+03	-9.661628e+03	-5.355124e+03
65	-1.429063e+03	-2.955514e+01	9.009695e+02
66	-6.357787e+03	-5.650997e+03	-5.674962e+03
67	1.505436e+02	-2.766797e+03	-2.519650e+03

trajectory 9

atom	VX	VY	VZ
1	-1.492596e+01	2.288197e+02	-2.125241e+01

2	-8.080612e+02	-6.590992e+02	6.842654e+01
3	2.155740e+02	2.941099e+02	6.722806e+02
4	-3.061402e+02	-7.967186e+02	4.649350e+02
5	1.274701e+03	-1.002480e+03	1.757599e+02
6	-3.404946e+03	-1.218632e+03	4.291561e+02
7	-7.022455e+03	5.159219e+03	2.718037e+03
8	-7.179218e+03	-1.000138e+03	-2.446501e+02
9	1.302160e+03	4.211645e+02	-9.656983e+02
10	1.473374e+03	-5.656593e+02	8.846311e+02
11	1.079910e+03	6.875956e+02	-3.712306e+02
12	1.899958e+03	5.954288e+03	2.321625e+03
13	-5.462016e+03	4.336228e+03	-7.851959e+03
14	-5.224559e+02	-9.890659e+01	-4.003424e+02
15	-5.061639e+02	2.293759e+02	-4.780528e+02
16	1.819575e+03	8.887701e+02	4.116455e+02
17	-1.051706e+02	-2.279389e+02	3.092229e+02
18	-1.025940e+03	-1.218270e+02	1.980818e+02
19	7.824539e+02	-1.105316e+03	-4.477010e+02
20	1.318253e+03	7.599764e+02	-1.859707e+02
21	-1.033429e+03	-3.614145e+02	-2.287362e+02
22	5.677488e+02	2.356373e+03	-7.778986e+02
23	1.293711e+01	4.895982e+01	-2.651994e+02
24	-3.667450e+02	-5.609058e+02	-5.300236e+02
25	1.296830e+03	-1.034430e+03	9.510326e+02
26	-1.800478e+02	3.424566e+02	3.301654e+02
27	4.161238e+02	2.132009e+02	-2.284683e+03
28	2.085524e+03	-1.402740e+03	2.099078e+02
29	3.027848e+01	-1.814884e+02	1.294443e+03
30	-1.473347e+03	3.790879e+02	1.560161e+02
31	-7.209070e+02	9.569930e+01	7.608650e+02
32	-8.446384e+02	2.597705e+02	7.477652e+02
33	7.634941e+02	-7.029935e+03	5.214097e+03
34	2.275804e+03	2.426768e+02	-3.529879e+03
35	-3.769148e+03	2.244339e+03	9.427845e+03
36	6.941599e+03	-6.495017e+02	-1.207077e+03
37	-1.032759e+02	-1.312915e+03	-6.064324e+03
38	-9.484577e+03	5.083610e+03	-1.210538e+03
39	2.136117e+03	-4.542716e+03	-2.570712e+03
40	-4.408421e+03	4.429957e+03	-5.371865e+03
41	4.724653e+02	2.267339e+03	-1.371447e+03
42	-2.262826e+02	-1.721040e+03	-9.443604e+02
43	-4.756827e+01	-9.123675e+02	7.901028e+02
44	5.270375e+02	-3.469486e+02	-1.199237e+03
45	4.027304e+02	1.045949e+03	-9.080571e+02
46	-3.819428e+02	-2.600794e+01	5.179687e+02
47	4.697822e+02	-1.838575e+03	7.781693e+03

48	-1.330269e+02	-3.754791e+03	1.274297e+03
49	-9.497712e+03	6.877029e+03	-8.606794e+02
50	-9.730374e+02	-3.557745e+03	2.310029e+03
51	-2.962957e+03	5.401461e+02	1.262754e+03
52	-1.322501e+03	-2.398915e+02	7.762175e+02
53	9.276347e+02	4.954764e+02	4.981191e+02
54	-1.379742e+03	2.579289e+02	-2.077908e+02
55	-9.343525e+00	-9.067829e+02	-3.545636e+01
56	-1.619487e+03	5.184482e+03	2.633477e+03
57	2.866384e+03	-3.409451e+03	-9.537028e+03
58	3.375088e+03	4.051122e+03	1.939417e+03
59	1.179399e+03	-2.813485e+03	2.846723e+03
60	-4.022373e+03	-7.427253e+03	-5.953114e+03
61	-2.695961e+03	5.213655e+03	-3.643599e+03
62	-4.902700e+03	-2.358289e+03	-1.685619e+03
63	-5.445438e+02	1.319211e+03	-1.072064e+03
64	1.085829e+04	-8.532835e+02	8.783688e+03
65	-4.874062e+03	3.737880e+03	-5.414848e+03
66	-4.225153e+03	9.061115e+02	-1.685960e+03
67	-5.017936e+03	-3.763991e+03	4.378039e+03

trajectory 10

atom	VX	VY	VZ
1	4.658361e+01	3.277665e+02	1.508525e+02
2	-9.868245e+02	9.245570e+02	-1.238733e+03
3	7.467764e+02	-3.586816e+02	4.604506e+02
4	-7.785583e+02	3.389727e+02	8.475553e+02
5	-1.407662e+03	2.568894e+02	-1.757681e+03
6	1.881520e+03	4.531421e+03	-5.232620e+03
7	6.691341e+02	4.822324e+03	7.719598e+03
8	-3.338445e+01	-2.855475e+03	1.587809e+03
9	-1.891446e+02	4.454938e+02	-1.875557e+03
10	1.151738e+02	-1.330758e+02	1.755148e+03
11	8.954026e+02	1.384817e+03	-1.478635e+03
12	1.533145e+03	4.663450e+03	-2.796667e+03
13	-1.150788e+02	6.278758e+03	-2.552120e+03
14	-9.515208e+01	-1.115527e+03	1.411883e+03
15	-4.077607e+01	1.342025e+03	4.764598e+02
16	-2.519036e+02	-1.099750e+03	-1.054228e+02
17	-1.661150e+02	-1.480200e+02	-9.710202e+01
18	-9.372130e+02	-9.221774e+02	9.626826e+01
19	1.810307e+03	1.404218e+02	2.087793e+02
20	1.822550e+03	2.437932e+02	-6.719030e+02
21	2.234285e+02	-1.652033e+02	-2.222466e+02

22	9.422716e+02	-6.863012e+02	2.434338e+02
23	8.162820e+01	-1.506843e+02	-3.322026e+02
24	-3.366578e+02	6.606764e+02	4.949627e+01
25	-3.372187e+02	-4.627446e+02	-3.684158e+02
26	1.051586e+03	3.992368e+02	-1.058228e+02
27	8.484238e+02	6.738237e+02	8.278429e+02
28	-2.927042e+03	-4.260976e+02	-3.888407e+02
29	-1.909982e+02	-7.841328e+02	1.025909e+02
30	1.177610e+03	1.403874e+03	-3.070276e+02
31	7.639715e+02	6.488116e+02	8.558783e+02
32	-9.447678e+02	-5.648803e+02	-1.307866e+03
33	5.912128e+03	-7.914889e+03	3.155217e+03
34	6.296141e+03	-2.499813e+03	-1.190072e+03
35	3.282099e+03	-7.547061e+03	-1.611373e+03
36	5.942742e+01	-6.183587e+03	-3.373343e+03
37	2.247879e+03	-1.204399e+03	5.243134e+03
38	7.307697e+03	5.022166e+02	-3.414758e+03
39	-7.452468e+03	7.984840e+02	-1.795724e+03
40	-5.236412e+03	2.924809e+03	1.186554e+03
41	-3.191263e+02	1.121826e+02	1.225472e+03
42	5.792008e+02	2.031415e+03	-4.150596e+02
43	2.510187e+02	-3.081855e+02	-1.222165e+02
44	-6.858949e+02	1.042078e+03	1.079979e+03
45	-3.831955e+02	-4.006428e+01	1.214605e+02
46	-1.095505e+03	-3.546479e+03	-3.529348e+02
47	-1.750288e+03	-7.160965e+03	3.353712e+03
48	-4.859539e+03	3.750636e+03	1.293420e+03
49	4.374504e+03	-6.863118e+03	3.352874e+03
50	7.243564e+01	-2.576552e+03	3.039897e+03
51	1.282086e+03	-5.595629e+03	8.678401e+03
52	-6.350281e+02	1.971833e+03	-2.685564e+02
53	-1.151497e+03	-1.336570e+02	5.701250e+01
54	-9.355719e+02	-1.061357e+03	1.912817e+02
55	2.595525e+03	-1.884202e+02	6.137635e+02
56	-2.663871e+03	-1.293767e+03	-2.878320e+03
57	6.146417e+02	-9.388731e+03	1.734680e+03
58	-1.786986e+03	-8.268397e+03	3.066988e+03
59	1.582089e+03	-3.212312e+03	-1.197597e+03
60	4.911772e+03	1.010205e+04	2.100599e+03
61	3.750922e+03	-2.584050e+03	1.433863e+02
62	1.616590e+03	2.223053e+03	4.128772e+02
63	8.716818e+03	2.568508e+03	-2.531530e+03
64	-5.201470e+03	1.676082e+02	-6.422998e+03
65	-1.761789e+03	-2.652813e+03	3.328779e+02
66	-6.225419e+03	-2.799635e+03	-3.920486e+03
67	-5.520286e+02	2.025420e+03	-1.093865e+03

trajectory 11

atom	VX	VY	VZ
1	-2.258501e+02	4.997359e+01	3.420953e+02
2	7.149387e+02	6.292400e+02	-1.000267e+03
3	6.909198e+02	-2.584309e+03	1.801966e+03
4	-8.174656e+02	5.805536e+02	-3.406757e+02
5	-6.094962e+01	4.890621e+02	-1.814261e+03
6	-2.306142e+03	3.828732e+03	-1.729947e+03
7	3.346638e+03	1.884115e+03	2.850603e+03
8	9.549755e+03	-5.819145e+02	5.118699e+03
9	-6.913545e+02	1.015009e+03	-2.981879e+02
10	1.477719e+03	-1.226308e+02	-5.393292e+02
11	5.731721e+02	7.794403e+02	1.062870e+03
12	6.213973e+03	-5.452583e+03	-2.260172e+03
13	-5.115434e+03	-7.036864e+03	5.108732e+03
14	-9.589378e+02	5.309428e+02	-4.956745e+02
15	-2.676841e+02	-1.274761e+02	-1.543019e+03
16	1.391472e+03	7.904962e+02	-1.685465e+01
17	-1.779684e+02	2.361787e+02	-1.353943e+02
18	-2.291441e+00	-2.153730e+01	-1.556920e+01
19	2.097646e+03	-8.703533e+01	5.777873e+02
20	-1.544441e+03	-1.109402e+03	4.961855e+02
21	4.184482e+02	-3.198154e+02	-1.690182e+02
22	1.023280e+03	-1.393136e+03	-2.165514e+02
23	-5.864466e+02	2.668523e+01	1.419612e+03
24	-1.130936e+03	-3.209936e+02	1.788667e+02
25	-7.384510e+01	2.439084e+02	-6.084382e+02
26	5.451749e+02	2.337708e+02	-1.344001e+03
27	-1.835526e+03	3.831926e+02	5.796095e+02
28	1.043860e+03	6.912824e+00	-5.551415e+02
29	1.174304e+03	-8.760940e+02	2.101783e+02
30	-2.052294e+02	1.252039e+03	-3.107053e+02
31	-1.340581e+02	-5.207130e+02	7.940315e+02
32	-5.515163e+02	-1.171274e+03	-1.122615e+03
33	2.734742e+03	4.926259e+03	-2.556950e+03
34	7.519613e+03	6.070353e+03	2.518998e+03
35	-4.591417e+03	3.007961e+03	1.344738e+03
36	-5.030585e+03	1.671598e+03	-6.487149e+03
37	-2.569367e+03	5.907937e+03	1.008351e+01
38	-1.251525e+03	-7.331817e+03	1.914567e+03
39	3.386703e+03	2.461735e+03	-2.874439e+03
40	3.844985e+03	-1.221277e+02	-3.081569e+03
41	6.302731e+02	3.723409e+02	-9.064169e+01

42	-1.003042e+03	7.809619e+02	1.313897e+03
43	9.369459e+02	-8.621682e+02	-7.916581e+02
44	4.965425e+02	1.487673e+03	-5.685452e+02
45	-1.021103e+00	-7.017775e+02	5.385659e+02
46	1.217293e+03	-1.827935e+03	-1.672225e+02
47	6.198575e+02	2.819848e+03	-5.573610e+03
48	-2.722491e+03	4.824407e+03	-9.413282e+02
49	5.126803e+03	1.659902e+03	-4.933673e+03
50	-1.797588e+03	-2.196360e+03	1.877200e+03
51	-7.908388e+03	-4.815755e+03	6.678206e+03
52	5.901451e+01	-4.543990e+02	-1.858549e+03
53	-8.238023e+02	-3.614302e+02	-6.432351e+02
54	-3.369978e+02	-1.924288e+03	2.654086e+02
55	5.246143e+02	1.358556e+03	2.342137e+03
56	-1.673132e+03	2.022017e+03	6.072271e+03
57	-5.099617e+03	-4.902571e+03	2.442815e+03
58	-4.462443e+03	2.755874e+02	8.313840e+03
59	-5.182651e+03	-8.175708e+02	2.240288e+03
60	2.507078e+03	8.840641e+02	1.832066e+03
61	7.580344e+03	7.188727e+03	-1.410508e+03
62	2.081876e+03	1.805768e+03	-3.851199e+02
63	6.981939e+03	6.811537e+03	-7.174531e+02
64	-1.028923e+03	5.858130e+03	-7.647396e+01
65	-3.116289e+02	-9.950505e+03	2.124870e+03
66	-1.898738e+02	-3.543097e+03	-1.422310e+03
67	-3.152110e+03	-6.387997e+03	8.575885e+01

trajectory 12

atom	VX	VY	VZ
1	2.200781e+02	2.581645e+02	-4.209606e+02
2	3.264813e+01	-1.037455e+03	-1.195722e+02
3	1.995678e+02	7.438632e+02	-6.631179e+02
4	1.142492e+03	-4.510055e+02	-1.519381e+03
5	1.958033e+02	4.159665e+02	1.341201e+03
6	3.864571e+03	5.699331e+02	2.349055e+03
7	2.043817e+03	1.483070e+03	-4.425273e+03
8	-5.762417e+03	-2.852215e+03	-6.437322e+03
9	-4.248517e+02	5.551843e+02	1.546742e+03
10	1.317156e+03	-1.647258e+03	2.260380e+03
11	-1.449911e+02	-1.088454e+02	7.185723e+02
12	4.981025e+03	9.347449e+02	-2.608898e+03
13	2.227899e+03	8.594099e+03	6.832727e+02
14	-5.717547e+02	-1.120994e+03	7.067701e+01
15	1.135710e+03	8.251367e+01	1.644662e+03

16	-2.015687e+02	-2.705543e+02	-4.964203e+02
17	6.631738e+01	-2.048059e+02	-1.751131e+02
18	-1.480747e+02	1.121994e+03	1.375108e+03
19	1.109323e+03	4.602465e+02	-6.995634e+02
20	-8.957393e+02	-3.559804e+02	-2.687914e+02
21	1.356108e+03	3.627560e+02	1.517419e+02
22	2.184547e+02	-8.601199e+02	4.640279e+02
23	-1.766385e+03	2.403222e+00	-1.803525e+02
24	-3.902132e+02	-2.518255e+02	-1.195737e+03
25	-8.838910e+01	1.057821e+03	8.897421e+02
26	7.395046e+02	8.338178e+02	6.531773e+02
27	1.067363e+02	2.470866e+03	5.561805e+01
28	-7.564615e+02	-9.547612e+02	5.019532e+02
29	2.386572e+02	-3.138035e+01	1.463077e+03
30	-2.181729e+03	6.426383e+02	-1.062859e+03
31	-1.660174e+03	-6.306657e+02	-1.513221e+03
32	1.330101e+03	-2.168513e+03	8.330689e+02
33	-6.949242e+03	2.167849e+03	-6.001448e+03
34	-5.342897e+03	2.037416e+03	6.349782e+03
35	5.605624e+02	-1.133467e+03	-3.839740e+03
36	-6.519507e+01	4.042688e+03	6.625895e+03
37	-1.965713e+02	-2.265608e+03	2.768235e+03
38	4.861486e+03	5.685684e+03	-8.757487e+03
39	-1.540456e+03	2.552667e+02	-1.475759e+03
40	-6.986415e+01	-9.833455e+03	1.109532e+03
41	6.714035e+02	-6.798698e+01	-7.507384e+02
42	3.990067e+02	1.400452e+01	-9.517692e+02
43	1.696842e+02	1.481914e+02	3.736216e+02
44	-2.146704e+02	6.866004e+00	-3.638076e+02
45	-8.235642e+02	1.825546e+02	-2.838347e+02
46	-2.560630e+03	4.849982e+02	-4.448957e+02
47	-2.941026e+03	-3.514000e+03	-8.144535e+02
48	7.845487e+03	9.677444e+02	2.797402e+03
49	4.280711e+03	-1.346812e+03	-1.402513e+03
50	-1.149753e+03	-3.648490e+03	1.429850e+03
51	1.010676e+04	-4.228738e+03	-4.422110e+03
52	1.907975e+02	4.455142e+02	2.218806e+03
53	-5.841144e+02	-1.385913e+03	2.372923e+02
54	-7.030630e+02	1.017845e+03	7.139200e+02
55	-3.589256e+02	9.732393e+02	-7.362349e+02
56	-1.614318e+03	4.284204e+03	-4.785596e+03
57	-2.084955e+03	-7.526699e+03	-2.395755e+03
58	-4.145320e+03	-7.987381e+03	1.815220e+03
59	3.839712e+03	2.126631e+03	1.108775e+03
60	-3.305563e+03	1.076509e+04	-8.365536e+02
61	2.481621e+03	-1.903549e+03	3.331812e+03

62	2.034735e+03	-4.685874e+03	6.316696e+03
63	4.867335e+03	3.394555e+03	-4.444837e+03
64	1.267886e+03	-4.249369e+03	-1.554016e+03
65	3.526689e+03	-6.865129e+03	3.478477e+03
66	-7.752027e+02	-1.284369e+03	-4.245724e+03
67	-7.715549e+02	8.039586e+02	4.007541e+03

trajectory 13

atom	VX	VY	VZ
1	-7.182850e+01	-2.312884e+00	1.197920e+02
2	-1.975186e+02	1.653836e+03	9.639733e+02
3	-3.642815e+02	-1.717437e+03	1.163006e+03
4	8.421185e+02	-4.484612e+02	-3.726895e+02
5	-1.125526e+03	4.791599e+02	4.591995e+02
6	3.024097e+03	-4.838488e+03	-6.222249e+03
7	-3.136721e+03	6.467493e+03	6.217712e+03
8	1.127359e+03	2.409333e+03	-2.408282e+02
9	-8.704077e+02	1.219753e+02	-1.136174e+03
10	-9.936538e+02	3.479320e+02	4.933768e+02
11	9.293275e+02	1.411066e+03	-1.821112e+03
12	-6.519030e+03	-5.007427e+03	1.272465e+03
13	-8.614229e+03	4.141838e+03	-9.994799e+02
14	-3.156796e+02	-1.345533e+02	2.383353e+02
15	8.691889e+02	6.558740e+02	8.255483e+02
16	-3.058091e+02	-1.453602e+00	-1.329464e+03
17	2.068764e+02	3.710955e+02	-5.602491e+00
18	1.480056e+03	-1.781084e+02	7.493264e+02
19	1.196680e+03	-1.451604e+03	1.004435e+03
20	-2.850229e+02	8.795297e+02	-3.572302e+02
21	-4.615621e+01	-5.470836e+02	8.517416e+02
22	1.537148e+03	4.202713e+02	-2.224459e+03
23	-4.506360e+02	-7.497485e+02	7.684487e+02
24	1.970994e+02	-6.082468e+02	3.036136e+02
25	-2.614411e+02	9.949609e+01	1.305865e+02
26	2.061027e+02	-1.416205e+02	1.385923e+02
27	1.494519e+03	-5.205613e+02	-2.850734e+02
28	-4.768532e+02	4.819070e+01	8.335225e+00
29	-1.053345e+03	1.023212e+03	-1.385969e+03
30	-1.240346e+03	-2.595869e+02	1.181614e+03
31	8.905528e+02	-3.456881e+02	1.551804e+03
32	-1.331811e+03	8.067145e+02	-1.762197e+03
33	6.503070e+03	-3.712864e+03	4.101816e+03
34	3.839288e+03	1.341976e+03	-2.395562e+03
35	6.520098e+02	-3.527405e+03	-7.148911e+03

36	-5.785303e+03	-2.716409e+03	1.053708e+02
37	8.297499e+03	-3.307117e+03	4.466672e+03
38	4.914580e+02	-4.566094e+02	4.279196e+03
39	3.352695e+03	-1.395446e+03	3.132674e+03
40	-2.612209e+03	4.610853e+03	2.881185e+03
41	4.614494e+01	-5.401321e+02	-7.070341e+01
42	-1.427230e+03	2.442042e+02	3.828703e+02
43	-6.706166e+02	-5.240768e+01	8.089900e+02
44	1.554399e+03	-4.544161e+02	2.428178e+02
45	7.276589e+02	-1.229910e+03	6.359434e+02
46	1.030630e+03	-2.083955e+01	-1.313285e+03
47	1.053957e+03	6.698860e+03	-3.707762e+03
48	-2.030728e+03	-5.521285e+03	2.344565e+03
49	-5.850794e+03	5.412844e+03	-5.221601e+03
50	2.881741e+03	-4.615151e+03	1.205605e+03
51	-4.542261e+03	-3.801588e+03	-1.846783e+03
52	-8.401804e+02	9.472311e+02	-3.096719e+02
53	-1.161613e+03	2.628366e+02	-1.253531e+01
54	1.876823e+02	-8.228237e+02	-5.575327e+02
55	-5.219992e+02	-1.618321e+03	-7.727227e+02
56	-9.820129e+03	-8.019335e+03	-1.818347e+03
57	-2.297840e+03	2.345134e+03	-1.945589e+03
58	4.468965e+03	-2.346070e+03	4.742637e+03
59	1.081972e+04	4.197592e+03	-4.686127e+03
60	9.556310e+02	1.012530e+03	3.355398e+02
61	2.181328e+03	-7.084262e+02	-2.287817e+03
62	-1.524654e+03	-5.418945e+01	-2.541469e+03
63	3.627505e+03	1.068798e+04	3.194850e+03
64	-1.876209e+03	2.775711e+03	-2.667314e+03
65	3.468416e+03	1.121477e+03	4.588884e+03
66	-1.197239e+04	-1.625972e+02	-3.645347e+03
67	3.183116e+03	-4.453089e+03	3.076662e+03

trajectory 14

atom	VX	VY	VZ
1	-8.770549e+01	1.949766e+02	-1.677107e+02
2	6.536492e+02	4.020648e+02	2.645035e+02
3	-4.720900e+02	5.420230e+02	9.614178e+02
4	1.179741e+03	1.080821e+03	1.230419e+03
5	-1.365846e+03	4.270773e+02	5.114867e+02
6	9.891145e+03	-8.775828e+02	-3.854987e+03
7	-1.410467e+03	-3.921450e+03	1.153925e+03
8	-5.203878e+03	2.585763e+03	3.390051e+03
9	6.929478e+02	-2.129422e+02	-1.097059e+03

10	-4.430789e+02	-1.952253e+03	-4.833159e+02
11	-4.655482e+02	1.378578e+02	2.755091e+02
12	4.094768e+03	-3.905098e+03	1.276362e+03
13	-1.082516e+03	-7.516764e+03	7.548331e+03
14	-3.756130e+02	-1.838839e+03	4.827079e+02
15	6.019457e+02	9.391653e+02	1.875504e+01
16	8.191317e+02	4.597030e+02	-9.101243e+02
17	-1.107632e+02	8.636470e+01	1.537337e+02
18	4.435574e+02	-6.528251e+02	-1.179866e+03
19	-9.277588e+02	-9.960783e+01	-6.694550e+02
20	-3.096915e+02	-2.620492e+02	1.154708e+03
21	-9.093491e+02	-1.035824e+03	-5.261075e+02
22	-8.132337e+01	9.434754e+01	-6.685340e+02
23	8.490217e+02	-7.325650e+02	-1.282436e+02
24	2.104676e+02	8.243282e+02	7.857993e+02
25	2.083769e+03	1.369136e+03	5.534518e+02
26	-4.674724e+01	-9.729701e+02	-8.784579e+02
27	-1.555172e+02	6.843422e+02	1.812819e+02
28	-1.522570e+03	-6.513206e+02	5.719349e+02
29	1.611270e+03	8.305679e+02	-1.140371e+03
30	-2.632441e+02	4.609078e+02	4.647009e+02
31	1.962732e+02	1.917489e+02	-4.720088e+02
32	-1.747976e+02	-9.297718e+02	1.363295e+03
33	6.519864e+02	3.995687e+03	-5.829557e+03
34	-6.634313e+03	1.551023e+03	-1.978903e+03
35	-1.079828e+04	4.284785e+03	1.197014e+03
36	-6.051010e+02	-2.167248e+03	7.027652e+03
37	-1.811758e+03	-3.717629e+03	-3.058807e+03
38	5.999810e+03	7.192058e+03	3.750406e+02
39	1.894043e+03	-9.865925e+02	7.252740e+02
40	3.451360e+03	-2.123811e+03	-4.372343e+03
41	-6.331546e+02	-7.454989e+02	-7.826919e+01
42	2.043291e+03	-1.004612e+03	-2.735957e+02
43	-1.166243e+03	1.745137e+03	4.572783e+02
44	1.901251e+03	-3.751935e+02	-6.158229e+02
45	-1.798804e+02	-8.498078e+02	-6.098076e+02
46	-1.494212e+03	5.367410e+02	-3.006643e+02
47	-2.172709e+03	3.460636e+03	-3.802536e+03
48	2.475381e+03	-5.990188e+03	1.414488e+03
49	6.848299e+02	5.090058e+03	1.580708e+03
50	5.038691e+03	6.405567e+03	-1.176935e+04
51	-2.281235e+03	-3.777032e+03	1.096916e+03
52	2.944485e+02	2.649923e+01	9.196157e+02
53	-7.263309e+02	5.566339e+02	2.378183e+02
54	-9.705563e+02	-1.047255e+03	5.383711e+02
55	-1.153837e+02	-1.792828e+01	5.977368e+02

56	4.972440e+03	3.875874e+03	-2.477526e+02
57	3.943626e+03	2.434907e+03	2.755602e+03
58	-1.419155e+04	9.471469e+02	8.916786e+02
59	-2.717113e+03	9.181503e+03	2.552683e+03
60	2.730432e+02	-9.812027e+03	-1.849040e+03
61	-5.788220e+03	4.680130e+03	1.568265e+03
62	2.897082e+03	1.626934e+03	1.416464e+03
63	1.839479e+03	-4.226708e+03	-2.411167e+03
64	8.876539e+03	-2.977530e+03	1.026937e+03
65	-5.636467e+03	6.865484e+03	-5.979762e+03
66	3.931057e+03	-3.029799e+03	1.610044e+03
67	2.590969e+02	4.748717e+01	-6.116712e+03

trajectory 15

atom	VX	VY	VZ
1	-4.524173e+02	1.556059e+02	4.057014e+02
2	-9.999211e+02	1.411747e+02	-1.215380e+03
3	8.116881e+02	-2.159800e+03	1.010009e+03
4	-3.376138e+02	3.904086e+02	-3.147688e+02
5	2.580493e+02	1.641596e+03	4.818994e+02
6	1.211332e+03	2.179470e+03	-3.540323e+03
7	-2.617161e+03	-9.147100e+03	-1.462442e+03
8	6.034109e+03	3.718264e+03	3.410715e+03
9	2.472417e+02	6.524102e+01	-8.105286e+02
10	-2.147867e+02	9.159879e+02	-9.451764e+01
11	1.959046e+03	-2.539955e+02	-6.349503e+02
12	-1.910958e+03	-4.531622e+03	8.044679e+03
13	1.407934e+03	4.075297e+03	-1.699474e+03
14	1.102998e+03	-7.810150e+02	-2.418496e+02
15	-1.926078e+03	-1.088403e+03	1.648342e+02
16	4.023652e+02	6.984860e+02	-4.932115e+02
17	-9.119550e+01	-3.237523e+02	-2.481729e+01
18	-8.825499e+02	-1.485983e+03	2.499352e+02
19	-1.122443e+03	-1.461615e+03	8.965079e+02
20	5.437119e+02	2.007958e+02	1.444474e+02
21	5.517066e+02	7.248938e+02	-5.119351e+02
22	1.150426e+03	1.222626e+03	-1.330499e+02
23	-6.743053e+02	-1.945613e+02	5.862044e+02
24	2.557215e+02	8.259813e+02	5.765022e+02
25	-2.859456e+02	-4.866967e+02	-1.547283e+03
26	1.029622e+03	4.929104e+02	-8.286863e+00
27	1.630891e+02	9.332325e+02	2.076934e+02
28	1.429404e+03	4.279254e+02	-1.317609e+03
29	-1.604432e+02	1.411595e+02	-9.736930e+02

30	-3.137293e+02	-1.874807e+02	-6.080806e+02
31	-1.933138e+03	9.556559e+02	-8.186160e+02
32	1.052671e+03	4.745427e+01	-2.773681e+02
33	7.632623e+03	4.245599e+03	-3.465098e+03
34	7.484880e+03	2.674200e+03	4.461664e+02
35	-8.644467e+03	3.630716e+01	5.756815e+03
36	2.476952e+03	-4.778730e+02	3.220632e+03
37	2.166435e+03	-1.313283e+03	1.093970e+04
38	-1.195430e+03	-2.843502e+03	4.266102e+03
39	-3.083376e+03	-3.393900e+03	-2.730854e+03
40	2.803582e+03	-3.888959e+03	-1.509620e+03
41	-1.168559e+03	1.653708e+03	-5.169703e+02
42	-1.931690e+03	3.582399e+02	7.720081e+02
43	1.388760e+03	-4.983070e+02	7.037158e+02
44	3.678232e+02	2.263896e+02	2.049523e+02
45	1.591639e+03	-1.081395e+03	-5.806906e+02
46	8.301260e+02	-1.737331e+03	-1.207974e+02
47	1.822431e+03	4.095111e+03	2.161783e+03
48	-3.832039e+03	-1.099821e+03	4.414377e+03
49	1.776258e+03	-4.884066e+03	2.740117e+03
50	5.099895e+03	1.122812e+04	-3.160386e+03
51	3.928058e+03	-2.041836e+03	-4.400832e+03
52	-2.380490e+02	-1.774659e+01	-7.774525e+02
53	-1.237500e+03	-1.886590e+02	-1.262943e+03
54	-2.720620e+02	2.169578e+02	6.193416e+02
55	-8.815268e+02	-3.368686e+02	-5.512962e+02
56	-1.064087e+03	6.625801e+03	3.726873e+03
57	-6.771007e+03	6.670604e+03	1.939552e+03
58	3.132687e+03	2.207617e+03	-4.331530e+03
59	2.448181e+03	-6.644034e+03	6.723376e+03
60	1.181541e+03	-9.765721e+01	3.095375e+03
61	6.028091e+03	4.533067e+03	3.734956e+03
62	-4.530894e+02	-9.839941e+02	1.388803e+03
63	-7.439993e+03	-5.068314e+03	-2.273572e+03
64	4.671830e+03	1.577920e+03	3.238149e+03
65	3.409750e+03	5.030518e+03	8.400174e+03
66	1.071091e+04	-4.637300e+01	4.948093e+02
67	1.576732e+03	-2.815869e+03	4.730635e+02

trajectory 16

atom	VX	VY	VZ
1	-1.681627e+02	-2.860588e+02	2.931017e+02
2	-9.576077e+02	4.941060e+02	-4.398044e+01
3	2.231892e+02	4.435489e+02	-1.144262e+03

4	-1.080810e+02	-1.318920e+03	-6.657647e+02
5	4.043276e+02	-4.154394e+00	-8.208462e+01
6	-3.618374e+03	-2.800043e+03	2.439931e+03
7	3.984238e+03	-1.066781e+04	6.462692e+02
8	1.468072e+03	3.018956e+03	-7.280867e+03
9	-2.470821e+02	1.399341e+03	7.263382e+02
10	2.175351e+02	2.385443e+02	-7.474637e+02
11	8.495731e+02	1.629305e+03	-8.712340e+02
12	-6.676027e+03	-4.970567e+03	4.318266e+03
13	3.274026e+03	-7.632654e+02	-8.532132e+03
14	-8.087258e+02	6.809128e+02	6.159746e+02
15	4.498669e+02	-2.938419e+02	-2.614015e+02
16	-4.417480e+02	7.747136e+02	4.367675e+02
17	2.930583e+02	-7.727361e+01	2.045272e+02
18	2.937309e+02	-3.357238e+02	-6.244235e+01
19	2.718551e+02	1.784056e+03	-1.011535e+03
20	-5.721595e+02	3.141498e+01	-9.293675e+01
21	1.159592e+03	5.593346e+02	7.454180e+01
22	-3.714707e+02	-7.077825e+02	-7.289311e+02
23	1.109432e+02	-2.413714e+02	7.296445e+02
24	9.729610e+02	1.205609e+03	-1.288820e+03
25	-1.795220e+03	-5.169588e+02	-1.344766e+03
26	-9.254228e+02	2.555025e+02	-4.843620e+02
27	-3.061076e+02	5.428051e+02	4.436480e+02
28	-8.982010e+02	-1.428066e+03	1.455300e+03
29	-3.496222e+02	1.916333e+03	-4.891394e+02
30	3.511555e+02	-1.569404e+03	1.332816e+03
31	-6.979095e+02	1.787511e+03	4.464828e+02
32	-1.131689e+03	-2.985352e+02	3.605919e+02
33	7.542166e-01	-1.058743e+04	-3.066258e+02
34	3.603901e+03	1.716730e+03	4.882521e+02
35	7.165940e+02	-8.902602e+03	-2.769067e+03
36	-2.079267e+03	2.367891e+03	-3.151341e+03
37	-4.832159e+03	-4.373169e+03	-1.999604e+03
38	2.078848e+03	1.835933e+03	-2.102260e+03
39	2.856847e+03	-3.700591e+03	-2.020005e+03
40	9.642569e+03	5.469340e+02	-2.239973e+03
41	-9.998036e+02	-1.840945e+03	-4.664150e+02
42	8.695600e+02	7.995601e+02	3.967457e+02
43	1.297692e+03	8.611099e+02	8.516038e+02
44	-5.939391e+00	7.059038e+02	-9.893162e+02
45	-1.686625e+03	7.104676e+02	8.316361e+01
46	-3.843582e+02	-6.052046e+02	-3.370629e+02
47	7.617696e+02	-6.229936e+03	1.770949e+03
48	6.986823e+03	2.676137e+03	2.348906e+03
49	5.506982e+03	-8.912813e+03	4.234458e+03

50	4.650140e+03	2.414465e+03	-4.620428e+03
51	2.958270e+03	1.724918e+03	-1.385972e+03
52	-5.081604e+02	-1.207083e+03	6.858233e+02
53	1.773845e+02	-6.487242e+02	-6.591989e+02
54	2.077053e+02	2.198501e+02	1.320584e+03
55	1.209204e+03	5.955386e+02	-1.006818e+03
56	8.390466e+03	-3.509154e+01	8.004590e+03
57	9.251723e+02	3.899956e+03	-3.974284e+03
58	-2.163416e+01	5.262521e+01	3.290888e+03
59	-5.116029e+02	2.541256e+03	-3.531907e+03
60	3.200653e+03	7.873915e+03	5.115158e+03
61	5.359749e+03	-8.068795e+03	-9.081796e+01
62	-1.331211e+03	-3.280578e+03	1.243590e+03
63	-1.053312e+04	-5.136628e+03	-5.860582e+03
64	1.142710e+03	-4.707059e+03	-5.898879e+03
65	2.321144e+03	-1.132234e+03	-1.448186e+03
66	3.495852e+03	5.481040e+03	2.004942e+03
67	-5.085248e+03	-5.515948e+03	4.064840e+03

trajectory 17

atom	VX	VY	VZ
1	-2.150533e+01	3.389178e+02	2.306570e+02
2	6.771030e+02	1.369971e+03	8.055504e+01
3	-3.556966e+02	-2.578252e+02	-1.445217e+03
4	-1.194189e+03	-7.131354e+02	-2.974035e+02
5	1.262075e+03	5.515506e+02	-8.709385e+02
6	-3.365592e+03	-2.689692e+02	2.122280e+03
7	-2.218622e+03	-8.056857e+03	-5.320760e+03
8	-4.979513e+03	3.844333e+03	2.120853e+03
9	3.843200e+02	9.264472e+02	2.996051e+02
10	7.377137e+02	-1.673286e+02	1.679705e+03
11	4.857977e+02	9.350698e+02	-1.361870e+03
12	-1.450909e+03	-4.347311e+02	1.510894e+03
13	-5.179083e+03	-7.324597e+03	3.183956e+03
14	4.028218e+01	6.079584e+02	-2.563935e+02
15	1.009218e+03	-6.430868e+02	-1.218502e+03
16	-1.391188e+03	-8.994315e+02	-6.489569e+01
17	-1.009198e+02	-1.506179e+01	1.191867e+01
18	2.016294e+02	-9.893478e+02	-6.499603e+01
19	-2.891612e+02	9.603260e+01	-2.822336e+01
20	-6.567239e+02	6.530157e+02	-5.700461e+02
21	-4.833209e+02	2.665211e+02	-5.710851e+02
22	2.610082e+03	-2.433998e+02	-3.097141e+02
23	-1.146197e+03	-2.171396e+02	-4.349523e+02

24	6.887905e+02	-4.712135e+02	6.839764e+02
25	4.237278e+02	5.292309e+02	-9.800374e+01
26	1.547998e+03	-9.392101e+00	4.828215e+02
27	-5.262618e+02	-1.036284e+03	1.992737e+02
28	-1.817033e+02	5.215593e+02	3.357819e+02
29	-1.091932e+03	4.616396e+01	-1.382077e+03
30	2.279764e+03	2.395637e+03	-2.797993e+01
31	9.109815e+02	-3.608800e+03	5.587878e+02
32	-9.748569e+02	6.516918e+02	3.869438e+02
33	1.466272e+03	-5.529047e+03	4.403170e+03
34	2.354045e+03	-2.497202e+03	-5.537763e+03
35	-2.397635e+03	4.929014e+03	3.094099e+02
36	-5.618967e+03	-2.929111e+03	-2.052589e+03
37	-5.238847e+03	-1.852798e+03	2.736592e+03
38	4.797558e+03	1.663158e+03	-2.669857e+02
39	-4.819407e+02	-5.074184e+03	3.582759e+03
40	9.451155e+03	-2.604389e+03	-4.432539e+02
41	-1.911832e+02	1.200860e+03	-1.130673e+03
42	6.509109e+02	2.176332e+02	-1.168868e+03
43	-7.956364e+02	-1.440583e+02	9.994496e+02
44	-4.184817e+02	-1.050762e+03	3.845448e+02
45	-3.240345e+02	1.993754e+02	-4.772399e+02
46	-3.421398e+02	-5.416137e+01	-2.094072e+02
47	-8.008140e+03	8.218168e+03	1.581367e+03
48	-3.805650e+03	-5.527830e+03	1.030388e+03
49	6.218238e+03	-2.066539e+03	3.731891e+03
50	-3.424394e+03	-1.021987e+04	1.194695e+03
51	1.912610e+03	1.238929e+03	7.749316e+02
52	2.692692e+01	-3.041646e+02	-4.734665e+02
53	-5.834084e+02	5.436589e+01	4.996119e+02
54	1.309616e+03	1.621930e+01	-2.729413e+02
55	-9.489414e+02	6.060934e+01	-4.327395e+01
56	6.262131e+01	5.377112e+02	5.013936e+03
57	2.704300e+03	3.568055e+03	-5.856183e+02
58	-2.733145e+03	-5.721314e+03	1.129965e+04
59	3.656025e+03	-5.112110e+03	6.858383e+03
60	3.208210e+03	6.872232e+03	2.637099e+03
61	-7.262258e+03	-5.460851e+03	2.831453e+02
62	3.880284e+03	-1.939926e+02	-4.620807e+02
63	-4.651634e+03	2.727157e+03	9.356648e+03
64	-9.138152e+03	6.253415e+03	9.275275e+02
65	2.081666e+03	-6.432521e+03	2.072910e+03
66	2.944314e+03	-1.168477e+03	1.960355e+03
67	5.782453e+03	3.068888e+03	-1.938345e+03

trajectory 18

atom	VX	VY	VZ
1	1.210541e+02	4.692112e+02	1.201565e+02
2	-1.247981e+03	7.813236e+02	5.736699e+01
3	-1.355923e+02	-1.105644e+02	9.541180e+02
4	1.380267e+03	-8.195461e+02	8.480840e+02
5	2.447014e+02	5.851449e+02	-1.875073e+03
6	-6.862999e+03	-3.388415e+03	-1.031718e+03
7	5.859039e+03	-5.853827e+03	-5.624829e+03
8	-9.059684e+02	3.867064e+03	-7.496495e+03
9	4.765040e+02	-8.190881e+01	-8.002351e+02
10	8.203480e+02	8.739750e+01	6.615742e+02
11	4.923839e+02	-2.122082e+01	-2.721204e+02
12	-8.373185e+02	-2.451844e+03	1.767966e+03
13	-1.965090e+02	-7.452563e+03	3.309510e+03
14	-1.401545e+03	-8.352751e+02	-4.138198e+02
15	4.476051e+02	9.298402e+02	-1.121662e+03
16	2.540546e+02	3.003641e+02	4.130870e+02
17	-6.486470e+01	-1.389141e+02	5.025894e+01
18	1.258868e+03	4.688921e+02	-1.518876e+02
19	1.357455e+03	-1.713555e+03	4.049954e+02
20	-1.366080e+02	-4.855801e+02	-2.093577e+02
21	4.046395e+02	4.559419e+02	2.196295e+00
22	-1.175886e+02	-2.407868e+03	5.121977e+02
23	-2.191251e+03	3.830976e+02	9.795598e+01
24	-1.256670e+03	-2.629247e+02	-3.262985e+02
25	2.287827e+03	8.589144e+02	3.839054e+02
26	7.360457e+02	5.185725e+02	1.185341e+01
27	1.205262e+03	9.824426e+02	2.022643e+02
28	1.287321e+03	3.107135e+02	-1.059255e+03
29	4.447921e+02	-6.388667e+02	1.972294e+03
30	-1.696446e+03	3.004905e+02	4.600999e+02
31	1.157630e+02	-2.135555e+03	8.560839e+02
32	-2.635985e+02	2.195163e+01	6.391027e+02
33	-3.892491e+03	3.675868e+03	-3.154839e+02
34	2.077325e+03	6.773287e+03	-7.535033e+03
35	3.838439e+03	-1.797289e+03	-6.150284e+03
36	-6.676330e+03	1.572957e+03	-1.098203e+03
37	-2.386883e+03	-2.141660e+02	-1.145065e+03
38	-7.595989e+03	4.316819e+03	2.993066e+03
39	-2.888061e+03	3.319408e+03	-2.561535e+03
40	-6.549491e+03	1.499012e+03	-3.327492e+02
41	-1.726303e+02	-2.450854e+02	5.842902e+01
42	-1.708852e+03	4.892275e+02	9.799841e+01
43	1.158105e+03	-5.248225e+02	-8.310240e+02

44	-4.024474e+02	-9.976812e+02	2.674145e+02
45	1.259919e+03	1.803729e+03	-1.713554e+03
46	-7.797199e+02	-1.852708e+03	1.168795e+03
47	5.585787e+03	2.473475e+03	1.197282e+03
48	7.048494e+03	3.395902e+03	-9.542363e+03
49	-2.975660e+03	1.463740e+03	5.880027e+03
50	-3.159402e+03	7.417782e+02	5.796228e+03
51	3.325033e+03	3.314680e+03	-2.068428e+03
52	-5.978469e+02	-1.327294e+03	4.679382e+02
53	-7.938234e+02	1.800715e+03	9.350365e+02
54	3.868569e+02	-6.482601e+02	3.252438e+02
55	6.408975e+02	-3.725777e+02	-1.780639e+02
56	-6.192872e+03	3.874626e+03	-1.442276e+03
57	-2.012537e+03	-2.984165e+03	-1.406515e+03
58	6.464782e+03	5.928235e+02	-7.964722e+03
59	-5.784125e+03	3.351122e+03	2.602443e+02
60	-5.605175e+02	-6.254486e+03	-5.682796e+03
61	-2.537655e+03	-3.924981e+03	-3.980821e+03
62	-6.406193e+02	1.031400e+03	1.272576e+03
63	-2.578069e+03	3.584772e+03	-6.490847e+03
64	-9.308008e+03	2.343142e+03	3.272953e+01
65	9.413568e+02	-1.169165e+03	-1.308204e+03
66	-1.075889e+04	8.719766e+02	-3.916244e+03
67	1.592006e+03	3.528058e+03	5.391168e+03

trajectory 18

atom	VX	VY	VZ
1	1.091081e+02	-2.629829e+02	2.454290e+02
2	-5.429863e+01	-1.790988e+02	-1.781563e+02
3	-1.422413e+03	1.503050e+03	-1.684518e+03
4	3.703215e+02	-8.815832e+02	2.506417e+02
5	6.767202e+02	1.509222e+02	1.041356e+03
6	-2.786457e+03	-9.401920e+03	3.700795e+03
7	1.524050e+03	-3.834519e+03	-7.973540e+03
8	-4.282884e+03	2.868352e+03	2.146406e+02
9	1.113884e+03	6.678274e+02	4.711058e+02
10	1.684865e+03	-4.363926e+02	2.159599e+02
11	-5.199970e+02	1.114205e+03	-9.900793e+02
12	-1.249590e+03	-5.689932e+03	3.593102e+03
13	-1.511701e+03	1.174723e+03	-6.339910e+03
14	1.268753e+02	3.682980e+02	-4.671675e+02
15	-1.531914e+03	1.298064e+02	2.422188e+03
16	8.103457e+01	1.363466e+02	2.776299e+02
17	-1.249124e+02	5.059208e+01	-9.827817e+01

18	2.893971e+02	7.073751e+02	1.522026e+02
19	-1.974909e+02	-1.260763e+03	-1.572417e+02
20	-3.799087e+02	-1.908437e+02	6.127414e+02
21	-1.601836e+03	1.676751e+02	2.065294e+02
22	1.253312e+02	1.926373e+03	-1.476600e+02
23	6.515637e+02	4.859694e+02	-5.933568e+02
24	1.705964e+02	-2.442094e+02	-6.055047e+02
25	-2.160291e+03	-1.168930e+03	-3.093879e+01
26	8.664453e+02	-1.021668e+02	-8.603993e+02
27	1.298152e+03	1.160309e+03	5.167925e+01
28	1.057995e+03	-4.994252e+02	-8.939684e+02
29	5.988018e+02	3.052843e+02	-9.271218e+02
30	-1.235424e+03	5.678834e+02	-1.213512e+03
31	-7.366582e+00	6.094349e+02	4.961469e+02
32	-1.038255e+03	-2.093410e+02	5.675427e+01
33	6.043851e+03	1.053334e+04	-3.703611e+02
34	-3.485739e+03	3.834060e+02	1.235912e+03
35	-3.506871e+03	3.956631e+03	6.380052e+03
36	-3.782656e+02	-5.263757e+03	5.425331e+03
37	-2.875322e+03	-5.707326e+03	5.306448e+03
38	6.689618e+02	2.986433e+03	7.816431e+03
39	-3.009177e+03	-3.713453e+02	4.814911e+03
40	-9.912231e+03	-1.153768e+03	-2.560023e+03
41	8.737540e+02	-2.469678e+03	5.465374e+02
42	-1.326959e+03	3.720775e+02	-7.510371e+02
43	-6.002954e+02	9.791223e+02	1.886032e+02
44	7.938866e+02	-8.870586e+02	-1.014025e+03
45	8.433127e+02	1.456771e+03	1.213172e+03
46	1.872189e+03	5.751937e+02	-5.314327e+02
47	-1.383060e+03	-4.529874e+03	4.686640e+03
48	-2.314532e+03	-4.328999e+03	2.691384e+03
49	-2.185574e+03	4.124149e+03	3.486347e+03
50	-2.041653e+03	-3.160606e+03	4.716185e+03
51	3.434988e+03	2.101235e+03	-5.290293e+03
52	1.557556e+03	3.613992e+02	6.805061e+02
53	-5.723973e+02	9.474443e+02	1.139260e+02
54	3.499951e+02	-1.934356e+03	4.444066e+02
55	1.585494e+03	-1.318768e+03	-9.899866e+02
56	-6.145254e+03	-6.826459e+03	-4.565493e+03
57	-5.923665e+03	-3.261866e+03	1.987827e+03
58	-1.466940e+03	-5.416457e+03	-4.259538e+03
59	5.862896e+03	2.343794e+03	-8.461795e+03
60	-3.138292e+02	1.258378e+03	1.803049e+03
61	4.503988e+02	-1.445950e+03	4.609729e+03
62	-1.816687e+03	5.055790e+03	-4.414576e+03
63	-6.817400e+03	-2.673916e+03	-1.325227e+03

64	-1.174425e+03	4.761446e+03	5.967944e+03
65	-2.332751e+03	2.945363e+03	-7.460517e+03
66	-4.012169e+03	3.171508e+03	-1.583788e+03
67	-3.804315e+03	-1.989316e+03	4.260051e+03

trajectory 19

atom	VX	VY	VZ
1	-5.194751e+02	7.398573e+01	-2.118357e+02
2	7.117660e+02	-1.661699e+03	-9.008308e+02
3	-4.151947e+01	-1.075977e+02	-1.134329e+03
4	-4.006077e+02	6.582595e+02	1.012332e+03
5	7.380897e+02	-4.344816e+02	-1.276470e+03
6	-4.144900e+03	3.878035e+03	2.527412e+00
7	-3.326211e+01	3.262730e+03	7.966554e+03
8	-6.072244e+03	-5.226377e+03	-1.828022e+03
9	-5.063439e+02	-2.346640e+02	3.755438e+02
10	5.003846e+02	-1.593870e+03	-1.317827e+02
11	6.173744e+01	1.239210e+03	1.111190e+02
12	-2.152718e+03	-8.211816e+03	8.634189e+02
13	-4.382716e+03	3.274599e+03	1.424153e+03
14	-4.191559e+02	-8.916649e+02	5.879488e+02
15	-1.033205e+03	-5.018225e+02	-1.799533e+03
16	1.486971e+03	-1.660519e+02	7.577034e+02
17	7.761677e+01	1.293435e+02	-2.683746e+01
18	-3.446428e+02	-2.532315e+02	1.908167e+03
19	-2.939128e+02	1.342577e+03	-1.862609e+03
20	4.375401e+02	-9.368084e+02	9.194831e+01
21	2.170863e+02	1.123818e+03	-1.419540e+02
22	-1.886219e+03	1.934684e+01	4.325778e+02
23	1.028527e+03	1.514661e+02	7.864298e+02
24	1.618168e+02	1.029569e+03	4.225554e+02
25	5.049368e+02	-4.765684e+01	-1.259057e+03
26	8.343260e+02	2.138632e+02	-4.833655e+02
27	1.424551e+03	-7.346602e+02	1.233918e+03
28	2.405314e+03	6.581892e+02	-1.311290e+03
29	-1.608260e+03	-4.385827e+02	1.245492e+03
30	9.780605e+02	8.138203e+02	-3.581455e+02
31	-1.044091e+03	3.293844e+01	-1.821147e+02
32	1.008540e+03	8.436223e+02	1.824040e+02
33	6.606334e+02	4.481292e+03	-3.241576e+03
34	6.251525e+03	6.649959e+03	-3.777463e+01
35	-4.748140e+03	-2.070506e+03	5.677277e+03
36	-1.843077e+03	-4.860982e+03	-6.582587e+03
37	-2.209810e+03	-8.497313e+03	5.025599e+03

38	-2.899856e+03	3.232508e+03	-1.337369e+03
39	-3.250849e+03	-4.023451e+03	2.353867e+03
40	-6.916901e+03	-3.215040e+02	-2.109251e+03
41	-1.766781e+02	7.399551e+02	1.208733e+02
42	-8.144061e+02	-1.079426e+02	-8.631782e+02
43	7.680099e+02	-1.853973e+02	1.848252e+03
44	-2.493366e+02	-1.514271e+03	1.771494e+03
45	-1.022302e+03	3.359718e+02	-5.199594e+02
46	1.623614e+03	1.311921e+03	-1.678704e+03
47	3.526210e+03	1.822233e+03	-1.298759e+03
48	-1.455220e+03	-2.569497e+03	3.030548e+03
49	1.207165e+04	-3.771108e+03	-4.189526e+02
50	-1.332138e+03	7.291106e+02	3.220057e+03
51	-3.434848e+03	-7.401832e+03	3.724220e+02
52	1.076500e+03	1.053490e+03	8.457932e+02
53	-9.262555e+02	-3.476390e+02	-5.583855e+02
54	-2.665136e+02	-4.266819e+01	-1.803587e+02
55	-7.883784e+02	-1.492446e+03	7.271634e+02
56	-5.255899e+03	-5.804276e+03	-6.223167e+03
57	5.867334e+03	2.329288e+03	2.721970e+03
58	-8.831926e+02	2.118379e+03	5.543474e+02
59	4.373153e+03	-3.679033e+03	4.079349e+02
60	-2.667088e+03	7.403025e+03	6.527813e+03
61	1.466065e+03	2.973205e+03	1.434002e+03
62	4.384117e+03	-2.494243e+03	-1.127028e+03
63	-6.620162e+03	-6.021552e+03	-1.639250e+03
64	4.738022e+03	1.233368e+03	2.050915e+03
65	-3.348408e+03	3.030898e+03	-1.264277e+04
66	3.277909e+03	-3.554562e+03	-9.288810e+00
67	2.866692e+03	9.291921e+01	3.170126e+02

trajectory 19

atom	VX	VY	VZ
1	-1.829915e+02	-6.475507e+01	2.288869e+02
2	-1.419889e+03	-1.161223e+03	-6.668448e+02
3	-6.731481e+02	6.144487e+02	1.225560e+03
4	5.852604e+02	8.596592e+02	-8.767066e+01
5	-4.733368e+02	-6.803683e+02	3.819684e+02
6	-8.459302e+02	-3.490507e+03	2.541019e+03
7	2.685938e+03	5.320532e+03	7.918806e+03
8	-3.106814e+03	-4.831493e+03	-3.935929e+03
9	-8.100722e+02	1.226949e+01	-4.487040e+02
10	-1.241460e+03	-4.304717e+02	3.423273e+02
11	1.528255e+03	-1.274373e+03	7.091208e+02

12	9.903025e+03	5.037415e+03	-4.054647e+03
13	3.441630e+03	-3.762269e+02	5.813027e+03
14	5.729220e+02	-4.251677e+02	-4.168942e+01
15	1.176601e+03	-9.939709e+02	-7.942710e+02
16	-3.441307e+02	1.762618e+03	8.747580e+02
17	2.993169e+02	-2.774831e+02	8.613551e+01
18	8.744723e+02	-4.407871e+02	-3.224896e+01
19	-5.654551e+02	1.135230e+03	-8.914885e+02
20	-6.912259e+02	-1.309447e+03	1.116241e+03
21	-6.522664e+02	-1.645047e+02	9.691139e+01
22	1.458733e+03	2.213325e+01	-5.662034e+02
23	-2.398910e+02	3.578083e+02	-4.436186e+02
24	-9.212637e+02	3.794848e+02	9.347436e+01
25	1.550026e+03	5.243259e+02	-7.523309e+02
26	3.585388e+02	6.653231e+02	7.924727e+01
27	-1.069512e+03	1.489033e+03	6.134647e+02
28	1.517636e+02	3.593230e+02	3.122711e+02
29	-2.124075e+03	1.034654e+03	-7.283668e+02
30	3.413191e+02	2.721473e+02	-2.093991e+03
31	1.067030e+03	-1.473405e+03	1.318407e+03
32	9.306834e+02	-4.927138e+02	1.168467e+02
33	7.934791e+02	4.495964e+03	-6.151101e+03
34	-6.364523e+03	5.908737e+01	-1.460859e+03
35	-2.964625e+03	4.326272e+03	4.197706e+03
36	-2.222000e+03	7.688841e+03	4.669660e+03
37	1.725304e+03	-9.542780e+02	2.884814e+03
38	6.516147e+03	2.444767e+03	-1.893924e+03
39	-6.017832e+03	1.106591e+03	-7.116145e+03
40	2.735074e+03	-4.579551e+03	-6.042633e+01
41	2.158503e+01	2.295460e+02	-1.102287e+02
42	-1.447096e+02	1.240904e+03	8.104325e+01
43	-1.776748e+03	-1.534871e+03	5.719634e+02
44	5.975668e+02	1.004648e+03	2.289627e+02
45	1.074407e+03	7.349830e+01	-1.291496e+03
46	1.973221e+02	-1.331882e+03	-7.247662e+02
47	4.039404e+03	-5.023271e+03	4.426743e+03
48	-7.430841e+03	3.665688e+03	5.624224e+03
49	-3.884083e+03	2.658663e+03	-2.672902e+02
50	1.943780e+03	-5.252062e+03	1.899939e+03
51	4.527369e+03	-1.470576e+03	-3.167404e+03
52	-5.637345e+02	6.281191e+02	-8.899231e+02
53	2.852452e+02	3.250413e+02	1.312832e+03
54	-2.619335e+02	-7.833102e+02	-1.393391e+03
55	1.924446e+02	1.640768e+02	-1.828039e+02
56	8.952314e+03	3.457540e+03	5.311982e+03
57	2.518088e+02	9.814475e+02	-2.495351e+02

58	-8.528839e+02	-7.873484e+02	-1.376853e+03
59	5.323333e+03	-2.730354e+02	3.775770e+02
60	-8.277052e+03	-2.539551e+03	-7.932689e+03
61	7.395406e+03	3.526308e+03	1.481534e+03
62	4.559268e+03	5.795098e+03	-6.527267e+03
63	-3.633372e+03	-8.183748e+03	2.625903e+03
64	-5.097675e+03	-5.395648e+02	-2.426863e+03
65	2.490355e+03	1.839657e+03	1.130437e+03
66	-7.878352e+03	2.302861e+03	-8.746616e+03
67	-3.539027e+03	3.996558e+03	-7.834047e+02

trajectory 20

atom	VX	VY	VZ
1	-6.548094e+00	1.394994e+01	-1.418493e+02
2	6.721545e+02	4.325222e+02	-3.791045e+02
3	1.214513e+03	5.704624e+02	-1.606974e+03
4	1.026970e+02	-2.950422e+02	1.712345e+03
5	5.303840e+02	1.090917e+03	4.153181e+02
6	-8.447006e+03	-1.177523e+03	-4.410559e+02
7	-1.277880e+03	-4.980767e+03	-7.078508e+03
8	2.876303e+02	-7.203742e+02	-4.047342e+03
9	1.799220e+02	3.891714e+02	-2.377744e+02
10	1.414925e+03	-1.252365e+02	-9.667515e+02
11	6.530714e+02	6.595594e+01	-2.434146e+02
12	1.197805e+03	2.084636e+02	6.527580e+03
13	-8.226175e+03	-3.169843e+03	9.137100e+03
14	4.758856e+02	2.474631e+02	-6.893332e+02
15	5.105420e+02	-7.139837e+02	1.239833e+03
16	-4.024331e+01	-1.327681e+02	6.518805e+02
17	1.191615e+02	9.950978e+01	1.991245e+02
18	-4.278328e+02	-6.426752e+02	1.616531e+02
19	8.039583e+02	6.063290e+02	-1.489627e+03
20	1.059552e+03	-9.378271e+02	1.096839e+03
21	1.081871e+03	-3.047346e+02	-1.705409e+03
22	-6.065531e+02	-5.927733e+02	8.263967e+02
23	-2.293305e+03	6.999283e+02	-3.481455e+02
24	-1.400188e+03	2.661978e+02	9.698237e+02
25	1.247434e+03	6.058895e+02	1.394497e+02
26	5.333857e+01	8.161726e+02	-3.754675e+02
27	2.474554e+02	1.101511e+01	-4.674612e+02
28	-6.955660e+02	2.200301e+03	2.333598e+02
29	1.587857e+03	-1.192626e+03	6.075033e+02
30	-1.440600e+03	-3.161882e+02	-1.878022e+03
31	-1.605792e+03	-6.452469e+02	9.631700e+02

32	3.749812e+02	1.009813e+03	-3.723990e+02
33	-1.693198e+03	-6.902908e+03	3.752381e+03
34	3.254450e+03	1.043498e+02	2.652804e+03
35	3.614022e+03	-6.332990e+03	2.280352e+03
36	4.384288e+03	-6.709979e+02	3.413779e+03
37	-3.121917e+03	4.187530e+03	-5.136695e+03
38	6.517313e+03	-6.791341e+03	3.536762e+03
39	-7.078634e+03	1.320604e+03	-2.789190e+03
40	-4.719583e+03	6.798936e+02	3.072763e+03
41	8.165646e+02	-1.636164e+03	2.695087e+02
42	-1.022054e+03	-6.598529e+02	-3.852334e+02
43	1.978268e+02	-1.688638e+02	-1.015354e+03
44	-1.808412e+03	1.409901e+03	3.275022e+02
45	-7.831896e+02	8.314875e+02	-1.329879e+02
46	4.882453e+02	3.632719e+02	3.672120e+02
47	6.232810e+03	-8.653006e+03	4.438704e+03
48	-2.066419e+03	5.429861e+03	2.082940e+03
49	6.800245e+03	-5.228984e+02	4.504080e+03
50	2.122172e+03	-4.129388e+03	-7.692745e+02
51	-1.493981e+02	-4.100446e+03	7.852577e+02
52	-4.864332e+02	-5.147914e+02	-6.154751e+01
53	-9.147036e+01	1.164419e+03	2.604604e+02
54	7.611620e+02	-1.165971e+03	4.412032e+02
55	-1.539803e+01	-4.407168e+02	-1.319010e+02
56	-4.699739e+03	9.467080e+03	4.583979e+03
57	-1.728370e+03	1.601678e+03	-1.473824e+03
58	-6.500649e+03	-2.370833e+03	8.606377e+03
59	-5.104704e+03	-2.238403e+03	-1.139973e+03
60	-5.246307e+03	-8.678298e+03	-2.375078e+03
61	-2.427204e+03	-9.907941e+02	-4.717618e+03
62	2.823692e+03	2.788170e+03	-6.756078e+03
63	-5.065810e+03	-5.885367e+03	-3.648202e+03
64	-3.533694e+03	2.266407e+03	-1.921532e+03
65	-4.042767e+03	7.735779e+03	-3.616129e+03
66	5.935769e+03	-7.061870e+03	-1.014135e+03
67	4.326124e+03	2.696084e+02	-1.735190e+03

trajectory 20

atom	VX	VY	VZ
1	3.724290e+01	-3.116398e+02	3.100590e+02
2	-1.723303e+02	-3.796381e+02	-2.425850e+02
3	5.453431e+02	-1.958234e+03	1.164231e+03
4	-8.061200e+02	6.601681e+02	1.746669e+02
5	2.012543e+03	-6.069647e+02	7.960191e+02

6	-1.734564e+03	-4.917844e+03	-1.962957e+03
7	-2.248481e+03	3.142866e+03	8.204964e+03
8	-4.276205e+03	-9.467842e+02	-5.313547e+02
9	-6.371223e+02	3.214221e+01	-8.939908e+02
10	-8.908834e+02	-8.157215e+01	1.015130e+02
11	3.501582e+02	-6.459591e+02	8.542789e+02
12	-2.761655e+03	2.805390e+03	-9.904659e+03
13	4.859571e+03	-2.498584e+03	2.141069e+03
14	-4.050203e+02	3.726002e+01	1.198094e+02
15	1.604765e+03	3.811687e+02	-1.359862e+03
16	-5.562584e+01	2.443368e+02	-9.419393e+01
17	-4.831218e+01	6.891491e+00	-5.138812e+01
18	-2.551885e+02	-6.946640e+02	8.102079e+02
19	-4.828361e+02	1.872869e+03	-8.576103e+02
20	-9.535534e+01	-1.249236e+03	4.370653e+02
21	-5.069971e+02	9.652845e+02	6.769392e+02
22	-1.774434e+02	-1.676113e+03	-5.630819e+02
23	2.218784e+02	1.441859e+03	3.754869e+02
24	-3.554319e+02	-5.881030e+02	-9.768376e+02
25	2.310979e+03	-1.120930e+02	-1.518071e+03
26	2.379181e+01	6.064639e+02	-3.618924e+02
27	2.489794e+02	-3.680699e+02	-1.750435e+03
28	1.538180e+03	7.431386e+02	1.083432e+03
29	-1.768414e+03	-3.618923e+02	2.232253e+02
30	-4.955285e+02	2.300513e+02	1.283176e+03
31	-9.511258e+02	5.017237e+02	-9.226544e+02
32	-1.374924e+03	3.290140e+02	8.497473e+02
33	9.608828e+01	8.549382e+03	-3.966056e+03
34	-1.773016e+03	-2.871553e+03	3.417061e+03
35	-3.334878e+02	-2.611183e+02	-5.239088e+03
36	2.181019e+03	1.033768e+03	8.919704e+03
37	2.796794e+03	2.134487e+03	-5.189737e+03
38	2.101435e+03	-9.611205e+03	3.575927e+03
39	-3.015987e+03	-1.014801e+02	-5.865227e+03
40	5.678444e+03	-3.929998e+03	6.865680e+02
41	1.431785e+03	-1.011288e+02	9.535625e+01
42	-1.298967e+03	-3.979979e+02	-5.298721e+02
43	7.054574e+02	1.458333e+03	-9.400266e+02
44	-1.237546e+03	-9.594234e+02	-1.537296e+02
45	7.933816e+02	1.603553e+03	-5.665842e+02
46	-9.774621e+02	-5.850665e+02	-3.783427e+02
47	7.136224e+03	-4.498333e+03	3.680353e+03
48	-3.094196e+03	1.569300e+03	-2.708194e+03
49	4.664871e+03	2.588835e+03	2.838047e+03
50	1.891430e+03	-8.742948e+03	5.246994e+03
51	4.160315e+03	2.045448e+03	-3.594424e+03

52	6.004028e+02	1.527297e+03	3.085181e+02
53	1.793664e+03	6.568039e+02	-6.476928e+02
54	-4.575510e+01	-1.117206e+03	5.840263e+02
55	9.768702e+02	8.565848e+02	8.202730e+02
56	-3.722739e+03	-6.665403e+02	-1.953818e+02
57	2.717434e+03	-4.642082e+03	-5.475303e+03
58	1.034189e+03	-1.578203e+03	8.284465e+03
59	-8.820339e+03	-3.340568e+02	5.310293e+03
60	-4.609685e+03	1.739171e+03	-4.399632e+03
61	-9.117281e+02	1.472409e+03	1.879690e+03
62	-7.746723e+03	6.727276e+03	-4.807227e+03
63	1.812528e+03	4.165077e+03	-6.008398e+03
64	4.956693e+03	1.441952e+03	1.986061e+03
65	-1.966542e+03	-6.182024e+02	-8.738775e+02
66	-1.195739e+04	3.528785e+03	-8.049247e+02
67	-4.207919e+02	1.691103e+03	1.697693e+03

trajectory 21

atom	VX	VY	VZ
1	2.000250e+02	1.094295e+02	-2.240590e+02
2	-1.165988e+03	-2.403353e+02	-2.582684e+02
3	-9.285608e+02	1.199538e+03	1.518039e+03
4	-2.148195e+02	-1.947654e+01	-9.840031e+02
5	2.937740e+01	-3.051486e+02	1.074865e+03
6	-6.401313e+02	4.187546e+02	-2.641613e+03
7	3.380813e+03	-5.529283e+03	4.105171e+03
8	-7.855834e+03	4.686936e+03	-7.967164e+03
9	8.289725e+02	-4.371608e+02	1.035969e+02
10	1.768493e+03	7.883138e+02	-1.419655e+03
11	-1.529767e+03	1.601030e+03	7.930948e+02
12	-1.307465e+03	-3.883081e+03	-3.386130e+02
13	-8.169145e+03	-6.109124e+03	-5.965094e+02
14	-2.435517e+02	-2.872500e+02	1.599153e+02
15	-1.684547e+03	-5.405106e+02	-7.536356e+02
16	3.186089e+02	4.732705e+02	2.360807e+02
17	-1.835878e+02	6.878135e+01	-8.981054e+01
18	1.185950e+03	1.194486e+02	1.007378e+03
19	7.549719e+02	-4.065106e+02	-6.235909e+01
20	-5.850115e+02	-1.112973e+03	2.120624e+02
21	1.458911e+02	8.826170e+02	-1.376578e+03
22	-1.195377e+03	2.422572e+02	6.626303e+02
23	1.431175e+03	8.198144e+02	-5.342373e+02
24	-1.871105e+02	-3.814935e+02	1.193425e+03
25	1.553284e+02	-2.337901e+02	-8.481018e+02

26	3.925148e+02	6.156677e+02	3.159384e+02
27	5.865003e+01	-2.802405e+02	-2.080059e+02
28	-6.908319e+02	1.419226e+03	-2.443962e+02
29	4.295894e+01	-1.201395e+03	1.347030e+03
30	2.117139e+03	2.209626e+02	6.121752e+02
31	-1.291827e+03	-9.771427e+02	-1.158667e+03
32	-1.491080e+03	-2.368780e+02	3.516763e+02
33	6.843398e+03	3.705970e+03	-2.429165e+03
34	7.106177e+03	3.252000e+03	3.886512e+02
35	-7.271562e+02	4.011665e+03	8.319049e+02
36	-1.152453e+03	-6.326518e+03	-5.367415e+03
37	-3.432099e+02	5.433006e+03	-3.271449e+03
38	8.140634e+02	2.030251e+03	-2.619790e+03
39	7.426575e+02	-3.323711e+02	-3.601714e+03
40	4.758731e+03	-5.121633e+03	-3.748601e+03
41	6.044489e+02	-1.130614e+03	2.265073e+02
42	3.115551e+02	2.235474e+03	-1.459111e+03
43	2.738009e+02	-2.137028e+03	1.334123e+03
44	2.531226e+02	-5.724007e+02	7.584845e+02
45	-2.423975e+02	2.807534e+02	-9.573903e+02
46	5.066148e+02	7.867791e+02	-3.334601e+02
47	-2.754255e+03	-3.117042e+03	3.386509e+03
48	-6.881596e+03	-2.873269e+03	-1.826872e+03
49	-1.332367e+03	6.413976e+03	8.475711e+02
50	-7.550880e+03	-4.541673e+03	3.187784e+03
51	5.362267e+03	4.858769e+03	7.835082e+01
52	2.545496e+02	-7.119893e+02	-4.390398e+02
53	1.420269e+03	7.297912e+00	8.920235e+02
54	4.701092e+01	1.229366e+03	7.490992e+02
55	3.217223e+01	-2.028006e+03	1.272839e+03
56	-1.463263e+03	3.018682e+03	6.558329e+03
57	-5.173330e+02	5.460797e+02	-7.991519e+02
58	-9.784876e+03	1.836598e+03	5.539617e+03
59	-7.118922e+03	2.492158e+03	-1.770785e+03
60	5.316875e+03	-7.873095e+03	-6.428427e+03
61	-2.152310e+03	-1.252768e+03	3.220362e+02
62	1.166902e+03	-2.031719e+03	5.959152e+02
63	-6.323291e+03	-8.035009e+03	2.105999e+03
64	-6.847104e+02	-9.963101e+03	1.700212e+03
65	-4.488847e+03	-6.826692e+02	1.890761e+03
66	-2.707580e+03	-1.575795e+03	-2.238123e+03
67	6.931421e+03	9.478528e+03	-2.137645e+02

trajectory 21

atom	VX	VY	VZ
1	1.215831e+02	3.385858e+02	-2.018848e+02
2	4.808733e+02	1.208963e+03	-5.385281e+00
3	-3.207039e+01	1.286841e+03	-1.210370e+03
4	4.834577e+02	-2.095278e+02	6.225561e+02
5	3.968005e+02	-1.056464e+03	-4.987180e+02
6	-6.594518e+03	-1.595394e+03	8.837122e+03
7	-7.801823e+02	-9.076172e+01	3.134761e+03
8	-1.503165e+03	5.182421e+03	4.688471e+02
9	-6.764949e+02	6.049069e+02	6.140491e+02
10	-3.386599e+02	-1.082595e+03	1.407276e+02
11	5.476404e+01	-4.956148e+02	7.611006e+02
12	6.142022e+03	-3.020048e+02	-4.272222e+03
13	-5.590763e+02	7.074451e+03	6.292483e+02
14	7.098169e+02	-2.535601e+02	-4.443883e+02
15	-1.202043e+03	8.393661e+02	-9.876525e+02
16	-4.796926e+02	-9.280358e+02	-5.178099e+02
17	5.810728e+01	-4.149668e+02	1.325890e+02
18	5.955778e+02	-9.063468e+02	1.111007e+03
19	-2.773094e+03	-1.190747e+02	-8.161982e+02
20	-2.043051e+02	-1.339584e+03	-1.075337e+02
21	-3.777400e+02	1.419979e+03	-9.722063e+02
22	7.534444e+02	-1.159738e+03	1.086305e+03
23	1.393515e+02	-1.796887e+01	1.527140e+02
24	-8.973430e+02	3.340611e+02	9.103766e+01
25	1.273342e+03	-3.157845e+02	3.186754e+02
26	2.754705e+02	-5.399642e+01	8.440622e+01
27	5.134542e+01	1.195624e+03	-4.984671e+02
28	1.324457e+02	-3.168196e+02	-7.342500e+01
29	2.126476e+03	-3.639717e+02	-1.123347e+03
30	-5.772481e+02	1.646491e+03	1.291098e+03
31	1.718928e+03	-2.101423e+01	-2.125056e+02
32	4.231656e+02	2.656415e+02	-4.249757e+02
33	-8.102226e+03	-5.809444e+03	1.441518e+03
34	-8.371880e+03	-2.899331e+03	-3.074192e+03
35	-2.570691e+03	-6.146658e+03	-4.085755e+03
36	-4.808990e+03	4.284668e+02	-8.952568e+02
37	-2.509701e+03	-6.730581e+03	8.448241e+02
38	7.136168e+03	-1.904716e+02	2.223707e+03
39	-1.389010e+03	3.197084e+03	-7.731149e+02
40	-5.307719e+03	2.621384e+03	1.228686e+03
41	-4.466921e+02	-8.570444e+02	5.129761e+02
42	1.296876e+03	-4.276992e+01	-1.179598e+03
43	8.059129e+02	1.013927e+03	6.083036e+02
44	4.912092e+01	-7.295354e+02	-1.532310e+03
45	-2.727592e+03	9.323908e+02	-1.535785e+02

46	-1.118428e+02	-2.749589e+02	9.448440e+02
47	5.225368e+03	5.095421e+03	-1.159227e+03
48	-7.349329e+02	-1.185105e+03	1.149275e+03
49	7.894686e+03	4.207610e+03	6.595876e+02
50	3.638288e+03	3.912228e+02	1.619826e+03
51	-9.302298e+03	-7.356368e+03	5.212454e+03
52	-1.308584e+03	-3.273786e+02	7.913453e+02
53	5.136307e+02	5.677394e+02	5.216373e+02
54	7.703921e+02	1.347329e+03	5.741361e+02
55	-1.783973e+02	6.955098e+02	1.569255e+03
56	-1.136022e+03	-2.512155e+03	-4.042476e+03
57	4.977727e+03	2.722344e+03	-1.084852e+03
58	4.805178e+03	2.930702e+03	-6.229302e+03
59	-4.323347e+02	-2.036076e+03	-6.715303e+03
60	-1.852250e+03	-6.689622e+02	-1.556431e+03
61	-6.936505e+03	-2.284421e+03	-7.631037e+03
62	-1.723358e+03	-5.458070e+03	-9.288767e+02
63	-7.902653e+03	-6.354074e+03	2.399746e+03
64	3.281868e+03	-8.319621e+02	6.062430e+03
65	-2.563491e+02	9.274440e+03	-4.101700e+03
66	8.950611e+02	-1.959823e+03	7.423416e+03
67	3.605731e+03	-5.205224e+03	-4.582149e+03

trajectory 22

atom	VX	VY	VZ
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trajectory 22

atom	VX	VY	VZ
1	-4.392040e+02	-2.149992e+02	-8.373153e+01
2	1.079481e+03	2.648864e+01	2.136722e+02
3	-5.015000e+02	1.355551e+03	1.367894e+03
4	3.536210e+02	-1.283740e+03	4.915462e+02
5	6.054912e+02	1.427683e+03	-7.821104e+02
6	-3.413888e+03	1.082610e+03	-7.395915e+03
7	9.957699e+02	-3.510810e+03	7.012491e+02
8	-8.856945e+03	1.074099e+03	-7.008205e+03
9	3.040973e+02	6.450077e+02	-1.834351e+02
10	8.182205e+02	-1.104963e+03	8.324869e+02
11	2.617129e+02	-1.468838e+02	1.875337e+03
12	-3.983908e+03	2.736655e+03	6.678493e+02
13	5.864544e+02	6.075940e+03	-2.361296e+03
14	-1.140330e+03	-2.151327e+02	9.278953e+02

15	1.599803e+03	1.400755e+03	-6.518117e+02
16	-1.846020e+02	-5.802426e+02	1.938918e+02
17	9.151173e+01	-2.107725e+02	3.234006e+02
18	1.523216e+02	7.571460e+02	-8.771410e+02
19	9.190473e+02	1.230873e+02	2.346261e+03
20	-4.138392e+02	1.711453e+01	-4.064553e+02
21	6.122415e+02	-1.424325e+02	3.839490e+02
22	-1.452274e+03	-5.863317e+01	-1.885395e+03
23	1.074617e+03	1.946137e+02	-7.799645e+02
24	8.593331e+01	-8.766342e+02	-1.442572e+02
25	-2.410169e+01	8.175371e+02	-6.019864e+02
26	-9.383985e+02	4.301746e+02	1.522954e+03
27	6.111961e+02	-5.107591e+02	-7.594419e+02
28	-2.078583e+02	-6.218025e+02	7.293718e+02
29	6.110877e+00	-1.425958e+03	-9.461744e+02
30	1.749803e+03	9.125472e+02	-5.340962e+02
31	-1.998930e+03	-5.425993e+01	2.354716e+02
32	3.875063e+02	-7.692868e+02	-1.058142e+03
33	-2.219974e+03	4.476024e+03	4.643105e+03
34	3.713228e+03	4.444598e+03	-2.416538e+03
35	1.503312e+03	-6.239886e+02	8.361029e+03
36	-2.291482e+03	-2.531655e+03	-6.143345e+03
37	-4.233656e+03	-4.361091e+03	3.798615e+03
38	3.975709e+03	7.579434e+03	-6.820693e+03
39	1.228530e+02	2.738626e+03	-7.044089e+03
40	-1.702682e+03	4.097155e+03	3.589324e+03
41	-5.301453e+02	2.160924e+02	-1.150690e+02
42	7.809718e+02	2.780111e+02	5.085806e+02
43	-4.937374e+02	3.397563e+02	-4.565957e+01
44	1.297990e+03	7.654137e+02	-1.217460e+01
45	-1.023178e+03	1.085986e+03	-1.013687e+03
46	-1.470787e+03	-7.970666e+02	7.834549e+01
47	-6.543876e+02	-1.116705e+04	9.308796e+02
48	-1.709532e+03	1.849433e+02	4.464685e+03
49	7.820013e+03	-5.703323e+03	3.821978e+03
50	7.505820e+03	-2.353247e+03	9.354517e+02
51	-1.871242e+03	-1.314262e+03	6.114056e+03
52	4.270873e+02	8.157631e+02	-6.059840e+02
53	1.387185e+03	1.306641e+03	-1.197648e+03
54	-1.259204e+03	-2.028483e+02	-1.720944e+03
55	5.617618e+02	-1.413402e+03	-6.009525e+02
56	-4.093165e+03	-2.949904e+02	2.033132e+03
57	-5.526566e+02	-2.678488e+03	2.003142e+03
58	6.120647e+03	3.058858e+03	-9.504747e+03
59	-1.914599e+03	-2.041166e+03	1.105164e+03
60	-4.098471e+03	5.100332e+03	6.539237e+03

61	-7.324881e+03	1.191820e+03	2.655488e+02
62	2.827296e+03	2.007106e+03	9.346577e+03
63	2.751721e+03	3.054080e+03	1.898885e+03
64	2.448268e+03	-2.093873e+02	1.028242e+03
65	-4.137190e+03	4.903892e+03	-7.167232e+03
66	3.212922e+03	-4.994156e+03	3.365679e+03
67	4.412921e+03	3.360980e+03	-4.388604e+02

trajectory 23

atom	VX	VY	VZ
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trajectory 23

atom	VX	VY	VZ
1	-2.242270e+02	8.789613e+00	3.919133e+01
2	2.158157e+03	4.356018e+02	4.340568e+02
3	9.449584e+02	-1.640199e+03	-4.582040e+02
4	6.179835e+02	1.521297e+03	1.464465e+02
5	6.537866e+02	-7.717021e+02	-6.770608e+02
6	-7.714738e+03	-4.774916e+03	5.307143e+03
7	3.894456e+03	4.476395e+03	-9.301717e+02
8	3.720666e+03	-3.666129e+03	-1.824943e+03
9	-3.476536e+02	2.629128e+02	9.887742e+02
10	-1.814747e+03	-3.728929e+02	2.683809e+02
11	-3.999245e+01	-8.215544e+02	-1.050879e+03
12	1.445071e+02	4.357073e+03	3.923984e+02
13	1.342026e+03	4.785922e+03	-6.844730e+03
14	5.853068e+02	2.478349e+02	-9.041698e+02
15	-1.472205e+02	-1.758922e+02	1.035163e+03
16	-3.587751e+02	1.741071e+02	-4.242701e+02
17	6.466323e+01	-3.035354e+02	-4.082203e+01
18	-1.403247e+03	7.582928e+02	1.309644e+02
19	1.901601e+03	-1.381691e+03	1.002680e+03
20	6.197559e+02	7.398433e+02	7.276608e+02
21	5.007430e+02	1.061108e+03	7.889972e+01
22	-7.365342e+00	5.203477e+02	-8.520569e+02
23	-1.033260e+03	-5.991706e+02	8.520745e+02
24	-1.211667e+03	-3.430418e+02	4.485300e+02
25	1.318238e+02	1.288715e+03	-5.853597e+02
26	5.833184e+01	-7.846580e+02	-7.049162e+02
27	1.085610e+03	-1.269020e+03	8.643821e+02
28	3.682530e+02	-3.301458e+02	-5.105083e+02
29	-1.118927e+03	-1.432428e+02	1.127041e+03

30	6.018266e+02	1.509321e+03	4.406952e+02
31	-8.478699e+02	8.033237e+02	-5.678297e+02
32	2.918825e+02	2.428997e+02	-3.350702e+02
33	2.170838e+03	-2.780646e+03	6.236027e+02
34	-4.219669e+03	-7.598145e+03	2.370870e+03
35	1.167029e+04	-1.329368e+03	-8.874164e+02
36	-2.204215e+03	1.861658e+02	-2.775662e+03
37	-8.913043e+02	4.619295e+03	-2.580533e+02
38	-6.719801e+03	-4.547252e+03	2.970210e+03
39	7.377002e+03	-1.267117e+03	3.401942e+03
40	-4.246917e+03	2.906473e+03	-1.041309e+03
41	-1.971302e+02	1.390339e+03	1.982743e+03
42	-1.440432e+03	-1.093187e+03	2.099364e+02
43	2.899787e+02	1.630715e+03	-3.694240e+02
44	7.477475e+02	1.672866e+03	-1.095007e+03
45	-8.023777e+01	-1.518859e+03	1.447661e+02
46	6.438122e+02	4.728896e+02	8.286289e+01
47	-7.139627e+03	2.632125e+03	-3.532673e+03
48	-4.205316e+03	-1.366988e+03	1.144687e+03
49	2.019347e+03	-8.059248e+03	2.300657e+03
50	6.924887e+03	-7.784818e+03	8.215741e+03
51	3.542299e+03	-3.204547e+03	-1.247567e+03
52	1.141996e+03	1.039762e+03	-1.499523e+03
53	3.743912e+02	1.909889e+02	4.588760e+02
54	-1.030820e+03	3.024832e+02	-1.191304e+02
55	4.992804e+02	-1.515036e+01	-9.326689e+02
56	5.142107e+02	4.902283e+03	-7.624292e+01
57	-4.340090e+03	1.203374e+03	-3.108277e+03
58	-8.193286e+03	-8.783899e+03	6.878759e+02
59	-7.277468e+03	4.069127e+02	8.113610e+03
60	4.489517e+03	1.179951e+03	-3.186549e+03
61	-1.494894e+02	-3.157726e+03	-9.576102e+02
62	-1.791289e+03	-4.053831e+03	-1.005747e+03
63	-6.378707e+03	-6.542232e+03	-4.317113e+03
64	4.680598e+03	2.205776e+03	1.869644e+03
65	4.897472e+03	3.029509e+02	-3.222209e+03
66	-5.512734e+03	-5.289203e+03	-1.132158e+04
67	3.381280e+02	-1.505904e+03	-3.856274e+01

trajectory 24

atom	VX	VY	VZ
1	3.732605e+02	1.288021e+02	1.047822e+02
2	-6.776305e+02	-6.837222e+02	1.124867e+03
3	-4.869425e+02	1.171951e+03	-4.160668e+02

4	5.897018e+02	1.642375e+02	-7.352454e+02
5	2.548986e+02	1.029100e+03	-5.732959e+02
6	-2.052780e+03	-2.380538e+03	-1.130717e+03
7	-7.911320e+03	4.320121e+03	-3.654079e+03
8	6.960685e+03	2.776725e+03	6.630110e+03
9	2.684295e+02	2.729716e+02	1.658909e+03
10	-3.829930e+02	6.583908e+01	-8.432530e+02
11	-3.975531e+02	1.359491e+02	1.043459e+03
12	2.312801e+03	2.032874e+03	-1.636000e+03
13	5.469291e+03	7.793122e+03	-1.447959e+03
14	-6.331212e+02	7.372556e+01	-1.302831e+03
15	7.787274e+02	-8.671307e+02	-9.781023e+02
16	-4.608478e+02	1.181111e+02	3.715924e+02
17	7.813509e+01	-1.161026e+02	2.833221e+02
18	-6.212196e+02	4.765259e+02	4.521673e+02
19	1.473696e+03	-1.176038e+03	-1.073093e+03
20	3.790161e+02	-7.220132e+00	-2.719298e+02
21	-3.425935e+01	-1.692433e+02	-8.769419e+02
22	1.296446e+02	-9.883174e+02	-6.261036e+02
23	7.702144e+02	3.027374e+02	-5.330189e+02
24	-6.984945e+02	-1.096211e+03	4.288796e+02
25	6.155573e+02	5.049780e+02	-1.498283e+03
26	-3.437872e+01	-3.655440e+02	4.004812e+01
27	9.316543e+02	4.005161e+02	3.088823e+01
28	-1.126095e+03	1.102617e+03	-5.446063e+02
29	6.754810e+02	-1.567596e+03	6.026128e+02
30	6.399398e+02	4.215942e+02	1.219707e+02
31	1.747189e+02	4.233090e+02	-8.678971e+00
32	4.441492e+02	-5.725331e+02	9.105868e+02
33	-1.726696e+03	2.472288e+03	-6.927915e+02
34	8.609692e+03	5.210605e+02	-3.824282e+03
35	-3.131145e+03	-8.966155e+03	-4.957713e+03
36	-4.394231e+03	-1.691892e+02	-1.127649e+03
37	-1.387637e+03	5.434539e+03	5.564930e+03
38	-4.389164e+03	-4.181646e+03	3.336661e+03
39	-6.653628e+03	-5.250389e+03	3.584168e+02
40	-4.236184e+03	8.264254e+03	-4.357010e+03
41	-1.431362e+03	7.172438e+02	-1.549876e+03
42	-1.029698e+03	-1.833968e+02	7.576825e+02
43	6.887495e+02	-1.727411e+03	1.309385e+02
44	-8.204128e+02	-8.715577e+02	2.640498e+02
45	-1.042942e+03	1.889292e+03	3.164227e+02
46	6.590763e+02	-7.098166e+02	-6.157004e+02
47	-8.711391e+03	1.662980e+03	2.627656e+03
48	-7.098229e+03	6.178485e+02	6.945930e+02
49	1.154217e+04	-3.507304e+03	-4.000384e+03

50	-1.385012e+03	-3.373590e+03	-5.861493e+03
51	-4.726715e+03	-1.505082e+03	3.009661e+03
52	-1.416626e+03	3.157347e+02	2.804863e+02
53	-5.249603e+02	-7.178706e+02	5.539695e+02
54	-1.713936e+02	1.784400e+03	1.169299e+03
55	-9.331352e+02	-2.042068e+02	1.586496e+03
56	-5.062883e+03	1.565648e+03	-2.024958e+03
57	-6.589577e+01	2.417231e+03	-4.685708e+03
58	9.993911e+03	3.992063e+03	-2.560142e+03
59	2.229077e+03	-1.805336e+03	-2.150518e+03
60	-3.665889e+03	-4.396770e+03	-7.196198e+03
61	6.172190e+03	4.547002e+03	1.725317e+02
62	-4.621249e+03	-2.929416e+03	-1.682714e+03
63	4.667061e+03	-3.653699e+02	-3.249298e+03
64	8.668497e+03	-9.173346e+03	-6.902445e+02
65	-3.798556e+03	9.687634e+03	1.778699e+03
66	1.818945e+03	-2.514275e+03	3.641529e+03
67	3.420415e+03	-1.597795e+03	-2.702167e+02

trajectory 25

atom	VX	VY	VZ
1	-2.364937e+02	2.224805e+02	-2.764167e+02
2	-3.268056e+02	-8.140391e+02	1.548291e+03
3	-1.603765e+02	-1.140265e+03	-1.614390e+03
4	2.374098e+02	1.526670e+03	1.399306e+03
5	-7.257045e+02	5.671893e+02	-1.397085e+03
6	-9.890149e+02	-5.023535e+03	-7.324761e+02
7	-1.420153e+03	3.620822e+02	3.614482e+03
8	6.917071e+03	6.718471e+03	2.444821e+03
9	-3.797019e+02	-1.511768e+02	-2.378381e+02
10	-1.182850e+03	-4.095463e+02	7.222922e+02
11	7.843371e+01	3.590372e+02	-1.303891e+03
12	-5.742667e+02	-3.188066e+03	7.175068e+03
13	-3.258378e+03	2.694383e+03	-2.051185e+03
14	9.229343e+02	-2.920991e+02	6.390624e-01
15	-7.604026e+02	4.304010e+02	1.045279e+03
16	-1.446383e+03	5.204343e+02	5.088334e+02
17	1.484852e+02	-2.778307e+02	-2.123696e+01
18	-3.120623e+02	-7.852818e+02	-1.602080e+01
19	1.476653e+03	3.276381e+02	-4.034205e+02
20	-3.238924e+02	-2.073140e+02	1.863451e+01
21	-3.001119e+02	7.379998e+02	7.548849e+01
22	-3.569542e+02	1.272112e+03	1.115742e+03
23	1.369245e+02	-9.004378e+02	1.508981e+02

24	-1.775898e+02	-1.423939e+02	-1.072509e+02
25	1.408542e+03	2.190470e+03	8.526716e+02
26	1.230925e+02	2.328202e+02	-2.298887e+02
27	6.929225e+01	1.296923e+02	-2.198219e+02
28	1.310818e+03	4.155689e+02	3.716879e+01
29	-1.915610e+03	-3.249203e+02	-8.143473e+02
30	6.623706e+02	1.476734e+03	5.240847e+02
31	-6.643320e+02	-1.969515e+03	1.286224e+03
32	-8.647078e+02	1.412790e+03	-1.989856e+01
33	-4.565244e+03	1.450694e+03	-5.419690e+03
34	8.915531e+03	-1.312998e+02	3.051303e+03
35	1.955153e+03	-7.668456e+03	-1.275816e+03
36	2.384748e+03	-4.062117e+03	-5.587006e+03
37	5.979484e+03	-8.358401e+02	2.112594e+03
38	1.139141e+04	2.453345e+03	1.459471e+03
39	-4.931470e+02	1.777466e+03	-3.334646e+03
40	-5.035431e+03	3.978402e+03	8.784914e+02
41	-3.811068e+02	-6.456819e+02	5.389623e+02
42	-1.418410e+02	-8.811897e+02	9.871820e+02
43	1.164144e+03	-7.547687e+01	5.727418e+02
44	1.242781e+02	-8.803894e+02	1.701733e+02
45	-4.163347e+02	2.238868e+03	-5.908481e+02
46	-2.233586e+02	-1.052472e+03	-8.577171e+02
47	7.527650e+03	5.096258e+03	-8.762235e+02
48	-3.223509e+03	-5.439015e+03	2.306874e+03
49	5.487458e+03	-4.085177e+03	1.453260e+03
50	3.118089e+03	-8.225372e+03	-1.352836e+02
51	-4.554894e+02	6.301654e+03	-1.112645e+03
52	2.376210e+03	-1.253076e+03	1.263088e+03
53	-1.007008e+03	3.546687e+02	-2.328379e+03
54	1.527610e+03	-8.455914e+02	-1.517465e+03
55	3.151148e+02	8.090198e+02	2.664516e+02
56	-6.557746e+02	-6.747879e+02	-6.504770e+02
57	-1.060314e+04	5.662617e+03	2.008632e+03
58	-2.088917e+02	-5.624886e+03	3.216285e+03
59	-9.086577e+02	-2.322581e+03	1.040623e+04
60	2.203628e+03	-3.284304e+02	-3.126175e+03
61	-3.400986e+03	-1.490867e+03	2.116803e+03
62	7.244448e+01	-1.019580e+03	-1.130574e+03
63	2.726522e+03	-3.377562e+03	-4.631002e+03
64	-1.025062e+04	7.187384e+02	-1.278340e+03
65	7.522297e+03	-7.986320e+03	4.911877e+02
66	6.338743e+02	4.098043e+02	-5.048672e+03
67	-4.172537e+03	7.813325e+02	8.796359e+02

trajectory 26

atom	VX	VY	VZ
1	4.295020e+02	-1.557498e+02	-2.805457e+00
2	5.763876e+02	4.804231e+01	2.912029e+01
3	-2.553669e+02	-9.164160e+01	2.448130e+02
4	7.614611e+02	1.305078e+03	1.061532e+03
5	1.371016e+03	-9.136479e+02	-5.686609e+02
6	-1.291908e+02	-1.803001e+03	3.227929e+03
7	-4.462944e+03	6.264781e+03	1.772698e+03
8	-5.908300e+03	3.930448e+03	-5.025649e+03
9	-2.732949e+02	1.015264e+02	-1.671695e+03
10	1.247320e+03	-5.827343e+02	-9.545680e+01
11	-1.573856e+02	-1.035182e+03	5.756423e+02
12	-3.137673e+03	-9.252145e+03	2.874317e+03
13	-1.978285e+03	3.275322e+03	-3.037261e+02
14	-5.217228e+02	2.720739e+02	1.601512e+03
15	2.530093e+01	4.081451e+02	-7.687321e+02
16	5.353815e+02	2.090054e+02	-2.143264e+02
17	-5.985802e+01	4.746760e+01	-2.072148e+02
18	5.191456e+02	4.402603e+02	-8.811501e+02
19	-1.514684e+03	-2.171359e+02	8.574007e+02
20	1.360811e+03	-7.859956e+02	-5.527721e+02
21	-1.250902e+03	1.889008e+02	-9.257785e+01
22	2.137681e+02	-7.348558e+01	3.294544e+02
23	7.854983e+02	5.788744e+00	7.045246e+02
24	9.427818e+02	-1.416304e+03	-2.627343e+02
25	-1.290315e+03	4.581965e+02	2.085933e+03
26	1.023131e+03	-5.881423e+02	-7.978246e+02
27	-2.342035e+02	-8.251940e+02	-1.781824e+02
28	-3.017436e+02	1.141242e+03	1.270641e+03
29	8.120707e+02	-4.903897e+02	-1.302325e+03
30	-1.204792e+03	-3.463121e+02	-6.186045e+02
31	5.813114e+02	-8.965498e+01	6.919159e+02
32	-4.063558e+02	3.112170e+02	-7.963234e+02
33	-2.925416e+03	6.062224e+03	2.353763e+03
34	8.646049e+03	1.324794e+03	-2.264222e+03
35	-5.953684e+03	3.510204e+03	4.184821e+03
36	2.726442e+03	3.137171e+03	1.428877e+03
37	3.440771e+03	-5.912852e+03	3.190036e+03
38	-3.059210e+03	8.591238e+02	-1.853841e+03
39	-5.932079e+03	-2.263871e+02	-3.158622e+03
40	-4.098658e+03	8.744367e+02	1.286796e+04
41	2.386131e+02	1.689746e+03	-5.930267e+02
42	-2.723158e+03	1.953635e+03	-1.190018e+02
43	-5.630851e+02	-4.060146e+02	1.750314e+03

44	-1.484038e+02	-7.776526e+02	3.905546e+02
45	-8.359256e+02	-3.566936e+02	-1.194678e+03
46	2.064973e+03	-1.123707e+03	-8.086442e+01
47	-1.154603e+03	-3.136935e+03	9.433110e+02
48	5.066310e+03	4.424135e+03	-2.373955e+03
49	-6.102433e+03	1.590960e+03	6.058196e+02
50	1.218235e+03	1.086341e+04	-1.357723e+03
51	-3.498619e+03	2.639994e+03	4.934594e+03
52	-1.664484e+03	-1.354464e+02	-1.077112e+03
53	-7.567872e+02	-4.845556e+02	-1.056960e+03
54	-1.119515e+03	-9.452676e+02	2.659268e+02
55	3.008744e+02	5.962900e+01	1.106336e+03
56	9.856470e+03	2.156426e+02	3.625876e+03
57	5.980723e+03	7.865528e+01	3.754112e+03
58	-3.416916e+03	-2.158216e+03	-3.910185e+03
59	-8.481081e+03	4.459467e+03	7.509433e+03
60	-4.050063e+03	-7.373958e+02	-2.144438e+03
61	-4.367993e+03	5.332849e+03	3.662558e+01
62	3.571016e+02	3.837825e+02	-1.730185e+03
63	7.102366e+03	7.048729e+03	-1.471429e+03
64	-4.436911e+03	-1.734523e+03	2.455525e+03
65	2.979768e+03	7.017255e+03	-5.314886e+03
66	-5.217603e+02	2.197077e+03	-5.859106e+03
67	-4.738420e+03	-1.565505e+03	6.289782e+03

trajectory 27

atom	VX	VY	VZ
1	-1.715673e+02	2.053472e+02	-5.148627e+02
2	-1.030386e+03	-6.521497e+02	-7.022199e+02
3	-1.013483e+03	8.280370e+02	-8.336502e+02
4	6.950140e+02	-1.508394e+03	7.290570e+02
5	1.665223e+03	4.021125e+02	-9.523587e+02
6	-7.750779e+02	4.168890e+03	1.261550e+03
7	6.446304e+02	9.513616e+03	1.483117e+03
8	-4.486259e+03	-2.105329e+03	-9.958125e+02
9	-1.257061e+03	1.455942e+02	1.323042e+03
10	-2.281232e+02	1.917049e+03	1.895260e+02
11	1.542987e+03	6.647974e+02	-1.524373e+03
12	-1.803272e+03	-7.566148e+02	1.152452e+03
13	-9.826632e+02	-3.357072e+03	4.324014e+03
14	1.292147e+03	-3.634184e+02	-5.074585e+02
15	-1.165437e+03	1.762355e+02	1.025127e+03
16	5.775969e+02	6.170221e+02	4.897221e+02
17	-2.703786e+02	-1.508174e+02	1.903544e+01

18	-9.993601e+02	-1.135352e+03	7.677707e+02
19	5.891286e+02	-1.405318e+03	6.127402e+02
20	1.145574e+03	6.745890e+02	4.589941e+02
21	3.428839e+02	8.845415e+02	-7.071447e+02
22	-5.980153e+02	-5.260620e+02	-4.400371e+02
23	9.702145e+02	-3.758825e+02	3.894517e+02
24	5.090752e+02	-6.422640e+02	2.047939e+02
25	-1.364115e+02	1.209072e+02	-3.069949e+02
26	-9.956972e+02	-5.225549e+02	7.568928e+02
27	1.170449e+03	1.458849e+03	1.293029e+02
28	6.951319e+02	-8.652849e+02	-2.171628e+03
29	-5.487702e+02	9.980778e+02	-4.800402e+02
30	-6.333016e+02	-4.111159e+02	8.505474e+02
31	-4.721679e+02	-9.878794e+01	-5.054513e+02
32	-2.891393e+01	1.974128e+02	-4.725801e+02
33	-7.660503e+03	-1.420716e+03	2.038518e+03
34	-3.631851e+03	-5.880870e+03	7.416977e+03
35	2.922817e+02	-1.239169e+03	-4.668258e+03
36	1.927178e+03	3.585447e+03	8.104570e+03
37	1.592686e+03	-7.231360e+03	2.441550e+03
38	-3.881558e+03	3.246040e+03	7.083652e+03
39	2.039994e+03	2.445486e+03	-4.285451e+03
40	3.101087e+03	-7.479979e+03	-3.187434e+03
41	4.491179e+02	-2.447650e+03	1.108190e+03
42	1.406683e+03	-1.238460e+03	3.089973e+02
43	-1.242101e+03	1.495256e+03	1.703093e+02
44	9.562630e+02	5.638276e+02	-1.092897e+03
45	1.882634e+03	-4.594781e+02	-1.850056e+02
46	-4.120428e+02	3.556185e+02	5.660533e+02
47	3.107293e+03	6.085345e+03	-2.216728e+02
48	-1.052692e+03	-3.489325e+03	6.080708e+03
49	-2.121311e+03	-1.015577e+03	5.681477e+03
50	2.687385e+03	1.580417e+03	-4.600339e+03
51	8.549544e+03	6.640630e+03	-4.881315e+03
52	2.406166e+01	1.548677e+03	1.741166e+02
53	-3.403522e+02	1.586771e+02	3.801785e+02
54	8.384667e+01	7.528947e+02	-2.576083e+02
55	-9.958754e+02	-9.172186e+01	2.307398e+02
56	-7.066941e+03	-9.846114e+02	2.887415e+03
57	3.665108e+02	-9.551689e+03	1.732552e+03
58	-3.816142e+03	-4.929898e+03	4.470800e+03
59	-4.487993e+02	-5.635292e+03	3.909054e+03
60	4.596394e+03	7.091976e+03	1.741416e+03
61	-5.216333e+03	-6.172963e+03	-5.326785e+03
62	-1.464891e+03	6.168648e+01	-6.837811e+02
63	4.973492e+02	2.199331e+03	-2.797019e+03

64	-8.094383e+03	8.565669e+03	4.460978e+03
65	1.515952e+03	-4.526397e+02	-4.236212e+03
66	8.319471e+03	-1.692927e+03	5.450420e+03
67	2.930698e+03	-3.009655e+03	2.590547e+03

trajectory 28

atom	VX	VY	VZ
1	1.580065e+02	-1.380626e+02	-2.313612e+02
2	-4.899631e+02	-5.274906e+02	-2.292131e+02
3	9.351202e+02	5.692086e+01	9.820045e+02
4	2.887200e+00	1.302554e+03	8.079785e+02
5	-1.192553e+03	8.795688e+02	-6.549512e+02
6	4.934135e+03	1.594572e+03	3.723262e+03
7	4.403343e+03	-4.857930e+02	-1.026388e+03
8	-1.015876e+04	-4.022535e+03	-3.075681e+03
9	5.450170e+02	-5.312341e+02	-1.130829e+03
10	-2.052909e+02	-4.088978e+02	1.065120e+03
11	-7.492298e+02	2.350561e+03	6.111465e+01
12	3.480045e+03	-2.423888e+03	7.866695e+03
13	1.366973e+03	2.491410e+03	1.621450e+03
14	-1.172179e+03	1.025524e+03	-9.424910e+01
15	3.692398e+02	-1.573113e+02	1.657269e+03
16	-2.396124e+02	-3.766524e+02	-3.118004e+02
17	9.626054e+00	-1.760186e+02	-1.448678e+02
18	1.423217e+03	1.173379e+02	3.721233e+02
19	-2.204229e+03	2.699913e+02	-1.473292e+03
20	-3.508904e+02	-5.085574e+02	-4.879919e+02
21	2.441817e+02	1.450781e+03	-2.357100e+02
22	-3.950960e+02	7.643414e+00	1.017935e+03
23	-1.523915e+03	-2.694286e+02	9.061305e+02
24	9.577826e+02	6.717143e+02	5.331820e+02
25	-4.220723e+02	-1.438185e+02	3.994925e+02
26	2.464735e+02	1.430215e+02	3.259221e+02
27	8.491980e+01	9.784123e+02	4.979873e+02
28	1.676687e+02	9.352744e+02	-3.907079e+01
29	-2.882861e+02	-2.743405e+02	7.178435e+02
30	1.004046e+02	-2.006014e+02	4.392702e+02
31	2.264979e+03	-3.024938e+02	-1.069643e+02
32	4.909633e+02	7.551178e+02	-1.332062e+03
33	-9.497518e+02	-7.342668e+03	-1.057108e+03
34	4.767205e+03	1.283518e+03	-4.270007e+03
35	2.665971e+03	8.727360e+03	-1.459989e+03
36	-1.227380e+03	-3.979129e+02	-8.620666e+03
37	-3.365046e+03	1.235072e+03	-9.804112e+02

38	-8.325669e+03	-3.399345e+03	4.603863e+03
39	-4.096333e+03	-6.485753e+02	1.001645e+03
40	3.051891e+03	-6.136876e+03	-2.278701e+03
41	2.294099e+03	-1.834104e+03	-1.162185e+03
42	-1.443189e+03	-1.657656e+03	2.159855e+03
43	4.761328e+02	3.200189e+02	-7.403835e+02
44	-3.403220e+02	2.285192e+03	-7.127588e+02
45	-3.894298e+02	-5.352288e+02	-8.715923e+02
46	-8.846589e+02	-7.101212e+02	1.114955e+03
47	-2.050211e+03	8.871415e+02	-2.641439e+03
48	-1.720951e+03	6.281350e+02	3.052710e+03
49	-6.342129e+02	-5.800397e+03	5.214041e+02
50	2.735795e+03	-1.688368e+03	3.591217e+02
51	-1.027414e+04	-3.213230e+03	5.073436e+03
52	-3.606560e+02	2.200830e+02	1.335432e+03
53	1.041467e+03	3.305688e+02	1.755115e+01
54	3.087141e+02	-8.169997e+02	3.736842e+02
55	-4.285185e+01	-6.008160e+02	-1.125203e+03
56	-1.279651e+03	-2.581651e+03	-3.469838e+03
57	4.405697e+03	5.142653e+03	-5.149157e+03
58	7.913883e+03	6.162404e+03	-2.218891e+03
59	-1.224128e+03	-6.953987e+03	2.185064e+03
60	1.011427e+03	6.434437e+03	2.969039e+03
61	-5.239989e+03	-6.099538e+03	-1.183741e+03
62	3.676432e+03	3.375426e+03	-7.478781e+03
63	1.335581e+03	-8.010433e+03	-4.153933e+03
64	-4.311153e+03	-3.740957e+03	-5.512015e+03
65	2.748059e+03	-7.566850e+02	9.911106e+02
66	3.843048e+03	-2.944198e+03	-4.183117e+02
67	-6.332294e+03	-1.783127e+03	8.171601e+03

trajectory 29

atom	VX	VY	VZ
1	-1.382395e+02	6.392423e+02	7.071457e-01
2	1.487675e+03	-1.032977e+03	-3.830655e+02
3	1.349707e+03	1.602366e+03	-5.830867e+02
4	4.213019e+02	-7.303288e+02	1.070019e+03
5	7.185257e+02	4.049637e+01	-1.420446e+03
6	-1.197989e+04	2.202873e+03	1.901456e+03
7	-4.833193e+03	-2.375646e+03	3.946163e+03
8	1.923854e+03	2.217222e+03	-3.008641e+03
9	-7.416326e+02	1.517596e+02	1.086304e+03
10	-8.210757e+02	-8.117088e+02	3.417888e+02
11	3.090982e+02	-4.695773e+02	-5.821718e+02

12	8.630360e+03	2.381435e+03	-8.208475e+02
13	1.390427e+03	5.409892e+03	-4.195733e+03
14	3.626075e+02	5.335910e+02	-3.439523e+01
15	-1.833734e+03	-9.579752e+02	2.857044e+00
16	1.396137e+03	3.261610e+02	1.082706e+02
17	-1.127900e+02	-3.636351e+02	2.588986e+02
18	1.340845e+03	-5.468461e+02	-2.253117e+02
19	-1.537149e+02	6.127604e+02	-5.517225e+02
20	-7.157136e+02	9.843220e+01	-1.465621e+03
21	5.920386e+01	8.242335e+01	6.772148e+01
22	3.048180e+02	1.364295e+03	-7.743488e+02
23	1.639280e+02	-1.658718e+02	-4.483585e+02
24	5.568741e+02	-1.837966e+02	-1.356374e+03
25	-1.150727e+02	1.043452e+03	1.388198e+02
26	-9.209498e+02	1.201881e+02	7.715172e+01
27	6.633324e+02	2.047538e+02	2.863768e+02
28	4.410029e+02	-1.321264e+03	-1.197544e+03
29	-1.360830e+03	8.270008e+02	9.882408e+01
30	3.126646e+03	-1.161567e+02	1.286154e+03
31	-5.393153e+02	-1.221045e+03	6.295910e+01
32	2.791351e+02	1.115387e+03	-1.373011e+03
33	5.070173e+01	2.176585e+02	2.881695e+03
34	-8.359440e+03	7.585688e+02	4.444770e+03
35	-3.488456e+03	-2.407532e+03	6.442914e+03
36	-5.532424e+03	4.883393e+03	-2.411321e+03
37	4.113690e+03	-6.677935e+03	4.231043e+03
38	-9.248789e+02	-1.673360e+03	5.870921e+03
39	-4.551826e+03	-3.033444e+03	-8.938002e+02
40	-5.256101e+03	2.215948e+03	1.625688e+03
41	6.858569e+02	3.058556e+02	-3.293171e+02
42	-1.776020e+03	5.216499e+02	6.389051e+02
43	2.055289e+02	6.076378e+02	-6.025111e+02
44	-6.869046e+02	-5.846225e+02	1.094674e+03
45	6.505293e+02	9.611335e+02	-6.242890e+02
46	-7.163937e+02	-7.704442e+02	-4.530156e+02
47	-8.059250e+02	-3.535445e+03	-2.271035e+03
48	5.183584e+03	2.733970e+02	-1.805861e+03
49	-5.592039e+03	-7.724548e+02	1.054186e+03
50	5.882826e+03	-7.787900e+03	6.505746e+03
51	-2.478009e+03	-3.953886e+03	2.125548e+03
52	6.510993e+02	-1.012644e+03	2.035650e+03
53	-1.108249e+03	-2.481758e+03	-3.645716e+02
54	-3.060289e+02	-3.469195e+02	-9.144175e+01
55	6.473773e+02	8.743365e+02	6.173840e+02
56	-6.683449e+03	-3.269753e+03	-8.076780e+03
57	2.232470e+03	-2.811146e+03	6.120989e+03

58	-1.495747e+03	-3.591848e+03	3.546653e+02
59	-1.191716e+03	3.338671e+03	-2.561542e+03
60	3.046300e+03	7.234506e+03	3.396553e+03
61	3.474217e+03	-7.153175e+02	-4.268358e+03
62	5.362145e+03	2.841108e+03	1.320633e+04
63	-1.704901e+03	-2.576392e+03	1.624558e+03
64	-1.581550e+03	2.253364e+03	-3.725808e+03
65	2.225150e+02	6.948691e+03	-4.295964e+03
66	2.179616e+02	-3.164629e+03	-5.656480e+03
67	-5.161494e+03	-5.544353e+03	1.980829e+03

trajectory 30

atom	VX	VY	VZ
1	4.806136e+02	-1.967269e+01	-1.232557e+02
2	-6.848534e+01	2.898809e+02	1.644916e+02
3	-7.934139e+02	-2.262362e+03	1.922409e+03
4	-1.439538e+02	1.692678e+03	-1.320429e+03
5	9.099890e+02	3.484526e+02	6.409332e+02
6	4.538923e+03	-4.682859e+03	-4.238073e+02
7	-1.152748e+03	-5.785828e+03	2.040752e+03
8	-3.132447e+03	-3.033123e+03	-9.822564e+03
9	9.239332e+02	5.704021e+02	2.147101e+02
10	4.007252e-01	1.246342e+03	-7.733034e+02
11	-2.395170e+03	-7.506082e+02	1.703339e+03
12	1.360898e+03	4.729565e+03	-4.249215e+03
13	-6.448193e+02	-3.813765e+03	-1.607904e+03
14	-7.686710e+02	-4.107744e+02	1.514383e+03
15	9.710071e+02	1.935600e+02	-3.431993e+02
16	8.293923e+02	-4.226075e+02	-1.096831e+02
17	-1.415741e+02	2.127241e+02	-2.088236e+02
18	-6.473580e+01	6.093170e+02	-6.254566e+01
19	-5.968989e+02	5.674719e+02	-2.131703e+03
20	-1.884606e+02	2.972489e-01	1.363155e+03
21	-1.508595e+03	-7.743675e+02	-3.193079e+02
22	2.510897e+02	3.433880e+02	-7.288958e+02
23	-8.305701e+02	-6.904086e+02	3.535334e+02
24	6.443857e+02	5.056810e+02	1.117699e+03
25	-3.582242e+01	-7.424425e+02	4.986892e+02
26	-2.414293e+02	9.752013e+02	4.016314e+02
27	-7.306492e+01	1.199713e+03	-1.136207e+03
28	-2.148902e+02	-3.204709e+02	-3.604825e+02
29	1.577300e+03	1.153286e+02	-2.095756e+02
30	4.812217e+02	1.560878e+03	-1.910030e+02
31	-3.195594e+02	-5.863717e+02	-1.922873e+02

32	-4.056952e+02	-7.752219e+02	1.091591e+03
33	1.865149e+03	6.696480e+03	-4.618462e+03
34	-3.313647e+03	-1.824889e+03	2.601774e+03
35	-4.685692e+03	-1.577732e+03	-7.629132e+03
36	4.530985e+03	-1.432508e+03	6.816750e+03
37	2.218341e+03	4.695189e+03	-4.930964e+02
38	-8.376168e+03	-1.573151e+02	5.623382e+03
39	-5.502622e+03	3.266521e+03	-4.674714e+02
40	2.825940e+03	-3.296011e+03	-3.260728e+03
41	2.374456e+03	-1.062193e+03	-2.414098e+02
42	-8.815253e+02	9.333896e+02	1.021866e+03
43	-7.251539e+02	-3.547490e+02	-9.879182e+02
44	6.119854e+02	-5.933922e+02	-7.636906e+02
45	3.407883e+02	-5.798865e+02	7.012664e+02
46	-1.355716e+01	-1.286336e+03	8.736844e+02
47	8.563441e+02	2.875261e+03	-6.015403e+03
48	1.091088e+03	-4.987898e+03	-7.633211e+02
49	5.646199e+02	6.166193e+03	-2.918864e+03
50	2.947014e+03	7.767765e+03	-8.677848e+03
51	-2.468820e+03	-3.431048e+01	2.942456e+03
52	4.539905e+02	-2.033746e+03	7.721638e+02
53	-1.071727e+03	-4.748504e+02	-1.001603e+03
54	-5.048843e+02	1.033742e+03	-1.514501e+03
55	1.878062e+02	-1.714595e+03	3.272710e+02
56	1.529097e+03	2.227469e+03	4.562860e+03
57	-4.343809e+03	5.289603e+03	1.897618e+03
58	3.196836e+03	7.684025e+03	-1.556471e+03
59	-5.164920e+02	-1.009887e+03	5.812125e+03
60	1.136991e+03	3.658681e+02	1.827294e+03
61	7.370538e+03	-2.557311e+03	6.286060e+03
62	1.569873e+03	9.259938e+01	9.645269e+03
63	2.768635e+02	-2.965530e+03	-2.518952e+03
64	-3.400309e+03	-1.641560e+03	1.321882e+03
65	-4.035609e+03	1.921720e+03	-9.447375e+03
66	-3.544270e+03	-4.509050e+03	-1.653362e+03
67	-6.720082e+03	5.120588e+03	8.819556e+03

trajectory 31

atom	VX	VY	VZ
1	-3.515802e+01	5.952753e+02	-4.451445e+01
2	1.059480e+02	1.398334e+02	-4.382029e+02
3	9.834168e+02	-1.273171e+03	-3.879815e+02
4	6.697537e+02	-3.075113e+02	-8.626441e+02
5	3.037132e+02	-1.011269e+03	8.216988e-01

6	-2.018277e+03	-8.772625e+02	7.419040e+02
7	-8.930932e+03	8.837042e+03	-2.529679e+03
8	-5.190092e+03	3.823693e+03	-5.491667e+03
9	-1.366674e+03	1.182765e+02	1.493403e+03
10	3.960317e+02	-1.489222e+03	8.714970e+02
11	-9.770681e+02	6.370856e+01	-1.399292e+02
12	-8.280041e+02	1.692245e+03	-3.759643e+03
13	-1.693021e+03	9.770546e+03	2.987498e+03
14	-1.116548e+03	9.292726e+02	2.346330e+02
15	2.663253e+03	3.902279e+01	4.811276e+02
16	-3.152512e+02	-1.611324e+02	7.985186e+02
17	1.615404e+01	-4.993644e+02	-4.342221e+02
18	1.013944e+02	-1.206008e+03	1.376922e+03
19	-1.612686e+03	1.257544e+03	-1.105950e+03
20	2.911218e+02	-3.858204e+02	-1.732296e+00
21	3.825872e+02	-2.491374e+02	2.238292e+02
22	6.303014e+02	1.364746e+02	-8.008569e+01
23	-6.757336e+02	-5.321907e+02	4.484560e+01
24	-1.337277e+03	1.147758e+03	8.316444e+02
25	-6.014683e+02	5.086705e+02	-2.110201e+02
26	7.434200e+02	3.176806e+02	-5.796173e+02
27	-6.706924e+02	-8.480929e+02	1.464265e+03
28	1.495256e+03	-2.275326e+02	-2.747491e+02
29	-2.461550e+02	2.522674e+03	-2.341243e+02
30	7.902961e+02	-2.558339e+02	-1.202349e+02
31	2.633009e+02	1.102619e+03	4.675861e+02
32	6.102910e+01	-1.516973e+03	3.115808e+02
33	3.957986e+03	7.144524e+03	-4.590066e+03
34	-2.247840e+03	-2.921108e+03	-7.439976e+02
35	-3.144815e+03	2.965960e+03	1.949651e+02
36	-5.558487e+03	-1.910115e+03	-4.280625e+03
37	1.889039e+03	-9.253567e+03	-3.777877e+03
38	-2.166289e+03	2.744586e+03	-1.284689e+03
39	4.202036e+03	-7.538658e+03	5.965148e+02
40	3.677894e+03	-4.726533e+03	-3.468780e+02
41	7.826561e+02	-8.297537e+02	1.843053e+03
42	-4.785134e+02	1.013238e+03	-1.559884e+03
43	4.278513e+02	5.610963e+02	-9.470906e+02
44	-6.629962e+02	6.728076e+02	1.030647e+03
45	1.485036e+02	2.113113e+02	-7.016873e+02
46	1.716583e+03	-1.512260e+03	3.238853e+02
47	-4.129911e+03	-4.856894e+03	8.265319e+03
48	9.779952e+02	2.770270e+03	4.717691e+03
49	5.792694e+03	-5.586711e+03	-3.405751e+03
50	-4.431554e+03	-2.603480e+03	1.773146e+03
51	-4.205316e+03	1.938029e+03	2.102004e+03

52	1.129106e+03	5.339626e+02	1.003163e+03
53	5.498297e+02	-6.789198e+02	-2.952682e+02
54	-1.159158e+02	-2.051904e+02	-2.958825e+02
55	-6.083767e+02	-1.380201e+03	-1.734768e+02
56	-2.253060e+02	-8.950421e+02	-4.260653e+03
57	1.472389e+03	-4.107965e+03	-5.936697e+03
58	-6.778453e+02	-3.347733e+03	7.225139e+03
59	1.658374e+03	-2.930623e+03	-2.223358e+03
60	-6.735933e+03	1.071205e+04	2.861458e+02
61	3.560284e+03	8.789571e+02	1.104111e+03
62	-8.983937e+03	9.881632e+02	-4.367298e+01
63	2.185496e+03	1.212770e+04	1.279630e+03
64	-2.035226e+03	3.019936e+03	4.699307e+03
65	-3.646747e+03	7.743429e+03	-3.133100e+03
66	4.518179e+03	-2.117427e+03	-3.439419e+03
67	-5.559483e+02	1.327482e+03	-4.253443e+03

trajectory 32

atom	VX	VY	VZ
1	1.223251e+01	-9.310648e+01	3.438197e+01
2	-6.831177e+02	9.929146e+02	2.207727e+03
3	1.731965e+03	-4.008081e+01	-1.321705e+03
4	-2.294737e+02	1.623733e+03	-6.015829e+02
5	1.936930e+02	2.055638e+02	8.370269e+02
6	-4.596997e+03	3.837739e+02	6.314754e+03
7	6.938884e+03	-1.986218e+03	-7.517308e+03
8	-3.329385e+03	1.956977e+02	-6.434460e+01
9	7.698410e+02	-6.154378e+02	4.651308e+02
10	2.817348e+03	-7.684502e+02	-2.762826e+02
11	-1.067725e+03	-1.225258e+03	9.274661e+02
12	-1.431469e+03	3.363862e+03	3.267262e+03
13	-3.305688e+03	5.827074e+03	-6.843284e+03
14	-3.018885e+02	4.095771e+02	-2.302343e+02
15	-1.782235e+03	3.531285e+02	9.984650e+02
16	1.048840e+03	7.102083e+02	-8.550771e+01
17	-3.149038e+02	-4.108732e+01	-4.037082e+02
18	1.820186e+02	-8.705846e+02	9.790034e+02
19	5.338460e+01	-3.283880e+02	-5.818375e+02
20	-4.836001e+02	2.858176e+02	8.512535e+02
21	1.086921e+03	3.024219e+02	-4.587637e+01
22	-1.727610e+03	-5.020975e+02	7.940253e+02
23	-3.882025e+02	-3.001216e+02	9.677811e+02
24	-6.726725e+01	3.256485e+02	8.980532e+02
25	5.274204e+02	-2.007396e+02	-1.828258e+03

26	5.953733e+02	5.685481e+02	-5.306461e+02
27	1.149345e+03	-4.357812e+02	-6.189195e+02
28	1.469931e+03	-1.055437e+03	-4.358538e+02
29	7.336962e+01	1.419710e+03	-1.552673e+03
30	-2.387861e+02	-7.355125e+02	4.374170e+02
31	-1.207184e+03	1.094980e+03	-4.203764e+02
32	-1.293654e+02	-7.927013e+02	1.486599e+03
33	1.644594e+03	5.710435e+03	-4.387647e+03
34	-3.751488e+03	-3.401444e+03	-1.880103e+03
35	1.904030e+03	-3.140014e+03	-1.929076e+03
36	5.075174e+03	4.421067e+03	4.654882e+03
37	-9.218086e+03	4.782427e+03	-4.015060e+03
38	-3.712292e+03	9.534501e+02	2.801534e+03
39	-3.110884e+03	-2.079810e+03	-7.442579e+02
40	-8.317369e+02	6.538478e+03	6.627269e+03
41	-1.917903e+03	1.149215e+03	-3.626936e+02
42	-3.991381e+02	6.994215e+02	-9.582045e+02
43	3.071500e+02	3.241977e+02	4.514363e+02
44	-7.162428e+01	-1.274602e+03	-2.230451e+02
45	-3.193782e+02	-1.362382e+03	-5.219199e+01
46	9.234833e+01	-3.741366e+02	-1.517955e+03
47	2.299567e+03	-4.593608e+03	7.857187e+03
48	9.214243e+02	2.046870e+03	1.598736e+03
49	2.528415e+03	1.201651e+03	3.388330e+02
50	-4.342073e+03	1.140913e+04	2.701899e+03
51	4.890806e+03	-1.413832e+03	-2.284428e+03
52	5.494672e+02	1.278346e+03	1.730787e+03
53	-9.761168e+02	1.391060e+03	-6.271185e+02
54	6.448628e+02	-4.182879e+02	2.532461e+02
55	6.827193e+02	-2.623191e+03	-6.490711e+02
56	-2.417224e+03	-3.250789e+03	9.144863e+02
57	-1.150163e+03	-9.920198e+03	2.254145e+02
58	-1.710953e+03	-4.776311e+03	4.483629e+03
59	1.252334e+03	-9.636790e+02	2.973570e+03
60	3.109514e+03	-7.477869e+03	-5.648703e+03
61	-2.341696e+03	-3.394829e+03	-7.308010e+03
62	2.318383e+03	-2.553500e+03	7.937865e+03
63	1.784501e+03	8.590262e+03	2.658071e+02
64	5.813770e+03	-9.150297e+02	-3.749876e+03
65	-4.095696e+03	5.962205e+03	-2.330896e+03
66	1.861057e+03	-2.910333e+03	3.147231e+03
67	5.497580e+03	4.832788e+03	3.462886e+03

trajectory 33

atom	VX	VY	VZ
1	9.876899e+01	-2.569727e+02	2.451187e+02
2	-7.728373e+02	1.174206e+03	-9.438392e+02
3	7.461483e+02	6.642735e+02	1.295275e+03
4	8.258983e+02	-7.853451e+02	-1.031965e+03
5	1.144009e+03	2.302657e+02	2.829781e+02
6	-5.653118e+02	4.137503e+03	-1.444900e+03
7	-5.147033e+03	-4.264127e+03	-1.647071e+03
8	-1.101671e+04	3.168212e+03	-4.001245e+03
9	1.031967e+02	-5.212449e+02	-3.917781e+01
10	1.590991e+03	5.416922e+02	1.131620e+03
11	-5.922745e+02	-4.984289e+02	-9.891825e+00
12	-1.002866e+03	6.123385e+03	-4.010941e+03
13	4.951843e+03	-7.978219e+03	-3.828032e+03
14	1.044984e+03	-5.545574e+02	-1.157758e+03
15	-3.043191e+02	1.809951e+03	1.019650e+03
16	-1.404208e+03	-9.800466e+02	-3.903638e+02
17	-2.364392e+02	8.655975e+01	-1.115930e+02
18	-1.185257e+03	-2.114360e+02	-9.150612e+01
19	1.358361e+03	1.355781e+03	1.250720e+02
20	1.017009e+03	-8.715842e+02	-3.347905e+02
21	-1.164238e+03	-4.821781e+02	1.592431e+03
22	-6.778689e+02	-4.808800e+01	2.636911e+02
23	9.855638e+02	5.944394e+02	-1.437377e+01
24	7.229499e+01	2.156511e+02	-7.012204e+02
25	-4.576532e+02	-5.974216e+02	1.782050e+02
26	-3.772893e+02	-2.533873e+02	-4.628275e+02
27	1.826713e+03	1.047581e+03	-3.013392e+02
28	1.742927e+03	-1.832269e+03	8.413817e+01
29	-1.841998e+03	9.163627e+02	2.828024e+02
30	-1.223595e+03	4.420327e+01	-9.600438e+02
31	-3.421685e+01	4.390311e+02	5.043081e+02
32	-1.275984e+03	-8.737709e+02	-8.579521e+01
33	-6.101232e+03	5.495155e+03	4.677477e+03
34	8.253879e+03	2.801434e+03	-9.481927e+01
35	-3.073299e+03	-6.502343e+03	-1.797412e+03
36	4.208498e+03	1.265535e+01	4.902323e+03
37	2.028261e+03	-6.083368e+03	4.024294e+03
38	3.543961e+03	-3.048299e+03	3.232896e+03
39	4.848574e+02	5.858058e+02	-3.586487e+03
40	-4.423842e+03	1.733816e+03	2.803123e+03
41	3.731606e+01	-1.542237e+03	1.047961e+03
42	2.826734e+02	-1.775680e+02	-2.712076e+02
43	1.118499e+03	5.018531e+02	2.838723e+02
44	5.054850e+02	1.464933e+03	1.094784e+03
45	-1.350446e+03	6.884021e+02	-5.759827e+02

46	-1.442502e+03	7.291737e+01	2.179157e+02
47	-2.860560e+02	-5.789549e+03	-2.404339e+03
48	6.038117e+03	4.573495e+03	-9.209091e+03
49	6.807468e+01	-3.562863e+03	9.706304e+02
50	1.712284e+03	3.694790e+03	-2.701778e+03
51	-4.757754e+02	-5.939984e+03	1.647239e+03
52	2.884426e+02	4.343288e+02	-8.180077e+00
53	1.825530e+02	2.730510e+02	-1.217519e+03
54	-8.323252e+02	-3.791419e+02	-4.303918e+01
55	2.059046e+03	4.006661e+01	2.082103e+02
56	-4.778634e+03	3.313991e+03	1.970808e+02
57	1.768267e+03	-7.134431e+02	8.811656e+02
58	4.421389e+03	9.967077e+03	-6.218163e+03
59	3.287740e+03	-9.276849e+02	5.418114e+03
60	1.194237e+03	6.306148e+03	2.208755e+03
61	-7.216426e+03	-1.994967e+03	-2.319788e+03
62	-7.614209e+02	-3.756026e+03	6.975880e+03
63	3.893682e+03	5.910516e+03	-6.208078e+03
64	5.895408e+03	3.893509e+03	-2.197170e+03
65	-1.066106e+04	2.720181e+03	-1.071336e+03
66	-6.485558e+02	-2.073238e+03	-2.882196e+03
67	-4.993642e+03	-1.753992e+03	2.911386e+03

trajectory 34

atom	VX	VY	VZ
1	-1.223658e+02	-8.185150e+01	-1.303921e+02
2	-6.892838e+02	1.210538e+01	6.952549e+02
3	2.824808e+02	3.440220e+02	-1.424934e+03
4	1.850787e+01	-1.096766e+03	7.352071e+02
5	1.171624e+03	4.954250e+02	-4.150240e+02
6	-2.721188e+03	4.101101e+03	1.829732e+03
7	-1.586243e+03	9.338582e+03	1.305488e+03
8	-4.830947e+03	-3.646130e+03	-2.349243e+03
9	9.535892e+02	-1.674482e+02	8.343609e+02
10	-2.571867e+02	1.586888e+03	-1.167975e+02
11	-7.194687e+02	-1.251098e+03	5.625609e+02
12	-1.074709e+03	4.627841e+03	-6.627983e+03
13	-8.682473e+03	-4.298380e+02	9.618680e+02
14	8.852956e+02	-2.473596e+02	-1.413509e+02
15	-4.740552e+01	1.113700e+03	1.335443e+03
16	-3.289242e+02	-3.249811e+02	-9.005869e+02
17	1.813895e+02	4.822132e+01	9.930397e+01
18	-3.267516e+00	-5.704739e+01	-9.169121e+02
19	-1.599406e+02	-3.076808e+02	2.188973e+02

20	-6.670723e+02	1.953035e+02	8.135330e+02
21	-9.181810e+02	3.067745e+02	2.121763e+01
22	-6.143410e+02	-1.590507e+03	3.062320e+02
23	1.328863e+03	1.210065e+02	7.110267e+02
24	-2.844741e+02	2.885062e+02	-2.347270e+01
25	-1.690885e+03	-7.651330e+02	-8.813695e+02
26	1.425750e+03	-3.728547e+02	2.939526e+02
27	-1.003976e+02	-9.027419e+02	-1.273958e+03
28	8.590316e+02	-6.402073e+02	1.926170e+03
29	-2.837372e+02	6.757850e+02	-8.734722e+02
30	-6.961306e+02	1.420570e+03	-3.463963e+02
31	8.159149e+01	5.755163e+02	1.178217e+03
32	8.941964e+02	8.068790e+02	-4.031174e+02
33	5.363176e+03	-2.882354e+03	1.086886e+02
34	-6.979097e+03	-3.039457e+03	2.027923e+03
35	-1.291044e+02	6.314020e+03	1.332527e+03
36	-5.650568e+03	-7.801619e+03	-4.283816e+03
37	-8.999115e+02	-4.206634e+03	6.889461e+03
38	-6.258313e+03	-2.964433e+03	-1.524474e+03
39	5.409320e+03	3.483446e+03	-7.741373e+03
40	-5.203388e+03	2.626300e+03	-2.336900e+03
41	2.081054e+03	-6.649899e+01	5.425799e+02
42	9.960264e+02	-1.566503e+02	4.030891e+02
43	-7.106119e+02	-2.312287e+02	2.576980e+01
44	-8.474068e+02	-1.288609e+03	1.536191e+03
45	-6.287670e+01	-5.202631e+02	-2.108934e+01
46	-1.344445e+03	1.381080e+03	-1.992400e+03
47	2.500801e+03	2.978907e+02	-2.085428e+03
48	-3.839234e+03	-5.186545e+03	4.994820e+01
49	5.056768e+03	6.786748e+00	-3.044843e+03
50	-7.055829e+03	1.244871e+04	-8.921970e+02
51	1.406455e+03	4.569406e+03	-2.454378e+03
52	1.369964e+03	-1.363510e+03	3.856615e+02
53	-2.122277e+03	1.164913e+03	-3.271524e+02
54	2.505912e+02	-2.621466e+02	3.194468e+02
55	1.315145e+03	-3.921194e+02	-1.697005e+02
56	6.931307e+03	6.330310e+03	6.207758e+03
57	7.187376e+01	-1.872529e+03	1.503313e+03
58	-1.679314e+03	1.192786e+03	1.379936e+03
59	4.558960e+03	5.250236e+03	-8.480955e+03
60	2.603101e+03	-4.663656e+01	3.978804e+03
61	2.855549e+01	-1.706553e+03	1.383362e+03
62	-6.146512e+01	7.007717e+03	-4.065071e+03
63	6.896718e+02	-7.132444e+03	-4.869851e+03
64	-3.196678e+03	-4.374197e+02	-5.129650e+03
65	-2.410264e+03	6.600720e+03	-3.121033e+01

66	-3.349942e+02	3.185241e+03	-7.214279e+03
67	-3.889297e+03	-9.165076e+03	5.179117e+02

trajectory 35

atom	VX	VY	VZ
1	-1.412703e+02	8.622897e+01	-1.698530e+02
2	1.187099e+03	-2.838317e+02	-3.174122e+02
3	-1.317767e+03	1.072092e+02	7.257398e+02
4	8.754136e+02	-8.505006e+02	-5.957788e+02
5	1.868176e+02	-3.262678e+02	1.009657e+03
6	3.124809e+03	6.239044e+03	-1.756605e+03
7	-1.377829e+03	9.064295e+03	2.681874e+03
8	1.365624e+03	-3.185583e+03	4.711735e+03
9	2.764712e+02	2.818489e+02	-4.647279e+02
10	1.460870e+02	9.996758e+02	-7.607382e+02
11	2.320930e+03	-1.220503e+03	5.984089e+02
12	-1.570676e+02	2.644377e+03	2.229611e+01
13	5.955378e+03	7.220523e+03	-2.946359e+03
14	-1.074243e+03	7.997077e+02	2.580954e+02
15	1.290976e+03	1.574562e+00	-1.183607e+03
16	1.244165e+01	-4.749388e+02	-4.812567e+01
17	-2.416618e+02	6.288431e+01	-1.802798e+02
18	-7.675334e+02	6.580558e+02	2.784260e+02
19	1.968506e+03	-3.224566e+02	1.475752e+03
20	-7.275707e+02	-6.577016e+01	-8.815188e+02
21	-7.296140e+02	-1.175383e+03	-2.453499e+02
22	-8.495465e+02	6.207400e+02	1.532024e+03
23	4.991681e+02	4.516352e+02	1.828153e+01
24	1.502468e+02	-7.127446e+02	-6.521339e+02
25	-4.423320e+01	-1.847435e+03	-2.384633e+02
26	-2.118277e+02	4.557103e+02	6.803914e+02
27	1.377439e+02	-5.783413e+02	4.883746e+02
28	2.121281e+01	-1.251490e+03	3.784654e+02
29	-5.314889e+01	1.579889e+03	-1.145935e+03
30	-2.252910e+03	1.061347e+02	-1.087463e+03
31	1.051100e+03	5.539150e+01	5.468389e+02
32	2.154986e+03	-2.151905e+01	4.778328e+02
33	1.549209e+03	6.678174e+03	2.067470e+03
34	6.577271e+03	1.299484e+03	-8.746431e+03
35	4.968277e+03	-1.067580e+03	-1.685999e+03
36	7.002818e+03	7.289076e+03	-9.928309e+01
37	4.587056e+03	-3.147550e+03	2.680822e+03
38	-4.989723e+03	2.716483e+03	1.322655e+03
39	-1.864856e+03	1.646130e+03	-5.776366e+03

40	-6.987297e+03	1.881609e+03	2.729237e+03
41	-1.814856e+03	-7.500631e+01	1.901626e+03
42	6.653534e+02	-3.478836e+02	-3.151055e+02
43	1.583576e+03	8.893967e+01	4.171396e+02
44	8.570949e+01	1.922259e+02	1.605672e+03
45	-1.384996e+03	-2.087735e+02	-9.089133e+02
46	4.783741e+02	-5.314011e+02	5.131526e+02
47	-2.355092e+03	8.593381e+03	3.505631e+02
48	7.135076e+03	-4.561560e+02	-3.440005e+03
49	3.256472e+03	-4.154883e+03	-5.874580e+03
50	-4.383703e+03	5.660114e+03	-3.752528e+03
51	-9.290021e+03	2.360878e+03	-7.346616e+02
52	2.005402e+03	-9.412676e+02	-1.019661e+03
53	-8.075309e+02	-2.810015e+01	-9.617277e+02
54	-1.702621e+03	1.248370e+03	7.308969e+02
55	1.316713e+01	4.489484e+02	-1.531707e+02
56	4.661337e+03	-2.238869e+02	1.560307e+03
57	8.193103e+02	-1.628547e+03	2.104927e+03
58	-6.621163e+03	-1.839012e+03	5.631938e+03
59	4.504667e+02	-7.080817e+03	-3.351887e+03
60	3.977908e+02	8.235537e+03	4.793354e+03
61	2.829121e+03	3.355777e+03	-3.241927e+03
62	9.236905e+02	-1.791365e+03	4.648176e+02
63	-2.643404e+03	-9.334828e+03	1.718814e+02
64	1.272928e+03	-5.214825e+03	3.290523e+03
65	-3.030765e+03	-9.466285e+03	7.689620e+03
66	-5.228018e+03	-3.032065e+03	4.224899e+03
67	-2.250931e+03	1.740441e+03	5.558801e+03

trajectory 36

atom	VX	VY	VZ
1	-2.510407e+02	1.962483e+02	6.924945e+01
2	-2.949334e+02	-1.167106e+03	-4.222095e+01
3	2.119608e+02	-3.776531e+02	-8.845517e+02
4	4.897082e+02	-1.077651e+01	5.504105e+02
5	1.501554e+03	-6.042325e+02	-1.390483e+03
6	-5.077268e+03	-4.174180e+02	-3.742417e+02
7	-3.865412e+03	-6.329985e+03	-1.082746e+04
8	-2.276804e+03	-8.612599e+02	-2.014774e+02
9	3.719754e+01	1.566689e+02	8.675108e+02
10	-6.043271e+02	2.168314e+03	1.194099e+02
11	-6.118605e+02	4.258594e+02	-1.552940e+03
12	-4.469885e+02	9.755020e+03	-2.021770e+03
13	-1.379863e+03	-4.824551e+02	3.643521e+03

14	1.329198e+02	2.951736e+02	-1.563655e+01
15	-2.593209e+02	-8.224896e+02	3.232420e+01
16	-1.020399e+03	-4.759852e+02	1.060990e+02
17	-1.366235e+02	-1.621330e+02	1.112577e+02
18	8.454204e+01	1.469688e+03	-2.310710e+02
19	-2.234592e+02	5.391145e+02	8.757242e+02
20	8.819703e+02	-1.386232e+03	-1.758728e+03
21	-1.157503e+03	9.120503e+01	2.796093e+02
22	2.935271e+03	-1.481489e+03	7.429209e+02
23	-4.898157e+02	2.281169e+02	-1.206917e+02
24	-6.640561e+01	-5.904864e+02	3.097351e+02
25	1.069078e+03	2.679334e+02	-8.191068e+02
26	-2.162171e+02	-1.020445e+03	-5.182805e+02
27	-3.845270e+02	2.019178e+03	2.842828e+02
28	8.123224e+02	-3.116351e+02	1.796342e+02
29	-1.369923e+03	-1.690777e+02	-1.478631e+03
30	1.435814e+02	-5.357663e+02	-9.525661e+01
31	6.196529e+01	1.025459e+03	8.748138e+02
32	3.103254e+02	9.719312e+01	1.116669e+03
33	-6.824561e+02	-5.354239e+03	-1.641502e+03
34	-7.923883e+03	-1.958430e+03	2.330735e+03
35	1.851235e+03	-1.754469e+03	-4.435943e+03
36	2.657017e+03	6.289219e+03	6.485303e+03
37	-2.937099e+03	-3.851182e+03	8.249069e+03
38	-1.390232e+03	-7.350518e+03	-4.448855e+02
39	-4.325574e+03	-1.975436e+03	1.709517e+03
40	4.265193e+03	-3.921092e+03	-2.222553e+03
41	-1.052184e+03	-1.266594e+03	1.784423e+03
42	2.442049e+03	-4.729896e+02	-1.290765e+03
43	1.018896e+03	4.766512e+02	-1.096910e+03
44	-3.730623e+02	4.773338e+02	-5.825235e+02
45	2.169113e+01	-6.797705e+02	1.478870e+03
46	-2.144658e+03	5.951201e+02	-9.554965e+02
47	7.192280e+03	1.045284e+04	3.567094e+03
48	8.893089e+03	-4.888125e+03	5.283433e+00
49	2.343455e+03	-4.422323e+03	3.028070e+03
50	-4.059470e+03	5.890024e+03	1.583750e+03
51	-1.665951e+03	-4.002264e+03	3.501090e+03
52	-6.136830e+02	1.860928e+02	-1.840484e+02
53	4.742524e+01	-3.439800e+01	8.047369e+02
54	-6.194755e+02	9.335401e+02	-4.638745e+02
55	8.639604e+01	1.150030e+03	5.584146e+02
56	3.031007e+03	2.379816e+03	-7.855150e+02
57	2.067092e+03	-8.361239e+03	-3.418586e+03
58	6.015610e+03	1.605516e+03	2.161377e+03
59	-5.899369e+02	7.395658e+02	-2.399662e+03

60	6.547091e+03	1.017355e+04	3.370497e+03
61	3.213605e+03	2.578566e+03	-4.943126e+01
62	2.715685e+03	-1.475873e+03	6.919263e+03
63	5.362274e+03	5.645828e+03	2.820063e+03
64	3.231576e+03	-4.003335e+03	2.675280e+03
65	4.943256e+03	-4.451320e+03	3.070530e+03
66	5.333975e+03	1.843349e+03	-1.984047e+03
67	2.474181e+03	-4.299580e+03	-1.068981e+04

trajectory 37

atom	VX	VY	VZ
1	4.938683e+01	-4.123705e+02	-3.006610e+01
2	-1.493541e+02	7.655874e+02	-4.638143e+02
3	-2.352322e+02	1.740701e+03	7.475045e+01
4	1.021017e+02	-1.511332e+03	1.618282e+03
5	1.879986e+02	1.382708e+03	-3.618166e+01
6	-9.553913e+03	-3.069121e+02	-1.795806e+03
7	7.349712e+03	-4.297507e+03	-4.094384e+03
8	-3.568050e+03	-5.125762e+02	2.080803e+02
9	3.422093e+02	3.502988e+02	-1.610156e+03
10	1.912256e+01	9.433530e+01	-2.921291e+02
11	-5.375754e+01	1.673280e+02	-4.887996e+02
12	7.227135e+03	2.448831e+03	-1.480162e+03
13	-3.192945e+03	3.786452e+03	-8.873334e+03
14	1.635437e+03	-2.380280e+02	-9.539515e+02
15	-1.785982e+03	-9.550622e+02	1.134498e+03
16	6.881749e+02	1.730544e+02	9.426792e+02
17	-9.259817e+01	7.632428e+00	7.674316e+01
18	-5.195898e+02	-1.036374e+02	2.494771e+02
19	9.294677e+02	-5.434506e+02	-5.577213e+02
20	-1.124146e+03	4.001081e+02	8.513624e+02
21	-6.972989e+02	-6.789576e+01	-7.379898e+02
22	-8.470888e+02	-4.099555e+02	1.257436e+02
23	1.010451e+03	-1.296390e+03	5.008347e+02
24	-3.825610e+01	7.263310e+02	8.259446e+02
25	-5.586924e+02	5.578809e+02	9.932474e+02
26	-3.740534e+02	6.990841e+02	7.750667e+02
27	1.829518e+03	-2.879871e+02	-2.699523e+02
28	3.033268e+02	6.178951e+02	3.462474e+02
29	-1.978534e+03	-2.824455e+02	1.502953e+03
30	3.031059e+02	4.487336e+02	-2.971732e+02
31	-2.529233e+03	-1.337070e+03	5.127009e+02
32	4.913872e+02	-4.152404e+01	5.679464e+02
33	2.431611e+03	2.529816e+03	5.816748e+02

34	3.739622e+03	-1.631556e+03	-6.363267e+03
35	-2.324376e+03	-2.586421e+03	-5.617059e+03
36	1.396898e+03	-8.351314e+02	9.274558e+03
37	-1.002285e+03	2.891689e+03	-7.126693e+03
38	2.506141e+03	3.152142e+03	-7.126933e+03
39	-6.046361e+03	-6.063788e+02	1.268735e+03
40	-9.225708e+02	5.340401e+03	-1.897158e+02
41	2.148447e+03	-8.938551e+02	-5.216002e+02
42	-5.942477e+02	1.240522e+03	-8.641795e+02
43	4.509543e+02	7.092181e+02	-3.764157e+02
44	1.843901e+02	-5.037650e+02	-4.702580e+02
45	-3.411552e+02	-1.158443e+03	1.720036e+03
46	4.147953e+02	-6.946736e+02	6.811466e+01
47	2.766976e+03	-2.488609e+03	4.105693e+03
48	-4.194052e+01	7.847442e+03	-5.854205e+03
49	-3.559621e+03	5.536777e+03	1.449462e+03
50	3.672636e+03	6.120261e+03	-5.248200e+03
51	-2.032583e+03	-2.224050e+03	-4.444222e+02
52	-7.581871e+02	4.487572e+02	4.111690e+02
53	-3.359360e+02	-8.046298e+02	1.185891e+02
54	1.135877e+03	5.941387e+02	-1.278729e+03
55	-8.167345e+02	-3.256336e+01	-1.500915e+03
56	3.157610e+03	1.463467e+03	2.713658e+03
57	-2.461539e+03	-5.421001e+03	-1.034320e+04
58	4.536275e+03	5.075859e+03	-1.115594e+03
59	5.598014e+03	2.266196e+03	1.841822e+03
60	-1.426326e+02	1.271673e+04	-3.229872e+03
61	2.484389e+03	2.453420e+03	-8.595514e+02
62	-2.698161e+03	-4.397313e+03	6.063968e+03
63	4.736216e+03	4.101284e+03	-2.694956e+03
64	2.021726e+03	-7.856323e+03	2.063578e+02
65	-6.584598e+02	3.660369e+03	2.586186e+03
66	-5.738027e+03	6.917860e+02	-2.018731e+02
67	9.262329e+03	6.377421e+03	-3.323281e+03

trajectory 38

atom	VX	VY	VZ
1	-4.071673e+02	1.037114e+02	1.612952e+02
2	1.391366e+03	-1.742140e+02	1.643585e+03
3	-4.869855e+02	4.095875e+02	1.381766e+03
4	4.034637e+02	-1.357968e+03	8.941889e+01
5	1.035140e+03	-6.941476e+02	1.184731e+03
6	-1.885034e+02	-1.024341e+02	-3.229303e+03
7	3.895254e+03	-5.131567e+03	2.572252e+03

8	-6.917764e+03	4.635383e+03	-8.108779e+03
9	6.450417e+02	7.206787e+01	-5.023966e+02
10	1.086014e+03	2.156947e+03	5.502281e+02
11	-4.922305e+02	5.425213e+02	5.003577e+02
12	-6.606538e+03	-8.797030e+02	5.012653e+03
13	-3.364593e+03	-6.651491e+03	-7.108441e+02
14	1.269076e+03	-4.670219e+02	-1.503004e+03
15	1.598324e+02	-1.573148e+02	6.441050e+02
16	-2.078844e+02	4.956785e+02	-5.698145e+02
17	-1.288508e+02	-1.397934e+02	-1.715197e+02
18	1.709164e+02	3.499610e+02	8.108557e+02
19	-1.109749e+03	1.427084e+03	6.929407e+02
20	-1.215632e+02	-1.105569e+03	-4.671950e+01
21	1.366947e+03	4.077182e+02	1.866231e+02
22	-2.133373e+03	-1.315731e+03	8.824379e+02
23	-7.884274e+02	2.940074e+02	-6.851307e+02
24	-1.189203e+03	-4.236699e+02	-6.366045e+02
25	3.688220e+02	2.098156e+03	1.361845e+03
26	5.968671e+02	-4.043324e+02	-6.029693e+02
27	-2.031672e+02	-1.099056e+03	9.578357e+02
28	6.163058e+02	8.662755e+01	-9.958696e+02
29	1.548844e+03	-1.868574e+02	8.381676e+02
30	-2.133063e+02	2.704421e+02	-1.413382e+03
31	-5.846165e+01	2.939931e+02	1.388023e+02
32	7.872134e+02	2.695472e+02	-8.598836e+02
33	6.422718e+03	5.413622e+03	-4.762442e+03
34	8.197518e+03	-1.501434e+03	-6.994133e+03
35	-9.575858e+03	1.130065e+03	3.963893e+03
36	-1.018983e+03	5.571259e+03	4.302961e+03
37	2.311650e+03	2.651232e+03	-1.402501e+03
38	-4.297131e+03	-2.612763e+03	5.372205e+03
39	4.921966e+02	-1.760800e+03	1.503776e+03
40	3.053529e+03	-7.396362e+03	-1.745451e+03
41	-7.349181e+02	-4.055622e+02	2.036672e+01
42	1.755739e+03	-1.208746e+02	1.091041e+02
43	-7.787681e+02	4.233087e+00	6.510662e+02
44	4.526819e-01	3.715405e+02	-9.216769e+02
45	-1.258054e+02	1.827408e+03	-8.484389e+02
46	-1.375800e+03	-1.772580e+02	1.268271e+01
47	-1.151616e+03	-4.134010e+03	7.653322e+03
48	-8.761434e+03	-1.428811e+03	1.001663e+03
49	-5.115526e+03	2.519294e+03	5.768554e+03
50	1.100883e+03	-4.062561e+03	7.826910e+02
51	3.071113e+03	5.091719e+03	-5.110101e+03
52	1.036038e+03	-1.042563e+03	1.453128e+02
53	-9.733937e+02	4.070518e+02	2.129290e+02

54	1.074638e+03	2.464931e+02	-7.758833e+02
55	1.986847e+02	7.934995e+02	-1.814463e+02
56	-7.803740e+03	-8.435927e+03	-2.955526e+03
57	4.987530e+03	-3.130096e+03	4.047753e+03
58	-8.047253e+00	1.385713e+03	4.554982e+02
59	-1.331310e+03	3.350797e+03	-3.986825e+03
60	2.860356e+03	-3.217743e+03	-8.496469e+03
61	7.057640e+03	4.892145e+02	-7.336145e+02
62	4.546005e+02	1.051214e+02	7.040336e+02
63	-1.209570e+03	-9.022686e+03	-6.074036e+03
64	4.426586e+03	-4.017131e+03	4.643922e+02
65	7.175709e+03	-6.638915e+03	1.239064e+03
66	-1.253567e+03	5.071956e+03	-6.703343e+03
67	-4.472370e+03	9.163913e+02	1.502572e+03

trajectory 39

atom	VX	VY	VZ
1	1.490587e+02	-1.396665e+02	1.780655e+02
2	1.210090e+03	5.037573e+02	-6.926867e+01
3	-8.204604e+02	-9.061253e+02	-1.326130e+03
4	-8.878156e+02	1.517084e+03	-1.237887e+02
5	1.277933e+03	-4.956281e+02	-1.209536e+03
6	-1.724457e+03	-2.548948e+03	1.225132e+04
7	6.496005e+02	2.929661e+03	-3.957136e+02
8	1.828274e+03	-2.051974e+03	3.617347e+02
9	-1.087531e+02	4.764618e+02	5.669617e+02
10	-1.687584e+03	2.987788e+02	4.833202e+02
11	1.068759e+02	-5.008419e+02	6.697507e+01
12	-4.395805e+03	-1.926162e+02	-6.542975e+03
13	2.375175e+03	2.792569e+03	-8.518646e+03
14	5.562956e+02	-5.261421e+02	-9.319129e+01
15	-9.671301e+02	-1.460590e+03	-2.127137e+03
16	1.810354e+03	5.840686e+02	1.263580e+03
17	3.004622e+01	1.387293e+01	-5.922504e+02
18	-4.740265e+02	7.652324e+02	1.101106e+02
19	-1.451334e+03	5.205825e+02	1.057213e+03
20	2.312771e+02	2.097936e+02	4.806239e+02
21	-1.076037e+03	-2.260425e+02	8.352914e+02
22	1.014837e+03	-1.045544e+02	8.623018e+02
23	-1.222768e+02	3.111958e+02	-6.203034e+01
24	-1.235864e+03	2.184424e+02	4.444494e+01
25	-8.995878e+02	2.718969e+02	1.606967e+02
26	8.475708e+02	1.025389e+03	-7.495878e+02
27	1.831718e+03	6.904354e+02	-9.616839e+02

28	-4.774201e+02	-6.499425e+02	-4.955815e+02
29	-1.481940e+03	-1.369253e+02	-1.114922e+03
30	1.187457e+03	6.827095e+02	-1.983495e+02
31	-1.194016e+03	7.359989e+02	-3.651619e+02
32	9.029314e+02	-1.292866e+03	1.430297e+03
33	1.752043e+03	3.670177e+03	-7.261252e+03
34	-6.796804e+03	7.154497e+02	-2.823889e+03
35	-7.434159e+02	-5.296463e+03	-1.493070e+03
36	3.439187e+03	6.164725e+03	7.010132e+03
37	3.967698e+03	-4.740265e+03	5.872958e+03
38	-1.263984e+03	-6.858357e+03	1.169118e+03
39	-2.913768e+03	5.073288e+02	2.131546e+03
40	-3.773441e+03	3.263131e+03	5.881910e+02
41	1.508274e+03	8.440242e+02	8.188180e+02
42	3.880109e+02	-1.481293e+03	-5.833341e+02
43	2.220582e+03	3.404242e+01	2.034643e+02
44	-4.087761e+02	4.436938e+02	9.390080e+02
45	-1.427393e+03	-1.440520e+03	5.787379e+02
46	-5.118342e+02	8.373550e+01	-9.046957e+02
47	2.389027e+03	5.353801e+03	6.589871e+02
48	3.383582e+03	-2.011008e+03	3.539231e+03
49	-1.016692e+03	6.559530e+03	-2.556460e+03
50	3.959498e+03	1.017963e+04	-4.819461e+03
51	-3.828012e+03	3.030987e+03	2.337664e+03
52	-1.072055e+03	1.403057e+03	1.071035e+03
53	4.118434e+01	-1.144826e+03	1.767023e+03
54	-1.567224e+02	3.639930e+02	-7.552597e+02
55	-4.561980e+02	-9.660343e+02	9.313917e+02
56	-1.293002e+03	-8.112019e+02	-4.869634e+03
57	6.480790e+03	-5.136067e+03	1.545790e+02
58	-1.940107e+03	-7.899773e+03	4.156272e+03
59	5.152229e+03	-5.930045e+03	-1.729464e+03
60	6.393929e+03	-1.281857e+03	-2.922377e+03
61	-7.377111e+03	-7.188468e+03	-3.251267e+03
62	6.732036e+02	3.064492e+03	3.167444e+03
63	-4.003419e+03	-7.690219e+03	-4.292204e+03
64	3.229425e+03	-4.704321e+03	-3.001724e+02
65	-4.363547e+03	-1.182942e+03	4.072640e+03
66	8.166496e+03	1.138285e+03	6.998467e+03
67	-3.647406e+03	3.962896e+03	4.525645e+02

trajectory 40

atom	VX	VY	VZ
1	5.481760e+01	2.426949e+02	2.803290e+02

2	8.083166e+01	1.415956e+02	4.527035e+01
3	-1.087942e+03	7.860273e+02	1.768742e+03
4	9.366551e+02	-1.116707e+02	-4.699743e+02
5	4.540387e+02	3.311045e+02	-2.339083e+03
6	2.622684e+02	-3.698710e+03	-7.918142e+02
7	-7.571353e+02	-1.317480e+03	4.391387e+03
8	3.659551e+03	1.317240e+03	1.008985e+04
9	-4.793645e+01	-6.768212e+02	1.819586e+02
10	-8.029912e+02	-1.242102e+03	2.880223e+02
11	-6.052783e+02	1.753636e+03	-1.199573e+03
12	1.569346e+02	-5.840868e+03	1.352762e+03
13	1.922224e+03	1.153996e+03	-1.819647e+03
14	-1.102198e+02	-7.186780e+02	-2.048757e+02
15	-1.959104e+03	-1.223719e+03	-1.308594e+03
16	1.070246e+03	1.195060e+03	5.938035e+02
17	4.318275e+02	-1.717329e+02	-2.328269e+01
18	-3.040033e+02	7.245178e+02	9.814872e+02
19	-8.537088e+02	-7.792759e+02	2.277307e+02
20	1.009672e+03	-2.417369e+02	3.731947e+02
21	-3.355410e+02	-1.286044e+03	7.241659e+02
22	-1.882298e+02	1.164090e+03	1.021097e+03
23	-3.947491e+02	1.600324e+02	-9.617776e+02
24	3.014407e+02	7.228360e+02	-4.989782e+02
25	-6.190967e+02	6.924263e+02	8.857441e+02
26	-9.212112e+02	-7.332026e+02	-4.370195e+02
27	-5.409093e+01	-1.462120e+03	-7.362619e+02
28	-1.215602e+03	2.091216e+02	6.224433e+02
29	4.619970e+02	2.116180e+02	1.090143e+03
30	-1.366199e+03	-2.292706e+02	-6.442821e+01
31	5.849241e+02	-4.043055e+02	-7.780165e+02
32	-6.291960e+02	1.538562e+02	1.285490e+03
33	-3.495648e+02	-4.101045e+02	-5.701168e+03
34	1.264096e+03	1.095818e+04	-7.477894e+03
35	5.074332e+03	6.593918e+01	-2.797581e+03
36	5.162287e+03	4.554243e+03	3.679965e+03
37	3.433824e+03	-4.196858e+03	-1.797529e+03
38	6.234356e+03	2.509278e+03	-7.900434e+03
39	-1.976479e+03	-2.911123e+03	-3.029017e+02
40	-3.273881e+03	6.520304e+03	-3.229171e+03
41	1.963866e+03	-1.243360e+03	-1.100646e+03
42	-1.040091e+03	-1.443783e+02	-6.388638e+02
43	-7.785545e+02	4.078411e+02	9.197736e+02
44	-4.029252e+02	-1.606057e+03	3.181800e+02
45	2.143037e+02	7.023161e+02	-4.097243e+02
46	1.103941e+03	-2.773204e+02	2.059883e+03
47	4.427365e+03	3.006190e+03	-3.916359e+02

48	-5.565981e+03	-2.566638e+03	-3.497251e+02
49	3.334924e+03	-2.683359e+03	-7.792428e+02
50	5.398708e+03	1.222935e+04	-4.752268e+03
51	7.862347e+02	7.206432e+03	2.275986e+03
52	-4.174807e+02	2.141146e+01	-2.170975e+03
53	-4.579888e+02	-4.280218e+01	6.654940e+02
54	-2.998030e+02	5.150496e+02	-2.128535e+02
55	-2.623587e+02	-1.237984e+03	1.254485e+03
56	4.462237e+01	6.966110e+03	5.644884e+02
57	-1.849823e+02	3.378216e+03	-3.006781e+03
58	-5.441785e+03	1.456790e+03	8.739515e+03
59	2.949422e+03	6.683379e+03	-9.565565e+03
60	-1.111831e+03	1.314555e+03	4.320678e+02
61	3.327263e+03	-3.292407e+03	-3.758951e+03
62	-2.735960e+03	7.170875e+03	-7.085755e+03
63	2.439226e+03	1.555040e+03	4.931484e+02
64	2.727484e+02	-4.295500e+03	-8.251301e+02
65	-4.512754e+03	-3.817866e+03	-6.136103e+03
66	-1.889025e+02	-4.678505e+03	-4.357158e+03
67	4.527529e+03	3.112307e+03	-7.662640e+03

trajectory 41

atom	VX	VY	VZ
1	4.089408e+01	1.894914e+02	1.056515e+01
2	1.111477e+03	-5.767060e+02	2.110398e+02
3	-6.383802e+02	1.282114e+03	-9.259855e+02
4	1.359430e+02	-1.427299e+02	1.768461e+03
5	-6.075434e+02	2.460333e+02	-1.421217e+03
6	-9.030629e+02	2.440872e+03	4.929681e+02
7	-1.046210e+03	4.980491e+03	-2.370895e+03
8	8.255734e+03	-1.552059e+03	6.982140e+03
9	5.488115e+02	-3.603914e+02	1.096060e+03
10	-5.830646e+02	4.570776e+02	-9.017658e+02
11	-1.218529e+03	1.165961e+02	-1.288733e+03
12	4.653280e+03	-7.030250e+03	4.163729e+03
13	2.165618e+03	5.430355e+03	1.419324e+03
14	1.060855e+03	7.474208e+02	3.749885e+02
15	7.355662e+02	2.433845e+03	-4.567491e+02
16	-1.067848e+03	-1.847681e+03	-5.127363e+02
17	-3.689100e+01	1.943482e+01	1.015400e+02
18	-1.335897e+02	1.699414e+02	1.915185e+02
19	-4.846596e+02	-1.326917e+03	1.182106e+03
20	4.769732e+02	3.576486e+02	-8.443373e+02
21	-4.403262e+02	-1.192395e+03	-3.029742e+02

22	9.339118e+02	4.192605e+02	3.133652e+02
23	5.370509e+02	-1.486111e+02	4.377388e+02
24	6.904064e+01	1.221644e+02	6.160122e+02
25	3.218845e+02	-9.029953e+02	1.631057e+02
26	-1.046202e+03	-7.271664e+02	-5.417177e+02
27	-4.713080e+02	-1.128356e+03	-1.388407e+03
28	-4.922682e+02	-8.850972e+02	1.565089e+03
29	7.103462e+02	-7.030142e+02	-1.511378e+02
30	-5.155135e+02	1.740042e+03	-1.639047e+03
31	1.821719e+03	-1.156645e+03	8.090534e+02
32	-8.620673e+02	-6.270049e+02	-6.167948e+02
33	3.339703e+03	-4.195277e+03	5.838109e+02
34	-7.685614e+03	1.103985e+03	5.297523e+03
35	-3.879342e+03	-5.674116e+03	-1.958129e+03
36	1.413279e+03	6.240498e+03	5.482269e+03
37	-2.816837e+03	6.704677e+03	-4.708952e+03
38	2.781522e+03	1.216498e+03	-2.477747e+03
39	7.925202e+02	6.406822e+03	-4.925294e+03
40	2.587664e+03	-4.706242e+03	-6.114176e+03
41	-1.063928e+02	-2.588846e+02	-9.113559e+02
42	-7.305172e+02	1.419598e+03	-4.181547e+02
43	1.656110e+03	-4.097518e+02	9.111042e+02
44	-5.822093e+01	-8.903244e+01	5.718117e+02
45	3.084545e+02	5.315525e+02	1.026661e+02
46	-2.227846e+02	9.561540e+02	-1.498836e+02
47	2.121902e+03	-1.026557e+04	2.169800e+03
48	-3.006063e+03	-6.885960e+03	5.766855e+03
49	-7.881576e+02	-9.147359e+02	7.328216e+03
50	9.275485e+02	2.595932e+02	-5.176506e+03
51	-2.331118e+03	5.094643e+02	-2.816205e+03
52	1.416971e+02	6.285248e+02	1.235387e+03
53	-1.943819e+02	1.264094e+03	3.311102e+02
54	-7.225383e+01	-2.716401e+02	-1.072356e+03
55	-4.757859e+01	-1.124176e+03	8.987144e+02
56	-1.747877e+03	-6.213577e+03	6.487103e+02
57	5.665543e+03	-4.788265e+03	-3.294862e+03
58	-4.378423e+03	-2.184966e+01	5.234543e+03
59	3.891642e+03	6.334342e+03	-3.018313e+03
60	2.048805e+03	1.479783e+03	-4.421275e+03
61	-7.343878e+03	-9.252617e+02	-7.135940e+03
62	-6.522823e+03	1.034068e+04	-4.453620e+03
63	1.136104e+03	2.012839e+03	2.773929e+03
64	1.086899e+03	-3.275253e+03	3.009915e+03
65	1.700850e+03	-8.861187e+01	7.891551e+02
66	-7.034848e+03	2.365047e+03	-9.935975e+03
67	-2.861070e+03	1.095592e+03	-6.873284e+02

trajectory 42

atom	VX	VY	VZ
1	7.973145e+00	4.539902e+02	-1.656560e+02
2	-1.654455e+02	-3.233873e+02	-8.770584e+02
3	7.279693e+02	2.569976e+02	-9.395568e+02
4	-6.118129e+01	-1.010156e+03	6.015971e+02
5	4.106212e+02	2.747370e+03	1.080992e+03
6	1.611708e+03	-2.345128e+02	-1.914323e+03
7	-5.559821e+03	1.929107e+03	-5.838117e+03
8	-5.695008e+03	-1.815867e+03	-5.544400e+03
9	-4.869259e+02	-6.230803e+02	8.439067e+02
10	1.370280e+02	-1.051260e+03	-2.417136e+02
11	-2.652338e+02	9.021467e+02	8.931270e+02
12	-6.660355e+02	-9.134600e+03	1.300783e+03
13	3.025371e+03	-1.216522e+02	-4.564304e+03
14	5.642162e+02	1.098830e+02	1.094409e+03
15	4.190840e+01	1.049234e+03	4.728418e+02
16	-1.769453e+03	-7.871025e+02	-1.230499e+03
17	-1.940762e+02	-6.761547e+00	1.387448e+01
18	6.515319e+02	7.113233e+02	6.677288e+01
19	1.603559e+03	5.945147e+02	-1.367963e+03
20	-5.011195e+02	-3.560020e+02	4.537300e+02
21	4.094267e+02	5.576071e+02	2.390115e+02
22	-6.278419e+02	-5.204940e+02	-1.055148e+03
23	-1.351508e+03	-3.341189e+02	-1.535146e+02
24	2.337331e+03	-6.386745e+02	5.781186e+02
25	1.121441e+02	9.729765e+02	6.618092e+02
26	-4.294325e+02	-9.146567e+02	-4.549381e+02
27	-1.658037e+01	1.778529e+03	-1.114192e+03
28	-5.160257e+02	-4.759713e+02	1.281427e+03
29	1.183583e+03	-1.627678e+02	-2.687639e+02
30	2.905315e+02	9.334150e+02	1.100995e+03
31	2.440061e+02	-7.692904e+02	4.090087e+02
32	-9.532674e+02	1.680994e+03	-8.117335e+02
33	-6.482597e+03	-3.751245e+03	3.150097e+03
34	4.853726e+03	3.270986e+03	4.175764e+03
35	2.875277e+03	-1.373775e+03	-1.735674e+03
36	3.839175e+03	1.973288e+03	8.430117e+03
37	-2.787145e+03	-9.185671e+03	1.247305e+02
38	-3.586963e+03	-2.192935e+03	7.618914e+03
39	-4.198027e+02	-1.974385e+03	-3.837946e+03
40	3.786758e+03	-6.851733e+03	2.544335e+03
41	1.024655e+03	3.041574e+02	-8.112217e+02

42	-2.233316e+03	-1.202846e+03	3.484527e+02
43	-1.138358e+03	7.049786e+02	3.646531e+02
44	-5.283111e+01	-1.646061e+03	4.129332e+02
45	8.747306e+02	4.146288e+02	-7.928827e+02
46	3.431983e+02	4.215979e+02	-1.217079e+03
47	-2.895988e+03	9.658820e+02	7.657037e+03
48	5.987417e+03	1.666974e+03	-2.744704e+03
49	-4.809731e+03	-2.129037e+03	-2.114403e+03
50	5.096295e+03	-7.931364e+03	7.580860e+03
51	-3.323545e+03	-5.492402e+03	1.562577e+03
52	9.341722e+02	-6.072099e+02	-4.333229e+02
53	2.931043e+02	8.776764e+02	-7.095210e+02
54	2.311351e+01	2.184410e+02	-3.687321e+02
55	1.919942e+03	-2.851217e+02	-6.993698e+01
56	-3.376102e+03	-1.616452e+03	-9.483879e+02
57	8.073985e+02	4.448761e+03	1.010808e+04
58	3.921765e+01	-5.177904e+03	4.982035e+03
59	-3.043214e+03	-3.161703e+03	9.666729e+03
60	6.218531e+03	-5.266333e+02	-7.587432e+02
61	-1.884682e+02	-7.417444e+02	-3.955154e+03
62	-7.216150e+03	-2.066177e+03	8.096399e+02
63	-4.831898e+03	-7.101514e+03	-3.036043e+03
64	2.249747e+03	-7.209916e+03	-2.089504e+03
65	1.549804e+03	-9.841187e+03	4.361094e+03
66	-1.487797e+03	5.012804e+02	-1.934462e+03
67	-6.392616e+03	2.059738e+02	-1.662567e+03

trajectory 43

atom	VX	VY	VZ
1	6.738807e+01	1.825278e+02	-9.658793e+01
2	9.353013e+02	2.787413e+02	2.220905e+02
3	1.023202e+03	-1.488706e+03	-2.358144e+01
4	-7.574371e+01	-8.160058e+01	7.858211e+02
5	-6.981603e+02	4.903513e+02	-5.310744e+02
6	2.513656e+03	1.719123e+03	2.698419e+03
7	5.355814e+03	-5.380283e+03	4.672777e+03
8	-6.423198e+03	-6.600193e+03	-8.314528e+03
9	-5.918990e+00	9.682017e+02	1.046849e+03
10	3.550451e+02	-7.747402e+02	9.754835e+02
11	-9.653479e+02	1.959968e+03	-1.419004e+02
12	-1.409536e+03	2.518199e+03	-6.866563e+03
13	-3.206352e+03	2.783543e+03	-9.588381e+03
14	-8.542335e+01	5.493634e+01	4.664545e+02
15	-9.080790e+02	1.391543e+03	1.433431e+03

16	-9.095654e+02	6.547996e+01	-9.519429e+02
17	6.422369e+01	-1.305608e+02	-2.611904e+02
18	-4.436560e+02	-1.572552e+02	-1.344271e+02
19	2.536008e+03	1.258942e+02	-6.275198e+02
20	4.263658e+01	-1.656279e+03	2.017666e+02
21	-1.193952e+03	-6.467712e+02	-1.983244e+02
22	6.275441e+02	-4.744904e+02	7.130285e+02
23	5.817482e+02	-3.459588e+02	-8.785067e+02
24	5.272825e+02	-3.647952e+02	6.092771e+01
25	-6.374224e+02	-6.350099e+02	-5.108364e+02
26	-2.839931e+02	1.730480e+03	1.275654e+03
27	2.852654e+03	7.441878e+02	4.347926e+02
28	-2.090946e+03	-5.571860e+01	2.147977e+02
29	3.706067e+02	-7.187376e+02	7.666578e+02
30	1.147173e+03	6.886705e+02	-2.882147e+02
31	-8.671460e+02	-9.320547e+01	-5.006530e+02
32	3.120761e+02	-5.945831e+01	-1.528871e+02
33	-2.512876e+02	3.258651e+03	1.067025e+03
34	7.173792e+03	2.793487e+03	-1.776288e+02
35	-5.022165e+03	-7.890413e+03	-7.998236e+03
36	-8.979146e+01	1.508829e+03	-5.583250e+03
37	-6.319787e+03	6.260998e+03	-2.488262e+03
38	9.615895e+02	2.976554e+03	1.599757e+03
39	-1.754250e+03	-2.577549e+03	4.730130e+03
40	-8.177445e+02	6.196132e+03	-9.065421e+02
41	2.775682e+02	-1.705174e+02	2.449680e+02
42	8.720180e+02	-9.850776e+02	-2.944970e+02
43	3.730342e+02	-1.339460e+03	1.363388e+03
44	-8.885754e+02	8.946162e+02	-1.102870e+03
45	-1.057019e+03	-6.894712e+02	5.610769e+02
46	-1.676384e+02	-3.134901e+02	5.013443e+02
47	-4.624796e+03	1.730291e+03	-2.436397e+03
48	-2.481030e+03	4.568746e+03	-1.922856e+03
49	7.902650e+03	-8.607772e+03	9.303115e+01
50	2.596787e+03	6.171507e+03	9.255211e+02
51	-3.206465e+03	5.460536e+03	-6.113854e+02
52	-1.673003e+03	7.326201e+01	2.435019e+02
53	-2.029439e+02	1.437781e+03	9.809313e+02
54	-5.873399e+02	3.618567e+02	-1.104977e+01
55	1.413824e+03	1.462381e+02	5.559733e+00
56	1.089407e+04	4.221604e+03	1.320698e+02
57	6.411927e+03	-1.091220e+02	4.052786e+03
58	-6.748270e+02	-1.076813e+03	-9.787671e+02
59	3.415676e+02	-9.498481e+03	2.854849e+03
60	-1.416028e+03	-6.604919e+03	-6.121686e+03
61	-2.097997e+03	-3.707204e+03	-3.067465e+03

62	3.572793e+03	2.058911e+03	1.499139e+03
63	3.997510e+02	-2.253557e+03	1.103489e+03
64	-1.232984e+04	1.163792e+03	2.216806e+02
65	-7.306752e+02	-1.911960e+03	-1.972142e+03
66	-6.817233e+03	-3.507935e+03	-5.980135e+03
67	-5.817676e+02	-3.547572e+03	-3.998743e+03

trajectory 44

atom	VX	VY	VZ
1	-6.502141e+01	1.783376e+02	-2.816542e+02
2	-2.993846e+02	1.960897e+02	-1.607193e+02
3	8.787980e+02	-2.488402e+03	-1.278920e+03
4	5.717811e+02	5.551468e+02	4.909319e+02
5	5.730562e+02	1.110159e+03	3.840190e+02
6	-5.762850e+03	-1.892862e+03	-9.971595e+01
7	4.838076e+03	-4.880877e+03	-4.244627e+03
8	-1.040289e+03	-6.179827e+03	2.072937e+03
9	-1.058283e+02	1.539702e+03	1.940750e+02
10	-1.240613e+03	7.593444e+02	-7.985704e+02
11	-6.441933e+02	6.842295e+02	1.524388e+03
12	7.006665e+03	-3.607131e+03	3.429979e+03
13	-3.623728e+03	-3.081536e+03	8.116738e+03
14	2.008557e+03	-1.193139e+01	5.840976e+01
15	7.160704e+02	4.704902e+02	-6.648072e+02
16	7.039176e+02	-1.003373e+03	-1.950436e+02
17	-4.259402e+00	1.453922e+02	3.568991e+02
18	-6.603699e+02	5.869325e+01	-4.098895e+02
19	2.694693e+02	-1.025216e+03	1.267433e+03
20	1.127770e+03	3.936710e+02	-8.960667e+02
21	1.507892e+03	5.235502e+02	-1.333996e+02
22	-8.393603e+02	-1.140200e+03	4.339344e+02
23	-1.686094e+02	-1.398716e+03	-3.698403e+02
24	-4.303696e+02	-3.725755e+02	2.716066e+02
25	-1.753870e+03	-1.441643e+02	-1.138789e+03
26	3.462899e+02	8.378740e+02	8.635026e+02
27	8.643734e+02	-9.804540e+01	5.049664e+02
28	-1.047068e+03	-3.861721e+02	-8.220655e+02
29	1.215555e+02	6.110108e+01	5.536472e+02
30	-1.413923e+03	-1.364727e+01	5.368052e+02
31	-5.788004e+01	-3.979470e+02	-4.393762e+01
32	-1.112814e+03	1.201786e+03	-7.896856e+02
33	5.231197e+03	1.053858e+03	4.880004e+03
34	-4.753426e+03	-4.359956e+03	7.036472e+03
35	3.814347e+03	-5.471418e+03	-1.993911e+03

36	-4.477837e+03	-3.433767e+03	-2.169723e+03
37	4.018078e+03	5.866092e+03	-5.612846e+03
38	2.623034e+03	1.881073e+03	-1.306137e+03
39	-3.004220e+03	4.579729e+03	2.393790e+03
40	2.697507e+03	-7.593061e+03	-7.630099e+03
41	5.303350e+02	8.821084e+02	-1.434187e+03
42	-1.738963e+03	-3.247957e+02	9.752358e+02
43	8.868621e+02	-4.121631e+02	-2.395005e+01
44	-1.743336e+02	5.602444e+02	1.937841e+03
45	-1.359797e+03	-1.793288e+01	-6.864475e+02
46	6.926324e+02	5.923909e+02	-6.924787e+02
47	-4.732317e+03	-5.988382e+03	5.202753e+03
48	8.629997e+03	-6.171519e+02	-2.221833e+03
49	8.330904e+03	-4.589083e+03	-4.428137e+03
50	8.759369e+02	3.321377e+03	-1.801091e+03
51	4.306553e+03	4.810493e+03	2.634544e+03
52	4.078596e+02	-3.880588e+02	4.441290e+01
53	-9.070099e+02	-6.507607e+02	-3.645673e+02
54	-7.101181e+02	-1.478914e+02	3.535389e+02
55	-8.001707e+02	-5.931144e+02	-2.223193e+02
56	-5.935623e+03	1.380302e+03	-5.466654e+01
57	-7.928246e+02	-7.510121e+03	-6.012230e+03
58	-5.984147e+03	-2.491606e+03	5.587415e+02
59	8.521695e+03	1.733479e+02	-7.237379e+03
60	-6.766658e+02	4.624633e+02	2.736509e+02
61	-9.766285e+02	6.160455e+03	3.160087e+02
62	-1.072460e+03	3.140701e+03	2.470868e+03
63	-2.125677e+03	-5.567622e+02	6.759833e+03
64	7.229789e+03	-6.947556e+03	-4.439590e+03
65	-6.115596e+03	8.598826e+03	-1.475248e+03
66	1.649435e+03	-3.375221e+03	3.260810e+03
67	7.750594e+03	6.883611e+02	2.870830e+03

trajectory 45

atom	VX	VY	VZ
1	-2.023430e+02	-9.803052e+01	3.426480e+02
2	-6.179154e+00	-4.557101e+02	1.216459e+03
3	3.411393e+02	1.373650e+03	1.302202e+03
4	-6.090209e+02	1.448750e+03	-8.074303e+02
5	-3.648210e+01	1.447282e+03	6.377645e+02
6	1.741795e+03	-4.005275e+03	-3.639653e+03
7	-2.466434e+03	-6.878928e+03	-3.815556e+03
8	8.332241e+03	-2.864052e+03	1.334800e+03
9	-8.847211e+02	-9.945143e+01	-1.225054e+03

10	1.228861e+03	-5.221920e+02	-2.375018e+03
11	-1.563384e+03	-7.027056e+02	9.280908e+02
12	-5.647764e+03	4.147615e+03	-6.099348e+03
13	-5.584951e+03	-3.359144e+03	4.288287e+02
14	-1.145898e+02	-1.697569e+02	1.468262e+02
15	-1.382587e+02	1.469068e+02	-1.240540e+03
16	4.663403e+01	-6.689115e+02	-3.406499e+02
17	-8.700014e+01	4.680063e+01	2.035676e+02
18	-4.884069e+02	5.824538e+02	5.590677e+02
19	5.734525e+02	6.296824e+02	-3.433937e+02
20	8.478452e+02	-8.071660e+02	-3.851628e+02
21	-1.345657e+03	-8.566296e+02	-7.666810e+02
22	5.680805e+02	2.526280e+03	-1.788587e+03
23	8.192260e+02	-4.356985e+01	-2.521028e+02
24	-7.266228e+02	1.376461e+03	-2.243265e+02
25	-3.221659e+02	-5.976010e+02	1.567099e+03
26	6.801741e+02	1.415859e+03	-8.778482e+02
27	-6.286340e+02	-8.407354e+02	3.649541e+02
28	1.638633e+02	-2.041940e+02	7.160007e+02
29	1.173342e+03	8.324620e+02	-5.848398e+02
30	4.505735e+01	2.132992e+03	4.208142e+02
31	-3.177689e+01	-1.702629e+03	7.030581e+02
32	-2.347882e+02	1.476384e+03	-5.699664e+02
33	1.986903e-01	-8.352261e+03	1.857766e+03
34	1.823512e+03	-1.830691e+03	-5.648820e+03
35	-3.034944e+03	4.429922e+03	2.279946e+03
36	-2.091132e+03	-3.910957e+02	-7.479007e+03
37	-9.829375e+02	-1.883962e+03	6.429259e+03
38	3.342230e+03	5.998866e+02	-4.764357e+03
39	5.303010e+03	1.106324e+02	1.031560e+03
40	-5.284602e+03	4.341009e+03	-6.898253e+03
41	-4.319551e+02	3.321051e+02	2.509026e+02
42	2.882904e+03	-4.649014e+02	1.270299e+02
43	-7.025186e+01	-6.385766e+01	1.879673e+02
44	3.028644e+02	-5.813253e+02	8.184563e+02
45	1.291518e+03	-6.254231e+02	-1.374677e+02
46	-5.437798e+02	-7.418160e+01	-5.588742e+00
47	3.424892e+03	-4.803003e+03	9.847421e+03
48	-5.548897e+03	1.726259e+03	-2.161176e+03
49	-5.725205e+03	3.259985e+03	1.546539e+03
50	3.297535e+02	-6.670013e+02	-4.423073e+03
51	-4.039882e+03	-6.816013e+03	5.669968e+03
52	-2.345048e+02	-1.052343e+03	8.842046e+02
53	-2.569885e+02	-7.968965e+02	8.284789e+02
54	-1.846357e+02	5.481931e+02	-7.126532e+02
55	8.383677e+02	-1.790837e+03	-7.104190e+02

56	-1.275939e+03	-1.239391e+02	-4.523850e+03
57	2.004503e+02	4.281442e+02	-2.468089e+03
58	7.454218e+03	1.318235e+03	-5.204354e+03
59	3.458882e+03	-3.952973e+03	-3.229359e+03
60	2.534323e+02	-1.210081e+03	-3.290746e+03
61	-8.904212e+03	-4.426355e+03	-7.605992e+02
62	7.742459e+03	-3.701021e+03	-2.385822e+03
63	-6.631950e+03	-8.874979e+03	2.469981e+01
64	4.097346e+03	3.650605e+03	-1.424180e+03
65	1.510430e+03	7.802956e+01	3.841384e+03
66	6.091924e+03	-8.601338e+02	1.287552e+04
67	3.543604e+03	1.326488e+01	1.916056e+03

trajectory 46

atom	VX	VY	VZ
1	-1.071995e+02	2.877719e+02	8.228318e+01
2	8.116990e+02	-1.431070e+03	1.247735e+03
3	-6.624374e+02	9.629684e+02	6.335717e+02
4	2.898312e+02	3.858471e+01	-1.011760e+03
5	-6.317909e+02	-5.892601e+02	-2.337206e+02
6	-9.522957e+03	-1.930036e+02	5.368549e+03
7	2.984280e+03	2.203575e+03	2.333950e+03
8	2.461737e+03	1.690756e+03	-1.886068e+03
9	6.123929e+02	-6.850671e+01	-9.933094e+02
10	3.765416e+02	-1.047877e+03	-1.927603e+02
11	-1.663567e+03	8.236494e+02	-4.091123e+02
12	2.030638e+03	-1.336402e+03	3.002060e+03
13	1.277577e+03	-4.343424e+03	7.268093e+03
14	-1.433827e+03	9.953938e+01	5.675276e+02
15	-4.583434e+01	-3.436078e+02	-3.121734e+02
16	-8.501698e+02	2.490947e+02	-4.528236e+02
17	2.815771e+02	-9.107257e+01	-1.002354e+02
18	4.138125e+02	-1.172160e+03	1.064017e+03
19	1.716702e+02	9.541447e+02	-4.422758e+02
20	-6.260631e+02	-1.152691e+03	-3.344097e+01
21	-1.842360e+01	3.668653e+02	-5.235031e+02
22	-1.052651e+03	-1.601645e+02	2.422273e+03
23	1.390685e+03	4.763529e+02	9.473269e+02
24	-1.068587e+02	-3.426346e+02	-9.418662e+02
25	-1.344208e+03	9.446521e+01	2.001550e+02
26	1.273210e+03	4.729664e+02	1.921958e+02
27	-2.667775e+01	-4.495904e+02	-5.230227e+02
28	-1.094298e+03	2.000655e+03	-1.234567e+03
29	1.215308e+03	-5.068077e+02	1.436732e+02

30	1.271099e+03	-4.348498e+02	-1.313077e+03
31	-1.877845e+03	9.434576e+02	5.715094e+02
32	-7.540985e+02	-6.659895e+02	-3.791082e+00
33	5.967805e+02	6.815594e+03	-7.330288e+03
34	-2.511934e+03	-4.983035e+03	1.674480e+03
35	-1.999721e+03	2.308070e+03	6.247012e+03
36	2.106203e+03	-8.169252e+03	5.621522e+03
37	5.079941e+02	1.518698e+03	-2.855847e+03
38	-7.074848e+03	2.900322e+02	4.077164e+03
39	3.863659e+03	-3.675942e+03	9.329070e+02
40	2.511001e+03	-6.762451e+03	-3.539727e+03
41	-2.981272e+01	-1.176259e+03	9.224374e+02
42	-1.506112e+03	2.107916e+03	-1.081736e+02
43	-1.079965e+03	-7.491374e+02	7.451029e+02
44	9.586370e+01	-5.783589e+02	-3.659319e+02
45	-5.433097e+02	1.932840e+02	6.164575e+02
46	1.001462e+03	-8.381799e+02	-1.183113e+03
47	4.097925e+03	3.699740e+03	7.089773e+03
48	8.401988e+03	1.164697e+03	-3.668869e+03
49	1.156803e+03	-7.310612e+03	-5.496028e+02
50	2.581384e+03	-5.903858e+03	-1.054579e+03
51	6.716138e+03	9.482738e+03	-1.248757e+03
52	1.997766e+03	-2.265283e+02	4.057781e+02
53	-2.926593e+02	-3.474436e+02	-1.574750e+03
54	1.470626e+03	5.216732e+02	4.665580e+02
55	4.071019e+02	1.831959e+03	-6.806202e+02
56	-5.387534e+03	-7.324701e+03	-5.372664e+03
57	4.206708e+03	5.645733e+02	-2.126034e+02
58	-1.303872e+03	4.718826e+02	-3.145600e+03
59	-2.535509e+03	2.352446e+03	3.255322e+03
60	-2.498271e+03	2.322202e+03	-1.221021e+03
61	6.284717e+03	7.595232e+03	3.475045e+03
62	-1.017353e+03	1.791204e+03	1.611636e+03
63	8.698217e+02	2.305123e+03	2.566788e+03
64	-1.014127e+04	-2.098349e+03	1.595139e+03
65	3.093023e+03	-2.092835e+03	-8.454911e+03
66	3.188309e+03	1.780392e+03	1.421927e+03
67	-2.649853e+03	-8.426402e+03	6.043043e+03

trajectory 47

atom	VX	VY	VZ
1	1.453649e+02	-3.132303e+01	-4.300634e+02
2	1.274700e+02	1.142863e+03	-1.508127e+03
3	-5.876988e+02	2.389953e+02	-8.873600e+02

4	3.373559e+02	-8.048141e+02	-5.177112e+02
5	1.992820e+02	-1.800276e+02	-2.005855e+02
6	-3.965225e+03	3.934095e+03	-2.065108e+03
7	3.368213e+03	2.299571e+03	2.833844e+03
8	1.028447e+04	1.708267e+03	4.571093e+03
9	-5.944075e+02	-1.764649e+02	1.276471e+03
10	1.380442e+03	-7.164701e+02	1.811209e+02
11	7.215886e+02	1.072876e+03	8.159236e+02
12	3.997041e+03	-3.012642e+03	1.027977e+03
13	-1.189545e+03	-4.916327e+03	7.207048e+03
14	1.081897e+02	1.218151e+03	1.218062e+03
15	-1.111415e+02	7.829265e+02	-1.808983e+03
16	-2.594017e+02	-6.476313e+02	2.958096e+02
17	-3.150393e+01	-3.161129e+02	1.401827e+02
18	-1.024610e+03	-1.296285e+02	8.469797e+02
19	2.138142e+03	1.932456e+02	1.981799e+02
20	-7.570681e+02	6.363582e+02	-4.359830e+02
21	1.228134e+02	1.727233e+03	-1.723616e+02
22	2.015355e+03	-1.097995e+03	-2.025703e+02
23	-1.312327e+03	7.923994e+02	-7.867920e+01
24	3.194256e+02	-5.985132e+02	-1.379368e+02
25	-8.092484e+02	3.254684e+02	1.320203e+03
26	1.054486e+03	1.004279e+03	6.510301e+02
27	-8.383662e+02	-8.395758e+01	-3.074484e+02
28	-3.604461e+02	-1.067655e+03	5.814918e+02
29	1.517874e+03	-3.758640e+02	-7.131251e+02
30	-9.892334e+02	-3.387123e+02	-2.618264e+03
31	1.273037e+03	-1.643049e+03	1.004651e+02
32	-6.487189e+02	1.586266e+02	1.414086e+03
33	-3.194575e+03	3.615849e+03	4.147616e+02
34	8.442227e+03	-1.215537e+03	-4.652321e+03
35	1.970663e+03	6.729335e+03	4.275146e+03
36	2.882989e+03	-4.116140e+03	9.296126e+02
37	9.715126e+02	5.865955e+03	-2.541923e+03
38	4.216216e+01	1.166365e+03	-1.888777e+03
39	-1.887744e+03	-6.263443e+02	-5.395028e+02
40	6.973961e+03	1.781373e+03	-3.236619e+03
41	-8.559522e+02	5.414638e+02	-1.116415e+03
42	-1.456307e+03	5.660175e+02	4.254661e+02
43	-1.075703e+03	-1.153945e+03	1.059579e+03
44	6.475852e+02	-8.113646e+02	1.591769e+03
45	-1.407477e+03	2.419847e+03	-4.545782e+02
46	-4.414695e+02	-5.249887e+02	1.297996e+03
47	-1.043143e+04	-2.615251e+03	-6.545764e+03
48	9.945926e+03	5.315803e+03	-3.808247e+03
49	-3.936733e+02	2.448528e+03	-3.913515e+03

50	-1.379996e+03	-2.217926e+03	8.964702e+02
51	3.612205e+02	3.041370e+03	-6.162832e+02
52	-1.041605e+03	-3.758575e+02	7.674189e+02
53	-1.137212e+03	1.246191e+02	7.193194e+02
54	1.428766e+03	-4.356252e+02	5.420945e+02
55	-1.099923e+02	-9.458364e+02	3.406254e+02
56	2.981427e+03	3.043691e+03	7.369996e+02
57	2.613183e+03	-7.581548e+03	-5.301465e+03
58	3.466651e+03	1.900383e+03	-2.267253e+03
59	2.164018e+03	-2.209343e+03	-1.769320e+03
60	-3.288349e+03	-4.830100e+03	-4.653676e+03
61	4.406319e+03	6.808967e+03	3.425098e+03
62	8.022941e+00	-3.737406e+03	-1.327390e+03
63	-2.775385e+03	1.605136e+03	-1.013920e+04
64	-1.066517e+04	1.050559e+03	-3.579053e+02
65	-2.197995e+03	-3.805403e+02	-3.090790e+03
66	-5.981020e+03	-2.788855e+03	2.969078e+03
67	7.693924e+03	1.472695e+03	-6.049142e+03

trajectory 48

atom	VX	VY	VZ
1	-4.239314e+02	1.009993e+02	-1.876142e+01
2	-5.336716e+02	-9.133931e+02	9.979621e+02
3	8.920778e+02	-2.084529e+02	1.495756e+03
4	3.826371e+01	1.877536e+02	2.302233e+01
5	3.439706e+01	1.479901e+03	-9.934053e+02
6	-6.213136e+03	-2.661778e+03	5.340050e+03
7	2.154206e+03	5.666946e+03	-5.629100e+02
8	6.339665e+03	4.076162e+02	-5.695102e+03
9	-6.487524e+02	-1.160685e+02	-4.557431e+02
10	7.398856e+02	7.491842e+02	3.527433e+02
11	7.025235e+02	-1.023824e+03	5.761942e+02
12	-4.457965e+03	2.777487e+03	-3.889182e+02
13	-5.300659e+03	7.848504e+03	-5.859424e+03
14	-7.172483e+02	-2.015100e+02	1.695075e+02
15	-2.210127e+03	-1.460448e+03	-2.045458e+02
16	1.655286e+02	2.577262e+02	-3.105897e+02
17	3.146083e+02	4.079794e+01	-1.358822e+02
18	-9.756624e+02	2.572187e+02	-2.231391e+02
19	1.398337e+03	-1.661351e+03	-4.890876e+02
20	9.781828e+02	7.641957e+02	-9.770665e+01
21	-4.506375e+02	4.116898e+02	-2.352807e+02
22	-1.827396e+03	8.958113e+02	-9.705899e+01
23	9.133335e+02	-1.513070e+03	-2.652923e+02

24	-1.852227e+02	3.961587e+02	-7.944905e+01
25	-8.841879e+02	1.110117e+02	-1.171860e+01
26	6.403586e+01	-6.413679e+02	-5.431723e+02
27	-1.664725e+03	1.829120e+03	3.003389e+02
28	-3.674883e+02	7.136186e+01	1.022328e+03
29	8.762690e+02	-4.473982e+01	1.042629e+03
30	9.618015e+02	-2.637832e+02	1.153606e+03
31	-4.515885e+02	1.241982e+03	-4.573780e+02
32	1.160173e+03	-9.569959e+02	-1.274875e+03
33	-6.587798e+02	3.224179e+03	-1.788471e+03
34	7.236360e+03	4.219720e+03	-7.113918e+02
35	-8.682699e+02	-6.559379e+03	-6.269105e+03
36	-2.746389e+03	-3.175049e+03	-6.663957e+02
37	3.928459e+03	-6.281932e+03	-3.036944e+03
38	9.492036e+03	1.797732e+03	-4.364863e+03
39	3.204213e+03	-4.426155e+02	-8.514186e+03
40	2.534842e+03	-6.379667e+03	2.540494e+03
41	-1.913232e+02	-9.323836e+02	-9.427285e+02
42	2.187699e+02	1.107040e+03	-1.441357e+03
43	1.863393e+02	-3.255487e+02	-3.887846e+02
44	-2.771494e+02	1.297144e+02	2.411132e+02
45	1.359629e+03	3.303454e+02	5.529559e+02
46	-8.873170e+01	-2.414831e+03	3.035798e+03
47	2.919795e+01	-4.800333e+03	2.438102e+03
48	2.793488e+03	4.709617e+03	-4.304329e+02
49	7.794429e+03	-4.633891e+03	-9.762929e+02
50	3.367539e+03	-7.848322e+02	-9.670183e+03
51	7.399819e+02	1.727871e+03	-5.877144e+02
52	1.084072e+03	1.184073e+03	8.350867e+02
53	-1.239849e+03	-1.716456e+03	9.786793e+02
54	-1.598656e+02	6.807039e+02	2.279865e+02
55	7.845139e+02	1.027988e+03	9.025993e+02
56	-7.991550e+03	2.549597e+03	-6.205299e+03
57	-5.882314e+03	6.479531e+02	-1.785226e+03
58	3.555290e+03	-1.486422e+02	1.872812e+03
59	9.869863e+03	-2.058741e+03	-4.643048e+03
60	-5.291577e+03	-2.326792e+03	4.466384e+03
61	-5.902890e+02	-6.651358e+02	5.116244e+03
62	-4.407751e+03	9.489522e+03	-4.340939e+03
63	1.671564e+03	2.317002e+03	9.891623e+02
64	1.641214e+03	-1.352746e+03	6.205485e+02
65	3.798416e+03	-7.067093e+03	5.041464e+03
66	-2.590986e+03	5.630113e+03	-3.520780e+02
67	-4.962390e+03	-2.120932e+03	-2.059797e+03

trajectory 49

atom	VX	VY	VZ
1	-6.234091e+01	-1.863720e+02	7.649480e+01
2	1.073294e+03	-2.575851e+02	-1.758849e+02
3	-7.031506e+00	-1.706633e+03	1.652701e+03
4	-9.911381e+02	5.951498e+00	-6.964486e+01
5	1.627089e+02	5.195756e+01	-5.327978e+02
6	-1.247772e+04	2.519460e+03	3.238925e+03
7	-1.161878e+03	4.350226e+03	-1.595741e+03
8	3.423985e+03	-3.345188e+03	-1.429646e+03
9	1.656058e+03	-2.806816e+01	3.310529e+02
10	1.866659e+03	3.799516e+02	6.475910e+01
11	6.447414e+01	-2.691489e+02	-1.615916e+02
12	2.256146e+03	5.727067e+03	-4.712937e+03
13	-5.434334e+03	4.944531e+02	5.273752e+03
14	-1.538155e+03	-2.039370e+02	-1.656289e+03
15	7.373223e+02	1.078951e+03	-2.835616e+03
16	-6.490286e+02	-6.038457e+02	2.598740e+02
17	6.504873e+01	-1.230036e+02	2.060781e+02
18	-4.222221e+02	4.699997e+02	-3.734333e+02
19	1.542734e+03	-1.858028e+02	2.384066e+02
20	-4.766632e+02	4.046342e+02	-2.407775e+02
21	-6.665808e+02	6.302386e+02	1.069642e+02
22	-2.978387e+02	1.528269e+02	2.626287e+02
23	6.512361e+02	-6.359379e+02	2.502876e+02
24	1.241525e+03	2.188889e+03	-6.817638e+02
25	2.738739e+02	5.165710e+01	1.094985e+03
26	-1.283632e+03	-7.656271e+02	-6.840170e+01
27	1.484567e+03	1.135978e+03	6.655599e+02
28	-1.331122e+03	1.104916e+02	1.059234e+02
29	-3.219102e+02	1.610987e+03	-3.570882e+02
30	6.333655e+01	-2.749736e+02	-5.323735e+02
31	-2.462828e+03	1.160508e+03	1.086367e+03
32	4.504083e+02	-2.162352e+03	-5.104395e+02
33	2.525491e+03	-9.528763e+03	6.423716e+03
34	1.714049e+03	-1.080706e+03	-9.992859e+02
35	-3.279889e+02	-4.584598e+03	-2.878415e+03
36	6.480320e+03	3.371652e+03	3.389616e+03
37	6.302930e+03	-1.871142e+03	4.315204e+03
38	4.953527e+03	4.347379e+03	3.104735e+03
39	9.123194e+02	-1.608153e+03	-6.495391e+02
40	-2.771189e+03	1.853783e+03	3.072573e+03
41	5.305813e+00	9.590886e+02	7.185872e+01
42	-1.233103e+03	1.144075e+03	-1.103851e+03
43	1.586712e+03	-1.422745e+03	4.048746e+02

44	-1.268185e+03	9.814249e+02	-9.270326e+02
45	-1.603460e+03	-1.238133e+03	4.119774e+02
46	2.262438e+02	1.038729e+03	6.536179e+02
47	3.425682e+03	-4.523505e+03	3.405376e+03
48	7.359229e+03	-4.368234e+03	-4.894625e+03
49	4.446265e+03	-8.553220e+03	2.354306e+03
50	7.638549e+03	1.498427e+03	-2.199241e+03
51	4.088792e+03	1.127802e+03	-3.412865e+02
52	8.438640e+01	8.602035e+02	9.848857e+01
53	6.576594e+02	1.239324e+03	3.911018e+02
54	-1.284775e+03	1.972156e+02	2.681779e+02
55	1.077033e+03	-1.248541e+03	1.030308e+03
56	-3.222295e+03	-8.780906e+02	-8.516203e+01
57	-3.349519e+03	-2.155511e+03	2.906390e+02
58	2.438296e+03	5.890176e+02	-1.212499e+04
59	-4.000901e+03	-2.366190e+03	-5.847897e+02
60	-1.902386e+03	-8.751143e+03	-2.356646e+03
61	-1.803842e+03	-3.548337e+03	-6.121942e+02
62	7.085188e+03	-6.665438e+03	6.486279e+03
63	-5.955057e+03	-2.250674e+03	-4.890991e+03
64	-3.831399e+03	3.979241e+03	-2.587031e+03
65	-7.845217e+02	-5.547427e+02	-4.338713e+02
66	-1.583247e+03	-1.445891e+03	-1.977297e+03
67	4.218807e+03	6.239311e+03	-7.098001e+03

trajectory 50

atom	VX	VY	VZ
1	-1.459470e+02	3.885358e+02	2.335739e+02
2	6.481606e+02	8.636901e+02	-1.001984e+02
3	6.710816e+02	-2.238895e+03	-8.803869e+02
4	2.255032e+02	3.378202e+02	-6.549827e+01
5	1.872806e+02	2.750419e+02	1.449100e+02
6	6.906379e+02	-1.925192e+03	8.754501e+03
7	3.256885e+02	-2.070494e+03	-1.068977e+04
8	-1.530169e+02	-3.087210e+03	-1.372653e+03
9	-5.089659e+02	7.929563e+02	5.090677e+02
10	-4.291380e+02	3.284203e+02	-8.892614e+02
11	8.724026e+02	1.008577e+03	-9.776121e+02
12	-4.639905e+03	1.831241e+02	3.856277e+03
13	2.814955e+03	-7.549945e+03	2.262069e+03
14	-5.470721e+02	-7.349427e+01	-1.631959e+02
15	-1.519515e+03	-8.767436e+00	-8.458887e+02
16	4.565654e+02	-1.103872e+02	8.358701e+02
17	1.553304e+02	3.735970e+01	-2.313127e+02

18	-1.535334e+03	2.817771e+02	8.617479e+02
19	1.908090e+03	-2.343747e+02	-1.251358e+03
20	1.026252e+03	-1.122213e+03	9.390853e+02
21	-1.359741e+03	-1.975713e+02	1.299887e+03
22	-1.217432e+01	-2.482092e+02	-9.172069e+02
23	3.415174e+02	4.274856e+02	3.959849e+01
24	-1.628812e+03	-5.800373e+01	3.309460e+02
25	1.706738e+02	-5.774561e+02	-1.540584e+03
26	3.424443e+02	4.757049e+02	4.118358e+02
27	-9.515766e+02	-1.534699e+03	1.802234e+01
28	-1.906798e+02	1.334267e+03	-5.821458e+02
29	1.351879e+03	-1.474519e+01	6.458150e+02
30	5.481091e+02	-1.322833e+03	1.927818e+02
31	3.564984e+02	1.054178e+03	-7.193056e+02
32	-9.841984e+02	-1.099549e+03	1.353998e+03
33	3.252863e+03	5.231158e+03	-7.179166e+03
34	-2.151652e+03	-1.864089e+03	2.255029e+02
35	-2.100787e+03	8.986910e+02	8.670281e+03
36	8.113028e+03	5.218504e+02	-8.561377e+02
37	-1.627980e+03	-1.094086e+04	-1.083603e+03
38	-1.890145e+03	3.699935e+03	2.010547e+03
39	-3.115224e+03	-4.555064e+03	5.260921e+03
40	4.802281e+03	-5.485941e+03	2.797044e+03
41	1.155798e+02	1.365791e+01	9.737956e+01
42	-5.178821e+02	4.427393e+01	-7.169838e+02
43	1.571242e+02	9.816008e+01	5.538993e+02
44	-9.983685e+02	-1.220994e+03	-2.003860e+02
45	1.713476e+03	-3.343416e+02	9.510590e+02
46	1.091526e+03	6.570961e+02	2.166037e+02
47	-4.654562e+03	3.498853e+03	5.835945e+02
48	-5.672092e+03	2.098618e+03	3.722536e+02
49	1.211281e+03	-4.678229e+03	-1.353852e+03
50	-1.649151e+03	8.173931e+03	-8.012574e+03
51	3.336940e+03	3.330049e+03	-1.573797e+03
52	7.032715e+02	8.823733e+02	1.881124e+03
53	2.005042e+03	-1.110540e+03	-2.118747e+03
54	-1.492547e+03	-2.827579e+02	-1.364637e+03
55	-2.334571e+02	-4.841306e+02	4.617881e+02
56	-4.420298e+03	7.542265e+03	-3.399281e+03
57	3.636353e+02	-3.063404e+03	-6.626967e+03
58	-3.411557e+03	-5.812889e+03	3.688611e+03
59	-3.118901e+03	2.217333e+03	-6.667159e+02
60	-6.991230e+03	4.461421e+03	3.250073e+03
61	-6.984300e+03	2.451814e+02	-9.731259e+02
62	2.040224e+03	3.181269e+02	7.441242e+03
63	6.940286e+03	2.978281e+03	1.621307e+02

64	3.244650e+03	-1.434687e+03	-1.359989e+03
65	-1.230229e+03	6.321503e+01	-3.361027e+03
66	-3.879526e+03	-4.746479e+03	-8.139373e+02
67	8.607564e+03	5.768660e+03	-1.125522e+03

Dynamic IRC

atom	VX	VY	VZ
1	-9.365895e+00	-4.157890e+00	-2.270520e-01
2	7.437372e+01	1.219695e+02	1.526499e+02
3	3.675404e+00	-2.579878e+01	-1.179251e+01
4	-2.171185e+00	9.252369e+00	-2.398237e+00
5	-2.242139e+00	-2.185376e+00	-7.521098e-01
6	-4.668757e+00	-1.291358e+00	-5.931734e+00
7	-5.179624e+00	5.463439e+00	-8.386734e+00
8	-2.227948e+00	5.264768e+00	-6.513554e+00
9	2.611098e+00	8.869219e+00	-7.180520e+00
10	2.498991e+01	-9.635520e+00	-2.646575e+01
11	4.541040e-01	-8.230635e+00	-1.541116e+01
12	-3.888266e+00	-1.255881e+01	-2.191052e+01
13	3.028306e+01	1.363731e+01	1.543954e+01
14	3.746358e+00	3.519306e+00	5.874971e+00
15	5.676300e-01	1.078497e+00	1.192023e+00
16	2.369855e+00	2.384046e+00	9.223988e-01
17	-1.291358e+00	-7.521098e-01	-1.021734e+00
18	1.206214e+00	-1.262977e+00	7.095375e-01
19	5.392485e-01	4.541040e-01	-9.933525e-02
20	1.546792e+00	2.838150e-01	5.094479e+00
21	-1.518410e+00	-4.966763e-01	2.980058e-01
22	2.838150e+00	5.676300e-02	0.000000e+00
23	-1.717081e+00	-1.560983e-01	5.534393e-01
24	-1.560983e-01	2.980058e-01	2.838150e-01
25	4.569422e+00	4.015982e+00	8.798265e-01
26	2.923295e+00	1.177832e+00	-4.824855e-01
27	9.909401e+01	3.185823e+01	1.048980e+02
28	-2.199566e+01	2.141384e+01	-4.227425e+01
29	8.457687e+00	-1.490029e+00	-1.648965e+01
30	-2.083202e+01	9.039508e+00	-4.739711e+00
31	-2.029277e+00	-2.277615e+01	-1.104040e+01
32	-4.819179e+01	-1.192023e+01	-4.697138e+00
33	-5.687653e+01	-1.667413e+01	-3.036821e+00
34	-1.031668e+01	-2.481962e+01	-2.324445e+01
35	-7.038612e+00	-7.379190e-01	-5.619537e+00
36	-3.490925e+00	-1.261558e+01	-1.055792e+01
37	-2.313092e+00	4.952572e+00	-1.084173e+01
38	-2.110165e+01	3.534916e+01	-3.520725e+01
39	-4.496765e+02	-7.256156e+02	-8.915907e+02
40	-2.393980e+02	-2.697662e+02	-5.230143e+02
41	4.470086e+00	-1.915751e+00	4.257225e-02

42	3.292254e+00	-2.639480e+00	3.022630e+00
43	4.682948e+00	2.284711e+00	2.086040e+00
44	4.910000e+00	-4.086936e+00	7.946820e-01
45	5.676300e+00	-6.102023e-01	-2.838150e-02
46	1.546792e+00	-3.093584e+00	1.206214e+00
47	-1.575173e+00	-5.463439e+00	-3.249682e+00
48	1.404884e+00	-4.526849e+00	-2.738815e+00
49	4.384942e+00	-4.952572e+00	-1.532601e+00
50	3.249682e+00	-4.214653e+00	-3.973410e+00
51	-1.844798e-01	-6.059450e+00	-1.139517e+01
52	-9.791618e-01	-1.929942e+00	4.682948e-01
53	-4.541040e-01	-1.702890e-01	-9.933525e-02
54	-3.689595e-01	2.270520e-01	1.702890e-01
55	-2.242139e+00	6.953468e-01	1.589364e+00
56	7.521098e-01	-5.718872e+00	1.490029e+00
57	-1.986705e-01	-1.717081e+00	7.095375e-01
58	9.223988e-01	-3.476734e+00	1.759653e+00
59	5.392485e-01	-1.702890e-01	5.960115e-01
60	7.237283e-01	3.121965e-01	-9.365895e-01
61	-6.243930e-01	4.824855e-01	-7.237283e-01
62	1.419075e-01	4.257225e-02	-4.257225e-02
63	-3.973410e-01	0.000000e+00	-2.838150e-02
64	-8.514450e-02	8.230635e-01	-7.095375e-01
65	-2.710433e+00	9.791618e-01	2.398237e+00
66	-4.086936e+00	2.426618e+00	5.278959e+00
67	-2.086040e+00	2.767196e+00	3.221300e+00

s-cis TS1

random sampling

initial velocities for 50 trajectories starting from s-cis TS1 using completely random sampling

trajectory 1

atom	VX	VY	VZ
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trajectory 1

atom	VX	VY	VZ
1	2.360128e+02	4.961591e+01	-9.679038e+01
2	4.627955e+02	-8.093237e+02	1.217912e+03
3	-7.775823e+02	4.572718e+02	-9.956193e+02
4	-7.537110e+01	5.465929e+02	-1.108353e+03
5	3.837394e+02	-3.949819e+02	-5.279457e+02
6	1.921801e+03	4.273436e+03	-1.167882e+02
7	-1.559352e+02	-7.401888e+03	-6.242484e+03
8	1.634885e+03	4.072289e+03	5.244234e+03
9	-4.255424e+02	-1.999611e+01	7.297793e+02
10	-7.427816e+02	9.185592e+02	-1.058802e+03
11	-1.482684e+03	-1.218149e+02	7.724188e+02
12	-6.354529e+02	4.292025e+03	-2.246845e+03
13	-1.988480e+03	-2.839942e+03	3.795558e+03
14	6.593624e+02	-3.913704e+02	5.526357e+02
15	1.089048e+03	1.095076e+03	4.320601e+01
16	-7.580454e+02	-7.706671e+02	-2.179500e+02
17	6.165717e+01	2.197070e+02	1.901881e+02
18	-1.181503e+03	6.637277e+02	2.402239e+02
19	7.905760e+02	1.349472e+03	-1.508749e+03
20	-1.473643e+03	-6.246434e+02	-2.537693e+02
21	4.693999e+02	-4.514724e+02	2.703145e+02
22	-1.160284e+03	-5.019690e+02	-1.026370e+03
23	5.522813e+02	1.100297e+02	6.636739e+02
24	1.410566e+02	3.396125e+02	-1.475132e+03
25	2.445508e+02	-7.525898e+02	-8.693268e+02
26	5.389019e+02	-1.387006e+02	1.566344e+03
27	1.624985e+03	-2.807232e+02	-1.850846e+03
28	-4.141816e+02	6.601399e+02	-1.030845e+01
29	1.140818e+03	7.247917e+02	5.667975e+02
30	-2.423209e+03	2.850386e+02	2.600864e+02
31	4.053583e+03	2.057251e+02	-6.753386e+03
32	4.047740e+03	-5.719416e+03	6.796943e+03
33	-2.716897e+03	-8.619677e+03	3.165101e+03

34	-4.389518e+03	-4.033892e+03	4.183217e+03
35	-1.243373e+03	-6.261657e+02	1.641375e+03
36	-2.478417e+03	2.369451e+03	-3.523515e+03
37	1.693000e+03	-2.045687e+03	-4.928592e+02
38	7.203759e+02	-1.287469e+03	5.272626e+03
39	-6.961827e+03	3.245992e+03	4.495480e+02
40	2.193538e+01	-1.493931e+03	9.171980e+02
41	1.335439e+03	5.019151e+02	9.648030e+01
42	1.656111e+01	-1.003197e+03	-4.318246e+02
43	-2.843437e+02	2.174188e+03	-7.945562e+02
44	1.649698e+02	5.609808e+03	-4.017317e+03
45	-1.205402e+03	1.122791e+03	2.534470e+02
46	2.195686e+03	5.432252e+03	-7.730881e+02
47	-1.480385e+02	-2.308494e+02	8.916929e+00
48	2.390724e+03	-3.503819e+03	-6.419706e+02
49	1.007543e+04	6.201296e+03	-2.581434e+03
50	-7.303351e+03	-4.732679e+03	-4.323705e+03
51	-9.996798e+01	-2.677322e+02	3.647873e+02
52	8.514625e+03	4.029395e+02	-5.544414e+03
53	-5.776837e+03	5.533492e+03	-8.731095e+02
54	2.961439e+03	3.671050e+02	-5.177385e+03
55	1.144967e+03	-3.666132e+01	1.670536e+02
56	1.330435e+03	-1.047225e+03	1.100061e+03
57	1.101907e+03	-3.393376e+03	3.569802e+03
58	-1.010010e+04	-5.421882e+03	4.157448e+03
59	5.224521e+02	-9.896917e+02	-1.674346e+02
60	-1.512851e+03	4.459438e+02	6.439285e+02
61	-9.328235e+02	5.481380e+03	4.137131e+03
62	-9.851707e+03	9.449621e+02	4.938299e+03
63	-2.361387e+02	-7.568497e+02	2.068025e+03
64	-4.914834e+02	4.712296e+02	1.606357e+03
65	5.498575e+03	-6.175161e+02	-9.090953e+03
66	3.328673e+03	5.073856e+02	-8.807273e+03
67	-3.393799e+03	-4.890728e+03	2.920236e+03

trajectory 2

atom	VX	VY	VZ
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trajectory 2

atom	VX	VY	VZ
1	4.236201e+02	3.308717e+02	-3.384608e+02
2	-3.682707e+02	8.745065e+02	2.085724e+03

3	3.927412e+02	-1.006890e+03	6.794811e+02
4	-1.036590e+03	-1.498613e+02	-9.853341e+02
5	3.641946e+02	3.449313e+02	-1.770130e+02
6	-9.257047e+03	-4.158817e+03	3.729901e+03
7	2.522391e+03	3.516193e+03	1.818396e+03
8	5.732761e+03	-6.117542e+03	-8.849842e+02
9	2.639551e+02	-4.809358e+02	-1.119030e+03
10	1.235252e+03	-1.303716e+03	-7.098041e+02
11	-1.693228e+01	9.739593e+02	-8.809337e+02
12	-6.539719e+03	1.215958e+03	5.779210e+03
13	1.393531e+03	-4.922048e+03	6.963553e+03
14	-4.761725e+02	1.166419e+02	3.276194e+02
15	-2.716263e+01	-3.720383e+02	-1.276741e+03
16	3.952116e+02	-1.370263e+03	8.059210e+01
17	-1.393732e+02	1.359722e+02	-8.410451e+01
18	2.965439e+02	1.088002e+03	6.416553e+00
19	-6.314669e+02	-1.054986e+03	1.728154e+03
20	-6.924050e+02	-4.405434e+02	2.534792e+02
21	-3.571053e+02	2.176952e+02	9.795669e+02
22	2.310685e+03	-2.527593e+02	8.835671e+02
23	-1.025973e+03	4.934447e+02	2.844322e+02
24	-7.449656e+02	-1.611438e+02	8.572964e+02
25	5.077939e+02	1.409685e+03	-2.971440e+02
26	1.486886e+02	-6.391729e+02	-8.808780e+02
27	-2.585217e+03	-1.327447e+03	2.385060e+02
28	1.124352e+03	-2.894090e+02	1.024380e+03
29	-9.078553e+02	1.550491e+02	2.843304e+02
30	-2.264819e+02	-1.184532e+03	1.417346e+02
31	4.780154e+03	4.455467e+03	-2.414020e+03
32	2.758525e+03	7.686302e+03	-4.656189e+03
33	3.730782e+03	2.383230e+03	-2.469330e+03
34	2.577726e+03	-3.692117e+03	-3.406699e+03
35	-5.014658e+02	1.072169e+03	-2.634797e+02
36	-2.887221e+03	-3.135334e+03	-3.054820e+03
37	6.062924e+02	1.075442e+03	7.670953e+01
38	-8.129740e+02	-3.565701e+02	-3.345379e+03
39	8.877521e+02	-7.234890e+03	-4.795328e+03
40	1.744015e+03	-1.295025e+03	1.356092e+03
41	-2.695179e+03	1.022809e+03	-5.958678e+02
42	6.257222e+02	6.487646e+02	-3.332899e+02
43	6.768113e+02	-1.770965e+03	-7.644781e+02
44	3.139948e+03	2.558311e+03	-2.471312e+03
45	-4.493917e+02	6.554891e+01	-1.687286e+03
46	-6.936123e+02	2.855387e+02	3.967076e+03
47	-9.580163e+00	5.426002e+02	1.910746e+03
48	2.443608e+03	1.545692e+03	2.331439e+03

49	1.007382e+04	2.992693e+03	-8.239381e+03
50	5.790044e+02	-6.372647e+03	4.793806e+02
51	-1.081715e+03	8.319782e+02	7.524903e+01
52	-1.042970e+03	-5.846001e+03	2.278602e+03
53	-6.971090e+03	4.213786e+03	2.983142e+03
54	3.476676e+03	-5.659578e+03	6.699774e+03
55	2.878669e+02	-7.176772e+02	-1.554630e+03
56	1.145485e+03	5.639275e+02	2.463917e+03
57	4.301491e+03	6.991119e+03	8.053307e+03
58	5.881848e+01	-3.460494e+03	-5.556954e+03
59	8.762247e+02	-6.144942e+02	1.358345e+03
60	4.193589e+03	2.420499e+03	1.448101e+03
61	-5.841413e+03	4.717050e+03	-4.887323e+03
62	4.262678e+03	-2.152590e+02	-8.657714e+02
63	-1.826482e+03	4.047058e+02	9.125144e+02
64	4.507299e+02	-4.914469e+03	-2.511268e+03
65	-1.479355e+02	1.425085e+03	-3.601317e+03
66	3.274019e+03	6.016326e+03	-3.353658e+03
67	1.505244e+03	-2.482685e+03	3.584437e+03

trajectory 3

atom	VX	VY	VZ
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trajectory 3

atom	VX	VY	VZ
1	1.842465e+02	1.065456e+02	1.688860e+02
2	-3.111414e+02	-2.957536e+02	3.538710e+02
3	-3.800754e+01	1.066384e+03	1.795011e+03
4	6.214574e+02	-1.502077e+02	2.106747e+02
5	-7.451881e+02	-1.706238e+03	-5.443293e+02
6	4.438367e+02	-5.087864e+03	2.733565e+03
7	3.243078e+02	7.411783e+03	4.310180e+03
8	-2.643417e+03	-7.702889e+03	-5.482424e+03
9	-4.127733e+02	-9.431339e+01	-1.227162e+02
10	-1.637428e+02	-1.020372e+03	4.208820e+01
11	-6.622261e+02	8.098961e+02	-2.749893e+02
12	-3.627586e+03	-5.750955e+03	3.733955e+02
13	-6.495783e+03	2.885586e+01	5.691585e+03
14	-4.847335e+02	1.630755e+01	-2.380731e+02
15	-7.115315e+02	-4.030579e+02	-2.154878e+03
16	7.902579e+02	1.162648e+03	4.676872e+02
17	-2.972849e+01	1.089796e+02	9.623481e+01

18	1.886092e+02	-3.565391e+02	-5.990643e+02
19	-6.002603e+02	4.547403e+02	2.144946e+02
20	1.638803e+03	-6.361480e+02	1.113813e+03
21	6.621442e+02	-3.667464e+02	2.732920e+02
22	-1.352700e+03	8.144739e+00	4.338326e+02
23	3.257468e+02	9.740333e+02	-7.630902e+02
24	-9.240825e+02	-5.135683e+02	-3.798485e+02
25	2.764108e+02	1.565748e+02	9.877153e+02
26	4.670099e+02	-6.892639e+02	-7.074030e+02
27	1.740180e+03	1.016361e+03	-1.050640e+03
28	-1.440339e+02	2.048624e+02	1.800548e+03
29	-2.421828e+03	2.212191e+03	-8.451525e+02
30	2.334886e+03	1.824045e+01	6.325028e+02
31	-3.341303e+03	-4.991353e+02	1.421457e+03
32	4.196984e+02	7.654532e+02	-2.779526e+03
33	-1.953889e+03	-2.332792e+03	-7.016285e+02
34	-7.194294e+03	-5.437678e+03	4.022978e+03
35	-9.935198e+02	-1.788332e+03	9.810739e+02
36	1.431132e+03	5.275314e+03	-6.143816e+03
37	8.499523e+02	-7.701424e+02	1.149634e+02
38	-5.758760e+02	2.280040e+03	5.940467e+03
39	-5.262924e+03	5.792070e+03	2.085910e+03
40	5.978132e+02	2.597996e+02	-7.830516e+02
41	-8.326545e+02	3.957656e+01	-1.793849e+03
42	1.357413e+03	-1.380344e+03	-7.986749e+01
43	1.257720e+03	7.489086e+02	-4.512532e+02
44	6.329786e+03	3.995549e+03	9.533606e+02
45	1.140632e+02	-5.392753e+02	4.945461e+02
46	1.094778e+03	-6.048729e+01	-2.920692e+03
47	-7.745981e+02	-1.417624e+02	-5.052512e+01
48	-4.628995e+03	-5.796592e+03	1.871928e+03
49	-1.206102e+04	-5.015329e+03	2.890009e+03
50	-4.516644e+03	4.612771e+03	-3.708744e+03
51	-1.496246e+03	4.581512e+02	8.410773e+02
52	3.868178e+03	-2.958118e+03	3.033608e+03
53	9.267661e+03	2.145734e+03	4.873163e+03
54	1.721741e+03	3.389509e+03	3.900277e+03
55	-7.327559e+02	3.299949e+02	3.723042e+01
56	-1.051551e+03	8.650701e+03	-1.759254e+03
57	4.019038e+03	-5.813133e+03	-7.647198e+03
58	1.120416e+03	3.089979e+03	2.456401e+03
59	8.742139e+02	1.683085e+03	-9.354122e+02
60	-6.961355e+03	-6.212119e+03	-2.163481e+03
61	4.561474e+03	-7.093152e+03	-5.512575e+03
62	3.534991e+03	-7.262433e+02	-2.457439e+03
63	-1.759837e+02	-4.055503e+02	-8.736703e+02

64	2.753637e+03	-7.382087e+02	-3.301918e+03
65	-1.795103e+03	3.513998e+03	-4.928562e+03
66	-5.530071e+03	-9.765132e+03	-1.511730e+03
67	-1.819143e+03	-3.637913e+03	2.423349e+03

trajectory 4

atom	VX	VY	VZ
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trajectory 4

atom	VX	VY	VZ
1	-3.295006e+02	-1.756850e+02	2.923625e+02
2	5.778194e+02	-1.771800e+02	5.416175e+02
3	3.106491e+02	2.172498e+03	-8.934923e+02
4	7.023089e+02	-1.587018e+02	-5.724177e+02
5	5.372447e+02	1.182782e+03	1.127035e+03
6	-7.818893e+03	-5.881901e+03	-1.676871e+03
7	2.191950e+03	-6.892154e+03	-3.436410e+03
8	1.674027e+03	-4.204791e+03	-2.799146e+03
9	5.064595e+02	1.423229e+02	5.889631e+02
10	2.427609e+03	-2.446105e+02	-1.136467e+03
11	-2.428377e+03	5.957077e+02	8.423719e+01
12	2.882029e+03	5.868536e+03	1.451278e+03
13	-1.897540e+03	-6.484625e+03	4.383951e+02
14	-8.825300e+02	-2.494183e+02	-4.527986e+01
15	2.075379e+03	-4.675268e+00	-2.545221e+02
16	4.586426e+02	-9.163487e+02	-8.581798e+02
17	3.675349e+02	-4.554864e+01	1.126019e+02
18	-4.729679e+02	-5.118385e+01	-6.234125e+02
19	-9.253095e+02	-1.049395e+03	-7.770525e+02
20	-6.882391e+02	1.328125e+02	6.184401e+02
21	5.135939e+02	3.115184e+02	9.964579e+02
22	2.700265e+02	2.653130e+03	-1.020698e+03
23	5.092222e+02	-7.650935e+01	1.609507e+02
24	-5.463603e+02	-5.979806e+02	7.690185e+02
25	-9.810490e+02	7.219193e+02	-1.282377e+02
26	6.864379e+02	2.622294e+02	-1.183429e+03
27	-4.932820e+02	-1.136831e+02	-5.825382e+02
28	1.647213e+02	-1.199724e+03	1.488237e+03
29	-3.627346e-01	4.730644e+02	-3.633448e+01
30	-8.700291e+02	8.243147e+02	-3.636461e+02
31	5.499358e+03	4.952931e+03	-3.258933e+03
32	-1.296583e+03	6.184078e+03	-1.211124e+03

33	-5.598945e+03	2.201387e+03	-5.239315e+02
34	-5.764285e+03	3.376586e+03	-3.538335e+02
35	1.256554e+03	-4.818490e+02	-4.784174e+02
36	1.009280e+02	-1.090241e+03	3.653306e+03
37	-3.024920e+02	5.696128e+02	-2.018572e+03
38	-7.598802e+02	7.126966e+03	1.477764e+03
39	-8.472998e+03	1.588336e+03	3.230333e+03
40	8.298056e+02	-1.380533e+03	-6.172535e+02
41	-1.723658e+03	1.052994e+03	1.920410e+03
42	4.592575e+02	2.592428e+02	-1.181882e+03
43	1.069809e+03	3.332708e+02	-1.712736e+02
44	6.704568e+03	-7.135478e+03	-6.797891e+03
45	-1.015973e+03	-7.198526e+02	8.189529e+02
46	1.035088e+03	-2.327536e+03	-4.315432e+02
47	-2.174544e+01	2.639616e+02	5.757968e+02
48	1.487329e+03	8.374217e+02	3.724098e+02
49	7.011022e+03	6.051215e+03	-6.320405e+03
50	5.324308e+02	-5.184795e+03	1.814408e+03
51	-1.877161e+03	1.389427e+02	-1.529932e+02
52	-1.408443e+02	-4.889235e+03	-3.012638e+03
53	5.942296e+03	2.869580e+03	8.338556e+03
54	2.269244e+03	1.040814e+03	-2.478563e+03
55	1.033159e+03	-2.105431e+02	-2.728404e+02
56	1.445371e+03	4.278561e+03	1.966638e+03
57	4.706464e+03	-1.112155e+02	2.733610e+03
58	-7.246761e+03	-1.054650e+04	1.030789e+03
59	-2.149325e+01	-5.601982e+02	1.479589e+03
60	2.864573e+02	3.664258e+03	-2.932571e+03
61	-3.293222e+03	4.604644e+03	-6.228734e+03
62	2.179213e+03	-5.499641e+03	-5.106218e+03
63	-1.606482e+03	-6.079925e+02	1.270339e+03
64	-7.892907e+02	-6.864686e+03	-1.373342e+03
65	-3.130617e+03	-6.027515e+01	-6.009644e+03
66	4.541817e+03	5.393111e+03	-5.131334e+03
67	-5.665758e+03	-4.695837e+03	2.872214e+03

trajectory 5

atom	VX	VY	VZ
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trajectory 5

atom	VX	VY	VZ
1	-1.807212e+02	-3.855378e+02	-6.528017e+01

2	1.171644e+03	-4.781149e+01	2.061778e+02
3	4.476733e+02	3.005478e+02	-1.612530e+03
4	-1.019097e+03	-6.198007e+02	7.349906e+01
5	1.382152e+03	1.524085e+03	-4.069884e+02
6	-1.630156e+03	-9.668657e+02	-7.461586e+03
7	-5.509556e+03	-2.268647e+02	-6.643216e+03
8	-6.919284e+03	-1.637132e+02	-6.315081e+03
9	1.499604e+02	1.085690e+03	1.367604e+02
10	-2.057848e+02	-4.048625e+02	7.133254e+02
11	-1.876598e+03	-1.718627e+02	6.339672e+02
12	5.331895e+03	-1.050029e+03	-2.920574e+03
13	-4.750941e+03	6.076559e+03	-7.430293e+03
14	2.095500e+03	-8.154838e+02	-1.756241e+02
15	-2.114603e+03	7.492093e+02	2.576269e+02
16	-1.221360e+03	5.357915e+02	6.639512e+02
17	3.256977e+02	1.027712e+02	2.375008e+02
18	1.340605e+03	-3.104976e+02	3.734184e+02
19	-1.258106e+03	-1.173933e+03	3.013804e+02
20	-2.646811e+02	3.455922e+02	-3.535835e+02
21	-8.311457e+02	-1.179872e+03	-1.806437e+02
22	-6.523552e+02	9.439779e+02	4.877575e+01
23	1.157101e+03	1.423085e+03	-2.190773e+02
24	5.467229e+02	-4.967063e+02	3.561170e+02
25	1.159567e+03	9.742903e+02	-1.266410e+01
26	-1.411551e+02	1.054984e+03	-2.427489e+02
27	-6.369912e+02	-3.338762e+02	5.054624e+02
28	6.068191e+02	-1.292537e+03	-1.746913e+02
29	-1.641290e+03	2.411796e+02	3.717815e+02
30	-7.490854e+02	6.162889e+02	1.531661e+02
31	6.872824e+03	5.624993e+03	-3.325303e+03
32	-3.738388e+03	5.629803e+03	-3.874710e+03
33	1.955811e+03	1.791720e+03	-3.529415e+03
34	3.222447e+03	-8.342598e+03	1.713971e+03
35	4.095781e+02	1.630446e+03	6.036930e+01
36	-1.599894e+03	-1.322335e+03	2.880001e+02
37	1.540096e+03	-6.445248e+02	-1.792928e+02
38	3.091751e+03	-5.526261e+03	5.110167e+03
39	2.628681e+02	4.472162e+03	6.762467e+03
40	1.351751e+03	1.345764e+03	3.059720e+02
41	-1.821836e+03	-7.177502e+02	4.285429e+02
42	-1.924073e+02	9.214520e+02	-5.135729e+02
43	-4.400152e+02	-1.689694e+03	-3.929551e+02
44	6.465047e+02	-6.201549e+03	2.531197e+03
45	9.549732e+02	-8.634441e+02	-1.427094e+03
46	6.619193e+03	-2.573501e+03	5.952701e+02
47	-4.491072e+02	1.354959e+03	-6.338755e+02

48	1.308889e+03	2.840127e+03	-4.429108e+03
49	-4.137874e+03	-1.102943e+03	1.057739e+04
50	1.616134e+03	-4.911972e+03	3.883693e+03
51	4.682023e+01	-4.470534e+02	7.680966e+02
52	-9.286824e+03	1.766706e+03	6.681571e+03
53	2.496409e+03	9.548473e+02	5.517657e+03
54	-2.663436e+03	-2.426771e+03	3.297329e+03
55	-7.197148e+01	6.050745e+02	5.851667e+02
56	-5.467704e+02	1.208392e+03	2.788612e+02
57	2.516502e+03	5.427831e+02	3.078095e+03
58	-5.563844e+03	-7.042701e+03	-8.304543e+03
59	6.143710e+02	-7.786200e+02	-1.461929e+03
60	-1.164583e+03	6.570948e+02	1.579073e+03
61	7.344759e+02	6.981205e+02	-6.137391e+02
62	-9.408303e+03	3.630466e+03	3.603631e+03
63	6.670850e+02	-3.751891e+01	-1.588000e+03
64	-3.445607e+03	-1.539512e+03	-7.588221e+02
65	5.475706e+02	-9.496839e+03	9.373488e+03
66	-2.667119e+03	8.677142e+02	5.111304e+02
67	3.194300e+03	-2.240782e+03	2.260976e+03

trajectory 6

atom	VX	VY	VZ
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trajectory 6

atom	VX	VY	VZ
1	1.399709e+02	1.665528e+02	1.266495e+02
2	-1.785993e+02	-1.157733e+02	1.491088e+03
3	8.108222e+02	-3.009038e+02	-5.139206e+02
4	-1.040461e+03	2.196619e+02	-4.650154e+02
5	-2.324003e+02	1.946338e+01	-6.381584e+02
6	5.959426e+03	3.492460e+03	3.541901e+03
7	5.033862e+03	-3.110216e+03	-6.540360e+03
8	1.636411e+03	3.691483e+03	5.618858e+03
9	-2.193102e+02	1.726223e+03	1.240524e+03
10	4.170289e+02	-2.156360e+03	-4.082892e+02
11	-1.289598e+02	1.894284e+03	-6.727459e+02
12	-2.689290e+03	1.471442e+03	5.675367e+03
13	-1.378479e+03	-7.129913e+03	4.835873e+03
14	1.241030e+03	7.033436e+02	3.918520e+02
15	-1.748014e+03	1.063738e+02	-8.274999e+02
16	7.314514e+02	-1.542810e+03	-9.667975e+01

17	-2.172674e+02	-4.389353e+01	-1.809992e+02
18	-7.568586e+02	7.039043e+02	-3.037247e+02
19	5.265775e+00	4.244216e+02	-8.751194e+02
20	-2.899950e+02	5.323507e+02	2.191124e+02
21	-5.746517e+02	-1.381030e+03	2.536914e+02
22	1.225447e+03	1.486356e+03	-1.978298e+02
23	-4.781463e+02	-1.083861e+03	1.144961e+03
24	-7.761438e+02	-6.694562e+02	7.036721e+02
25	3.665135e+02	-8.489017e+02	-1.004157e+03
26	4.396054e+02	7.315244e+01	-5.616269e+02
27	1.735564e+03	-8.395106e+02	1.373980e+02
28	1.050681e+01	4.408978e+02	-1.314207e+03
29	9.076419e+02	-5.081944e+02	-6.423020e+02
30	-1.477040e+03	6.345450e+02	-4.800624e+02
31	4.154595e+03	3.002361e+03	-3.147073e+03
32	-3.079843e+03	-8.764394e+03	4.192729e+03
33	2.476020e+03	2.516253e+03	1.802668e+03
34	-2.956785e+03	4.875238e+03	-3.429668e+03
35	-5.439866e+02	-7.747179e+02	1.057274e+03
36	1.325846e+03	1.502151e+02	-1.631141e+03
37	-7.922443e+02	-1.427142e+03	-7.117217e+02
38	-5.285601e+03	-3.926821e+03	-6.704700e+03
39	3.105021e+03	8.676797e+03	-1.198118e+03
40	-7.613913e+02	1.238924e+03	-1.340899e+03
41	-3.023951e+02	-6.313314e+02	2.168785e+03
42	3.360204e+02	2.092474e+03	-7.312370e+02
43	8.231837e+02	-1.618838e+03	6.973241e+02
44	6.522817e+02	8.710117e+03	-3.154064e+03
45	3.772576e+02	1.560223e+02	-3.714782e+02
46	4.193317e+02	-2.067220e+03	2.058592e+03
47	5.322115e+02	1.593848e+02	-8.379113e+02
48	2.971322e+03	2.352187e+02	-9.060117e+02
49	-6.279770e+03	-6.397250e+03	2.798021e+03
50	2.959063e+03	-2.032548e+03	2.814538e+03
51	-1.589490e+03	4.947176e+02	1.983072e+03
52	8.167565e+03	5.401173e+03	-1.319537e+03
53	-5.563500e+03	4.778990e+02	1.833014e+03
54	5.346833e+03	4.961356e+03	3.724030e+02
55	-3.790177e+02	-1.464392e+03	1.751973e+03
56	2.632853e+03	2.278775e+03	-3.756610e+03
57	-6.282811e+02	7.929487e+03	7.216583e+02
58	7.857117e+03	9.411599e+02	-5.812284e+03
59	1.638686e+02	5.933361e+02	1.044117e+03
60	3.127136e+03	-1.442840e+03	-5.934262e+03
61	1.075823e+03	-2.316165e+03	-9.789346e+02
62	-1.106403e+04	2.671733e+03	-2.386688e+03

63	1.621316e+03	-3.960815e+02	-6.354429e+02
64	-1.539663e+03	-1.142961e+03	-2.591754e+03
65	5.207848e+03	-1.123974e+03	-4.661653e+03
66	-9.401861e+03	-4.583978e+03	2.366958e+03
67	6.747372e+03	-2.643121e+03	3.306830e+03

trajectory 7

atom	VX	VY	VZ
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trajectory 7

atom	VX	VY	VZ
1	-2.819926e+02	1.258905e+02	3.308859e+02
2	3.578645e+02	1.566077e+03	-5.126892e+02
3	-1.055466e+03	-3.692582e+02	1.363018e+03
4	7.390155e+02	-9.653126e+02	-5.923538e+02
5	4.797369e+02	-2.449137e+02	5.934061e+02
6	2.040792e+03	1.524943e+03	7.995907e+02
7	1.953959e+02	-1.380702e+03	-2.454477e+03
8	-3.172493e+03	-1.522720e+04	-3.213603e+03
9	2.265585e+02	4.345665e+01	-2.847781e+02
10	1.089570e+03	-2.031608e+03	2.309349e+03
11	4.484923e+02	-2.060987e+02	-1.042702e+03
12	2.333261e+03	2.562403e+03	-4.321442e+03
13	2.538441e+02	6.898449e+03	-1.424497e+03
14	7.404542e+02	-8.338015e+01	2.196838e+01
15	-9.572165e+02	2.040545e+03	-1.629971e+03
16	-6.243644e+02	9.562720e+01	3.384765e+02
17	2.441833e+02	-3.045227e+01	2.004751e+02
18	1.360527e+03	2.075810e+02	-7.305269e+02
19	-5.922293e+02	-1.965469e+03	1.398224e+03
20	3.262363e+02	1.161127e+03	-1.758771e+03
21	6.541499e+02	-1.648315e+02	-9.307187e+02
22	8.813677e+01	1.220456e+03	-4.900901e+02
23	7.094265e+02	3.965098e+02	-1.153954e+03
24	-6.516096e+01	3.226633e+01	-1.977326e+02
25	-5.658352e+02	4.588288e+02	2.173325e+03
26	5.610354e+02	3.994400e+02	2.537566e+01
27	3.292850e+02	-2.533937e+03	8.757955e+02
28	-3.352550e+02	4.463237e+02	2.895881e+02
29	1.052508e+03	3.742961e+02	-1.037085e+03
30	-5.183139e+02	1.086711e+03	5.444220e+02
31	1.352971e+03	2.539501e+03	-9.749784e+03

32	-3.995704e+03	-4.013423e+03	2.283251e+03
33	-2.444825e+03	1.166308e+03	1.655952e+03
34	-3.958227e+03	3.888061e+03	-8.659971e+01
35	9.980809e+02	-2.290906e+02	-7.244402e+02
36	-4.500717e+03	-5.954096e+03	2.819431e+03
37	-1.163680e+03	3.179933e+02	8.897445e+02
38	4.822692e+02	6.581270e+02	-6.313213e+03
39	3.833488e+03	-4.437898e+03	-3.215736e+03
40	4.543775e+02	-3.856098e+00	4.307575e+02
41	4.360987e+02	-9.730205e+02	-2.996852e+02
42	9.308066e+01	8.226651e+02	-7.825801e+01
43	-1.424270e+03	-1.230469e+03	-1.306511e+03
44	3.722087e+03	4.577282e+03	-2.438541e+03
45	-4.495481e+02	7.970471e+02	-7.626121e+02
46	-2.691239e+03	2.443882e+03	7.350691e+02
47	-1.547394e+02	1.783748e+03	9.385156e+02
48	-3.034676e+03	-4.648929e+03	4.285963e+03
49	-9.526718e+03	-3.571941e+03	2.790925e+03
50	-8.138439e+03	-4.595196e+03	2.392574e+03
51	-2.455083e+02	-9.117105e+02	7.069780e+02
52	-3.018583e+03	-5.359146e+02	-2.175017e+03
53	-6.396867e+03	-4.161130e+02	-1.001147e+04
54	3.461689e+02	-1.120873e+03	4.212670e+02
55	1.393882e+02	-1.125993e+02	-1.407783e+03
56	-7.215653e+03	-8.066574e+03	3.738346e+03
57	3.916402e+02	1.801584e+03	-1.362041e+03
58	2.631272e+03	3.862060e+03	8.911768e+01
59	-1.014854e+02	-1.742203e+02	1.362226e+03
60	-3.672286e+02	-7.019209e+03	1.981836e+03
61	2.384694e+03	2.777586e+03	-7.673013e+03
62	-4.603540e+03	3.421155e+02	-2.602757e+03
63	1.000509e+03	-1.005748e+03	8.386313e+02
64	-5.381564e+03	4.065093e+03	3.278365e+03
65	-4.125865e+03	-2.017444e+03	3.733689e+03
66	-5.248762e+03	1.798340e+03	-7.641548e+03
67	-4.666548e+03	7.367518e+03	-1.612880e+03

trajectory 8
atom VX VY VZ

trajectory 8
atom VX VY VZ

1	2.680776e+02	5.143915e+00	1.392996e+02
2	5.485177e+01	-4.206118e+02	4.376773e+02
3	2.605949e+02	2.877694e+02	6.309817e+02
4	3.822998e+02	-7.787319e+02	5.612199e+02
5	-6.010694e+02	1.324910e+03	1.013357e+03
6	-8.277093e+02	2.089122e+03	-1.678050e+02
7	-7.366665e+01	4.418658e+03	-6.442191e+03
8	-3.568597e+03	-3.751507e+03	-1.123984e+04
9	-3.642401e+02	2.209078e+02	-9.736536e+02
10	2.658384e+01	1.356648e+03	-1.386296e+03
11	7.083682e+02	-2.443123e+03	1.094483e+03
12	4.848631e+03	6.151292e+02	-1.895760e+03
13	9.095210e+02	-1.038916e+03	6.599387e+03
14	2.621225e+02	-8.957590e+02	-1.015972e+03
15	-3.335622e+02	-1.181612e+03	1.004869e+02
16	1.456514e+03	1.182420e+03	8.696916e+01
17	5.599550e+01	-2.025137e+02	-2.634635e+02
18	9.705165e+01	3.561789e+02	1.505290e+02
19	-1.599216e+02	1.611880e+03	-1.632240e+03
20	-1.527250e+03	1.195128e+03	1.436934e+03
21	3.982741e+02	1.791264e+02	-7.560899e+01
22	-1.750175e+03	-3.163378e+02	1.456794e+03
23	9.673777e+02	3.992025e+02	4.537925e+02
24	3.356109e+02	9.352436e+01	-3.885542e+02
25	-3.690157e+02	2.368134e+02	-4.994193e+02
26	-1.415548e+03	-4.604367e+02	-1.030459e+02
27	8.364564e+02	2.308265e+03	-8.823420e+02
28	-3.851048e+02	5.070339e+01	-7.193823e+01
29	-1.064078e+03	-1.033155e+03	4.402568e+02
30	2.499275e+02	-4.081087e+02	2.663059e+02
31	-4.690639e+00	-4.018978e+03	2.123480e+03
32	-4.787106e+03	2.492053e+03	8.711384e+02
33	4.712624e+02	1.339629e+03	-6.330404e+03
34	-6.961511e+03	1.073867e+03	-1.052101e+03
35	-7.839246e+02	1.208413e+02	-1.117887e+03
36	1.046899e+04	4.907221e+01	-3.776749e+03
37	8.470096e+02	9.401995e+01	-3.130426e+02
38	4.883021e+03	2.371843e+03	6.355933e+02
39	-8.871233e+03	1.423312e+03	2.747366e+03
40	2.574099e+01	-2.038552e+03	-8.953594e+02
41	-1.127235e+03	-6.624909e+02	-1.693026e+02
42	-1.031052e+03	1.654768e+03	5.680643e+02
43	-2.165110e+01	1.620169e+03	7.659615e+02
44	-2.717671e+03	-6.613816e+03	5.935961e+03
45	3.548232e+02	1.288234e+03	-3.668194e+02
46	1.545083e+02	-8.553171e+03	8.886386e+01

47	7.389413e+01	-1.186659e+03	8.544485e+02
48	1.936019e+03	-1.986749e+03	1.708035e+02
49	3.322979e+02	3.087891e+03	-5.703284e+03
50	6.091681e+03	-3.544374e+03	5.466542e+02
51	-5.503531e+02	-1.839033e+02	8.077098e+02
52	5.610298e+03	4.028740e+03	4.328765e+02
53	1.693178e+03	5.611659e+02	3.977853e+03
54	-1.113502e+03	-8.999558e+03	2.657412e+03
55	-4.874458e+01	-1.851737e+02	-3.789920e+02
56	-1.603032e+03	-7.320818e+03	1.373506e+03
57	-5.596786e+03	4.580298e+03	8.096370e+03
58	-5.418999e+03	1.368708e+03	-3.878816e+03
59	1.208908e+03	1.089132e+03	-6.400692e+02
60	-2.522005e+03	-1.415681e+03	3.003508e+03
61	8.764111e+02	1.353240e+03	1.136943e+04
62	-2.271150e+03	9.821789e+02	1.463214e+03
63	-1.182950e+03	-6.273823e+02	-5.893388e+01
64	9.388354e+03	-7.317621e+03	1.536912e+03
65	1.626517e+03	-5.363648e+02	-3.647640e+03
66	5.454822e+03	4.499225e+02	3.381201e+02
67	5.801093e+03	-8.778726e+03	4.633507e+02

trajectory 9

atom	VX	VY	VZ
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trajectory 9

atom	VX	VY	VZ
1	-1.251995e+02	8.193663e+01	7.866034e+01
2	-8.838551e+02	-3.127967e+02	9.056736e+02
3	-1.053886e+03	1.946368e+03	1.893926e+03
4	9.261890e-01	-1.173951e+03	-6.333877e+02
5	5.688071e+02	-9.290520e+02	1.089115e+02
6	2.518372e+03	3.942530e+03	2.638485e+03
7	6.494129e+03	3.099127e+03	-5.338531e+03
8	-1.084292e+04	9.831362e+02	-4.188395e+03
9	1.088432e+02	1.878213e+02	5.075909e+02
10	1.109836e+03	-1.735996e+03	-8.779217e+02
11	1.846303e+03	1.388461e+02	-1.326368e+02
12	-2.232470e+03	2.018227e+03	5.828355e+03
13	7.929696e+02	-8.255754e+02	9.347295e+03
14	1.678493e+02	-2.175311e+02	3.058844e+02
15	2.509451e+03	1.746801e+02	-9.868481e+02

16	-8.800098e+02	2.103020e+02	3.862313e+02
17	1.698939e+01	-1.416342e+02	-3.424654e+02
18	-1.854454e+02	-6.428019e+01	6.726302e+02
19	-1.085271e+03	1.720758e+03	8.273084e+02
20	-5.597107e+02	4.986851e+02	-1.046407e+03
21	4.434298e+02	-2.180481e+02	3.425929e+02
22	3.534075e+02	8.510600e+02	4.918114e+02
23	2.152220e+02	-1.183150e+03	9.016170e+02
24	9.129506e+02	1.155261e+03	-6.459742e+02
25	8.898768e+02	-6.913485e+02	6.255167e+02
26	-4.378146e+02	-8.471839e+02	-4.139544e+01
27	-4.742306e+02	8.574925e+02	2.612556e+02
28	1.212798e+03	-1.623573e+03	-7.410286e+02
29	-3.309362e+02	-9.336572e+02	1.069279e+02
30	-8.028204e+01	7.754465e+02	6.864675e+02
31	-9.220535e+03	-4.984041e+03	-2.960748e+03
32	1.559995e+03	1.906883e+03	-2.396516e+03
33	-2.013186e+03	-5.232149e+03	-5.267540e+03
34	6.467597e+03	2.548690e+03	-1.992144e+03
35	-1.389034e+03	1.337761e+02	1.533030e+02
36	2.991787e+03	6.676574e+03	-4.275075e+03
37	1.832591e+03	9.163247e+02	2.072395e+02
38	-8.207597e+03	-3.664035e+03	-7.149976e+01
39	-1.679644e+03	2.056797e+03	1.771049e+03
40	6.795917e+02	9.253658e+01	1.727994e+03
41	-3.371769e+01	-4.681990e+01	-1.408289e+03
42	-9.201875e+02	1.232049e+03	-5.742395e+02
43	-1.068914e+03	-5.065141e+02	1.390766e+03
44	4.752533e+03	5.470593e+03	-4.968275e+03
45	-1.282374e+02	2.506067e+00	-4.730478e+02
46	-8.356702e+02	-5.037642e+03	-5.578816e+02
47	1.532515e+03	1.100018e+03	-9.233869e+02
48	4.373737e+03	1.382405e+03	-5.132778e+02
49	-8.213186e+03	-6.320895e+03	2.406638e+03
50	3.066689e+03	-3.496968e+03	3.291539e+03
51	-8.422893e+02	2.066600e+02	7.378153e+02
52	-2.677412e+01	-1.559318e+03	-4.799664e+03
53	5.799787e+03	2.680663e+03	-7.321003e+03
54	4.650512e+02	9.363753e+03	-6.686852e+03
55	-4.853019e+02	-1.349528e+03	-1.834204e+02
56	1.832526e+03	2.952390e+02	-2.615112e+03
57	2.059503e+03	-6.178967e+03	-1.039845e+04
58	-2.621008e+02	4.253675e+03	2.759863e+03
59	-1.176049e+03	4.860826e+02	-8.885568e+02
60	-1.022438e+03	-4.293972e+03	3.532251e+02
61	1.037195e+03	-3.019693e+03	8.205196e+03

62	-4.230462e+03	2.449540e+03	2.383145e+03
63	-5.675563e+02	-1.382877e+03	4.898018e+02
64	-1.765956e+03	5.660587e+03	6.254663e+03
65	-2.038443e+03	-4.916843e+02	-2.884398e+03
66	1.830684e+03	6.383040e+03	-1.417265e+03
67	-3.018468e+03	2.910491e+03	-2.304081e+03

trajectory 10

atom	VX	VY	VZ
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trajectory 10

atom	VX	VY	VZ
1	1.458900e+02	-1.735138e+02	-6.232349e+02
2	-2.793496e+01	-3.824808e+02	8.636755e+02
3	-1.307811e+02	-1.086040e+03	2.034156e+03
4	9.148939e+02	-4.522801e+02	-1.855364e+02
5	-8.235280e+01	1.507000e+03	1.134587e+03
6	1.367282e+03	-2.354992e+03	-2.499466e+03
7	1.409275e+03	-2.343379e+03	1.800940e+03
8	-5.796260e+03	6.712008e+02	-1.027322e+04
9	1.233646e+01	4.055136e+02	2.772100e+02
10	4.186450e+02	3.851606e+02	-5.743871e+01
11	-7.744641e+02	-1.161884e+02	-1.071536e+02
12	7.114188e+02	3.218551e+03	-5.848930e+03
13	2.098635e+03	-4.527900e+03	6.269139e+03
14	3.904865e+02	-4.429201e+02	7.992507e+01
15	-4.596887e+02	8.243283e+02	7.124395e+02
16	6.133675e+01	-3.945679e+02	7.933538e+01
17	-2.437861e+02	1.907911e+02	-1.252000e+02
18	-1.193718e+02	1.474999e+03	6.709545e+02
19	3.721961e+02	1.010947e+03	-1.755779e+03
20	-6.786694e+02	9.094422e+02	-1.060005e+03
21	-3.792965e+02	-7.696715e+02	9.496327e+02
22	2.714365e+03	1.161582e+02	4.386331e+02
23	-2.043546e+03	-1.141868e+01	3.313993e+02
24	7.548306e+01	-2.254562e+02	-9.658125e+02
25	-1.926045e+03	6.521363e+02	1.700268e+02
26	-5.619587e+01	-1.458350e+02	6.562691e+02
27	1.178949e+03	8.748666e+02	-2.226174e+03
28	-1.407079e+03	-1.005578e+03	2.802237e+02
29	5.439925e+02	-2.396374e+02	1.053686e+03
30	9.318453e+02	-2.874062e+02	-1.379830e+02

31	5.259015e+03	5.152602e+03	-3.465809e+02
32	4.310853e+03	-1.889747e+03	4.551238e+03
33	-2.212875e+03	-1.035275e+03	-1.260940e+03
34	-4.141519e+03	1.619984e+03	9.918688e+02
35	1.605309e+03	6.783872e+02	-2.811525e+02
36	-8.726081e+03	1.807117e+02	2.259858e+03
37	-7.969889e+02	4.782193e+02	1.371152e+03
38	-4.598296e+03	7.607207e+03	-2.551026e+03
39	-1.646419e+03	-5.834012e+03	-5.903069e+03
40	2.348747e+03	-5.148951e+00	-9.633057e+02
41	3.010884e+02	4.887306e+02	1.033680e+03
42	-1.294510e+02	-1.858132e+03	-1.255914e+02
43	-6.689623e+02	-3.614828e+02	-4.372146e+02
44	6.500985e+03	-3.968224e+03	-5.286873e+03
45	-3.163824e+01	3.390814e+02	-1.154807e+02
46	-1.315443e+03	7.523477e+02	1.461687e+03
47	-6.735241e+02	5.894145e+02	5.007364e+02
48	7.458615e+02	1.900014e+03	1.811385e+03
49	3.174221e+03	6.193122e+03	-1.163012e+02
50	-1.321838e+04	2.476833e+03	7.633360e+03
51	-7.068276e+02	-2.237292e+03	6.451473e+02
52	5.778260e+03	-2.536623e+03	7.242114e+01
53	2.569959e+03	1.630199e+02	1.275507e+03
54	4.396795e+03	8.347126e+03	-6.289436e+03
55	-1.971263e+02	3.865740e+02	1.555281e+03
56	1.154317e+04	1.877985e+03	-1.577105e+03
57	6.282815e+02	-2.352054e+03	1.386116e+03
58	-2.505531e+03	-2.218117e+03	1.793015e+03
59	7.840038e+02	-5.979789e+02	8.445776e+02
60	1.277383e+03	-7.995861e+03	-2.358139e+03
61	-1.556289e+03	3.667656e+03	-5.609478e+03
62	-4.069040e+03	-3.461699e+03	-9.523390e+02
63	6.031499e+02	-8.596677e+01	1.052058e+03
64	-4.096262e+03	-8.374913e+02	-1.815062e+03
65	1.560442e+03	-2.323551e+03	-4.526705e+03
66	-8.671170e+03	-3.559361e+03	-1.844780e+03
67	3.002135e+03	-4.682141e+03	1.851189e+03

trajectory 11

atom	VX	VY	VZ
1	6.517530e+01	1.646402e+02	1.969518e+01
2	3.074397e+02	8.365253e+02	3.732099e+02
3	5.457626e+02	6.697279e+02	-4.046145e+02
4	-8.391054e+02	9.632117e+01	4.860716e+02

5	1.460564e+02	-3.075680e+02	6.121658e+02
6	-3.155267e+02	2.414912e+03	-1.439568e+03
7	-2.535582e+02	-6.526068e+03	-5.890599e+03
8	3.941901e+03	1.581445e+03	5.637714e+03
9	5.000416e+02	-2.329595e+00	-2.349540e+03
10	-8.117196e+02	-1.943901e+02	2.037923e+02
11	4.357598e+02	-1.261990e+03	1.270372e+03
12	6.259493e+03	5.143186e+02	-1.996746e+03
13	2.076744e+03	8.386368e+03	-1.464457e+03
14	-8.671768e+02	-3.328851e+02	7.465342e+02
15	1.138557e+03	2.001859e+03	3.122657e+02
16	1.955673e+01	-7.698348e+02	-8.413303e+02
17	-1.394225e+02	-4.894225e+02	1.078670e+02
18	5.172016e+02	8.501553e+00	9.944884e+02
19	-2.115491e+02	-6.208905e+02	3.277006e+02
20	9.788215e+02	-4.139379e+02	-6.378006e+02
21	-3.637040e+01	-8.685790e+02	-2.975175e+02
22	1.344268e+03	-1.058604e+03	1.373557e+03
23	-7.453768e+02	9.430820e+01	-3.791251e+02
24	-7.469507e+02	3.709379e+02	1.393891e+02
25	-6.139111e+02	1.639140e+03	4.134060e+01
26	-4.876569e+02	4.550492e+02	1.773221e+02
27	5.022709e+02	1.111048e+03	-1.124823e+03
28	7.204518e+02	-2.170704e+02	-6.262452e+02
29	2.103702e+03	1.498105e+03	-3.754497e+02
30	8.288550e+02	-7.621064e+02	-8.651733e+02
31	-8.861640e+03	2.824049e+03	-1.858733e+03
32	1.380681e+03	-7.053903e+03	5.717857e+03
33	-3.861118e+03	1.282334e+03	-3.920732e+03
34	-3.952624e+03	3.541137e+03	3.669685e+03
35	-1.482403e+03	6.173219e+02	1.296519e+03
36	7.374030e+02	-1.235272e+03	-5.411686e+03
37	-9.182936e+02	7.694718e+02	7.154632e+01
38	-3.507041e+02	-7.489195e+03	-2.804285e+03
39	8.515247e+03	-9.333261e+02	-3.660524e+03
40	-2.230882e+03	-9.781935e+02	-1.031263e+02
41	-4.069894e+02	6.800360e+02	3.156106e+02
42	1.181249e+03	-4.164115e+02	1.284791e+03
43	-6.891015e+02	-1.857644e+03	-4.144673e+02
44	-4.909769e+03	3.133561e+03	-3.151997e+03
45	3.090721e+02	-4.932678e+02	-1.259257e+02
46	-1.893343e+03	5.286201e+02	2.861682e+03
47	4.087553e+02	-6.663784e+01	7.163578e+02
48	6.063372e+02	9.120621e+03	-8.625265e+03
49	-5.602207e+03	3.260372e+03	2.567368e+03
50	2.130598e+03	-6.006463e+02	-2.523610e+03

51	-1.010522e+03	1.087509e+02	1.753572e+03
52	5.670903e+02	-9.297410e+01	-2.826680e+03
53	7.514357e+03	-2.607250e+03	-5.196807e+03
54	-3.331362e+03	8.435114e+03	-2.532260e+03
55	7.091176e+02	6.662076e+02	-4.517795e+02
56	-6.917991e+00	-2.573168e+03	-8.161129e+02
57	-2.367619e+02	2.912927e+02	2.392116e+02
58	-1.115434e+04	-9.072298e+03	3.624994e+03
59	2.546781e+03	8.988546e+02	-9.603268e+02
60	-2.369581e+03	-1.339896e+03	-3.362124e+03
61	-1.210092e+03	-3.056955e+03	9.899591e+03
62	-1.208656e+03	-2.027622e+03	8.920762e+02
63	5.930169e+01	2.613905e+03	-6.337367e+02
64	-3.372014e+03	-8.121593e+03	-2.169700e+03
65	-3.626292e+03	-7.672359e+02	-2.219267e+03
66	-2.262414e+03	-1.094872e+03	-4.615695e+03
67	1.198576e+03	-5.928436e+03	3.408209e+03

trajectory 12

atom	VX	VY	VZ
1	-2.779839e+01	-5.110074e+01	3.757387e+02
2	-5.377980e+02	1.332973e+03	-2.635003e+02
3	2.652943e+02	-2.153945e+02	1.098686e+03
4	-6.665963e+02	-2.720323e+02	-8.478874e+02
5	3.474449e+02	2.513927e+02	1.041769e+02
6	1.995841e+03	-3.759932e+03	-3.954572e+03
7	-1.000263e+03	-2.145372e+03	-2.025931e+03
8	-8.040620e+03	-9.036122e+03	-6.104521e+02
9	-1.137950e+03	-2.128170e+02	-4.528140e+02
10	6.731773e+02	-6.778170e+02	5.566258e+02
11	1.172122e+03	6.242379e+02	-1.469100e+03
12	-7.691662e+03	-2.507837e+03	1.885273e+03
13	4.445047e+03	-6.140546e+03	-8.077014e+03
14	-4.817927e+02	9.173611e+01	-3.732029e+02
15	1.792282e+02	2.805389e+01	-1.312580e+02
16	-7.007322e+02	-1.117422e+03	3.813712e+02
17	2.442853e+02	1.538057e+02	-1.061271e+02
18	2.164254e+03	8.336729e+02	-5.491039e+02
19	-1.232975e+03	-1.670544e+03	-1.552391e+03
20	2.713716e+02	-1.239820e+01	1.177240e+03
21	-1.258883e+03	1.007679e+03	3.646090e+02
22	-1.332366e+03	7.824871e+02	-1.063722e+03
23	1.724678e+02	3.090122e+02	-8.061574e+02
24	6.930611e+02	5.172990e+02	1.110946e+02

25	-5.158349e+02	-6.354033e+02	-8.435930e+02
26	3.575981e+02	5.138918e+02	-4.336885e+02
27	-7.621809e+02	1.197134e+03	2.901494e+02
28	1.291280e+03	-8.516053e+01	2.430226e+02
29	-9.293478e+02	-2.005487e+03	-9.012580e+02
30	8.321671e+02	-1.007846e+03	1.444645e+03
31	8.464077e+03	2.630805e+03	9.248430e+01
32	-5.940137e+03	7.463362e+03	-4.588618e+02
33	2.633995e+03	7.937376e+02	-7.554536e+03
34	5.436483e+03	-7.390430e+02	-1.220495e+03
35	7.277055e+02	-1.095839e+03	1.275858e+02
36	-3.776735e+03	4.773876e+02	3.058511e+03
37	1.807756e+02	4.790879e+02	-3.445128e+02
38	-2.296487e+02	-2.295632e+03	-4.087547e+03
39	7.353004e+03	-6.243861e+03	-1.261011e+03
40	-1.123259e+03	5.752460e+02	-1.588741e+03
41	-1.182678e+03	-5.466895e+02	1.412004e+03
42	1.410818e+03	8.835439e+02	7.186179e+02
43	-1.207104e+02	1.766834e+03	9.530805e+02
44	-2.013902e+03	2.001440e+03	-6.086111e+03
45	-9.680958e+02	2.033005e+02	3.286261e+02
46	2.355459e+03	-1.200698e+04	2.976255e+03
47	1.312031e+03	-4.485288e+02	2.454495e+02
48	-7.745920e+03	-2.255222e+02	2.241860e+03
49	-1.868802e+03	7.418495e+02	2.188908e+03
50	-1.749278e+03	1.949303e+03	-2.226368e+03
51	-6.462110e+02	-1.255344e+02	-1.267487e+03
52	2.642115e+03	1.631814e+03	8.371356e+02
53	6.712349e+03	-2.386289e+03	1.056740e+04
54	-2.224362e+03	2.044226e+03	3.429881e+03
55	6.027811e+02	2.165605e+03	5.826096e+02
56	-5.014965e+03	-6.281769e+03	-3.190164e+02
57	3.177368e+03	-8.032032e+03	1.593952e+02
58	-5.298848e+02	-1.209376e+03	5.260321e+02
59	-4.354129e+02	-2.666115e+02	-2.059894e+02
60	-6.925071e+03	-8.504708e+03	-5.795774e+02
61	1.866244e+03	-2.424556e+03	-5.300260e+02
62	3.327430e+03	3.761742e+03	1.192175e+03
63	1.487445e+03	-2.334464e+02	1.227323e+03
64	-5.911321e+03	5.747627e+03	1.792598e+03
65	-6.753625e+03	-6.425594e+03	-3.970531e+02
66	-4.344553e+03	-1.280262e+02	-1.869238e+03
67	2.821428e+02	-7.222490e+02	8.986067e+03

trajectory 13

atom	VX	VY	VZ
1	-3.909509e+01	-6.835160e+01	9.080964e+01
2	-1.106344e+02	-1.322322e+02	-6.741806e+02
3	1.240278e+03	-4.635750e+02	-3.904986e+02
4	-1.265501e+03	2.240314e+02	-3.577820e+01
5	5.848946e+02	6.745391e+01	5.250154e+02
6	-1.295046e+02	5.815696e+03	2.861817e+03
7	1.508900e+02	-2.468743e+03	-1.142244e+03
8	-1.102722e+04	-6.309050e+03	2.276583e+03
9	1.243047e+03	-1.021669e+02	1.598794e+03
10	-1.019153e+03	-1.347989e+03	4.282252e+02
11	-1.129928e+03	3.276962e+03	7.300456e+01
12	-2.976445e+03	-5.299982e+03	1.945836e+03
13	-1.213671e+03	4.961338e+03	-3.439468e+03
14	-5.620626e+02	-5.265657e+02	9.066928e+02
15	6.948739e+02	-3.093300e+02	-8.484109e+02
16	-6.524151e+02	-1.206969e+02	1.143524e+03
17	4.188769e+02	-1.683450e+02	-2.295180e+02
18	-6.884480e+01	-3.285904e+02	-5.697944e+00
19	-6.787093e+02	-5.642596e+02	-3.170403e+02
20	-6.897500e+02	1.575908e+03	-1.137869e+03
21	4.066610e+02	1.019166e+03	5.280280e+01
22	-1.094827e+03	3.140863e+02	1.530424e+03
23	2.667873e+02	-1.339273e+03	-7.085714e+01
24	5.415337e+02	1.147388e+02	-6.411887e+01
25	-8.407186e+02	7.248507e+02	2.181623e+03
26	2.410293e+02	-2.284271e+01	2.470213e+02
27	-2.411505e+02	-5.950629e+02	-1.914641e+02
28	1.890393e+03	-6.690271e+02	1.041127e+03
29	-6.760662e+02	-1.490808e+03	9.203607e+02
30	1.210517e+03	1.001347e+03	-1.048259e+03
31	-5.781200e+03	-3.728340e+02	1.916641e+03
32	-7.719016e+03	5.387450e+03	-3.272492e+02
33	1.895658e+03	-6.059471e+02	2.621914e+03
34	-9.628534e+03	2.222101e+03	-4.877957e+03
35	5.461576e+02	1.190791e+03	-1.088991e+03
36	1.241065e+03	-4.320396e+03	-7.500412e+02
37	8.512247e+01	2.511172e+03	-9.811478e+02
38	7.302011e+03	2.343192e+03	3.416498e+03
39	3.273775e+03	-3.162373e+03	1.283536e+03
40	-8.049719e+02	-4.069334e+02	-5.096904e+02
41	1.745750e+03	5.075312e+02	1.043926e+01
42	-8.718026e+00	1.531708e+02	4.194927e+02
43	5.967222e+01	-1.796239e+03	-9.139981e+02
44	-9.252978e+03	-8.669003e+02	-5.951074e+01

45	-3.281704e+02	-4.943905e+02	1.856200e+02
46	-3.768112e+03	2.064430e+03	3.158835e+02
47	1.576836e+03	-3.894978e+02	9.800778e+01
48	-3.376398e+03	4.554367e+03	1.308210e+03
49	2.185907e+03	-3.613890e+03	-3.921340e+03
50	-1.012186e+04	-3.229301e+03	6.334547e+03
51	-1.290189e+02	-2.323010e+02	-3.256794e+02
52	1.002580e+04	-4.617626e+01	-5.367756e+03
53	-7.083941e+03	4.902557e+03	4.486676e+02
54	1.479594e+03	2.180881e+03	-1.649439e+03
55	-4.441329e+02	1.893447e+02	-1.440586e+02
56	-3.596167e+03	-2.034841e+03	9.197294e+03
57	-1.282406e+03	2.543653e+03	2.720818e+02
58	-3.209022e+02	3.005616e+03	3.884257e+03
59	1.129383e+03	-2.891914e+02	-1.525867e+03
60	-3.094699e+03	1.937161e+03	-2.639425e+02
61	-3.981702e+03	2.593887e+02	8.714576e+02
62	-9.933318e+03	1.835062e+03	-4.731468e+03
63	6.448218e+02	-2.309891e+02	-9.509286e+02
64	1.070031e+03	-7.255766e+03	-9.576868e+03
65	-6.485885e+02	7.171681e+02	3.071961e+03
66	-7.070228e+03	5.383149e+03	7.827365e+02
67	-3.341028e+03	-4.526729e+02	-4.608005e+03

trajectory 14

atom	VX	VY	VZ
1	-3.250195e+02	-1.884553e+02	-2.580482e+02
2	3.449460e+02	-9.204548e+02	5.860005e+02
3	-1.140571e+03	7.797436e+02	-1.639425e+03
4	1.359729e+03	7.806805e+02	9.690178e+02
5	-4.094483e+02	3.188255e+02	-7.636395e+02
6	-7.958358e+03	-7.178671e+02	6.792304e+03
7	3.683832e+03	5.595555e+03	1.180196e+03
8	1.207517e+03	3.083397e+03	-2.060117e+03
9	-1.379012e+02	3.420339e+02	2.456914e+02
10	1.324703e+03	-5.769234e+02	-1.016673e+03
11	8.521622e+02	-2.053691e+03	-1.442310e+03
12	-1.053329e+04	5.298949e+02	2.638910e+03
13	-5.564287e+03	-1.689086e+03	3.125991e+03
14	7.474024e+02	8.130576e+01	1.144980e+03
15	-1.869422e+03	-3.619926e+02	-1.586192e+02
16	1.039949e+03	6.958019e+02	3.615265e+02
17	2.646434e+02	-2.931342e+01	3.627305e+01
18	-2.669053e+02	6.802584e+02	3.755374e+02

19	-1.256818e+03	-5.000315e+02	-6.108051e+02
20	4.025369e+02	4.967871e+01	-6.041338e+02
21	-5.465185e+02	2.283158e+02	-1.486557e+02
22	7.374397e+02	8.770896e+01	3.066916e+02
23	3.973674e+02	-5.699652e+01	-2.639167e+02
24	7.088610e+02	-4.001428e+02	-8.199085e+02
25	6.750951e+02	1.468038e+03	1.850490e+03
26	-8.733648e+01	2.712524e+02	-1.656937e+02
27	8.785361e+02	3.112789e+01	1.188417e+02
28	-3.340654e+02	-4.353203e+02	3.100589e+02
29	-1.652812e+03	6.339340e+02	1.249877e+03
30	-4.437658e+02	2.560451e+02	1.322228e+02
31	9.041322e+03	-6.033271e+02	2.873127e+03
32	9.359329e+02	-5.628764e+03	-1.878107e+03
33	-3.681421e+03	-2.657316e+03	-3.937688e+03
34	9.102540e+01	6.360866e+03	5.197489e+03
35	1.134590e+02	8.879318e+02	8.403723e+02
36	-4.031520e+03	-7.394703e+03	2.707644e+03
37	8.605850e+02	-7.710882e+02	-4.715059e+01
38	-9.127017e+03	3.760758e+03	-3.634002e+03
39	-2.996812e+03	-8.966472e+02	2.780804e+03
40	1.703340e+02	8.972467e+02	-3.691133e+02
41	-1.684132e+03	-9.120682e+02	1.515654e+03
42	-6.361511e+02	-5.116057e+02	-8.353276e+02
43	1.281296e+03	-2.038849e+02	-1.438229e+03
44	-4.748931e+03	6.193293e+03	1.509080e+03
45	2.934923e+02	1.108487e+03	-2.109953e+02
46	2.192816e+03	-2.908787e+03	1.878019e+03
47	3.714543e+02	-3.877553e+02	3.460343e+02
48	1.896019e+03	-4.146275e+03	5.009941e+03
49	-4.076740e+03	-2.021934e+03	-3.148595e+03
50	-8.485836e+03	4.511300e+03	4.461328e+03
51	-4.967842e+02	-8.226654e+02	-1.699336e+03
52	3.263611e+03	7.582031e+03	-4.722542e+03
53	-2.157330e+03	5.152445e+03	7.091604e+03
54	1.373268e+03	-8.455120e+03	-8.294778e+02
55	2.955820e+03	6.124530e+00	1.235435e+03
56	-1.658010e+03	-8.790651e+02	-2.604484e+03
57	1.761369e+02	-3.297910e+03	3.327685e+03
58	-7.127462e+03	3.391103e+02	-2.628711e+03
59	-9.266198e+02	-9.179387e+02	8.131824e+01
60	4.420083e+03	7.719469e+03	-1.781680e+03
61	7.976765e+02	1.803274e+03	-9.469907e+02
62	-3.780199e+03	-1.812019e+02	1.875821e+03
63	4.367489e+02	-3.499824e+02	2.805852e+02
64	-2.662333e+03	5.050157e+03	7.785690e+03

65	-2.466726e+03	-5.148920e+03	5.159074e+02
66	-5.422112e+03	8.669731e+01	-5.379919e+03
67	8.365942e+02	7.367910e+03	-5.489364e+03

trajectory 15

atom	VX	VY	VZ
1	-5.023820e+02	3.374102e+01	2.319952e+02
2	1.848727e+03	-9.861689e+01	5.167152e+02
3	-4.139889e+02	-1.513634e+03	-1.640527e+03
4	-1.949940e+02	4.419747e+02	3.423703e+02
5	4.454754e+02	7.727401e+01	-2.432045e+03
6	-4.527409e+03	-7.043609e+03	5.142152e+03
7	-1.199952e+03	-2.259206e+03	3.582315e+03
8	-3.761870e+02	-3.514859e+03	3.972441e+03
9	-1.867202e+02	1.882750e+02	-5.242313e+01
10	-1.343434e+03	2.083523e+03	-5.280975e+02
11	-2.014473e+02	-7.383652e+02	7.276556e+02
12	-1.100075e+03	-6.483082e+03	5.245060e+03
13	8.644249e+03	-1.512187e+02	-3.215029e+03
14	-3.421381e-01	-5.190807e+02	4.183379e+02
15	-1.003565e+03	3.884499e+02	1.508813e+02
16	3.174593e+02	-6.911474e+02	2.019495e+02
17	3.502775e+02	1.219265e+02	8.919797e+01
18	3.939678e+02	-5.055934e-01	-2.742046e+02
19	-4.890243e+02	4.851004e+02	-4.909712e+02
20	4.100467e+02	-6.727303e+02	-5.208329e+02
21	-6.470338e+02	1.311856e+02	-4.347571e+01
22	1.824242e+02	9.356493e+02	8.675710e+02
23	1.269754e+03	9.370469e+02	9.514831e+02
24	-7.342999e+02	1.052481e+03	-6.577850e+02
25	-2.017324e+02	-2.569735e+03	6.407628e+01
26	7.857946e+02	1.702786e+03	1.986820e+03
27	4.431784e+02	1.638711e+03	-1.403752e+02
28	-1.123280e+03	9.383244e+02	-1.185101e+03
29	2.043061e+03	-6.879906e+02	6.470465e+02
30	-4.505042e+02	-8.670172e+02	1.244985e+03
31	1.949641e+03	4.762801e+02	-3.153817e+03
32	-2.014110e+03	4.587381e+03	1.325184e+03
33	2.423644e+03	-4.095237e+03	1.400361e+03
34	-3.655149e+03	8.371725e+03	-2.790419e+03
35	2.830105e+02	2.523286e+02	1.383797e+03
36	6.762558e+03	4.496103e+03	-2.640237e+03
37	6.621008e+02	1.447576e+02	-1.144917e+03
38	-7.749946e+03	8.324920e+02	-4.793225e+03

39	-6.337857e+03	-9.725794e+02	-3.584490e+02
40	-1.408662e+03	-6.669176e+02	1.803312e+02
41	6.016999e+02	-3.961351e+02	-8.620345e+01
42	1.936970e+02	-4.585208e+02	8.053485e+02
43	1.301518e+03	5.106131e+02	-3.364537e+02
44	5.904168e+03	3.083245e+03	-4.760877e+03
45	2.474973e+03	-7.399707e+02	-6.311429e+02
46	-3.437717e+03	-4.973895e+03	5.871746e+03
47	-1.609222e+03	-9.970343e+02	5.829286e+01
48	-5.165791e+02	2.931787e+03	7.293214e+02
49	-4.206373e+03	-7.241961e+03	2.639154e+03
50	2.988870e+03	3.739006e+03	2.317092e+03
51	-1.914681e+03	-1.604060e+03	7.848552e+01
52	7.244960e+03	3.070286e+03	2.399878e+02
53	1.355945e+03	2.226149e+03	2.019585e+03
54	3.114793e+03	-7.772225e+03	1.213820e+03
55	4.139311e+02	-6.465847e+02	-4.423129e+02
56	1.301447e+03	5.033572e+03	-4.560169e+03
57	-1.798263e+03	-8.132296e+03	-6.806109e+03
58	4.098103e+02	4.742230e+03	3.072784e+03
59	1.303688e+03	-6.224882e+02	-9.203639e+02
60	-3.788132e+03	1.696945e+03	-4.783236e+03
61	-4.105648e+03	-5.210021e+02	1.366889e+03
62	-9.268766e+03	2.470878e+03	1.531901e+03
63	-8.788336e+02	1.435908e+03	-1.993677e+03
64	7.046985e+02	-8.740476e+03	-3.828238e+03
65	-3.099542e+03	-3.329181e+03	-1.383157e+03
66	-3.409593e+03	-5.466291e+02	-3.531518e+03
67	-2.900072e+03	5.584194e+03	-2.703548e+03

trajectory 16

atom	VX	VY	VZ
1	2.677689e+01	-6.429876e+01	-9.662412e+01
2	1.599748e+03	-1.226710e+03	7.398570e+02
3	-5.446341e+02	5.553494e+02	-2.062878e+01
4	-3.351985e+02	1.267841e+03	-1.034907e+03
5	3.629699e+02	1.094356e+03	2.017981e+02
6	-8.502445e+02	-7.529513e+03	3.463113e+03
7	3.932970e+03	-8.546111e+03	-1.162370e+03
8	1.421573e+03	1.113948e+03	-6.786638e+03
9	5.736016e+01	7.115723e+02	1.745829e+03
10	-3.583637e+02	-6.881600e+02	6.809185e+02
11	3.764051e+02	1.289666e+03	2.132955e+01
12	1.092229e+03	4.275220e+03	-2.963943e+03

13	-1.109891e+03	2.838851e+03	-5.706569e+03
14	5.430311e+02	-7.211687e+01	3.719899e+02
15	-1.173056e+03	-3.365036e+02	8.696936e+02
16	-5.368491e+02	1.218668e+03	-8.013015e+00
17	-4.385035e+02	-5.783685e+01	4.509117e+02
18	-4.850908e+02	-1.661211e+02	-2.873069e+02
19	1.146961e+03	2.138502e+03	7.866381e+02
20	-6.924830e+01	-8.943647e+01	3.460921e+02
21	2.006035e+02	-1.680139e+02	-7.735309e+02
22	2.680119e+03	-9.491333e+02	6.775911e+00
23	-1.244930e+03	9.346010e+02	3.190097e+02
24	2.478279e+02	-8.850536e+02	-1.156092e+02
25	6.967944e+02	4.658493e+02	-5.266214e+02
26	3.295879e+02	-1.919159e+02	-7.000090e+02
27	-9.778191e+02	-1.841979e+03	-8.058484e+02
28	9.309364e+02	9.041921e+02	1.273272e+01
29	-2.323654e+03	-7.441843e+02	1.737883e+03
30	-3.144714e+02	-8.200902e+02	-4.638749e+02
31	4.265568e+03	2.603436e+03	-4.141653e+03
32	3.765142e+03	-8.568645e+03	5.703251e+02
33	-4.619336e+03	2.195569e+02	-4.988433e+02
34	-6.012788e+03	1.035987e+03	-4.641193e+02
35	4.942136e+02	1.272274e+02	2.432315e+02
36	-2.707128e+03	8.169721e+03	-9.643150e+02
37	-2.795990e+02	2.868280e+02	-1.143873e+03
38	-4.450292e+03	4.554411e+03	-9.793225e+03
39	2.546921e+03	1.128342e+03	6.032448e+03
40	2.865110e+02	-1.331080e+03	-4.619450e+01
41	-7.183595e+02	-8.747216e+01	3.148833e+02
42	-6.222133e+02	9.650428e+02	-2.968015e+02
43	3.077266e+02	-3.282444e+02	6.938305e+02
44	6.130910e+03	-1.445360e+03	-2.370268e+03
45	1.642901e+03	2.000281e+03	-7.826991e+02
46	4.436149e+03	-1.131172e+04	2.334838e+03
47	-2.470854e+02	-1.721061e+03	-3.457341e+02
48	-2.566920e+03	-2.517958e+03	-3.850199e+00
49	1.501880e+03	-1.256847e+03	-2.891861e+03
50	-1.879617e+03	4.364465e+03	3.786086e+01
51	1.246318e+03	-1.106389e+03	-4.464588e+02
52	-4.318989e+01	1.204652e+03	-4.275663e+02
53	-7.265225e+03	2.956546e+03	-8.835914e+03
54	6.107513e+03	1.071628e+03	5.360720e+02
55	8.217119e+02	-6.950815e+02	-7.832887e+02
56	2.758499e+03	-7.217664e+03	2.850856e+03
57	1.509813e+03	4.905857e+03	1.108056e+04
58	-3.748872e+03	1.769445e+03	-3.316564e+03

59	9.449131e+02	-2.718476e+02	-7.886647e+02
60	-6.094427e+03	3.578544e+03	-4.557474e+02
61	-3.856896e+03	-4.330222e+02	1.031316e+03
62	-1.001813e+04	2.661938e+03	-3.845525e+03
63	9.490701e+02	2.302429e+02	4.191405e+02
64	4.277231e+03	-6.107337e+03	-4.948247e+03
65	-4.698339e+03	3.001212e+03	4.426183e+02
66	-2.712101e+03	-4.528944e+03	-9.642302e+02
67	-1.018632e+03	4.700197e+03	-5.204032e+03

trajectory 17

atom	VX	VY	VZ
1	3.010415e+02	-4.391783e+01	4.523262e+02
2	-1.489522e+02	-6.120680e+01	-1.244103e+03
3	-3.758320e+02	1.027571e+03	-1.539579e+02
4	1.067182e+02	6.338832e+02	-5.458103e+02
5	8.575028e+02	9.791220e+02	-1.618054e+03
6	-4.216998e+03	-3.742745e+03	6.240461e+03
7	-3.767717e+03	9.410111e+02	5.740887e+02
8	-3.778878e+03	8.131709e+03	1.985519e+03
9	-4.595765e+02	-7.800004e+02	1.850818e+03
10	2.167466e+02	-5.803357e+02	2.075529e+02
11	-1.714055e+03	1.248295e+03	-9.577145e+01
12	3.221222e+03	5.646578e+03	-8.549203e+02
13	-5.835390e+03	-4.161853e+03	1.743309e+03
14	2.554684e+02	-1.207975e+03	-4.755893e+02
15	-3.778711e+02	-5.239886e+02	2.195192e+02
16	9.118063e+02	-1.185598e+03	1.747972e+02
17	-2.976851e+01	-1.592894e+02	8.688768e+01
18	4.997474e+02	8.014589e+02	2.023285e+02
19	-1.074248e+03	5.941930e+02	-1.309727e+03
20	-3.241384e+02	-1.485911e+02	-1.105207e+03
21	1.021954e+02	-3.728562e+02	8.050407e+01
22	-1.787032e+03	-8.870824e+02	-6.375631e+02
23	2.352471e+03	4.240291e+02	6.411074e+02
24	-1.188485e+03	6.525797e+02	7.484075e+02
25	8.184252e+02	8.052916e+02	2.768990e+01
26	4.339056e+02	-2.552802e+02	-1.402564e+03
27	2.153383e+02	1.291434e+03	3.617115e+02
28	-1.101287e+03	2.476486e+02	-6.282638e+02
29	-1.069275e+02	-4.134078e+01	5.916587e+02
30	-2.420519e+03	1.037798e+03	-4.115336e+02
31	-4.142405e+03	-3.785047e+03	1.882292e+03
32	-3.636825e+03	-4.334019e+03	8.974695e+03

33	-2.792350e+03	-9.832896e+02	-4.026259e+03
34	8.574027e+03	5.604637e+02	1.687773e+03
35	-2.552104e+00	-5.899820e+02	-1.458663e+03
36	4.940133e+03	4.540818e+02	1.303149e+02
37	9.160964e+02	3.235037e+02	-1.498293e+03
38	-6.178147e+03	-1.762902e+03	-4.779805e+03
39	4.562529e+03	4.402348e+03	2.937478e+03
40	4.420451e+02	-1.334888e+03	-5.686680e+02
41	-2.339927e+02	-1.180834e+03	2.252664e+03
42	1.382983e+03	-1.185323e+01	-8.253757e+02
43	-4.430889e+02	1.197400e+03	4.876323e+02
44	5.524046e+03	2.647738e+03	-5.446748e+03
45	-3.767036e+02	-2.772078e+02	-6.633251e+01
46	-4.342738e+03	4.745011e+03	2.925528e+03
47	-1.258481e+03	-1.831885e+03	8.961730e+02
48	-7.596825e+03	2.338569e+03	1.745268e+03
49	-3.247701e+01	4.006791e+03	-3.425206e+03
50	9.462809e+03	1.978157e+03	1.428984e+03
51	5.787716e+02	-2.174107e+02	-1.299913e+02
52	-2.948944e+03	1.609345e+03	2.403786e+02
53	-8.279017e+03	-2.096194e+03	-7.945198e+03
54	2.847698e+03	-2.034131e+02	-8.544896e+02
55	8.206367e+02	6.155777e+01	-8.378178e+02
56	-8.319207e+03	-5.538660e+03	5.217609e+03
57	1.154145e+03	5.842965e+02	2.787404e+02
58	7.352142e+03	-4.336982e+03	-8.740110e+02
59	1.577340e+03	4.694462e+02	1.261151e+03
60	-1.805028e+03	2.185923e+03	-2.321664e+03
61	6.093403e+03	2.394719e+03	4.659454e+02
62	-1.030329e+04	-4.940548e+02	-5.864813e+03
63	-9.748528e+02	1.179411e+03	4.347416e+02
64	-3.582740e+03	1.314887e+03	-9.178191e+02
65	7.979788e+03	1.784964e+03	-5.955519e+03
66	-2.810044e+02	1.336219e+03	4.604591e+02
67	4.145480e+03	-6.876226e+03	3.104911e+03

trajectory 18

atom	VX	VY	VZ
1	1.572998e+02	-4.300112e+02	-9.293035e+01
2	-2.763120e+02	9.179913e+02	-8.250272e+02
3	1.226454e+03	1.157023e+03	1.267527e+03
4	-5.692775e+01	7.543769e+01	-4.440170e+02
5	1.625649e+03	-9.775684e+02	5.109621e+02
6	1.038729e+03	3.008087e+03	4.580633e+02

7	5.366265e+03	-2.187991e+03	-1.560559e+03
8	-5.466647e+03	-7.151884e+03	-4.305119e+03
9	4.173404e+02	-3.252440e+02	-9.740337e+02
10	4.370946e+02	-1.029635e+03	-5.503205e+02
11	2.022983e+03	6.883576e+02	1.707706e+02
12	-2.279687e+02	-2.438200e+03	2.812234e+03
13	2.438265e+03	2.590687e+03	-6.005198e+03
14	-7.331993e+02	3.928048e+02	9.201317e+02
15	-7.362486e+02	8.955198e+02	3.245114e+01
16	5.502843e+01	1.714467e+02	-3.226293e+02
17	6.695411e+01	1.850162e+02	-8.078026e+01
18	-2.690224e+02	1.458576e+02	-3.859595e+01
19	1.732132e+03	-9.874531e+02	1.459450e+03
20	-6.360417e+01	2.475781e+02	-7.157327e+02
21	-7.696160e+02	-1.502019e+03	2.335947e+02
22	6.043827e+02	1.999313e+03	-1.428351e+03
23	-9.505380e+02	-8.850177e+02	8.383735e+02
24	-3.583155e+02	2.285047e+02	-6.515906e+01
25	-1.512175e+03	1.033162e+02	2.227128e+02
26	-6.203286e+02	-1.176631e+02	1.076890e+03
27	8.102879e+02	1.001044e+03	-6.133113e+02
28	-1.132691e+03	-3.150101e+02	7.305643e+02
29	-3.315374e+01	-9.628251e+02	1.889347e+02
30	2.781729e+02	2.074699e+02	-1.047731e+03
31	2.191265e+03	8.004093e+03	2.866249e+03
32	-3.388922e+03	3.980661e+03	3.224996e+03
33	-7.212478e+02	-1.882508e+03	9.272081e+03
34	5.267131e+03	2.731871e+03	-1.089509e+04
35	-6.583853e+02	-1.461899e+02	1.074188e+03
36	5.287689e+03	5.658478e+03	-9.357668e+02
37	-3.877418e+01	8.946394e+02	1.729372e+02
38	-6.155804e+03	2.251237e+03	-5.668918e+03
39	-3.499969e+03	1.171604e+03	2.532075e+03
40	-2.202362e+02	3.635214e+02	-3.865324e+02
41	-9.321913e+02	4.697514e+02	2.311540e+02
42	4.207856e+02	-9.730333e+02	1.137807e+03
43	-1.490799e+03	2.146612e+00	4.255279e+02
44	-1.060398e+03	-4.680093e+03	6.288002e+03
45	-8.616803e+02	5.747730e+02	-6.221095e+02
46	-7.855793e+03	1.096821e+04	-2.071403e+02
47	9.621916e+02	-1.331179e+03	-9.304173e+02
48	2.762986e+03	1.150589e+03	-3.092397e+03
49	4.063855e+03	2.590526e+02	2.132472e+03
50	7.492019e+03	3.435923e+03	2.000589e+03
51	4.186328e+02	-4.136321e+02	6.407591e+02
52	6.846771e+02	-1.770688e+03	1.584354e+03

53	-1.147729e+04	-2.331085e+03	-1.007169e+03
54	-3.714900e+03	-1.681870e+03	2.192327e+03
55	-4.326622e+02	-1.077001e+02	-3.479269e+02
56	-7.632228e+02	2.504485e+03	-1.003864e+04
57	-5.169835e+03	1.033247e+04	-2.232876e+03
58	5.845154e+03	-1.309917e+03	-1.054969e+03
59	1.286647e+03	-1.814319e+03	-1.381304e+03
60	-5.446954e+01	-3.814617e+02	5.723688e+03
61	8.835953e+02	2.530285e+03	1.323426e+03
62	-9.690160e+03	-1.318035e+02	-4.372178e+03
63	-2.181264e+02	6.897323e+02	1.300368e+03
64	1.381211e+02	1.154873e+03	4.545605e+03
65	-2.940154e+03	2.489508e+02	4.440145e+03
66	1.154078e+04	-1.045457e+02	-9.258974e+02
67	-1.640561e+03	3.165077e+03	-6.512271e+03

trajectory 19

atom	VX	VY	VZ
1	-3.203519e+02	2.345542e+02	2.074682e+02
2	1.609299e+03	6.083556e+02	3.039103e+02
3	-7.906666e+02	-1.662092e+03	-1.254261e+03
4	-7.042727e+02	-4.979538e+02	3.547680e+02
5	-1.844785e+02	5.773202e+02	-3.320377e+02
6	9.559213e+02	1.820228e+03	-2.189216e+03
7	1.671296e+03	-9.009289e+03	-2.676104e+03
8	3.191926e+03	4.143895e+03	4.456434e+03
9	2.426207e+01	8.017431e+02	5.961118e+02
10	-7.847027e+02	1.949472e+02	2.175168e+02
11	-9.714151e+02	-2.259710e+02	9.515770e+02
12	6.903522e+03	-2.097481e+02	-2.058650e+03
13	6.093344e+03	-6.812213e+02	-5.396398e+03
14	-1.019863e+02	4.067447e+02	1.219543e+03
15	-4.090605e+02	-1.847160e+03	-1.264284e+02
16	1.411059e+03	2.365168e+03	8.899381e+02
17	-6.936638e+01	1.640622e+02	4.285371e+01
18	1.166116e+03	-4.200399e+02	6.559081e+02
19	2.072752e+03	-5.776910e+02	-1.016741e+03
20	-1.705065e+03	-5.493759e+02	3.349821e+02
21	-3.343191e+01	3.836109e+02	-6.785221e+02
22	-5.764044e+02	-1.334549e+03	-7.042828e+02
23	1.964752e+02	2.969317e+02	-2.451980e+02
24	-3.501952e+02	3.025197e+02	-1.412832e+03
25	-3.605274e+02	2.686590e+02	1.118088e+02
26	-3.427165e+02	-1.408560e+02	1.695143e+02

27	-8.054304e+02	-3.235636e+02	2.579607e+02
28	-1.836072e+03	9.954643e+02	4.805025e+02
29	-2.323413e+01	-1.688155e+03	-6.642198e+02
30	-1.136470e+02	1.628996e+02	-2.491723e+03
31	-4.656685e+03	-3.723259e+03	8.164077e+03
32	3.964315e+03	-3.686513e+03	5.127382e+03
33	3.248845e+03	-1.616047e+02	2.125063e+03
34	6.202982e+03	4.376062e+03	-7.107375e+03
35	-3.699808e+02	-1.266086e+03	1.955648e+02
36	3.632473e+03	-6.863696e+02	-3.664920e+02
37	2.371737e+03	3.081478e+02	8.369343e+02
38	-2.949785e+03	3.358505e+03	-2.831636e+02
39	2.508235e+02	-6.276455e+03	-7.458263e+03
40	3.687998e+02	5.821237e+02	-1.756137e+03
41	6.864243e+02	-8.202399e+00	-5.416768e+02
42	1.507044e+03	-8.696932e+02	6.716880e+02
43	2.986200e+02	-7.694101e+02	1.132465e+03
44	6.595146e+03	6.241035e+03	-5.164958e+03
45	-1.423234e+03	-3.927662e+02	-4.997709e+01
46	-2.274344e+03	3.153851e+02	-1.148219e+03
47	-5.956928e+00	2.180866e+03	8.561227e+02
48	4.895226e+03	-8.466007e+01	-4.584674e+03
49	3.240536e+03	-2.396127e+03	-3.552753e+03
50	8.322676e+03	-2.029417e+03	7.217031e+03
51	2.078586e+02	-1.582694e+03	8.287777e+01
52	-1.082969e+03	4.609309e+03	-3.337063e+03
53	4.181799e+03	5.520225e+02	-3.007786e+03
54	-6.727898e+03	6.144076e+03	-3.349221e+03
55	-1.334339e+03	-8.075209e+02	-2.880270e+02
56	3.023136e+03	2.310115e+03	5.297455e+03
57	2.691541e+03	-1.014811e+03	4.522548e+03
58	5.972094e+03	2.930184e+03	4.877329e+03
59	-4.065993e+02	1.309264e+03	-3.309741e+02
60	-5.901731e+03	-7.020798e+03	5.932112e+03
61	-6.030677e+02	-1.403043e+03	2.806615e+02
62	2.440664e+03	-2.482471e+03	1.419822e+02
63	1.244277e+03	3.625981e+02	5.484664e+02
64	-2.816101e+03	-8.330076e+03	-7.667535e+03
65	-5.144211e+03	-5.845075e+03	-2.394016e+03
66	7.965524e+02	-3.168577e+03	-5.874574e+03
67	1.008281e+03	3.025116e+03	-1.350232e+03

trajectory 20
atom VX

VY

VZ

1	-8.372845e+01	2.953840e+01	3.279592e+01
2	5.954228e+02	6.173999e+02	2.452683e+02
3	-4.312354e+02	-1.762862e+03	-1.126947e+03
4	-1.324842e+02	-6.145672e+02	2.986828e+02
5	2.632973e+03	-9.578816e+02	-1.277741e+03
6	-3.710554e+03	3.865836e+03	7.264847e+02
7	1.255720e+03	2.626331e+03	7.147658e+03
8	-4.285135e+03	-3.150495e+03	-1.063466e+03
9	-1.420560e+01	-5.685716e+02	8.823971e+02
10	-4.668247e+02	-2.067965e+02	7.755225e+02
11	1.025386e+03	9.436899e+02	1.126539e+02
12	-6.236258e+03	4.524452e+03	3.835639e+03
13	2.853735e+03	7.676001e+02	-4.923191e+03
14	5.816888e+02	-4.855319e+02	-2.243477e+02
15	1.744279e+03	2.490096e+02	1.493434e+03
16	-4.018412e+02	-3.611899e+02	-7.512664e+02
17	-2.085131e+02	-3.717991e+02	-1.249416e+02
18	-1.183632e+03	-1.017851e+03	5.065187e+02
19	1.059550e+03	2.145582e+03	-1.021138e+03
20	1.902675e+02	2.642496e+02	6.699380e+02
21	5.571304e+00	8.010340e+02	1.191975e+03
22	-3.317122e+02	-7.829967e+02	-1.349108e+03
23	-1.348803e+02	1.374552e+01	-6.842062e+02
24	5.514314e+02	1.672831e+03	-6.760088e+01
25	-8.221830e+02	9.875048e+02	1.200012e+03
26	-8.542847e+02	-1.303193e+03	-1.088807e+03
27	-8.201282e+02	-9.895524e+02	2.034975e+03
28	-7.682793e+02	8.166252e+02	1.873100e+02
29	1.337068e+03	-9.817555e+02	-1.400666e+03
30	-1.639689e+03	1.439597e+03	-1.017561e+03
31	6.210958e+03	3.234037e+03	1.048610e+03
32	7.384064e+03	4.041026e+02	5.185033e+02
33	-8.022005e+03	1.241301e+03	-2.722322e+03
34	7.179338e+03	1.602036e+02	3.570201e+02
35	2.952177e+02	1.413575e+03	7.707875e+02
36	-3.662391e+03	-7.516891e+03	2.020103e+03
37	-1.569108e+02	-2.556784e+02	1.062681e+03
38	-2.171655e+03	-5.360820e+03	-6.696726e+03
39	-2.456895e+03	-1.489590e+03	5.319752e+03
40	-8.387060e+02	-5.486616e+02	-2.825544e+02
41	8.355115e+02	8.692791e+02	5.666172e+02
42	-3.887942e+02	1.750604e+02	5.100311e+02
43	9.691326e+02	-6.019937e+02	-4.316332e+02
44	8.647544e+02	-2.119125e+01	3.781282e+03
45	1.492261e+03	-4.150620e+02	-1.850847e+03
46	-2.732698e+03	1.673286e+03	-6.754781e+03

47	-1.198480e+03	4.230674e+02	1.058800e+03
48	-4.056057e+03	5.312698e+03	-3.905356e+03
49	3.827559e+02	6.783391e+03	-2.219233e+03
50	8.283216e+03	-5.723166e+03	2.186307e+02
51	-1.207968e+02	3.274079e+02	8.153794e+02
52	-7.637706e+02	-4.483902e+03	7.079658e+03
53	-3.493933e+03	2.511041e+03	-1.454563e+03
54	3.250250e+02	5.706061e+03	-7.812190e+03
55	-1.267721e+02	1.860825e+02	7.962868e+02
56	3.010734e+03	8.063528e+03	-8.518189e+02
57	4.475048e+03	-6.717719e+03	-3.677425e+03
58	3.289632e+03	-9.054378e+02	4.266372e+03
59	6.148738e+01	-5.477314e+01	-7.833534e+02
60	7.059453e+03	8.328255e+03	1.695027e+03
61	-1.810113e+02	1.898171e+03	-1.436115e+03
62	-2.981459e+03	-2.095195e+03	2.589856e+03
63	-4.870179e+02	2.314999e+03	-8.382552e+02
64	-1.059384e+03	-7.745119e+03	-5.246381e+03
65	-7.770582e+01	-3.549872e+03	2.550962e+03
66	-1.354406e+03	-6.297792e+03	1.357098e+03
67	5.510819e+03	-5.449164e+03	-9.572873e+02

trajectory 21

atom	VX	VY	VZ
1	-3.784432e+02	-2.168055e+02	2.345525e+02
2	-9.309179e+01	-9.064383e+02	2.542081e+03
3	-4.820623e+02	-4.684280e+02	-1.620820e+03
4	1.634255e+03	-9.103143e+01	-2.268728e+02
5	-5.056452e+02	-8.472482e+01	1.268784e+03
6	-4.728176e+02	-1.533320e+03	-4.234984e+03
7	4.338639e+02	-1.382351e+03	-8.691780e+03
8	3.705998e+03	9.457141e+03	-6.935650e+01
9	-1.309320e+03	3.362972e+02	2.879694e+02
10	1.682732e+02	1.222539e+03	-6.071664e+02
11	-1.455524e+03	7.670960e+02	1.136634e+03
12	3.820027e+03	1.953094e+01	-1.547814e+03
13	-1.056811e+03	-6.088861e+03	2.169825e+03
14	-5.713025e+02	-5.483564e+02	-5.894057e+02
15	-2.846852e+02	2.128041e+03	8.662710e+02
16	-3.294943e+02	-1.595105e+03	-1.969132e+03
17	-9.301653e+01	-1.384530e+02	9.688445e+01
18	-1.173971e+03	4.288934e+02	1.648801e+02
19	1.007940e+03	-2.068420e+02	-5.947286e+01
20	8.911626e+01	7.387968e+01	3.856318e+02

21	-4.335750e+02	1.855100e+03	-2.919015e+01
22	3.518236e+02	-4.719544e+01	-1.063632e+03
23	-2.731382e+01	1.362117e+02	7.771511e+02
24	-5.735319e+02	6.348576e+01	3.654577e+02
25	2.201746e+02	6.811863e+01	-3.941377e+01
26	5.552446e+02	3.886683e+02	-1.328850e+02
27	3.841804e+02	-8.991107e+02	-3.214910e+02
28	1.232074e+03	5.498811e+02	-1.579949e+03
29	-7.054060e+02	-7.310503e+01	-7.667878e+01
30	7.034903e+02	2.314858e+02	-4.884014e+02
31	4.981225e+03	8.272583e+03	-4.786896e+03
32	1.389962e+03	1.123074e+03	-4.376196e+03
33	-4.143776e+01	1.165339e+03	3.006711e+03
34	-6.206814e+03	5.175696e+02	-2.433347e+03
35	-1.541484e+03	-6.152623e+01	3.882299e+02
36	2.597344e+03	8.387183e+03	-5.895701e+02
37	2.587915e+02	-1.757293e+02	-6.112063e+02
38	-5.141614e+03	-1.053228e+02	-6.335975e+03
39	3.293383e+03	-2.839617e+03	9.488263e+03
40	1.608685e+03	-1.477049e+03	7.998386e+02
41	-4.126365e+02	-1.843672e+02	1.889641e+02
42	-2.011316e+02	1.436986e+03	-1.021224e+03
43	3.296062e+02	-1.475438e+03	-5.163282e+02
44	5.049243e+03	1.183536e+03	2.451910e+03
45	1.135029e+03	1.493647e+02	2.157101e+02
46	3.338601e+03	-2.189433e+03	-1.186231e+02
47	2.614067e+03	4.656183e+02	-9.702123e+02
48	2.559481e+03	-5.842501e+03	6.583961e+03
49	-1.159615e+03	4.366861e+03	4.946225e+03
50	-7.124558e+03	6.777617e+03	-2.489216e+03
51	-8.608096e+02	5.772851e+02	-1.894822e+02
52	8.407613e+03	-1.295098e+03	-4.022108e+03
53	3.271788e+03	-5.459605e+03	5.357255e+03
54	3.607523e+03	-4.806461e+03	4.376136e+03
55	6.027915e+02	1.296228e+03	4.944796e+02
56	-3.261106e+03	-7.614043e+03	2.250735e+03
57	-8.310209e+02	-8.654464e+03	-2.072454e+03
58	-4.532204e+02	-3.312306e+03	9.532389e+01
59	2.363222e+02	2.960377e+02	-1.200829e+03
60	1.350721e+03	-4.408444e+03	4.409567e+03
61	6.302238e+03	-2.588515e+03	6.474795e+03
62	-4.120166e+03	-5.639741e+03	-3.267445e+03
63	6.782758e+02	1.828124e+03	3.911936e+02
64	1.440769e+03	-1.863535e+03	2.269230e+03
65	4.145543e+03	1.513347e+03	-2.177037e+03
66	-3.827186e+03	-1.048618e+04	-2.496736e+02

67 -3.286965e+03 -6.085363e+03 -2.641809e+02

trajectory 22

atom	VX	VY	VZ
1	-2.214460e+02	-1.036304e+02	-3.216019e+02
2	-3.421271e+02	-2.938840e+02	-8.994553e+01
3	7.460020e+02	-1.386790e+02	1.182620e+03
4	-5.158243e+02	2.600690e+03	-5.454784e+02
5	-7.090785e+02	-1.238430e+03	-7.772970e+02
6	-1.154477e+03	1.534845e+03	2.169932e+03
7	2.727181e+03	1.666312e+03	3.010108e+03
8	9.350078e+03	5.159269e+03	1.537462e+02
9	1.406814e+01	-7.498593e+02	-8.091452e+02
10	-2.100840e+02	9.052306e+02	-8.523468e+02
11	-7.957296e+02	1.237285e+03	-8.563123e+02
12	-9.985476e+02	-6.876571e+03	1.180995e+03
13	-5.953254e+03	-2.196215e+02	3.666840e+03
14	1.811814e+02	4.082976e+02	-1.764468e+02
15	1.845078e+02	-6.894052e+02	1.107589e+02
16	-2.601400e+02	-7.003042e+02	-1.877783e+02
17	4.057310e+02	-2.161400e+02	1.033286e+02
18	-5.064725e+02	9.739111e+02	-3.616864e+02
19	8.588876e+02	-4.553247e+02	1.597873e+03
20	-4.888836e+02	1.294204e+02	-5.258564e+02
21	-1.156757e+03	-9.528928e+02	7.486056e+02
22	1.267698e+03	1.977946e+03	-1.742108e+03
23	2.628968e+02	-1.914591e+02	4.389621e+01
24	-3.368972e+02	-3.388572e+01	-5.996170e+02
25	-1.153477e+03	8.362416e+02	1.668316e+03
26	2.888871e+02	1.836315e+02	1.669415e+02
27	9.731834e+02	3.331891e+02	1.406063e+03
28	2.958394e+03	4.731705e+02	-1.009954e+03
29	1.910050e+02	3.743352e+02	-5.368036e+02
30	-6.738651e+02	9.910591e+01	3.495165e+02
31	4.649660e+03	6.084377e+03	-3.460277e+03
32	-4.456100e+03	4.959618e+03	-5.546820e+03
33	-7.748178e+02	-6.186231e+03	4.027415e+02
34	-6.449352e+03	1.055052e+03	2.274410e+03
35	-1.161609e+03	-1.549116e+03	2.333660e+03
36	-4.157615e+03	-5.783045e+03	-1.831088e+03
37	1.663112e+03	9.707030e+02	-7.696310e+02
38	-5.977735e+03	1.835087e+03	-5.112983e+03
39	-3.328645e+03	7.926510e+02	8.108633e+02
40	-3.973802e+02	-1.283445e+01	6.712928e+02

41	1.483629e+02	-9.237241e+02	7.457239e+02
42	6.195434e+02	-2.468367e+02	-1.442400e+03
43	-1.668068e+03	-1.320048e+03	-1.391494e+01
44	-1.369546e+03	-1.166904e+03	8.904506e+01
45	1.554404e+03	-1.176066e+02	7.989992e+01
46	-1.137770e+03	4.157528e+03	1.626234e+03
47	3.772267e+02	-5.247249e+01	1.310170e+03
48	-8.027395e+03	1.131539e+04	-3.474836e+03
49	-1.840107e+03	2.182880e+03	4.899077e+03
50	3.042934e+03	1.204613e+02	-3.982235e+01
51	6.142182e+00	-7.719441e+02	6.147122e+02
52	-3.578153e+03	4.314417e+03	4.414105e+01
53	-5.551116e+03	-9.846095e+03	-6.090099e+03
54	-3.112720e+03	-7.225656e+02	5.364960e+03
55	1.059246e+03	-2.249222e+02	1.417187e+02
56	-6.894506e+02	-4.971331e+02	2.981636e+03
57	-4.407265e+03	9.751331e+03	-1.769315e+03
58	1.072765e+02	-5.093234e+03	2.893598e+03
59	-9.777403e+02	-3.167476e+02	-6.830591e+02
60	6.869318e+03	2.402277e+03	-3.764704e+03
61	6.261707e+03	-5.039810e+03	3.342324e+03
62	2.902356e+03	-5.010569e+03	-2.589162e+03
63	1.292022e+02	7.406415e+02	5.492363e+02
64	-3.654427e+03	9.308643e+03	1.378399e+03
65	-3.272282e+03	-1.228034e+03	1.795142e+03
66	-6.412860e+03	-4.954813e+03	3.940293e+03
67	6.196907e+03	-3.001191e+03	2.106865e+03

trajectory 23

atom	VX	VY	VZ
1	2.944577e+02	1.490498e+02	4.884849e+02
2	9.222386e+02	5.855164e+02	1.282367e+03
3	-6.635332e+02	-1.477459e+02	3.988515e+02
4	-5.727705e+02	-7.710358e+02	7.119533e+01
5	6.299201e+01	5.661526e+02	-1.241183e+03
6	-2.600776e+03	-2.192978e+03	-1.408426e+03
7	4.064078e+03	5.921783e+03	8.483781e+03
8	-2.669511e+03	-7.303335e+03	-3.849368e+03
9	-1.138009e+02	-6.533661e+02	-2.024421e+03
10	1.225176e+02	2.389047e+01	1.066245e+03
11	-1.863935e+03	-3.201523e+02	1.349287e+02
12	1.277310e+03	6.332288e+03	-2.358029e+03
13	5.526845e+03	1.119615e+03	-3.725120e+03
14	-6.952468e+02	1.075351e+02	2.806802e+02

15	4.860100e+02	-5.443929e+02	-5.471954e+02
16	-2.544313e+02	-1.701532e+03	-1.212913e+03
17	1.670576e+02	7.670621e+01	-1.824405e+02
18	-9.538913e+02	-5.807710e+02	-5.931223e+02
19	8.444848e+02	1.058703e+03	1.256799e+03
20	2.101040e+02	-5.002827e+02	-2.939423e+02
21	1.404532e+03	-3.611643e+02	9.161285e+02
22	-1.139584e+02	7.931720e+02	4.844022e+01
23	3.591273e+02	-2.392051e+02	9.986468e+01
24	-1.681209e+03	4.919819e+02	3.231085e+02
25	-8.005184e+02	-7.929942e+02	-2.748919e+02
26	4.982905e+02	1.212797e+03	1.191585e+01
27	1.174037e+03	-6.828546e+02	6.019997e+02
28	-8.303170e+01	-5.379247e+02	-1.394214e+02
29	-4.117735e+02	-1.260674e+03	1.094294e+03
30	-3.394450e+02	7.931883e+02	-9.595546e+02
31	-3.927930e+03	-6.069549e+03	3.009156e+03
32	-4.489360e+03	7.818379e+03	-3.759639e+02
33	5.034317e+03	-4.743239e+03	2.877302e+03
34	-3.724979e+03	6.527439e+03	1.347657e+03
35	1.433920e+03	7.933829e+02	3.599373e+01
36	-1.505356e+03	-1.529837e+03	-2.403685e+03
37	-9.527307e+01	7.441229e+02	1.229678e+02
38	3.272861e+03	3.772757e+03	7.293780e+03
39	5.477546e+03	4.039653e+03	-3.397612e+03
40	4.787949e+02	7.312546e+02	-2.045676e+03
41	5.760977e+02	-2.333272e+03	2.448078e+03
42	8.203100e+02	2.982583e+01	5.001737e+02
43	-3.484889e+01	-3.109798e+02	8.288843e+02
44	5.427325e+03	6.889224e+03	-3.813196e+03
45	6.526083e+02	1.597378e+03	-1.210659e+03
46	-1.207393e+04	-5.753687e+03	-3.281340e+03
47	-1.735869e+03	-6.515013e+02	-5.750380e+02
48	-6.919419e+03	4.197910e+03	-4.810683e+03
49	5.837253e+02	-1.933503e+03	-1.725989e+02
50	-8.593664e+02	1.163315e+03	1.207874e+03
51	-9.983903e+02	-1.118694e+03	1.038399e+03
52	2.477654e+02	2.552816e+02	-3.350108e+03
53	6.020562e+03	-6.405717e+02	-5.236321e+03
54	-1.898580e+03	8.171205e+03	-3.291493e+03
55	-4.440245e+02	6.616244e+02	2.278172e+02
56	3.175624e+03	1.407416e+03	2.681713e+02
57	-7.407672e+02	-9.293528e+03	-3.613054e+03
58	2.441872e+02	1.073531e+03	6.700327e+03
59	-4.889249e+02	1.626533e+03	-1.105968e+03
60	-4.614822e+02	-2.342702e+03	6.191322e+03

61	6.151227e+03	-5.837965e+03	4.001032e+03
62	-4.506027e+03	-2.358762e+03	-2.352362e+03
63	-7.631450e+02	9.011435e+02	-8.692959e+02
64	1.699283e+03	-3.943988e+03	4.054687e+03
65	2.914659e+03	-4.168171e+03	-4.036579e+03
66	-8.499647e+03	-1.983424e+03	-4.311977e+03
67	1.719151e+02	-3.749676e+02	-7.674296e+03

trajectory 24

atom	VX	VY	VZ
1	1.755540e+02	-2.670074e+02	2.640712e+01
2	1.745882e+03	1.111579e+03	2.023743e+02
3	7.067589e+02	-1.816376e+03	-1.141628e+03
4	4.139117e+02	9.129008e+02	7.123879e+02
5	4.564485e+02	1.112716e+03	7.105946e+02
6	-3.083802e+03	-4.522044e+03	-2.975087e+03
7	-5.042700e+03	3.645308e+03	8.673395e+03
8	-3.262286e+03	-3.909793e+03	-2.669415e+03
9	6.737097e+02	-1.019851e+03	3.761530e+02
10	-4.846736e+02	-1.585335e+03	1.391306e+03
11	-1.549536e+03	7.069396e+02	-8.862165e+02
12	2.036301e+03	4.870570e+03	-3.374252e+03
13	1.790627e+03	5.847645e+03	-6.043121e+02
14	7.212102e+02	6.412633e+02	-1.715665e+02
15	-6.998361e+02	-1.269367e+03	1.136607e+03
16	-1.233795e+02	-6.445620e+02	-1.912604e+02
17	-2.038393e+02	-9.210965e+01	-1.809805e+02
18	2.649647e+02	1.445641e+03	1.504313e+01
19	1.897442e+03	1.047971e+03	2.827613e+02
20	-1.875703e+03	-1.586664e+03	6.936443e+01
21	7.575952e+02	-1.463134e+03	6.257600e+01
22	-1.043353e+03	1.272638e+03	-8.458770e+02
23	-3.592523e+02	5.038375e+02	-5.998505e+02
24	-4.578682e+02	4.053092e-01	4.209417e+02
25	4.910449e+02	2.367347e+02	-3.871651e+02
26	-1.397743e+03	5.172329e+02	-5.275871e+02
27	-4.760293e+02	-1.075952e+03	-6.646376e+02
28	2.140017e+03	1.025008e+03	7.068523e+02
29	-5.643762e+02	-3.246533e+02	6.501616e+02
30	1.634412e+02	1.096546e+03	-5.808954e+02
31	2.115562e+03	1.426402e+03	-2.646803e+03
32	3.779192e+03	-6.573552e+03	4.104912e+03
33	2.086060e+03	-5.316878e+03	6.346234e+02
34	7.620993e+03	-3.770834e+03	7.767005e+02

35	-3.829003e+02	3.963495e+02	9.747347e+01
36	8.186445e+02	3.430249e+03	6.716356e+02
37	-7.849066e+02	1.495602e+03	6.765222e+02
38	-6.332600e+01	3.053375e+03	-5.543709e+03
39	7.838946e+03	-4.069820e+03	1.034773e+02
40	-2.831674e+02	-9.836062e+01	1.629432e+02
41	-1.563438e+03	-4.308914e+02	-7.416043e+01
42	2.515525e+02	1.461499e+03	-2.130431e+02
43	2.951017e+03	-1.053009e+03	-4.501892e+02
44	5.587057e+03	3.583065e+03	-2.141857e+03
45	-5.138200e+02	-2.164085e+02	-7.555373e+00
46	6.671855e+01	-5.283950e+03	1.551280e+03
47	-9.808079e+02	8.865366e+02	1.105713e+03
48	-1.568165e+03	3.689235e+03	-3.910308e+03
49	6.971537e+03	2.764978e+02	-1.727890e+03
50	-7.907903e+03	1.638466e+03	-7.475684e+03
51	-1.196870e+03	2.511095e+02	-7.155267e+01
52	-1.328366e+02	-5.278725e+02	-2.056559e+03
53	1.240737e+04	-9.603504e+00	-2.396117e+02
54	1.521798e+03	1.843565e+03	-1.401374e+03
55	-7.651025e+02	-5.995978e+02	3.530632e+02
56	-3.662990e+03	9.440452e+03	-1.436723e+03
57	3.722525e+02	-8.000801e+03	-5.977889e+03
58	1.276725e+03	2.418411e+03	3.504602e+03
59	-1.708057e+03	1.903053e+01	9.568130e+02
60	9.075690e+02	-6.303923e+02	7.495218e+03
61	9.918190e+02	2.433714e+03	1.293818e+03
62	8.402950e+03	-5.971668e+03	-3.186905e+03
63	1.318661e+03	2.248603e+02	9.487659e+02
64	-2.828831e+03	-2.513370e+02	-4.565739e+03
65	1.464420e+03	-2.111719e+03	-3.946247e+03
66	-7.063073e+03	-1.197677e+03	-2.296491e+03
67	1.786470e+03	6.067900e+03	-5.835417e+03

trajectory 25

atom	VX	VY	VZ
1	1.488695e+02	-1.270958e+02	-1.485866e+02
2	-1.393111e+03	3.317997e+01	8.350705e+02
3	1.553748e+03	-8.293751e+02	2.082383e+03
4	2.549483e+02	-6.362861e+02	-1.356391e+03
5	-2.294428e+03	-5.616838e+02	-4.183990e+02
6	-5.605496e+03	-2.802294e+03	-4.143726e+03
7	-4.764433e+03	6.573592e+02	1.327311e+03
8	7.109990e+03	7.189239e+03	1.589083e+01

9	-3.452672e+02	3.541327e+02	7.598478e+02
10	4.128622e+02	1.576973e+03	1.213898e+03
11	7.103146e+02	-2.469376e+03	2.084145e+01
12	5.429250e+02	7.336100e+03	-2.049434e+03
13	8.013999e+01	-5.083668e+03	4.836430e+03
14	-1.178749e+03	-3.540296e+02	5.820809e+01
15	1.782855e+03	2.708997e+02	-1.407617e+03
16	4.801195e+02	6.971811e+02	-4.055122e+02
17	2.489322e+02	-2.270413e+02	1.523300e+02
18	-3.904863e+02	-4.968192e+02	4.756231e+01
19	2.017128e+02	2.847751e+02	-1.792567e+03
20	-6.564525e+02	1.065751e+03	5.358250e+02
21	1.985534e+02	1.765573e+02	8.571902e+02
22	4.352191e+02	8.452844e+02	-1.166420e+03
23	1.960444e+02	8.508802e+01	-2.893889e+02
24	-3.708072e+02	5.774221e+02	-4.599375e+02
25	-1.282746e+03	1.201579e+03	6.484165e+02
26	-5.313800e+01	4.924452e+02	-7.950108e+02
27	5.855189e+02	3.462095e+02	9.010203e+01
28	-7.294832e+02	3.665311e+02	8.018809e+02
29	6.092995e+02	-9.465329e+02	-4.728488e+02
30	-1.204839e+03	-3.396910e+02	-3.781260e+02
31	1.612701e+03	1.836414e+02	-4.775609e+03
32	-7.290226e+03	-4.662744e+03	1.722334e+02
33	2.776270e+02	8.375302e+02	-5.378170e+03
34	7.881718e+03	-1.226843e+03	1.107964e+03
35	2.182130e+03	-5.430455e+02	-7.428584e+02
36	-3.447278e+03	-2.992167e+03	7.595612e+03
37	-6.204182e+02	-2.764196e+02	-6.956475e+02
38	8.885379e+02	3.359235e+03	1.444996e+03
39	-8.419197e+03	1.399805e+03	4.079660e+03
40	8.041371e+02	1.469444e+03	-1.459630e+03
41	5.801221e+02	4.381525e+02	1.323021e+03
42	5.130728e+02	2.311766e+02	-7.353894e+01
43	5.780402e+02	-1.534020e+03	1.534350e+02
44	1.628055e+02	-2.097026e+03	4.969435e+03
45	9.782590e+02	-3.378569e+02	-4.633069e+02
46	-3.714400e+03	-3.637480e+03	5.946759e+03
47	-5.055825e+02	5.490742e+02	4.825743e+01
48	-3.806711e+03	1.109106e+04	8.472481e+02
49	-3.090890e+02	4.863281e+03	-6.042446e+03
50	-6.753016e+03	-5.016346e+03	1.052319e+03
51	-7.657809e+02	8.991739e+02	1.658586e+03
52	5.673382e+03	1.891933e+03	-6.147802e+03
53	-7.237232e+03	-1.987451e+02	3.985074e+03
54	-8.624702e+02	1.688895e+03	-2.491150e+03

55	-1.847865e+02	-5.084126e+02	2.722140e+02
56	9.087391e+02	-1.804936e+03	7.367283e+03
57	-4.843940e+03	4.591224e+03	7.295221e+03
58	-2.739204e+03	-2.007770e+03	9.211137e+02
59	3.244858e+02	1.046457e+03	-2.418149e+02
60	-6.464788e+03	-7.499134e+03	-4.204413e+03
61	-5.732132e+03	-5.345541e+03	2.941426e+02
62	2.723249e+03	-2.278270e+03	-5.717477e+03
63	-7.023049e+02	-1.502520e+03	7.330887e+01
64	-4.994790e+03	6.388341e+03	6.006467e+03
65	7.043207e+03	-4.748529e+03	-6.682904e+02
66	1.054531e+03	3.419873e+03	2.819321e+03
67	-5.575858e+02	4.980597e+03	-3.114271e+03

trajectory 26

atom	VX	VY	VZ
1	3.305981e+01	-1.278215e+02	8.717108e+01
2	4.131863e+02	1.418793e+02	-5.602216e+02
3	3.007299e+01	-1.379550e+03	-1.052738e+03
4	-2.772383e+01	-1.166958e+03	-1.362244e+02
5	1.353709e+03	8.140082e+02	-2.060930e+02
6	-3.933405e+03	2.561261e+02	3.178187e+03
7	-1.547277e+03	-6.505332e+03	-6.440202e+03
8	-5.372693e+01	1.262593e+03	-3.395993e+03
9	-6.275067e+01	2.619969e+02	1.105174e+03
10	7.856918e+02	-8.224147e+02	9.404594e+02
11	-4.759720e+02	6.592251e+02	3.363815e+02
12	9.023212e+01	-3.981579e+03	4.602964e+03
13	6.358378e+02	-6.910768e+03	6.396107e+03
14	6.460735e+02	4.025877e+02	1.183691e+03
15	5.932673e+02	-2.304820e+03	-1.757425e+03
16	1.253813e+02	8.303594e+02	7.436853e+02
17	-2.127197e+02	1.534959e+02	1.407944e+02
18	1.258367e+03	5.829563e+02	9.075702e+02
19	-9.007206e+02	-4.874047e+02	5.591716e+02
20	2.013668e+02	-3.387662e+02	-3.615759e+02
21	2.644977e+02	1.327942e+03	-1.050571e+03
22	4.564099e+02	-8.509060e+01	2.696854e+02
23	-7.646874e+02	2.239107e+02	-6.942052e+02
24	-2.759122e+02	-8.695758e+01	-4.625155e+00
25	9.302245e+02	2.225388e+02	-6.043895e+02
26	2.017166e+02	4.544318e+02	4.872928e+02
27	-8.837972e+02	3.369571e+02	-4.433397e+02
28	6.892081e+01	1.653681e+03	-7.094694e+02

29	1.579651e+03	1.465299e+02	-1.870840e+02
30	5.885332e+02	3.455831e+02	5.786589e+01
31	-4.756286e+02	-7.694597e+03	5.565218e+03
32	-5.667170e+02	-5.402991e+03	3.036148e+03
33	-8.480026e+02	-4.704437e+03	-5.484075e+03
34	7.707758e+03	-9.371533e+02	2.961831e+03
35	6.394995e+02	-9.972563e+02	-9.285568e+02
36	1.959992e+02	4.996953e+03	-4.193066e+02
37	-1.821815e+03	2.892994e+02	1.395062e+03
38	-2.344287e+03	1.761312e+03	-3.562240e+03
39	-3.834309e+03	-9.584640e+03	-4.410571e+03
40	-1.179913e+03	6.342539e+02	-1.865409e+02
41	4.092754e+02	-4.281879e+01	5.617076e+02
42	1.057618e+03	1.045521e+03	-1.826649e+03
43	-1.045621e+03	6.698017e+02	9.324250e+02
44	-2.068953e+03	-9.385837e+03	4.474183e+02
45	-3.305753e+02	-2.576953e+03	7.057802e+02
46	-1.856300e+03	-2.388367e+03	-2.898193e+03
47	6.658910e+02	2.764805e+03	-2.504189e+02
48	-9.491354e+02	3.251649e+03	-5.691788e+03
49	4.025266e+03	6.519041e+03	-4.194577e+03
50	4.829066e+03	-2.752156e+02	-3.255398e+03
51	-3.357269e+02	-2.132949e+03	-2.886803e+02
52	3.257521e+03	3.684633e+03	1.526836e+03
53	1.137635e+03	-1.434987e+03	1.988737e+03
54	-7.191864e+03	4.561328e+03	-5.125715e+03
55	-1.023486e+03	1.945189e+02	-5.447913e+02
56	-6.109789e+03	-1.920219e+03	-5.218445e+03
57	-6.711417e+03	-3.113950e+03	-9.828277e+02
58	8.557027e+03	4.247325e+03	2.248213e+03
59	4.241357e+02	8.127224e+02	5.833330e+02
60	-1.336825e+03	8.847128e+03	2.730084e+02
61	1.073120e+03	-3.336159e+03	7.603157e+03
62	4.367135e+03	1.666534e+03	-3.254856e+03
63	-7.167413e+02	-1.276332e+03	-8.343430e+02
64	2.319349e+03	5.509457e+03	4.569811e+03
65	-8.515929e+03	2.961706e+03	5.050547e+02
66	-8.925191e+03	2.097201e+03	-2.732215e+03
67	-2.710077e+03	-9.836871e+03	2.377568e+03

trajectory 27

atom	VX	VY	VZ
1	-8.416731e+01	3.719444e+02	-3.376158e+02
2	-5.696340e+02	5.878081e+02	-9.295924e+01

3	1.488005e+02	1.190592e+03	-1.081930e+03
4	-3.532280e+02	6.550239e+02	5.002383e+02
5	2.670490e+02	-1.424983e+03	-3.479156e+02
6	5.715694e+03	-3.427690e+03	-5.806724e+03
7	2.887386e+02	3.291291e+03	6.816547e+03
8	3.335710e+03	4.578279e+03	-3.953854e+03
9	-2.796970e+02	-1.643549e+02	3.075566e+02
10	-7.898267e+02	1.218218e+03	-1.241283e+03
11	-8.834924e+02	5.662535e+02	-1.220494e+03
12	-3.692478e+02	-4.600515e+03	4.589083e+03
13	5.556408e+03	1.459004e+03	-4.850522e+03
14	1.456756e+02	-9.646536e+02	7.491311e+01
15	-9.743633e+02	-6.400436e+01	6.424265e+02
16	-3.193384e+02	2.043586e+02	-1.313070e+02
17	4.308112e+01	6.219132e+01	1.466017e+02
18	-1.062341e+03	4.998691e+02	-1.401756e+03
19	2.014259e+03	1.409532e+03	-8.681694e+01
20	7.698172e+01	-8.149064e+02	1.697733e+02
21	-6.984219e+02	-6.255261e+02	1.613096e+03
22	-1.370720e+03	-4.772934e-02	-4.522151e+02
23	1.785970e+02	1.101752e+03	2.923615e+02
24	-5.707240e+02	-5.539701e+02	4.345755e+02
25	1.917208e+02	2.015778e+02	-5.789162e+02
26	3.332498e+02	-1.482317e+02	3.009680e+02
27	2.035604e+01	6.344902e+02	-8.049181e+01
28	3.254272e+02	-1.426357e+03	-1.658654e+02
29	8.653445e+02	5.411248e+02	1.378889e+03
30	1.053136e+03	-6.516788e+02	-4.284742e+02
31	-9.467225e+03	-1.114304e+03	4.669833e+02
32	-1.535521e+03	2.166039e+03	-1.016785e+02
33	-3.970611e+02	-3.153745e+03	3.642577e+03
34	3.803806e+03	-1.398185e+03	-3.627933e+03
35	-2.246963e+03	4.718880e+02	-1.728136e+02
36	5.712266e+03	1.616367e+03	-5.946477e+03
37	-2.028360e+03	-1.837845e+03	-4.221012e+02
38	-1.964045e+01	8.524556e+02	2.371159e+03
39	-1.644841e+03	-1.060189e+03	1.175787e+04
40	1.839109e+03	-1.738120e+03	3.470335e+02
41	-7.240816e+02	6.921909e+02	-1.150953e+02
42	4.211467e+02	5.020766e+02	1.392222e+03
43	1.963475e+03	-1.386276e+01	-2.181976e+01
44	6.404398e+03	4.022713e+03	-2.498246e+03
45	-2.286886e+02	-1.437236e+02	5.627948e+02
46	-2.340915e+03	-8.773019e+03	-1.285714e+03
47	-5.057572e+01	2.385996e+02	2.260558e+02
48	1.050619e+03	-1.604747e+03	-4.941813e+03

49	-7.419872e+03	-7.544505e+03	3.720424e+03
50	1.311017e+03	-3.879264e+03	2.889749e+03
51	3.023637e+02	-1.187249e+03	3.408540e+02
52	7.293351e+03	-1.033375e+04	-2.945931e+03
53	2.705496e+03	-2.097305e+03	8.542804e+02
54	1.774159e+03	8.939622e+03	-4.756792e+03
55	9.309994e+02	8.996542e+01	2.429761e+03
56	2.276518e+03	-1.994160e+03	-3.768656e+03
57	-2.564587e+03	-7.274244e+03	-5.556358e+03
58	5.100166e+03	1.003189e+03	-7.153038e+02
59	3.150274e+01	2.363009e+02	-6.334686e+02
60	1.162833e+03	-1.236363e+04	-1.056488e+03
61	1.618035e+03	1.826244e+02	8.380389e+02
62	3.200466e+03	-2.934023e+03	3.283195e+03
63	8.701203e+00	8.939841e+02	8.469473e+02
64	-1.784456e+03	-4.599004e+03	-8.351183e+03
65	-4.943787e+02	-2.015314e+03	-5.225574e+03
66	6.753800e+03	4.991294e+03	1.579294e+03
67	1.508188e+03	3.834719e+03	-4.384729e+03

trajectory 28

atom	VX	VY	VZ
1	-4.706390e+01	2.342859e+02	2.054642e+02
2	4.914251e+02	4.533107e+02	-1.844818e+03
3	-7.296168e+02	7.232607e+02	-9.603370e+02
4	-6.305236e+02	-3.746495e+02	4.922364e+02
5	2.692807e+02	1.607092e+03	5.811269e+02
6	-7.878284e+03	-3.636378e+03	-7.364590e+02
7	3.038093e+03	-8.871698e+03	-1.248479e+03
8	-1.702172e+03	2.277691e+03	-3.272238e+03
9	-1.452376e+02	7.114831e+01	6.537717e+02
10	-9.759534e+01	-3.046880e+02	2.540172e+03
11	-7.392483e+02	3.498340e+02	-2.818622e+02
12	1.575909e+03	7.946055e+03	-1.439683e+03
13	1.577384e+03	3.072165e+03	-2.868706e+03
14	4.503446e+02	6.393235e+02	-1.044629e+03
15	5.382140e+01	1.169535e+03	3.401319e+02
16	-3.888611e+02	-4.456828e+02	-1.151303e+02
17	1.426193e+02	-2.960825e+02	-4.210957e+02
18	4.577606e+02	3.237761e+01	1.805901e+02
19	-2.034985e+03	-1.025367e+03	-1.482296e+03
20	3.020574e+02	-7.410514e+01	1.222777e+03
21	-5.590556e+02	-1.328901e+03	-1.614286e+02
22	3.516864e+02	3.516538e+02	1.161817e+03

23	3.822145e+02	-1.337854e+03	6.793189e+02
24	-6.112980e+02	-7.102635e+01	3.519959e+02
25	-5.984916e+02	-2.530249e+03	-8.329862e+02
26	3.064905e+02	1.211801e+03	2.171890e+02
27	7.000874e+02	2.478309e+02	-6.811326e+00
28	-1.485953e+03	5.227360e+02	-1.197127e+03
29	-1.632236e+03	2.015453e+02	-8.481089e+02
30	6.500483e+01	-3.478897e+02	-7.500959e+02
31	3.610605e+02	-4.166441e+03	1.100386e+03
32	-3.234146e+03	-5.633455e+02	3.973271e+03
33	1.038784e+04	-7.192130e+03	-1.089388e+03
34	-5.655905e+03	1.677376e+03	1.897668e+03
35	3.086782e+03	2.070895e+02	4.736181e+02
36	-2.664038e+03	-2.389138e+03	6.580679e+03
37	3.527980e+02	1.466535e+02	-5.649121e+02
38	4.985185e+03	-1.010449e+03	5.337517e+02
39	-3.233386e+03	1.267928e+03	7.874793e+03
40	5.828520e+02	-1.226028e+03	-7.501509e+02
41	-1.711537e+03	-9.939720e+02	-4.861116e+02
42	1.141233e+03	7.307433e+02	-5.073108e+02
43	1.878358e+03	8.640554e+01	1.610581e+03
44	-3.583158e+03	5.029469e+03	6.535034e+03
45	1.002806e+03	-2.447361e+02	-1.317497e+03
46	-9.837681e+02	-3.875505e+03	4.595111e+03
47	-8.908562e+02	5.784195e+02	-3.864182e+02
48	-5.193472e+03	4.555658e+03	2.846865e+03
49	-5.012246e+03	-5.105783e+03	6.504083e+03
50	3.022352e+03	-3.154756e+02	9.007556e+01
51	1.299941e+03	1.357579e+03	1.250033e+03
52	-7.799932e+03	-3.656629e+03	6.400595e+02
53	-4.708685e+03	5.918464e+03	6.552543e+02
54	6.077400e+02	8.329642e+03	-1.519556e+03
55	1.450813e+03	6.901236e+02	-5.770301e+02
56	1.772877e+02	-1.847665e+03	3.755798e+03
57	-6.861177e+03	6.622017e+03	4.498199e+03
58	-2.309331e+03	-4.524166e+03	9.527781e+02
59	1.025978e+03	-4.469407e+02	-4.267584e+02
60	-7.378289e+03	-2.789766e+03	3.489039e+03
61	-6.792450e+03	3.205383e+03	-5.011907e+03
62	-3.345623e+03	2.735108e+03	-1.555894e+03
63	-6.916071e+02	4.807984e+02	1.045512e+03
64	4.790343e+03	-3.079787e+03	-4.145388e+03
65	2.313314e+03	3.381660e+03	-1.600187e+03
66	4.768189e+03	3.380680e+03	-1.844799e+03
67	5.142528e+02	-6.603537e+03	2.741950e+03

trajectory 29

atom	VX	VY	VZ
1	-3.476082e+02	-1.434900e+02	-1.358437e+01
2	-9.903520e+00	-8.928030e+01	-3.009863e+02
3	-4.301054e+02	2.882976e+02	4.100225e+02
4	-5.617277e+02	1.002819e+03	5.321848e+02
5	6.682624e+02	-1.402376e+03	-7.606091e+01
6	-9.814328e+03	1.011313e+03	8.428626e+03
7	2.515680e+03	4.887973e+03	-1.135024e+03
8	-7.580824e+02	7.208961e+03	-1.666239e+03
9	7.630195e+02	-2.683321e+02	-1.154099e+03
10	1.584954e+02	8.640326e+02	1.023714e+03
11	6.735714e+02	4.141154e+02	-4.142540e+02
12	-6.158129e+03	-4.216773e+03	1.194091e+03
13	-3.256815e+03	-5.509584e+03	3.486639e+03
14	-7.584126e+02	7.339128e+02	6.710292e+02
15	1.361430e+02	-4.132834e+02	-1.965491e+03
16	-6.626932e+01	-3.324458e+02	-6.070667e+01
17	1.706919e+02	-1.713647e+02	2.681099e+02
18	-2.052228e+02	-7.215804e+02	5.408717e+02
19	-6.208955e+02	8.234897e+02	-9.796262e+02
20	1.186042e+03	-1.029795e+03	-3.975192e+02
21	-7.146581e+01	-1.691822e+02	6.505999e+02
22	-2.168498e+02	2.184003e+02	-7.933414e+02
23	-8.728086e+02	8.563401e+02	-8.842632e+02
24	-1.838468e+02	1.045005e+03	-2.212932e+02
25	1.743452e+03	4.873528e+02	-4.983698e+02
26	-1.308422e+03	-1.079905e+03	-4.901189e+02
27	1.152309e+03	1.953652e+02	1.223216e+03
28	1.354959e+03	-4.874345e+02	-1.633758e+03
29	-7.873103e+02	8.613174e+02	1.124007e+03
30	6.910291e+02	1.398538e+03	-4.345140e+02
31	6.036493e+03	7.130877e+03	-5.252226e+03
32	-1.946004e+03	-6.614168e+02	-3.830573e+03
33	2.196865e+03	1.281809e+02	-1.753999e+02
34	-7.648104e+03	2.226535e+03	-6.385371e+03
35	-1.142536e+03	-1.909084e+02	-3.248923e+02
36	4.832037e+03	7.353691e+03	1.511458e+03
37	2.030886e+02	-4.671810e+02	-2.697149e+02
38	6.442779e+03	-1.187411e+03	5.288600e+03
39	-1.629656e+03	-2.750759e+03	-5.211807e+03
40	-7.861844e+01	-9.991510e+02	1.777160e+03
41	-1.633089e+03	2.622165e+02	8.351596e+02
42	1.070610e+03	1.476043e+02	3.186711e+00

43	-4.583422e+02	-9.686119e+02	-2.188594e+03
44	5.639280e+03	-1.263445e+03	-1.042101e+03
45	1.389017e+03	-4.804744e+02	1.214080e+03
46	4.125621e+02	3.315537e+03	-8.240090e+02
47	-2.931224e+02	9.203957e+02	1.178701e+02
48	5.700440e+03	-1.128181e+03	4.000690e+03
49	-1.436785e+04	2.029887e+02	2.768321e+03
50	-4.933720e+03	2.455132e+03	2.402649e+02
51	1.129292e+03	-2.470359e+02	8.723697e+02
52	7.837821e+02	-1.183039e+03	-6.212814e+03
53	6.826578e+03	-2.275320e+03	-1.432187e+03
54	-2.308701e+03	9.071958e+03	-5.250048e+02
55	5.157289e+02	-8.753751e+02	-8.607551e+02
56	-8.310455e+02	-1.124398e+02	1.440520e+03
57	1.315731e+03	7.354029e+03	5.775792e+03
58	-1.777275e+03	-6.710943e+03	4.096826e+03
59	9.509796e+02	4.244620e+02	7.010333e+02
60	-6.377203e+03	-2.646074e+03	7.324218e+02
61	4.539261e+03	2.183873e+03	-9.521393e+03
62	-3.382335e+03	3.243107e+03	-2.129853e+03
63	-1.666161e+02	2.459527e+02	1.418371e+03
64	-3.921262e+03	-3.867788e+03	-6.678214e+03
65	1.947298e+03	-2.453753e+03	-4.489257e+03
66	5.775322e+03	3.270190e+03	1.335650e+03
67	-6.232207e+03	-4.605340e+03	3.363187e+03

trajectory 30

atom	VX	VY	VZ
1	-1.190327e+01	-1.381059e+02	3.320893e+02
2	1.193653e+03	8.857290e+01	2.041891e+03
3	-4.300259e+02	-8.598569e+02	1.790517e+03
4	7.121928e+02	-4.075149e+02	-9.339961e+02
5	-8.904015e+02	3.502169e+02	3.712270e+02
6	5.869130e+03	5.262331e+03	-5.223412e+03
7	1.883141e+03	4.581546e+03	-7.173631e+03
8	-3.628103e+03	1.059104e+03	1.261022e+03
9	-8.898703e+02	-1.124343e+03	2.148470e+02
10	-3.794137e+02	-6.455434e+02	-1.198303e+03
11	-9.680925e+02	7.246486e+01	7.946256e+02
12	6.391330e+03	1.752124e+02	-3.283269e+02
13	2.462944e+03	5.838519e+03	-4.214148e+03
14	6.667899e+02	-3.078211e+02	-8.676251e+02
15	-8.390001e+02	3.102782e+02	-1.482542e+03
16	7.404133e+02	1.143785e+03	2.512198e+02

17	2.627373e+02	1.367793e+02	-2.004322e+01
18	-1.139433e+03	1.896609e+02	3.826947e+02
19	4.468689e+02	-6.314180e+02	-7.651497e+02
20	6.225046e+02	2.804814e+02	-2.046124e+02
21	-1.798739e+03	-2.253353e+02	-1.225095e+03
22	2.735608e+03	8.035771e+02	-2.103837e+02
23	-7.452027e+02	7.011737e+02	5.013136e+02
24	-3.249288e+02	-1.372778e+03	2.759861e+02
25	-2.106649e+02	6.560667e+02	-2.961726e+02
26	-8.317092e+02	-9.944452e+02	4.951090e+02
27	-1.132364e+03	-4.506758e+02	-4.925618e+02
28	-1.020614e+03	1.754688e+02	1.480673e+03
29	-1.271672e+03	-5.871184e+02	-3.115922e+02
30	1.460550e+03	1.240507e+03	7.498160e+02
31	-2.893832e+03	-4.913448e+03	2.720087e+03
32	-4.950866e+03	9.231678e+02	-3.986985e+03
33	-3.817339e+03	2.044683e+03	-5.214350e+03
34	5.947596e+03	3.971781e+02	2.920510e+02
35	-8.207462e+02	2.983108e+02	1.614679e+02
36	7.574530e+03	3.950578e+03	-2.569360e+03
37	1.285637e+03	-1.502299e+03	1.644069e+03
38	-2.744105e+03	1.991863e+02	-5.897668e+03
39	4.995368e+03	2.910746e+03	5.915709e+03
40	-1.149912e+03	1.123986e+03	-1.072748e+03
41	-1.658723e+03	-3.985977e+02	-1.075834e+02
42	2.300988e+02	-3.256439e+02	4.869016e+02
43	1.354286e+03	-2.134384e+02	-5.248195e+02
44	8.816597e+03	4.233642e+03	-2.911202e+03
45	1.033232e+03	-7.240297e+02	-8.675711e+02
46	-6.155283e+03	-1.938527e+03	9.358845e+02
47	-1.147958e+03	8.899003e+02	1.378033e+02
48	-4.169749e+03	4.276410e+03	-6.696900e+03
49	2.791756e+03	-5.661773e+03	1.200194e+03
50	-4.237907e+02	2.138097e+03	4.162818e+03
51	1.764503e+02	-8.555309e+02	5.000612e+02
52	-8.952882e+02	-5.435841e+02	-5.576607e+03
53	4.386602e+03	1.406397e+03	-3.898788e+03
54	5.419421e+02	8.136729e+03	-6.656396e+03
55	1.407053e+03	1.066884e+01	-1.274838e+03
56	-2.882871e+03	-3.151799e+03	8.683243e+03
57	1.417624e+03	-1.128187e+03	5.570618e+03
58	-1.242311e+03	2.514027e+03	8.224723e+03
59	1.749057e+03	4.789982e+01	-1.464176e+03
60	3.009968e+03	-2.518868e+02	2.063130e+03
61	4.315886e+03	2.764907e+03	-6.749175e+02
62	-9.661287e+03	-2.574247e+03	-2.316212e+03

63	-2.025100e+03	1.488381e+03	3.804652e+02
64	-7.637701e+02	-7.034118e+03	-2.582124e+03
65	7.787254e+03	-4.136071e+03	7.777138e+02
66	5.177585e+03	1.737262e+03	4.120575e+03
67	3.041058e+03	6.214762e+03	1.251396e+02

trajectory 31

atom	VX	VY	VZ
1	9.713005e+01	8.059415e+01	-7.632919e+01
2	-1.526450e+03	4.910151e+02	-4.330234e+00
3	4.886936e+02	-5.973570e+02	3.366691e+02
4	-1.516986e+03	1.027310e+02	1.141127e+03
5	-1.323738e+03	-2.728639e+02	-8.494244e+01
6	7.546586e+03	2.315593e+03	-6.582587e+03
7	4.957669e+03	1.561499e+03	-3.212902e+03
8	-3.328191e+03	-3.134149e+02	-2.742430e+02
9	-5.941724e+01	-1.563733e+02	-1.722611e+03
10	2.099992e+03	-6.322006e+02	-7.306165e+02
11	1.051813e+03	-1.649323e+03	-2.886405e+02
12	-4.697902e+03	-2.020166e+03	5.687887e+02
13	-5.178005e+03	-5.635750e+02	2.699083e+03
14	-1.167737e+03	-5.296916e+02	2.077547e+02
15	1.982253e+02	-4.458447e+02	-7.878050e+02
16	1.293302e+03	6.045492e+02	-6.604847e+02
17	-1.565898e+02	2.959171e+02	3.412251e+02
18	1.396012e+03	6.551780e+02	-7.821100e+02
19	-4.516947e+02	-5.014088e+02	8.494152e+02
20	-5.782270e+02	-7.162039e+02	-2.486510e+02
21	1.069829e+03	7.874427e+02	-1.378605e+01
22	-1.006626e+03	-2.112367e+03	1.999233e+03
23	3.788988e+02	-1.354620e+02	-2.575283e+02
24	-6.953348e+02	4.036778e+02	-5.010921e+02
25	1.387997e+03	-1.608676e+02	2.821938e+02
26	-1.359675e+02	3.941790e+02	-6.537337e+02
27	1.306236e+03	2.075765e+02	5.855557e+02
28	-8.546055e+02	-1.327351e+03	1.812705e+03
29	2.434995e+02	-6.079710e+02	-3.216502e+02
30	-1.320609e+03	9.860987e+02	-1.032775e+03
31	-6.904884e+02	-9.180753e+03	-1.783353e+02
32	-8.533927e+02	5.501288e+02	-2.946864e+02
33	3.402623e+03	4.233260e+03	-2.588196e+03
34	-7.083693e+03	2.055598e+03	-2.875571e+03
35	-4.810823e+02	1.085251e+03	-5.071626e+02
36	8.152100e+03	5.287067e+03	-1.631159e+03

37	1.284009e+03	-1.293892e+03	7.176052e+02
38	-2.504692e+03	2.867704e+03	-7.780413e+03
39	-3.551868e+03	7.250519e+02	-1.194406e+01
40	-1.261212e+03	-9.966293e+02	2.087119e+02
41	2.426263e+02	-2.592116e+02	2.139792e+02
42	9.469792e+02	4.658514e+02	8.013590e+02
43	8.192900e+02	-1.835391e+01	1.171613e+03
44	-6.535541e+03	-2.514494e+03	-2.371580e+03
45	-1.568304e+03	6.340958e+02	4.844729e+02
46	3.182641e+03	7.641044e+03	-8.637328e+03
47	-5.825007e+01	5.164543e+02	6.885149e+01
48	-2.130391e+03	2.995638e+03	-6.988090e+03
49	-6.857134e+03	-3.527213e+03	8.789158e+02
50	-3.670735e+03	3.128794e+03	3.008890e+03
51	-5.399017e+01	-6.519523e+02	8.409684e+02
52	2.829041e+03	5.712965e+03	-6.708641e+03
53	1.215132e+03	-6.815345e+03	-7.540093e+03
54	1.438734e+03	8.381235e+02	-1.301811e+03
55	-3.279731e+02	-1.569876e+02	-7.316526e+02
56	7.467577e+03	-3.549666e+03	-4.566474e+03
57	2.110628e+02	2.597659e+03	8.313350e+03
58	1.572119e+03	5.073990e+03	-8.935730e+02
59	3.221584e+02	1.155950e+03	1.047267e+03
60	6.080547e+03	-2.123904e+03	-2.670803e+03
61	2.820114e+03	1.440574e+03	3.711508e+02
62	-1.089606e+04	-1.165755e+03	3.030361e+03
63	8.020118e+02	-7.334591e+02	-9.645235e+02
64	-7.193113e+03	6.143826e+03	3.882238e+03
65	1.610208e+03	2.993170e+03	-3.447739e+03
66	2.177242e+03	2.826846e+03	3.210976e+03
67	5.360929e+03	-8.149066e+03	1.959771e+03

trajectory 32

atom	VX	VY	VZ
1	2.097126e+02	3.326633e+01	8.677794e+01
2	6.833667e+02	1.695231e+03	-3.893493e+02
3	1.587077e+03	-5.294524e+02	-1.544458e+03
4	-2.728552e+02	-2.774415e+02	-1.487897e+01
5	1.268753e+03	9.055536e+02	-3.217971e+02
6	-1.035900e+04	-1.879441e+03	3.533131e+03
7	-6.374978e+03	-6.729375e+02	2.055932e+03
8	1.383279e+03	3.704530e+03	2.738594e+02
9	-7.984650e+02	2.201521e+02	1.996882e+02
10	-7.123713e+02	-1.022923e+03	8.170031e+02

11	-8.748914e+02	-9.343713e+02	-3.921441e+02
12	2.733012e+02	1.021321e+04	-2.083551e+03
13	-5.122701e+03	-6.079245e+03	3.282069e+03
14	1.745424e+03	1.926646e+02	1.142619e+03
15	-8.360986e+02	1.661098e+02	-3.587746e+02
16	8.519205e+02	-7.086086e+02	-5.235467e+02
17	-1.481264e+02	-9.619252e+01	5.182833e+01
18	-9.324629e+02	-1.095486e+02	5.353497e+02
19	8.072138e+02	7.517494e+02	-1.116625e+03
20	-8.215049e+02	4.983764e+02	-3.147344e+02
21	1.067454e+03	-9.997721e+02	-1.673910e+02
22	4.559452e+02	-2.549344e+01	1.371865e+02
23	2.491622e+02	-6.029976e+02	8.751164e+02
24	-8.390660e+02	1.535543e+02	-4.357268e+02
25	7.612362e+02	1.547574e+03	1.618969e+03
26	-4.789971e+02	-5.217843e+02	3.713590e+01
27	-3.401604e+02	1.528830e+03	-7.334928e+02
28	-8.094108e+02	-4.687501e+02	1.075938e+03
29	-2.767981e+02	-3.825445e+01	-2.390045e+02
30	1.130859e+02	-6.339194e+02	-2.634140e+02
31	1.901635e+03	-8.336932e+03	1.357038e+03
32	-3.956773e+02	1.913888e+03	-8.596888e+02
33	-1.909332e+03	4.280392e+03	2.424423e+03
34	-9.257146e+03	1.100083e+02	-2.621158e+03
35	9.119818e+02	1.642759e+02	-7.961990e+02
36	5.165883e+03	8.858532e+03	-2.641477e+03
37	3.171033e+02	1.076915e+02	-4.414735e+02
38	1.351724e+03	1.701353e+03	3.455494e+03
39	-7.181340e+03	7.768213e+03	-8.860361e+02
40	-6.307186e+01	2.043683e+03	-2.093134e+03
41	1.008668e+03	4.633452e+02	1.180609e+03
42	-1.507146e+03	2.789043e+02	1.804522e+02
43	9.144390e+02	-1.377250e+03	7.737176e+01
44	-9.703523e+03	-8.373911e+02	-2.209952e+03
45	1.192549e+03	-1.693831e+02	-6.657891e+02
46	3.384406e+03	-9.125500e+03	6.405332e+03
47	-4.664986e+02	-1.970329e+02	1.268590e+03
48	-5.344660e+01	2.615140e+03	1.664879e+03
49	-6.960946e+02	9.486242e+02	3.323773e+03
50	-2.103265e+03	4.325540e+02	3.569221e+03
51	6.848830e+02	9.957076e+02	-1.314577e+03
52	1.940715e+02	-3.068623e+03	1.526732e+03
53	-1.578051e+03	-6.836626e+03	1.105387e+03
54	4.980100e+02	-1.010427e+04	1.220910e+03
55	-1.120222e+03	4.436569e+00	7.622560e+02
56	2.114494e+03	-7.281204e+03	-1.734034e+02

57	-5.425231e+03	-1.017993e+03	6.548133e+02
58	8.706521e+03	3.653914e+03	-2.417127e+01
59	-2.319108e+03	-3.999361e+01	-1.901304e+03
60	3.621167e+03	-3.378523e+03	-1.236225e+03
61	-3.223778e+02	1.276256e+03	-2.061913e+03
62	8.837515e+03	-2.822951e+03	8.892382e+02
63	-2.540875e+02	1.234701e+03	2.503966e+02
64	5.027903e+03	-8.269654e+03	-1.425279e+03
65	3.064767e+03	-3.117902e+03	5.609982e+03
66	-2.177805e+03	-3.001610e+03	-2.057110e+03
67	1.043182e+03	-7.825301e+03	2.571630e+03

trajectory 33

atom	VX	VY	VZ
1	1.175764e+01	-1.440573e+02	-1.709973e+02
2	1.643356e+02	7.184507e+02	-1.063077e+02
3	-5.995276e+02	-2.369874e+02	1.455107e+03
4	6.609097e+02	6.190756e+02	-1.141753e+03
5	5.435544e+02	-3.748642e+02	8.050426e+02
6	3.054875e+03	-9.342851e+02	1.263435e+03
7	5.912381e+03	-3.322413e+02	-9.296131e+02
8	-6.411115e+03	-4.180524e+03	-5.638294e+03
9	3.177368e+01	-4.477429e+02	-2.853126e+02
10	-1.075764e+02	-1.411104e+03	1.632269e+03
11	1.635685e+03	1.159679e+03	-1.057281e+03
12	-3.897706e+03	-1.835722e+03	1.254943e+03
13	-3.685778e+03	2.004892e+03	-7.180394e+03
14	-5.980060e+02	1.332781e+03	-1.486137e+02
15	-2.527906e+02	-2.158999e+02	6.510832e+02
16	-8.542791e+02	-9.361325e+02	2.132810e+02
17	2.308115e+02	3.785900e+02	1.330018e+02
18	1.761081e+03	-1.525978e+02	2.554474e+02
19	-1.616670e+03	-4.261644e+02	8.011854e+00
20	-4.619629e+02	6.091773e+02	9.398544e+02
21	7.254129e+02	-1.293856e+03	6.121405e+02
22	5.210741e+02	-5.653799e+02	3.840974e+01
23	-7.425168e+02	5.503565e+02	1.204666e+02
24	1.587067e+03	-2.069473e+01	-1.421561e+03
25	-1.243733e+03	3.226622e+02	9.649517e+02
26	-1.387636e+03	-1.081840e+03	-8.291498e+02
27	5.060758e+02	-8.885832e+02	3.381738e+02
28	-1.720278e+03	-1.445947e+03	7.497415e+02
29	-1.758466e+03	4.788075e+02	-1.911462e+02
30	-2.651335e+02	1.480902e+03	2.515890e+02

31	5.524668e+03	4.885521e+03	-3.551294e+03
32	1.273911e+04	5.614206e+02	1.830359e+03
33	-4.584039e+03	-8.748798e+02	2.287526e+03
34	7.657419e+03	-1.822368e+03	-6.181095e+02
35	1.294679e+03	1.281198e+02	-2.866183e+02
36	-5.138117e+03	-2.868867e+03	5.719004e+03
37	-2.291573e+02	2.335725e+02	2.508269e+02
38	1.975998e+03	-4.150092e+03	-5.716002e+03
39	4.586382e+03	-1.445875e+03	-7.040775e+03
40	-1.660945e+03	6.928200e+02	7.873180e+02
41	8.904301e+02	6.812293e+02	-1.840425e+03
42	1.131143e+02	-5.798642e+02	5.551497e+02
43	-6.815698e+02	-6.336767e+02	1.342007e+03
44	-3.054834e+03	4.026752e+03	5.159984e+01
45	-2.938663e+02	-9.365719e+02	-3.843130e+02
46	-1.448951e+03	5.199250e+03	8.151805e+02
47	-3.795945e+02	3.187465e+02	1.176618e+02
48	-3.690458e+02	6.907070e+03	-2.322708e+03
49	2.655873e+03	5.398433e+03	3.214281e+03
50	1.159629e+04	1.686952e+03	-4.920304e+03
51	6.920323e+02	-3.898563e+02	-1.298730e+03
52	-7.005755e+02	-8.785641e+03	1.963747e+03
53	-3.923029e+03	-1.592274e+03	1.104187e+02
54	3.961361e+03	8.411824e+03	-4.962333e+03
55	-3.708260e+02	6.546780e+02	-6.602008e+02
56	-3.193587e+03	-3.620389e+03	1.583917e+03
57	7.007748e+03	-7.839075e+03	1.660208e+03
58	-5.547726e+03	2.095921e+03	-1.893320e+03
59	2.310706e+02	6.578289e+02	2.836230e+02
60	9.926168e+02	-6.422786e+03	2.682480e+03
61	-6.176476e+03	2.987733e+03	-5.598506e+03
62	-4.660972e+03	-1.722419e+03	-2.567193e+03
63	9.644808e+02	9.722158e+02	7.864239e+02
64	4.494771e+02	-6.999177e+03	-7.193477e+03
65	-3.291076e+03	-2.046308e+03	1.971339e+03
66	-4.285439e+03	1.062615e+03	8.424724e+02
67	-8.426143e+02	-3.365539e+03	1.659129e+03

trajectory 34

atom	VX	VY	VZ
1	-2.161348e+02	-3.302942e+02	-2.206335e+02
2	3.826327e+02	1.089842e+03	2.815831e+02
3	-1.334007e+02	1.952621e+03	-1.693454e+03
4	4.554563e+02	-1.337267e+03	1.775116e+03

5	-1.161999e+03	-3.674831e+02	-6.969042e+02
6	-8.175135e+03	-3.747971e+03	5.476786e+03
7	4.906677e+03	2.157237e+03	3.830972e+03
8	2.631510e+03	1.105929e+03	-4.493322e+03
9	3.486609e+02	4.246390e+02	-2.846938e+02
10	4.329038e+02	-2.573730e+02	1.805885e+02
11	1.522677e+02	-6.808710e+02	1.919546e+03
12	4.908656e+03	1.724327e+03	-4.151260e+03
13	2.640241e+03	-1.467842e+03	9.306239e+03
14	4.645673e+02	1.038889e+03	-1.093555e+02
15	-1.680325e+02	-1.160498e+03	-1.096915e+02
16	6.570888e+02	1.619199e+03	-1.602440e+02
17	2.128303e+02	-3.930549e+02	6.240914e+01
18	3.267575e+02	1.913688e+02	-3.983683e+02
19	-9.491022e+02	2.753060e+03	1.793905e+01
20	-5.981867e+02	-7.175660e+02	2.244265e+02
21	1.071736e+03	5.722368e+02	3.936082e+02
22	-2.198617e+03	-1.123816e+03	3.763362e+02
23	-3.494419e+02	-1.695456e+02	7.320748e+02
24	5.395730e+02	6.997482e+02	-2.139680e+02
25	5.005695e+02	-4.690802e+02	-3.094538e+02
26	-1.316907e+03	-7.120096e+02	-3.760900e+02
27	7.528980e+02	3.136902e+02	1.487072e+02
28	1.211939e+03	1.186910e+03	-1.084924e+03
29	1.408354e+03	-1.031724e+03	-6.301643e+01
30	-2.327036e+03	4.170640e+01	-3.728947e+02
31	4.680339e+03	-2.124455e+03	-3.962379e+03
32	-5.043588e+03	7.073205e+03	-5.092746e+03
33	1.486479e+03	-1.046958e+03	8.273577e+02
34	3.808926e+03	-5.432865e+03	-1.641997e+03
35	2.646636e+02	-7.778842e+01	4.230257e+02
36	-1.596909e+03	-9.887692e+00	6.371539e+03
37	-5.096591e+02	-1.049802e+02	9.746872e+02
38	7.730400e+03	4.616307e+03	2.719748e+03
39	8.163601e+02	-3.511256e+03	-4.124187e+02
40	3.302291e+02	9.327419e+02	-8.419228e+02
41	2.434929e+02	-6.164593e+02	3.997915e+02
42	-3.723198e+02	-1.006857e+03	9.869623e+01
43	-1.417822e+03	1.078876e+03	-1.119546e+02
44	-7.714096e+03	-5.665314e+03	2.262891e+03
45	-6.090370e+02	9.983458e+02	1.433209e+03
46	8.530331e+03	-2.328107e+03	1.508967e+03
47	1.111144e+03	3.554633e+02	-1.368532e+03
48	-1.297166e+03	-1.910753e+03	5.318364e+02
49	-2.122009e+03	-4.945952e+03	1.510536e+03
50	-8.914727e+03	-2.316069e+03	6.508001e+03

51	1.576734e+03	-4.885467e+01	-1.102394e+03
52	-8.308646e+02	1.468936e+03	8.520188e+03
53	-1.608150e+03	-3.653401e+03	-2.190662e+03
54	-4.850932e+03	5.654399e+03	-2.445626e+03
55	-1.510216e+02	5.804296e+02	-6.611181e+02
56	9.980060e+03	-2.204174e+03	1.020710e+03
57	3.036440e+03	-9.244230e+03	-2.926793e+03
58	1.433357e+03	5.756477e+03	1.498549e+03
59	-7.630685e+02	3.511109e+00	4.822311e+02
60	-4.141594e+03	6.523008e+03	1.049748e+03
61	-6.074101e+03	4.339607e+03	-6.632917e+03
62	2.770745e+03	3.289779e+03	-2.436663e+03
63	-1.438250e+02	-1.370463e+03	-8.435974e+01
64	7.182456e+02	1.000621e+04	2.026016e+02
65	1.593703e+03	-1.261903e+03	-1.664677e+03
66	2.152612e+03	5.058117e+03	-1.838314e+03
67	-6.291365e+03	5.079732e+03	-1.180153e+03

trajectory 35

atom	VX	VY	VZ
1	-2.665950e+02	1.270410e+02	-1.029023e+02
2	3.103536e+02	2.644646e+02	3.729949e+02
3	9.305827e+02	-3.013930e+02	1.205848e+03
4	5.494626e+02	5.292399e+02	2.123146e+02
5	-1.086547e+03	3.111815e+03	-7.917075e+01
6	-2.816684e+03	-7.027623e+03	-7.244845e+01
7	2.225638e+03	-4.357941e+03	-3.426676e+03
8	-4.558478e+02	9.530152e+01	-3.986713e+03
9	-6.057702e+01	-2.674862e+01	-9.214085e+02
10	-8.258879e+02	-1.829621e+03	-6.678409e+01
11	6.027268e+02	2.544634e+02	-5.795054e+02
12	1.835698e+03	3.459844e+03	-4.560767e+03
13	7.895743e+03	4.894528e+03	9.451855e+02
14	-1.294092e+01	-7.273114e+02	7.754952e+02
15	-8.031864e+01	8.029845e+02	8.518675e+02
16	6.061298e+02	-7.695840e+02	-5.875348e+02
17	-1.829539e+02	-2.136219e+02	-3.120907e+01
18	3.883045e+02	3.007076e+02	-4.352222e+02
19	4.807873e+02	1.328043e+03	-8.322010e+01
20	-2.351923e+01	-1.386787e+03	1.202583e+03
21	-2.621230e+02	-1.730722e+03	9.178405e+02
22	1.668369e+02	1.381614e+03	-1.190068e+03
23	5.148979e+02	-5.983970e+02	5.238318e+02
24	1.138274e+03	9.191150e+02	-5.883764e+02

25	2.623504e+02	-1.455263e+03	2.623050e+02
26	-4.820428e+02	-1.673000e+02	2.939706e+02
27	-3.380251e+02	4.278601e+02	-3.514879e+02
28	3.839216e+02	4.973163e+02	-7.514508e+02
29	1.595342e+03	-6.420160e+02	-6.870110e+02
30	-1.605539e+03	1.432978e+02	8.681300e+00
31	2.955634e+03	5.536069e+03	-3.393237e+03
32	1.394637e+03	-4.041271e+03	9.280006e+03
33	-1.153926e+03	3.376988e+03	9.958504e+02
34	3.225323e+03	-5.787782e+03	-5.200321e+03
35	-3.018993e+02	-1.647897e+03	-1.133775e+03
36	-4.193204e+02	4.708004e+03	1.599408e+03
37	-1.521503e+03	-9.508461e+02	1.090063e+03
38	4.799918e+03	-2.656294e+03	8.451326e+02
39	-3.230132e+03	7.444011e+03	4.435071e+03
40	-2.352803e+03	1.639856e+03	7.896465e+02
41	1.076126e+03	8.093883e+02	-7.290434e+02
42	-3.238757e+02	-7.991790e+02	2.233259e+02
43	-9.100714e+02	-3.568471e+01	4.642737e+01
44	4.113934e+03	6.642173e+03	-4.989118e+03
45	8.768414e+02	-1.261488e+03	2.238108e+03
46	-3.268177e+03	7.932002e+03	-7.110697e+03
47	-2.891946e+02	4.719536e+01	-1.663472e+03
48	8.494784e+03	-1.271665e+03	5.587630e+02
49	5.166770e+02	4.364950e+02	-2.948736e+03
50	1.469558e+03	7.709750e+01	1.935605e+03
51	2.246435e+03	3.622694e+02	1.164570e+03
52	-4.701508e+03	4.849848e+03	-3.132994e+03
53	-7.875971e+03	4.912513e+02	-3.147924e+03
54	2.140107e+03	-1.330335e+03	-1.933877e+03
55	-3.004740e+02	1.545548e+03	-9.951890e+01
56	8.183528e+01	1.658628e+02	7.092137e+02
57	-7.021991e+03	-1.773321e+03	-4.991688e+02
58	-8.036374e+03	-6.215799e+03	-1.193086e+03
59	1.816522e+03	9.021643e+02	1.208749e+03
60	-1.702349e+03	2.610989e+03	-3.916338e+03
61	-2.960015e+03	-5.886222e+03	-8.575421e+02
62	-9.141824e+03	3.270734e+03	-2.037928e+02
63	1.146905e+03	3.918154e+01	-6.789941e+02
64	1.075755e+02	7.266244e+03	4.049538e+03
65	-3.817771e+03	-2.659463e+03	-2.293382e+02
66	-4.935885e+03	-5.497067e+03	-1.281739e+03
67	5.441661e+03	-3.033030e+03	1.974286e+03

trajectory 36

atom	VX	VY	VZ
1	7.296291e+01	-2.984894e+01	-2.254346e+01
2	5.509779e+02	-5.224199e+02	6.179260e+02
3	5.517806e+02	1.141448e+03	1.835635e+02
4	-1.033918e+02	-6.674192e+02	1.493422e+02
5	4.328669e+02	4.112526e+02	-3.433132e+02
6	-3.089617e+03	-6.825827e+03	8.313891e+03
7	-4.219188e+03	1.693074e+03	6.505465e+02
8	-1.964137e+03	5.455707e+03	2.809326e+03
9	-4.232472e+02	-1.266796e+02	-1.923049e+03
10	4.873557e+02	-2.923595e+02	-7.242116e+01
11	-1.763821e+03	-7.846319e+02	1.224452e+03
12	5.010306e+03	7.592896e+03	2.428156e+02
13	-3.015528e+03	5.551655e+01	5.726256e+03
14	-6.866980e+02	-8.137286e+01	8.439513e+01
15	-1.193391e+03	2.293070e+01	5.607210e+02
16	4.835619e+02	1.461650e+03	9.646824e+02
17	-9.010814e+01	3.120310e+02	3.243629e+02
18	-1.474260e+03	9.133026e+01	-1.192291e+03
19	1.867487e+03	-2.435904e+02	1.993401e+03
20	-1.058781e+03	-3.383940e+02	-2.574046e+02
21	1.491884e+03	-1.217801e+03	2.023895e+02
22	5.791444e+02	1.850570e+02	-1.596482e+02
23	-1.686252e+03	7.252749e+02	-4.452724e+02
24	4.532594e+02	8.789636e+01	-6.235591e+02
25	1.490275e+03	-1.083612e+03	-9.927400e+02
26	2.079663e+02	6.344961e+02	-1.199815e+03
27	5.948028e+02	1.296946e+03	-1.780240e+02
28	-1.014074e+03	-9.589847e+02	1.941029e+02
29	-6.073330e+02	-2.068163e+02	-2.171116e+02
30	2.451704e+03	-6.115745e+02	1.069304e+03
31	-9.856750e+03	3.470316e+03	1.110769e+03
32	-3.163018e+03	-2.390342e+03	3.886441e+03
33	-7.364289e+03	2.459446e+02	1.143381e+03
34	3.576238e+03	-4.174409e+03	-3.428124e+03
35	-2.465735e+02	4.640576e+02	-2.307205e+02
36	-3.766639e+03	-6.345165e+03	5.123767e+03
37	-1.087437e+03	1.512162e+03	-1.339428e+03
38	8.622021e+03	2.499303e+02	1.093037e+03
39	-4.025946e+02	-3.976975e+03	-1.475215e+03
40	9.333842e+02	-7.553567e+02	-7.917018e+02
41	-5.932094e+02	-6.818214e+02	2.795843e+02
42	1.389149e+02	-1.170784e+03	-1.825948e+01
43	7.739292e+02	-6.687478e+02	5.537136e+02
44	-1.765482e+03	9.849587e+02	2.592762e+03

45	2.512203e+02	6.845244e+02	2.284230e+02
46	8.463719e+03	3.553748e+03	-5.295776e+03
47	-1.270120e+03	1.594828e+03	4.928751e+02
48	-4.579843e+03	3.842883e+03	-2.373017e+03
49	3.931825e+03	-4.488802e+03	-4.768143e+03
50	7.582307e+03	-3.365319e+03	-4.566612e+03
51	5.425194e+00	-8.302850e+02	-1.279896e+03
52	5.151696e+03	-5.954108e+01	-8.441449e+02
53	-1.519445e+02	-2.406982e+03	4.876346e+03
54	-5.570396e+03	7.908222e+03	-2.591916e+03
55	-5.919326e+01	-3.075047e+02	-1.971363e+02
56	4.948470e+03	3.203846e+03	-7.130096e+03
57	5.636184e+03	-3.532567e+03	5.626382e+03
58	-1.793495e+03	-8.261078e+03	-9.799908e+02
59	9.606516e+02	-2.120581e+02	2.249958e+02
60	-3.864649e+03	-5.126158e+03	-6.256075e+03
61	-2.698652e+03	4.979736e+03	-5.132004e+03
62	-3.102992e+03	-1.974374e+02	4.444689e+03
63	1.549460e+02	3.249246e+02	1.043286e+03
64	6.006690e+02	-4.828466e+03	-7.042702e+03
65	-9.794441e+02	2.467831e+03	3.232051e+03
66	-3.444369e+03	-1.974426e+03	2.924586e+02
67	5.153978e+03	-5.432249e+03	3.381239e+03

trajectory 37

atom	VX	VY	VZ
1	-6.138369e+01	2.937582e+02	3.190001e+02
2	5.967182e+02	6.180566e+02	-1.852004e+01
3	7.664703e+02	-5.984547e+02	-4.778774e+02
4	-3.511766e+02	-8.415647e+02	-1.191550e+03
5	1.332706e+03	-8.042466e+02	-6.910291e+02
6	-2.101372e+03	4.231685e+02	1.539100e+03
7	3.075715e+02	2.910729e+03	7.289576e+03
8	-3.535992e+03	-8.559381e+03	-3.767501e+02
9	-5.986706e+01	-1.925644e+02	1.717693e+03
10	-8.658683e+02	3.958384e+02	1.355550e+02
11	2.911861e+02	8.677174e+02	-1.310082e+03
12	1.836881e+03	2.022473e+03	-7.871046e+03
13	1.013125e+04	2.065031e+03	2.675587e+02
14	-4.686418e+02	-7.793415e+02	6.923537e+02
15	-8.408189e+02	1.064480e+03	-5.339827e+02
16	-5.272080e+02	-4.199090e+02	6.500528e+02
17	-4.685923e+00	-1.175410e+02	1.460741e+02
18	-1.168577e+03	-6.919080e+02	-9.334329e+00

19	1.638236e+03	2.577496e+03	-6.664374e+02
20	6.000500e+02	-1.547183e+03	3.160238e+01
21	-1.433948e+03	4.406035e+02	-8.859453e+02
22	1.274100e+03	-1.702370e+02	3.172655e+02
23	3.404782e+02	1.982884e+02	9.072885e+02
24	-3.985156e+01	8.220115e+02	4.308202e+02
25	-7.351097e+02	-1.306103e+03	4.727200e+02
26	6.937642e+02	-7.983958e+01	8.762284e+02
27	-3.744640e+02	-4.244429e+02	1.167936e+03
28	4.373723e+02	1.025424e+03	6.558958e+02
29	-1.298830e+03	1.606080e+03	-2.729757e+02
30	1.184353e+03	7.163214e+02	-2.095327e+03
31	-2.899216e+03	3.654044e+02	4.845518e+03
32	2.152642e+03	-1.200253e+03	-7.459100e+01
33	-2.638388e+03	2.873528e+03	-7.455212e+03
34	7.387841e+03	-3.681899e+02	2.405022e+03
35	5.642678e+01	-8.441349e+02	-5.397423e+01
36	-4.343278e+03	-5.956115e+03	5.045140e+03
37	1.292401e+02	-6.688149e+02	-5.864133e+02
38	-4.798881e+03	-3.807465e+03	-5.984499e+03
39	4.063695e+03	3.632409e+03	4.115750e+03
40	-1.025392e+03	-1.745886e+03	5.106772e+02
41	-4.600562e+02	-8.906201e+02	-6.997066e+00
42	6.345050e+02	2.717178e+02	-1.177759e+03
43	-3.302880e+02	1.681975e+03	9.354516e+02
44	1.025571e+04	-1.980416e+03	-1.001150e+02
45	-1.210634e+03	9.354456e+02	5.009045e+02
46	-5.182672e+02	-4.080453e+03	-2.471860e+02
47	-3.711039e+01	-3.374672e+02	-4.602545e+02
48	8.141623e+02	1.492494e+03	1.377281e+02
49	1.049708e+04	1.547781e+03	-6.908414e+03
50	3.494110e+03	6.939531e+02	-3.436057e+01
51	1.593837e+03	-2.026357e+02	6.467286e+02
52	-4.300713e+03	-1.375792e+03	-3.630535e+03
53	-7.523203e+03	-1.437420e+03	-7.148946e+03
54	-2.707401e+03	-4.126471e+03	-2.870960e+03
55	4.178176e+02	-1.158952e+03	2.227778e+02
56	-2.741185e+03	2.836679e+03	-8.102976e+03
57	-4.043464e+03	7.604784e+03	7.260755e+02
58	3.052235e+03	2.329469e+03	-3.937870e+03
59	4.503653e+02	1.403417e+02	-4.449794e+02
60	1.248000e+03	1.109288e+04	-3.584907e+03
61	-3.091345e+03	-3.557355e+03	-3.170773e+03
62	-2.591025e+03	1.545658e+03	5.339456e+02
63	-1.387302e+03	2.675594e+02	-1.698377e+03
64	5.834876e+03	-3.880271e+03	-5.793525e+03

65	4.424878e+03	1.447229e+03	-2.533970e+03
66	5.777128e+03	-1.880395e+03	1.061518e+03
67	-5.011314e+03	-7.544364e+03	1.975067e+03

trajectory 38

atom	VX	VY	VZ
1	6.539097e+00	-8.220973e+00	-1.193428e+02
2	-5.276349e+01	-1.100906e+03	1.016784e+03
3	1.821463e+02	-2.569824e+02	3.548909e+02
4	-1.025406e+03	-7.942219e+02	1.190540e+02
5	1.183893e+03	-5.948170e+02	2.750639e+03
6	-5.588914e+02	3.994033e+03	1.974389e+03
7	-5.084727e+03	2.449227e+03	-7.264030e+03
8	-7.453049e+03	-5.293966e+03	-2.359306e+03
9	1.793636e+02	1.118326e+02	-1.484198e+03
10	-3.298328e+02	-2.444817e+02	6.318946e+02
11	-1.000638e+03	1.884374e+03	-9.840323e+02
12	7.287787e+02	-1.076867e+04	-1.323093e+02
13	7.805113e+02	-2.839989e+02	-6.513721e+03
14	-1.235781e+02	9.399716e+02	9.516834e+02
15	-1.005413e+03	1.552694e+03	-8.865041e+02
16	-7.466164e+02	-3.179735e+02	3.200103e+02
17	3.691030e+02	1.162255e+01	1.431184e+01
18	-1.124992e+03	-4.497413e+02	-5.795341e+01
19	1.795755e+03	-2.158809e+02	4.926479e+02
20	-8.144421e+02	8.502058e+02	-2.253054e+02
21	-6.536531e+01	1.231040e+02	1.633029e+02
22	-1.894885e+01	1.694918e+03	-4.724159e+02
23	2.009145e+02	-1.172747e+03	8.344534e+01
24	1.033318e+03	-6.791701e+02	-6.739036e+02
25	-1.077339e+03	-4.207646e+02	5.896709e+02
26	-1.313207e+03	-1.155214e+03	4.274283e+02
27	7.533159e+02	-1.206747e+03	-1.120691e+03
28	6.621729e+02	2.853939e+02	8.179076e+02
29	5.644072e+02	-9.200885e+02	5.255700e+02
30	-1.188620e+03	7.533357e+02	-6.689018e+01
31	-5.545707e+03	-5.293479e+03	3.770934e+03
32	-4.710080e+03	2.601177e+03	-1.113632e+04
33	-3.660438e+03	6.082683e+02	-2.239475e+03
34	-2.989506e+03	7.502433e+03	-7.455866e+02
35	1.355301e+03	1.549137e+03	6.654630e+02
36	-6.099378e+02	-1.375686e+03	-5.785539e+02
37	-6.965045e+02	-1.742217e+03	-5.172317e+02
38	3.745688e+03	7.272690e+03	3.668357e+03

39	-1.642920e+02	2.300564e+02	-6.828735e+03
40	2.032027e+03	-4.058053e+02	3.512491e+02
41	-1.510779e+03	-6.100762e+02	-4.017764e+02
42	-8.316097e+02	7.268132e+02	5.786015e+02
43	3.457572e+02	-1.167131e+02	1.971775e+02
44	3.600054e+03	2.560676e+03	-5.077385e+03
45	2.097874e+03	8.780677e+02	-1.674826e+03
46	-3.877306e+03	-6.331890e+03	2.052775e+03
47	4.090879e+01	3.054030e+02	6.266319e+02
48	6.159618e+02	1.726662e+03	1.141985e+03
49	-3.554040e+03	-7.144820e+03	2.310459e+03
50	2.653364e+03	6.943985e+02	-2.412921e+03
51	3.477566e+02	-6.206084e+02	2.933112e+02
52	2.274441e+03	1.514428e+03	-6.635577e+03
53	3.874808e+03	1.381202e+03	2.003582e+02
54	-1.176588e+03	-9.659516e+03	1.501986e+03
55	-1.064029e+03	6.312765e+01	-3.754694e+02
56	2.468323e+03	3.301433e+03	-4.083799e+03
57	-8.101756e+03	3.575168e+03	4.501571e+03
58	-5.908773e+02	2.851362e+03	7.287208e+03
59	-6.656686e+02	2.128267e+03	1.050593e+03
60	-3.317048e+03	3.109036e+03	7.864835e+02
61	1.273180e+03	-7.504105e+02	-1.386418e+03
62	9.616935e+03	-9.847884e+02	-1.977935e+03
63	1.384804e+03	-7.147876e+02	5.658312e+02
64	-6.273551e+03	1.446358e+03	-4.594864e+03
65	6.906631e+03	3.566161e+03	-8.262496e+03
66	-8.655291e+02	2.791926e+03	3.341178e+03
67	2.591547e+03	3.194407e+03	-3.243392e+03

trajectory 39

atom	VX	VY	VZ
1	8.473580e+01	-5.336995e+01	-1.381818e+02
2	-7.284839e+01	5.021121e+02	6.993237e+02
3	7.807294e+02	6.672933e+02	-1.051387e+03
4	-2.734814e+02	8.942845e+02	-8.280236e+02
5	8.337659e+02	1.386466e+03	7.620171e+02
6	1.917407e+03	-9.052641e+03	4.351112e+03
7	2.022399e+03	-6.410194e+03	-3.728540e+03
8	-6.812075e+02	-9.703805e+02	-8.239489e+01
9	2.981680e+02	3.395136e+02	5.839750e+02
10	-2.066358e+03	-1.958104e+02	1.160089e+03
11	4.481826e+02	-4.634884e+02	-3.624463e+02
12	2.587909e+03	5.678813e+03	-1.515907e+03

13	1.376418e+03	6.911611e+03	-1.340204e+03
14	6.623172e+02	-4.031582e+02	4.345411e+02
15	-3.068585e+03	2.529176e+02	-1.174301e+03
16	5.953106e+02	7.211713e+02	6.887220e+02
17	-1.463230e+02	-3.930461e+02	3.259150e+02
18	-1.261753e+03	1.060634e+03	-2.554081e+02
19	3.521816e+02	-1.037900e+03	6.583554e+02
20	9.520276e+02	1.033653e+03	-7.860615e+02
21	-1.027054e+03	-3.166004e+02	1.216003e+01
22	1.009826e+03	1.018517e+02	8.356486e+01
23	1.183595e+03	-1.366934e+03	-1.263773e+02
24	-4.450366e+02	-2.363149e+02	4.396781e+02
25	-4.639799e+02	-8.944107e+02	-5.311743e+02
26	-2.477611e+02	1.875029e+02	-3.892349e+02
27	6.994770e+02	-4.436414e+02	1.832133e+03
28	-9.750281e+02	8.184057e+02	-6.066747e+02
29	2.404199e+02	-1.266131e+03	-4.493573e+02
30	3.281316e+01	-2.596580e+02	-4.382654e+02
31	-3.152660e+03	-4.159253e+03	3.978672e+03
32	-7.199998e+03	1.042909e+04	7.283064e+02
33	2.968963e+03	4.101109e+03	-4.350329e+03
34	4.993247e+03	-4.540453e+03	2.239503e+03
35	1.536090e+03	-1.095394e+03	-2.475945e+02
36	-1.985124e+03	-1.931695e+03	-8.721809e+02
37	-3.454881e+02	-3.542085e+02	6.114296e+02
38	9.255165e+03	-3.110784e+03	3.497157e+03
39	4.977894e+03	2.963881e+03	-3.663165e+03
40	-1.516345e+03	6.118585e+02	8.737902e+02
41	-2.437486e+03	2.065100e+02	4.089566e+01
42	1.443674e+03	-5.409632e+02	-1.665539e+03
43	1.742358e+03	1.643823e+02	1.341194e+02
44	2.816929e+03	3.531688e+03	2.053394e+03
45	1.074032e+03	1.052131e+03	-7.769423e+02
46	7.972553e+02	3.901762e+03	-2.874092e+03
47	-8.163325e+02	4.818853e+02	-6.564370e+02
48	3.320358e+03	-9.581416e+03	7.982587e+03
49	-5.258042e+03	8.744295e+02	-8.478238e+02
50	7.946018e+02	-3.803450e+03	-5.127527e+02
51	-2.859752e+01	-5.622290e+01	3.909801e+02
52	6.478608e+03	8.909051e+02	-7.775893e+03
53	-5.052998e+03	-6.183584e+03	2.619455e+03
54	-2.934025e+03	-2.997018e+02	-3.274900e+03
55	1.239900e+03	1.204374e+03	1.489707e+03
56	-9.705249e+02	-4.749193e+02	5.628234e+02
57	-7.685878e+03	1.948037e+03	-3.029486e+03
58	-1.103722e+04	-4.643614e+03	2.737631e+03

59	1.574726e+03	5.215112e+02	-4.420597e+02
60	-5.035266e+03	-7.971509e+03	-6.364474e+02
61	3.385008e+03	-2.132085e+03	-7.681876e+02
62	4.364938e+03	-2.355307e+03	-9.861462e+02
63	-8.113200e+02	1.545443e+03	-2.032434e+03
64	5.625904e+02	1.889524e+03	-2.407603e+02
65	-3.299038e+03	7.309837e+02	8.659769e+03
66	-2.284205e+03	-7.646973e+02	1.168476e+03
67	-1.513978e+03	5.118862e+03	5.570208e+02

trajectory 40

atom	VX	VY	VZ
1	1.151267e+02	-1.725954e+02	1.328730e+02
2	-1.088279e+03	3.464802e+02	9.573654e+02
3	1.024632e+03	-5.914863e+02	-1.259236e+03
4	-2.833497e+02	7.764035e+02	7.442667e+02
5	1.174745e+03	1.737384e+02	-2.461210e+03
6	-8.636139e+03	4.775506e+03	8.388351e+03
7	-2.512293e+03	3.571670e+03	-3.276593e+03
8	-2.292317e+02	-1.046193e+03	2.598313e+03
9	5.068243e+02	-5.326416e+02	5.178041e+02
10	-8.308617e+01	-4.335012e+02	-3.616334e+02
11	4.962054e+02	-1.490860e+03	-1.139967e+03
12	-1.212921e+03	-4.741339e+03	3.935454e+03
13	4.634105e+03	1.010680e+03	-4.568752e+03
14	-2.522972e+02	9.328128e+02	1.547440e+03
15	5.098230e+02	-2.649503e+02	-7.945707e+02
16	-6.868611e+02	7.962125e+02	3.714011e+02
17	-7.317784e+01	-2.860853e+02	2.221412e+02
18	4.596509e+02	-1.005812e+03	-5.114318e+02
19	9.316929e+02	1.255838e+03	-8.959329e+02
20	-1.006428e+03	8.072100e+02	-1.262285e+02
21	-4.974429e+02	-1.115446e+03	-9.937371e+01
22	1.253514e+02	2.501541e+03	1.017591e+03
23	-4.201831e+02	4.133990e+02	-1.516009e+02
24	1.876654e+03	5.054284e+02	-7.261213e+02
25	-1.022046e+03	9.950455e+02	-4.072846e+02
26	7.083268e+02	-9.587522e+02	-1.238484e+02
27	1.386098e+03	1.540778e+03	-1.854156e+03
28	-2.015621e+03	-8.563193e+02	-2.651408e+02
29	3.258459e+02	-4.827664e+02	9.492331e+02
30	-2.208373e+02	9.037568e+01	4.734491e+02
31	-5.523754e+03	-1.156735e+04	-2.920310e+03
32	-2.445953e+03	2.110200e+03	-1.112785e+03

33	2.778447e+03	1.460403e+03	-1.719946e+03
34	-4.739659e+03	2.842398e+03	9.546799e+02
35	-7.087355e+02	-8.395163e+02	5.938431e+02
36	4.692207e+03	3.318834e+03	-7.072604e+03
37	1.365473e+03	-2.363333e+02	6.860615e+02
38	-7.585202e+03	4.984006e+01	-2.098931e+03
39	-3.802633e+02	5.381587e+03	-2.976547e+02
40	-5.976828e+02	1.752144e+03	1.545943e+02
41	-6.210460e+02	-1.807750e+03	3.812446e+02
42	-1.277427e+02	7.279171e+02	-2.000433e+03
43	-1.142501e+03	-7.793167e+02	1.507541e+03
44	7.749240e+03	1.875924e+03	-3.924564e+03
45	-5.556912e+02	-1.074598e+03	-2.085841e+02
46	-4.151009e+03	3.433231e+03	3.654014e+03
47	1.249265e+03	7.507255e+02	-6.982526e+02
48	-6.731939e+03	7.193563e+03	4.594549e+01
49	-2.391525e+03	-1.853839e+03	2.225229e+03
50	2.361197e+03	1.107134e+02	4.607423e+03
51	-1.287024e+03	-1.146309e+02	6.019275e+02
52	-3.283470e+03	2.159224e+03	-5.625348e+02
53	1.078327e+04	4.034900e+03	-5.910210e+02
54	1.563578e+03	1.565428e+03	5.993772e+02
55	-5.689589e+02	-1.217554e+03	-7.303153e+02
56	8.787989e+03	-2.274912e+03	-3.144393e+03
57	-4.396417e+03	5.838987e+03	2.961966e+03
58	1.494811e+03	-5.060246e+02	3.223745e+03
59	9.475892e+02	4.224451e+02	9.696049e+02
60	2.838355e+03	-6.997276e+02	-1.356423e+03
61	7.083032e+03	1.650306e+03	-5.831745e+02
62	-9.921201e+03	3.804376e+03	-1.646095e+03
63	-5.460153e+01	3.889045e+02	2.374728e+02
64	1.607825e+03	-7.932433e+03	1.768586e+03
65	1.495090e+03	-2.807896e+03	-6.098389e+03
66	5.135514e+03	2.963183e+03	3.009926e+03
67	-2.937043e+03	2.303801e+03	-1.987778e+03

trajectory 41

atom	VX	VY	VZ
1	2.335952e+02	-3.252578e+02	-5.965872e+00
2	-7.342048e+02	-7.798650e+02	9.816997e+02
3	-1.061439e+02	9.684677e+02	-1.007716e+03
4	4.565290e+01	7.785310e+02	-8.931038e+02
5	-1.141828e+02	5.535856e+02	1.157588e+03
6	6.961291e+03	8.034465e+02	-9.222669e+03

7	-1.865470e+03	-5.653160e+03	1.490402e+03
8	-8.719433e+02	-4.083902e+03	2.271614e+03
9	-6.700841e+02	2.819091e+02	5.652090e+02
10	-6.343945e+02	-9.127943e+01	-6.573649e+02
11	9.246245e+02	-1.398388e+03	1.597071e+02
12	2.040145e+02	5.515896e+03	-3.049750e+03
13	1.104162e+03	-3.173945e+03	6.587891e+03
14	8.954797e+02	1.217548e+03	3.585722e+02
15	-2.819172e+02	-5.235771e+02	-1.308330e+03
16	-1.217828e+03	5.600166e+02	4.792522e+02
17	-4.685070e+01	-1.090401e+02	-1.051837e+02
18	-3.987051e+02	-4.924653e+01	4.522268e+02
19	-1.818581e+03	-9.738952e+02	5.428062e+02
20	4.505293e+02	9.413028e+02	-3.176692e+02
21	1.365362e+02	-2.921312e+02	-2.824394e+02
22	-1.269036e+03	-3.784159e+02	6.143894e+02
23	-2.084412e+02	-1.918735e+02	7.713039e+02
24	-3.279123e+02	-6.799006e+02	-1.517822e+03
25	7.823550e+02	2.040377e+03	7.251569e+02
26	-9.047707e+02	1.210196e+02	9.287388e+01
27	-2.068273e+02	9.990714e+02	1.141426e+03
28	-2.115726e+03	2.308419e+02	-1.419201e+02
29	-1.195515e+02	2.255820e+00	-1.448159e+01
30	-2.748873e+02	8.564037e+02	-1.768689e+02
31	7.756934e+03	8.875100e+02	-3.824096e+03
32	9.916020e+03	7.485887e+03	-5.095360e+02
33	-5.155125e+03	-1.417731e+03	-2.108155e+03
34	3.600855e+03	-6.298850e+03	-4.387435e+02
35	7.574859e+02	1.512231e+02	1.139007e+02
36	9.520582e+03	1.300033e+03	-4.977051e+03
37	1.534316e+03	-5.756374e+02	-2.040459e+02
38	-3.319494e+03	-1.937069e+03	-5.911781e+03
39	-7.184895e+02	-3.186568e+03	5.216940e+03
40	-6.066177e+02	1.076655e+03	1.689201e+02
41	-1.567942e+03	7.712600e+02	-3.748143e+02
42	-7.751484e+02	-7.389335e+02	1.620752e+03
43	1.052377e+02	-6.157814e+02	-4.079996e+02
44	1.158542e+04	7.513839e+03	2.230841e+02
45	8.457626e+02	1.437123e+02	1.202173e+03
46	1.352110e+03	2.205932e+03	3.964521e+03
47	4.196242e+01	-5.971987e+02	-1.138338e+03
48	3.178149e+03	8.287061e+03	-3.907150e+03
49	1.876136e+03	-4.205357e+03	2.172547e+03
50	-1.665509e+03	-5.556770e+03	1.840809e+03
51	7.390496e+02	6.556959e+02	5.065145e+02
52	1.405901e+03	-2.058034e+01	-4.258833e+02

53	8.627139e+03	-1.263237e+03	9.895563e+03
54	-2.423076e+03	-2.095854e+03	-3.948587e+03
55	1.074458e+03	-1.754286e+02	-1.014786e+03
56	-6.628581e+02	1.561293e+03	4.667252e+03
57	4.277078e+03	5.974358e+03	8.637081e+03
58	-1.318637e+03	1.508133e+03	-4.998197e+03
59	-2.704353e+02	-1.220923e+03	-5.386314e+02
60	6.618142e+03	6.899792e+03	-2.463640e+03
61	2.371121e+03	4.574760e+03	-2.553819e+02
62	-3.354149e+03	-3.239913e+03	2.592170e+03
63	2.156423e+02	-8.162983e+02	-1.636890e+03
64	-5.155089e+03	2.494181e+03	1.022608e+04
65	3.161162e+03	-1.564443e+03	-4.114437e+03
66	3.960717e+03	-1.158827e+03	2.197485e+03
67	9.993894e+02	-5.268706e+03	4.385184e+02

trajectory 42

atom	VX	VY	VZ
1	2.178060e+02	1.020547e+02	3.053091e+02
2	-2.314410e+02	3.915958e+02	9.376649e+02
3	1.161796e+03	-1.572253e+03	-1.050144e+03
4	-5.725172e+02	-1.506506e+01	4.513407e+02
5	1.225015e+02	5.071335e+00	-2.736306e+03
6	-4.859281e+03	-1.818289e+03	7.092281e+03
7	-2.000758e+02	1.926019e+03	5.624156e+01
8	-2.624632e+03	-3.093880e+03	5.419277e+03
9	-5.439305e+02	1.047004e+03	9.940092e+02
10	-1.686904e+03	1.469924e+03	-1.451548e+03
11	6.989636e+02	3.493353e+02	3.504841e+01
12	-2.256269e+03	-1.139438e+04	3.847860e+02
13	-1.285217e+03	-4.191592e+03	4.517779e+03
14	-7.385051e+02	-8.991889e+02	1.145804e+02
15	1.085688e+03	3.821795e+01	-2.791709e+03
16	-2.911371e+02	-4.230623e+02	-2.152575e+02
17	1.531440e+02	-4.526749e+01	2.435665e+01
18	1.615564e+02	-4.851002e+02	-6.515872e+02
19	-1.809274e+02	-3.293694e+02	-6.480877e+02
20	6.705144e+02	2.379079e+02	-5.052114e+02
21	-1.432557e+02	1.423382e+03	-8.555160e+00
22	-1.840159e+03	-2.547723e+02	1.180946e+03
23	1.646409e+03	2.040233e+02	2.914119e+02
24	1.111380e+03	4.703489e+02	-2.676111e+01
25	-9.171703e+02	5.305855e+02	5.751389e+02
26	3.798039e+02	-6.736400e+02	-1.661554e+03

27	-1.102486e+03	2.245536e+03	-4.676188e+02
28	-7.078180e+02	-1.375432e+03	6.172706e+02
29	-1.001725e+03	-3.943393e+02	1.102503e+03
30	8.427706e+02	6.100954e+02	-1.029404e+03
31	4.711943e+03	7.576009e+03	2.262835e+03
32	3.054330e+03	-3.937576e+03	-2.307204e+02
33	1.415400e+03	-3.836609e+03	8.431068e+02
34	5.039556e+03	-1.410365e+03	-1.230742e+03
35	3.589868e+02	7.546068e+02	1.239974e+02
36	-6.367561e+03	-3.297708e+03	4.836492e+03
37	-1.096708e+03	1.057323e+02	2.986290e+01
38	-2.647551e+03	-3.129372e+03	-2.842037e+03
39	9.557737e+03	-1.265426e+03	-2.541960e+03
40	-9.599759e+02	7.184134e+02	-1.345135e+02
41	-2.245029e+03	-5.446077e+02	-3.978969e+02
42	5.026315e+02	-1.524767e+03	-1.530171e+03
43	2.731891e+02	6.286483e+02	-9.661508e+01
44	2.105880e+03	-3.006487e+03	2.095254e+02
45	6.688048e+02	-3.047119e+02	8.598515e+02
46	2.414595e+03	-2.972996e+03	3.226274e+03
47	-3.473235e+02	-4.297912e+02	1.000868e+03
48	-3.362107e+03	-7.554256e+03	5.566059e+02
49	-1.857584e+03	-1.577413e+03	1.749281e+03
50	-9.117939e+03	6.062176e+03	1.180569e+03
51	8.557362e+02	-1.566054e+03	4.365933e+01
52	-7.691488e+03	-2.236462e+03	6.243789e+03
53	3.806805e+03	8.029423e+03	-1.346214e+03
54	6.229595e+03	5.036726e+02	3.243834e+03
55	8.218011e+02	-8.723424e+02	6.152784e+02
56	-1.152412e+03	-2.650960e+03	3.025378e+03
57	-1.999237e+03	5.317548e+03	6.735885e+03
58	-1.831863e+03	4.082907e+03	-4.395320e+03
59	1.084047e+03	1.250702e+03	9.937207e+02
60	3.713614e+03	1.217518e+02	3.826131e+03
61	-1.830814e+02	2.117226e+01	1.162538e+03
62	-1.008704e+04	-1.231598e+03	3.540838e+03
63	-9.876152e+02	-3.825728e+02	2.611854e+02
64	-3.344637e+03	2.065108e+03	-2.131038e+03
65	7.861068e+03	2.614257e+03	-6.889680e+03
66	-6.561023e+02	-1.406147e+03	2.203875e+01
67	4.578094e+03	7.161656e+03	-5.768811e+03

trajectory 43
atom VX

VY

VZ

1	-2.571774e+02	-2.609911e+02	2.817580e+01
2	5.674969e+02	2.463373e+02	1.525178e+03
3	-3.932000e+02	-1.538502e+03	-2.178190e+03
4	-8.201191e+02	8.246279e+02	5.595840e+02
5	2.419824e+03	-9.938198e+02	-1.121566e+03
6	4.212125e+03	2.959306e+03	-6.109920e+03
7	-4.166708e+03	2.268689e+03	4.645772e+03
8	9.316556e+02	2.995823e+03	3.152220e+03
9	1.461435e+02	3.243354e+02	-5.492354e+02
10	7.153232e+02	-4.230474e+02	-6.200790e+01
11	1.133039e+03	-2.041995e+03	-1.531550e+03
12	-1.721099e+03	-1.157978e+03	4.122848e+03
13	-1.053630e+03	-5.202351e+02	8.187692e+03
14	-1.289739e+03	2.507915e+01	-3.918893e+02
15	3.363136e+02	1.781364e+03	-7.454791e+01
16	-4.071825e+01	-1.694141e+03	-6.243281e+02
17	-2.601623e+01	2.370181e+01	-8.134236e+01
18	-8.871465e+02	2.377186e+02	2.837907e+02
19	1.701960e+03	-1.143011e+03	2.782546e+02
20	1.447700e+03	9.712473e+01	-7.819948e+02
21	8.351195e+02	3.601777e+00	3.537974e+01
22	-4.311583e+02	-2.506611e+02	1.057468e+03
23	-3.396698e+02	9.799807e+02	-3.394931e+02
24	-2.206614e+02	3.509732e+02	-1.560535e+02
25	8.233221e+02	-1.072736e+03	-6.655351e+02
26	2.856525e+01	4.839420e+01	5.141312e+02
27	8.861037e+02	1.328791e+03	-3.380162e+02
28	-1.375770e+03	4.345203e+02	-5.649824e+02
29	-2.358983e+02	1.492082e+03	6.192108e+02
30	2.977053e+02	-9.681350e+02	8.110760e+02
31	-1.016290e+04	-8.660060e+02	1.207292e+03
32	2.709215e+03	-4.405338e+03	4.433202e+03
33	2.764678e+03	2.803673e+03	-1.291531e+03
34	5.935766e+03	-6.450695e+03	2.667485e+03
35	1.334652e+03	-8.026480e+02	-4.555229e+02
36	9.839962e+02	5.403674e+03	-5.148838e+01
37	7.877207e+02	7.710601e+02	-2.952056e+02
38	-7.921176e+03	-3.806060e+03	-1.654126e+03
39	-2.655420e+03	-2.926789e+02	3.066953e+03
40	-7.475035e+01	5.143544e+02	-1.261759e+02
41	-9.734867e+02	2.941521e+02	-5.023081e+02
42	-1.030041e+03	1.192086e+02	-1.385405e+03
43	1.606450e+03	-2.097099e+02	7.838452e+02
44	-1.023077e+04	3.232387e+03	1.885084e+03
45	-1.015937e+03	1.643409e+02	9.740288e+02
46	1.708804e+03	1.296427e+03	3.334315e+03

47	-1.044156e+03	6.832431e+02	1.541824e+01
48	-2.126116e+03	4.025050e+03	-8.008684e+02
49	4.605601e+03	5.254736e+03	-5.993545e+03
50	2.497327e+03	-4.568672e+03	-1.479277e+03
51	-1.760982e+03	5.912298e+02	4.524928e+02
52	2.110780e+03	4.048684e+03	7.207813e+03
53	8.722434e+03	-4.033708e+03	5.713904e+03
54	-3.469363e+03	4.606111e+02	7.063304e+02
55	2.992318e+02	-5.139794e+02	6.731159e+02
56	7.590088e+03	-3.746989e+03	-4.433754e+03
57	-4.466277e+03	5.065296e+03	4.953900e+03
58	1.456053e+03	-3.644884e+03	1.029598e+04
59	-3.068197e+02	-1.327401e+02	6.803707e+01
60	3.094671e+03	2.913741e+03	2.140542e+03
61	-4.076623e+03	6.447741e+03	-6.375386e+03
62	4.218509e+03	5.840992e+03	4.404821e+03
63	-5.539765e+02	8.473158e+02	6.186550e+02
64	5.495848e+02	-4.082510e+03	-5.392420e+03
65	2.588406e+03	4.289818e+03	-2.325550e+03
66	4.907623e+03	2.152486e+03	6.407075e+03
67	-6.724968e+03	-8.865242e+03	2.800325e+03

trajectory 44

atom	VX	VY	VZ
1	5.723710e+01	1.665269e+02	5.054070e+01
2	1.113114e+03	-1.778793e+03	-2.864600e+02
3	5.422909e+02	1.604083e+02	-1.323410e+03
4	-5.278026e+02	9.911236e+02	9.800708e+01
5	3.717109e+01	-2.987175e+02	3.812488e+01
6	2.318250e+03	-6.157638e+03	3.002775e+03
7	-4.082743e+03	3.732727e+03	6.795401e+03
8	-4.920429e+03	-7.446766e+02	-3.916237e+03
9	-6.570564e+02	-6.770705e+02	2.979545e+02
10	-4.105363e+02	-2.831142e+02	1.162363e+03
11	7.070292e+02	8.681519e+02	-1.154199e+03
12	-2.981547e+03	1.151964e+03	3.942275e+03
13	-2.559427e+03	-4.244382e+03	6.004319e+03
14	1.817970e+01	-8.682953e+02	3.424378e+02
15	8.848587e+02	-1.198090e+03	7.444336e+02
16	-2.064492e+02	-5.567503e+01	-1.432414e+03
17	-3.230686e+00	2.723013e+02	-1.097817e+02
18	-4.993488e+02	9.195260e+02	-1.330307e+03
19	5.715598e+02	-6.669372e+02	-7.393628e+02
20	9.280293e+02	1.917909e+03	7.454877e+01

21	4.056535e+02	-2.901957e+02	-5.943881e+02
22	-1.119068e+03	-1.316143e+03	1.162661e+03
23	2.068141e+02	-2.853637e+02	-1.877105e+02
24	1.738512e+02	2.299890e+01	-7.511742e+02
25	-1.105746e+03	6.668281e+02	2.298848e+03
26	3.729699e+02	-5.068445e+02	-2.678648e+02
27	5.296966e+01	8.403889e+02	-1.922729e+02
28	-2.685909e+02	6.516924e+02	9.102703e+02
29	-1.653468e+03	9.238913e+02	3.580090e+01
30	9.916315e+02	-1.842287e+03	1.379573e+03
31	-5.376460e+03	-5.350963e+03	1.642702e+03
32	4.228563e+03	2.916945e+03	-5.681440e+03
33	1.156899e+03	-2.285690e+03	-3.518366e+03
34	1.993764e+03	-4.767180e+03	-5.456045e+03
35	-6.182815e+02	-3.076419e+02	-4.291839e+02
36	6.501714e+03	2.405236e+03	-5.439129e+03
37	3.182709e+02	1.175446e+03	1.310689e+03
38	-3.826293e+03	3.878621e+03	-4.782709e+02
39	9.012833e+03	2.796283e+03	-5.587222e+03
40	5.809017e+02	1.625697e+02	4.130825e+02
41	2.913978e+02	-2.686671e+02	-3.607195e+02
42	-2.034074e+02	-7.476826e+02	-2.735664e+02
43	1.275736e+03	-1.548183e+02	-8.210458e+02
44	-7.387072e+03	-3.400037e+02	5.637337e+03
45	-5.316201e+02	-1.699953e+03	7.048047e+02
46	-2.062920e+03	3.500131e+03	-5.623352e+03
47	-8.842566e+02	1.761875e+03	-6.906294e+02
48	2.662970e+03	-7.168913e+03	3.424700e+01
49	-4.885391e+03	-3.597272e+02	8.390711e+03
50	1.142171e+03	-7.701534e+03	-3.095668e+03
51	-5.783928e+02	-1.114638e+03	1.210572e+03
52	1.836104e+03	-1.494830e+03	-2.802197e+03
53	6.782401e+03	-1.873603e+03	-5.721163e+03
54	-1.151988e+03	7.953060e+03	-5.205261e+03
55	1.281445e+03	-1.490328e+03	4.735420e+02
56	1.058460e+03	-4.074264e+01	5.953910e+03
57	-4.159799e+03	6.068415e+03	5.321779e+03
58	-6.160865e+03	2.211226e+03	1.280008e+03
59	-1.035439e+03	-4.076597e+01	-9.148613e+02
60	6.437183e+02	-5.341310e+03	4.350423e+03
61	5.961283e+03	-3.929711e+02	8.074007e+03
62	-4.269533e+03	2.602285e+02	3.786300e+02
63	1.157685e+03	1.491475e+03	7.366830e+01
64	-2.097898e+02	-8.157689e+03	-2.120563e+03
65	-4.062127e+03	2.106863e+03	-3.262135e+02
66	-4.819079e+03	2.456338e+03	1.944365e+03

67 -7.980789e+03 5.300960e+03 1.429365e+03

trajectory 45

atom	VX	VY	VZ
1	1.224490e+02	-6.686363e+01	-8.421709e+01
2	1.206645e+02	1.445500e+03	-1.180479e+03
3	7.425689e+01	4.775030e+02	-1.368208e+03
4	2.230262e+02	4.259123e+02	1.930822e+02
5	-2.437150e+02	-6.193004e+02	-3.032579e+02
6	-1.480428e+03	-4.205187e+02	8.590502e+03
7	5.249883e+03	-3.354454e+03	-7.068995e+03
8	-3.881983e+03	-4.527987e+03	1.580249e+03
9	-2.466226e+02	4.795991e+01	5.447850e+02
10	-9.853466e+02	1.164956e+03	2.922118e+02
11	3.699719e+02	-3.337887e+02	9.765800e+02
12	-5.327141e+03	5.386316e+02	4.402381e+03
13	-3.174286e+03	-4.990761e+03	4.096783e+03
14	1.605520e+01	9.491342e+02	1.329510e+02
15	-8.526777e+02	-8.975676e+02	1.631855e+03
16	5.345622e+02	3.863835e+02	-9.445594e+02
17	-4.112216e+02	3.186842e+01	-1.134697e+02
18	-9.817787e+02	-5.154742e+02	1.114601e+03
19	2.612679e+03	6.798856e+02	-7.272501e+02
20	-9.171344e+01	-1.108476e+03	-1.065258e+02
21	8.078740e+02	-2.130717e+02	-3.572717e+01
22	8.168407e+02	-2.887031e+02	1.870158e+02
23	4.066603e+02	-2.169300e+01	-7.238227e+01
24	-4.382739e+02	1.924259e+02	-6.147222e+02
25	3.594245e+02	2.006811e+03	1.217348e+03
26	-1.914645e+02	-1.802091e+02	-6.283423e+02
27	8.313672e+02	2.894730e+02	1.280138e+03
28	1.142560e+03	-3.189441e+02	-1.119312e+03
29	-1.269370e+03	1.310829e+03	5.239392e+02
30	6.053163e+02	-1.005872e+03	8.127646e+02
31	-4.640927e+03	-2.946069e+03	2.910947e+03
32	-6.470301e+03	1.150031e+03	-3.394778e+02
33	1.584258e+03	-9.940296e+01	1.728900e+03
34	-8.328900e+03	-2.410343e+02	-2.482708e+03
35	5.852007e+02	-1.330723e+01	1.170890e+03
36	7.362745e+03	1.751855e+03	-6.248824e+03
37	-3.874905e+02	3.167287e+02	-6.892008e+02
38	7.271154e+03	1.422132e+01	3.981890e+03
39	8.285389e+03	5.618228e+03	-4.037500e+03
40	1.133617e+03	-2.250354e+03	-6.713990e+02

41	3.081317e+02	1.823920e+03	-1.075899e+03
42	-6.720168e+02	9.586251e+01	7.524772e+02
43	-1.165290e+03	8.682303e+02	-2.159296e+02
44	4.592274e+02	-2.818651e+03	2.513783e+03
45	-3.865688e+02	-2.005928e+03	-1.069622e+02
46	-3.296858e+03	-5.836853e+03	1.614295e+03
47	4.782212e+02	3.914452e+01	6.163097e+02
48	-3.177909e+03	9.713714e+03	-7.850143e+03
49	3.771018e+03	2.766822e+03	2.303649e+03
50	-2.050574e+03	3.443113e+03	-1.744627e+03
51	-1.068618e+03	-2.725973e+02	-7.004021e+02
52	2.798540e+03	-1.263376e+03	-7.267391e+03
53	1.859291e+03	-6.400062e+03	4.209181e+03
54	4.491346e+03	-8.155513e+03	-2.249051e+03
55	2.168490e+02	-3.578380e+01	9.151014e+01
56	-4.153558e+03	-1.778755e+03	-4.388815e+03
57	4.571109e+02	1.971848e+03	-4.563373e+03
58	1.089400e+04	3.882033e+03	1.583400e+03
59	-9.273652e+02	-4.732859e+02	3.539114e+02
60	1.128694e+03	-5.721786e+03	5.595876e+03
61	4.221585e+03	-2.455514e+03	8.872433e+03
62	-3.722055e+03	4.630619e+03	-5.434432e+01
63	-1.314882e+03	-3.139725e+02	1.216457e+03
64	3.222542e+03	4.199446e+03	-4.306586e+03
65	3.681163e+03	8.531475e+02	-8.488383e+03
66	2.177455e+03	-7.486086e+02	-4.765553e+03
67	5.100694e+03	-4.740682e+03	3.375991e+03

trajectory 46

atom	VX	VY	VZ
1	-2.113549e+02	1.649443e+02	3.225965e+02
2	7.488668e+02	-1.313981e+02	7.493480e+02
3	5.926448e+00	1.900019e+03	-1.304853e+03
4	-5.311554e+02	-1.873586e+02	1.304437e+02
5	-9.507802e+01	-9.762237e+02	1.063616e+03
6	4.972891e+02	9.383132e+03	-7.815351e+03
7	3.834009e+03	-3.561504e+03	7.683241e+02
8	3.688089e+02	-2.193316e+03	-2.477503e+03
9	-2.513261e+02	-3.974225e+02	1.652957e+02
10	1.871249e+03	-1.159626e+03	-9.615673e+02
11	-8.965367e+02	1.087909e+03	1.897407e+03
12	3.238288e+03	5.338485e+02	-8.515101e+03
13	-2.809649e+03	-3.569885e+03	2.068627e+03
14	-1.499568e+03	3.295071e+02	-1.015224e+02

15	4.630192e+02	-2.036376e+02	-1.033277e+03
16	1.254141e+03	9.518100e+02	4.631449e+02
17	1.557387e+02	-7.240294e+01	2.108849e+02
18	-3.823010e+02	-6.603451e+02	-2.848228e+02
19	3.167342e+02	5.718769e+02	-4.891078e+02
20	4.115295e+02	1.369211e+02	1.827894e+01
21	-3.686036e+02	5.063640e+02	-2.047884e+03
22	6.663121e+02	4.517483e+02	1.573823e+03
23	1.142084e+02	7.729764e+01	-2.967285e+02
24	-2.473462e+02	7.430906e+01	1.079238e+03
25	3.865179e+02	6.102798e+02	-2.016951e+03
26	1.123665e+03	-1.393870e+03	-5.895528e+02
27	8.935199e+02	-1.923571e+02	-7.345191e+02
28	-2.663352e+02	-6.580618e+02	-6.057432e+02
29	-1.324569e+03	-4.793513e+02	8.205650e+02
30	1.511479e+03	-7.298168e+02	1.689736e+03
31	1.318500e+03	1.532164e+03	-6.942040e+03
32	-7.439098e+01	-3.819148e+03	2.098395e+03
33	-1.467630e+03	2.321269e+03	-2.515791e+03
34	-3.190089e+03	4.753350e+03	1.243271e+03
35	-1.610543e+02	-1.764306e+03	4.093793e+02
36	-1.270092e+04	-3.388886e+03	-2.207013e+03
37	7.378915e+02	-4.719738e+02	-5.192223e+02
38	1.163159e+02	1.513839e+03	3.971349e+03
39	-6.729155e+03	7.217840e+03	-2.122413e+02
40	3.935429e+00	5.945033e+02	3.586157e+02
41	-1.474207e+02	-6.438316e+02	-1.229597e+02
42	-2.160257e+03	-6.775843e+02	-5.458255e+02
43	-1.523914e+02	-2.244749e+02	1.979910e+02
44	-5.220553e+03	-4.462759e+03	2.265401e+02
45	2.571314e+03	6.554472e+02	-1.165561e+03
46	-7.338540e+03	4.381077e+03	4.740508e+03
47	2.309953e+02	6.845817e+02	-6.890070e+02
48	2.974529e+02	6.071245e+01	1.686402e+03
49	-6.897124e+03	-9.283989e+02	6.528160e+03
50	-2.683997e+03	2.922993e+03	-3.887663e+03
51	-1.106539e+03	3.812182e+01	1.221220e+03
52	5.200005e+03	6.193855e+03	-3.851884e+03
53	-3.725395e+03	-4.031753e+03	-8.558815e+02
54	-1.545452e+03	-2.516692e+02	-3.530487e+03
55	-5.969576e+02	4.759472e+02	1.161229e+03
56	4.671220e+03	-4.437060e+02	3.591264e+02
57	2.301631e+02	-5.469663e+03	-7.982548e+03
58	-2.675199e+02	7.501441e+03	2.331102e+03
59	1.036239e+03	-5.522079e+01	-1.012354e+03
60	8.273139e+02	4.032673e+02	2.561111e+03

61	-1.029750e+03	4.306766e+03	2.597830e+03
62	-9.971804e+03	-2.845883e+03	3.725041e+03
63	-1.895473e+02	-1.267312e+03	-1.432862e+02
64	-1.011223e+03	-1.995416e+03	-6.191638e+02
65	7.438832e+03	-3.009796e+00	-7.490650e+03
66	-3.738437e+03	8.329728e+03	1.147553e+03
67	2.252307e+03	5.616743e+03	-5.973012e+03

trajectory 47

atom	VX	VY	VZ
1	-2.883019e+02	2.193423e+01	-4.120537e+01
2	3.518537e+02	1.829775e+03	-2.700272e+02
3	-3.505222e+02	-1.155516e+03	-8.539981e+02
4	3.412504e+02	6.434646e+02	1.264615e+03
5	5.738168e+02	9.635855e+02	6.726808e+02
6	4.800586e+02	-1.553629e+03	-4.512443e+03
7	2.853242e+03	-7.308914e+03	5.193925e+03
8	-8.032614e+03	-4.955575e+03	-3.019335e+03
9	-4.550983e+02	6.330011e+02	9.540785e+02
10	7.838735e+02	-3.811521e+02	2.865429e+02
11	1.474198e+03	-1.014717e+03	-4.351404e+02
12	-9.879703e+03	-3.616868e+03	-2.818051e+03
13	-6.135845e+03	-6.658410e+03	5.722837e+02
14	1.198882e+03	2.107114e+02	-1.380904e+03
15	-2.250619e+03	-1.463594e+02	7.411652e+02
16	-8.836046e+02	-5.196658e+02	1.137769e+03
17	4.125867e+01	2.707852e+02	-9.066861e+01
18	6.919697e+02	9.113534e+02	-3.400381e+02
19	1.670936e+03	-1.483325e+03	-8.802572e+02
20	-9.202968e+02	1.085701e+03	-5.021187e+02
21	1.386366e+02	-1.963378e+02	9.500227e+02
22	-7.773947e+02	-1.215251e+03	8.228872e+02
23	-3.265406e+02	-6.837293e+01	1.578864e+02
24	-3.502592e+02	5.901408e+01	-8.461067e+02
25	3.081724e+02	-2.613147e+02	-9.074869e+02
26	4.590375e+02	2.712706e+02	1.830629e+02
27	2.455827e+02	1.121495e+03	-1.843565e+02
28	-3.681524e+01	-1.062085e+03	1.106709e+03
29	-1.672137e+03	-6.067478e+02	3.531942e+02
30	-1.279989e+02	-1.505824e+03	-5.324352e+02
31	6.891929e+03	8.383770e+02	-2.617963e+01
32	-2.319746e+03	1.976316e+03	1.523114e+03
33	1.911698e+03	-1.761525e+03	-3.677346e+03
34	9.645362e+03	2.257301e+03	1.720249e+03

35	-5.976473e+02	1.118170e+03	-7.622592e+02
36	4.932690e+03	6.244620e+03	-4.856411e+03
37	1.265489e+03	-9.455545e+01	5.899715e+02
38	-5.460582e+03	4.308832e+03	-5.369067e+03
39	-4.340848e+03	2.507275e+02	1.087154e+03
40	1.139072e+03	6.788392e+01	-9.591790e+02
41	6.083897e+02	-1.692121e+03	-1.360868e+02
42	-5.582702e+02	7.833254e+01	-4.549340e+02
43	2.173481e+03	1.220293e+03	4.708230e+02
44	5.880054e+03	3.073755e+03	-2.776295e+03
45	-2.369374e+02	-3.666939e+02	3.848274e+02
46	3.143848e+03	-5.717639e+03	-1.956264e+03
47	-4.906078e+02	-8.599309e+02	1.822438e+03
48	-4.382817e+03	8.823708e+03	1.541788e+03
49	1.948992e+03	3.640581e+03	-3.768127e+03
50	-6.603451e+03	-1.290094e+03	1.740082e+03
51	7.252177e+01	1.509458e+03	1.869340e+02
52	2.935206e+03	1.534939e+03	-2.490224e+03
53	-1.067272e+02	-3.396732e+03	8.138872e+03
54	-5.797524e+03	8.918880e+03	-3.504188e+03
55	2.173724e+02	-1.230789e+03	1.912438e+03
56	6.744872e+03	6.083894e+03	-4.567484e+03
57	7.307736e+02	1.387563e+03	-6.549073e+03
58	-2.098757e+03	-3.976336e+02	-4.745236e+02
59	-6.455195e+02	-1.277269e+03	-1.172492e+03
60	5.611585e+03	-4.149314e+03	1.463571e+03
61	3.501223e+02	-3.400991e+03	-2.583296e+03
62	-1.162135e+04	-2.805555e+03	1.494981e+03
63	-6.742486e+00	-3.372629e+02	-1.246668e+03
64	-5.776334e+03	5.119205e+03	7.622836e+03
65	3.050380e+03	-2.148082e+03	-3.641327e+03
66	3.061527e+03	1.880136e+02	2.220524e+03
67	1.958055e+03	-2.709850e+03	4.110625e+03

trajectory 48

atom	VX	VY	VZ
1	4.160030e+01	3.884844e+01	3.277051e+02
2	2.825120e+01	1.597666e+03	3.242250e+01
3	7.373343e+02	-8.964634e+02	-1.652700e+03
4	1.339227e+02	-1.185074e+02	7.731376e+01
5	2.152197e+01	4.590300e+02	-1.690665e+01
6	-2.947261e+03	4.419544e+03	2.646228e+03
7	-9.140507e+02	8.262105e+03	-3.098428e+03
8	6.515189e+03	3.508963e+03	9.138203e+03

9	4.198541e+02	2.377522e+02	6.397020e+02
10	-4.843596e+02	2.229813e+03	8.704676e+02
11	-3.911212e+02	1.577573e+01	-5.330424e+02
12	1.248386e+03	-8.423664e+03	4.157331e+03
13	-3.879962e+03	-7.519695e+03	1.046833e+03
14	-8.761213e+01	-3.147848e+02	-8.169403e+02
15	-8.024250e+02	-1.686404e+02	-1.342928e+02
16	3.406724e+02	3.532179e+02	-1.076375e+03
17	1.394684e+02	3.722142e+01	-1.799251e+02
18	-3.228833e+02	4.142863e+02	-5.098805e+02
19	8.434422e+02	-1.739783e+03	1.893719e+03
20	-5.247200e+02	1.085096e+02	2.814789e+02
21	2.385253e+02	-8.519512e+01	3.629821e+02
22	-1.037278e+03	-2.689966e+03	6.872074e+02
23	-7.775521e+02	-5.225160e+02	1.058121e+02
24	-1.007869e+03	-9.283421e+01	6.654535e+02
25	7.995116e+02	-5.041174e+02	2.090314e+02
26	5.114960e+02	8.862513e+02	-1.913531e+03
27	-8.449612e+02	2.175640e+03	-2.597024e+02
28	-3.220180e+02	-9.482000e+02	-7.799526e+02
29	-1.327779e+03	1.188241e+01	1.134142e+03
30	1.863902e+03	-1.336639e+03	5.863579e+02
31	-3.763696e+03	-4.925212e+02	3.039796e+03
32	-9.150943e+02	7.251807e+03	-4.851881e+03
33	4.852373e+02	-2.938990e+03	7.663874e+01
34	3.134222e+03	1.457994e+03	-6.029023e+03
35	6.465411e+02	5.171771e+02	-1.006743e+03
36	1.089672e+03	-3.184860e+03	1.989556e+03
37	-1.594602e+03	3.130605e+02	1.969476e+02
38	7.640198e+03	-2.728448e+03	3.904775e+03
39	5.395832e+03	-1.408618e+02	5.934938e+02
40	8.635933e+01	-6.716147e+02	9.819848e+01
41	-9.639988e+02	4.803554e+02	1.353212e+03
42	-1.150562e+02	-7.709867e+02	-8.193162e+02
43	2.535681e+02	-1.298048e+03	6.854909e+02
44	3.761675e+03	-6.054574e+03	-1.624629e+03
45	8.449270e+02	1.650771e+03	1.010622e+02
46	3.373274e+03	-1.850666e+03	4.729054e+03
47	8.927790e+02	-6.742510e+00	-1.123978e+03
48	2.607661e+03	-9.120171e+03	1.092295e+03
49	-6.168693e+03	7.395751e+02	-2.977741e+03
50	-9.901191e+03	1.607506e+02	1.988924e+03
51	1.168033e+03	1.478501e+02	-1.564735e+03
52	-6.999031e+03	-6.004889e+03	1.287819e+03
53	2.884174e+03	6.731229e+03	7.633281e+02
54	1.895485e+03	1.407033e+03	5.198417e+03

55	-6.131490e+02	2.015194e+02	6.625217e+02
56	7.348822e+03	7.983592e+03	3.117932e+03
57	5.380419e+03	-4.214543e+03	-6.466369e+03
58	3.435573e+03	8.096566e+02	-1.826286e+03
59	2.794941e+02	1.050526e+03	-1.050863e+03
60	-1.085406e+03	1.762573e+03	-1.432508e+03
61	2.873728e+02	1.461032e+03	-6.747533e+02
62	-1.124076e+04	-2.166489e+03	2.637139e+02
63	1.266694e+02	6.809355e+02	1.605308e+03
64	-2.965591e+03	-6.639066e+03	-8.461828e+03
65	-5.625794e+03	-1.747983e+03	7.955969e+02
66	-1.180023e+03	-2.745572e+03	-3.867145e+03
67	-1.428560e+03	-7.472976e+03	1.063694e+03

trajectory 49

atom	VX	VY	VZ
1	-1.605616e+02	-4.001245e+01	-8.390261e+01
2	-1.107412e+03	-1.257727e+03	4.048761e+02
3	2.637243e+02	7.523934e+02	1.616375e+03
4	4.832140e+02	-5.272248e+02	-1.004702e+03
5	4.417529e+02	2.543877e+02	9.294187e+02
6	3.299403e+03	-3.445024e+03	-7.926006e+02
7	-7.511804e+02	-1.887123e+03	-2.147483e+03
8	-5.926536e+03	1.074186e+03	-9.104386e+03
9	-8.384676e+01	1.211351e+03	-1.978703e+02
10	9.961537e+02	3.817753e+02	-1.420018e+03
11	-3.077019e+02	1.398107e+03	8.231449e+02
12	-1.834278e+03	-5.251038e+03	5.467000e+03
13	2.512110e+02	1.364445e+03	-8.889464e+03
14	-1.001326e+01	-3.495533e+02	-8.814241e+02
15	-1.035318e+03	-1.015607e+03	1.307336e+03
16	3.045194e+01	7.901982e+02	4.344001e+02
17	-6.599166e+00	3.191958e+01	1.481886e+01
18	-1.330197e+03	-1.639738e+03	3.397106e+02
19	1.462999e+03	1.707487e+02	-5.451017e+02
20	9.262875e+02	-7.428698e+02	4.676791e+02
21	8.727460e+02	1.843014e+02	-6.983805e+01
22	1.567269e+03	-2.568612e+02	4.962145e+02
23	-5.429086e+02	-4.365326e+02	-1.565065e+03
24	-9.227568e+01	1.673073e+02	2.959688e+02
25	2.755092e+02	-3.573951e+02	6.327936e+02
26	-1.044567e+03	-6.301294e+02	-5.539865e+02
27	1.335114e+03	3.957888e+02	8.874313e+02
28	-1.684934e+02	-3.068689e+01	-7.750554e+01

29	-2.069149e+03	8.386928e+02	-7.249002e+02
30	2.637305e+03	6.240828e+02	-9.387818e+02
31	-2.852488e+03	1.860358e+03	3.823681e+02
32	8.608608e+03	3.075267e+01	-4.586049e+02
33	-4.918305e+03	-1.700839e+03	3.180182e+03
34	5.219641e+03	-4.823502e+03	-2.073467e+03
35	4.734119e+02	2.680337e+03	-4.916688e+02
36	-3.258248e+03	-3.307863e+03	5.818144e+03
37	-2.081170e+03	-1.340433e+03	-6.112630e+01
38	4.018181e+03	-4.700142e+02	5.217452e+03
39	3.383013e+03	1.032428e+03	-2.946104e+03
40	8.273518e+02	8.036315e+02	1.457226e+03
41	-9.200867e+02	-1.642383e+03	7.084858e+02
42	-3.072246e+02	1.484636e+03	-9.590678e+01
43	8.082691e+02	4.951119e+01	-5.712764e+02
44	-4.225939e+03	-4.711883e+03	6.299474e+03
45	1.108456e+03	3.308740e+02	-1.224565e+03
46	1.590295e+03	-1.117055e+04	1.429260e+03
47	5.771208e+02	-2.257299e+02	2.227155e+02
48	-3.591840e+03	3.227845e+03	-3.956076e+02
49	-3.599697e+03	3.259318e+03	1.415200e+03
50	-2.427137e+03	-4.858067e+03	1.319502e+03
51	-7.432310e+02	1.513728e+03	-1.433722e+03
52	4.855940e+02	1.865457e+03	6.523823e+03
53	-3.313539e+03	-4.355167e+03	-7.296314e+00
54	4.145292e+03	-5.286359e+03	4.903133e+03
55	1.283993e+03	3.839018e+01	-6.241956e+01
56	-5.084733e+03	-2.143842e+03	1.557259e+03
57	-4.267473e+03	-9.885513e+03	-3.039276e+03
58	-3.281737e+03	3.861817e+02	-4.118078e+03
59	-7.857667e+02	-4.674234e+02	3.381470e+02
60	6.893085e+03	6.946975e+03	-2.508741e+03
61	-2.680268e+03	1.014935e+04	5.146328e+03
62	-3.764852e+03	1.066385e+03	2.355460e+03
63	-2.363408e+02	1.019534e+03	-7.401782e+02
64	-1.651461e+03	-3.655919e+03	4.077164e+03
65	-2.003106e+03	-6.514374e+03	1.090297e+04
66	-1.534978e+03	2.403423e+03	-1.840036e+03
67	1.536555e+03	-2.196983e+03	5.662761e+03

trajectory 50

atom	VX	VY	VZ
1	-5.474749e+00	-2.546471e+02	5.031421e+01
2	1.432699e+03	-5.674680e+02	-1.096279e+02

3	7.703070e+02	6.688242e+02	7.704391e+02
4	-6.666942e+02	-1.157751e+03	1.333449e+02
5	-7.047776e+01	8.041882e+02	9.436788e+02
6	4.467499e+03	4.511066e+03	-7.399341e+03
7	-2.386936e+03	-7.242709e+02	-3.420652e+03
8	-3.885894e+03	3.229073e+02	3.832345e+03
9	-6.837659e+02	-7.268679e+02	-1.026745e+03
10	-6.846860e+02	2.265428e+02	-5.439613e+02
11	6.514957e+02	1.412514e+03	-2.098009e+03
12	-4.213306e+03	-4.050751e+03	5.477275e+02
13	2.035576e+03	-9.555913e+03	4.103745e+03
14	-9.561529e+02	1.308902e+02	4.755298e+02
15	-1.515650e+03	3.938018e+02	-5.082335e+02
16	1.401174e+03	4.482729e+02	-8.739402e+01
17	9.657049e+01	2.145403e+02	6.597830e+01
18	-1.082890e+02	-3.245432e+02	2.499161e+02
19	-8.811839e+02	-1.513032e+03	-1.596203e+02
20	3.167663e+02	7.401350e+02	-9.274204e+02
21	1.442164e+03	5.551120e+02	4.221222e+02
22	1.795389e+02	-5.842085e+01	1.434563e+03
23	-1.288931e+03	-2.507544e+02	1.055392e+02
24	4.543274e+02	-1.439347e+01	-8.548639e+02
25	8.903191e+02	-1.519014e+02	-1.326657e+02
26	-1.463950e+02	-3.377354e+02	-9.255825e+02
27	2.559173e+03	-5.791976e+02	-1.383230e+01
28	1.274460e+02	9.801292e+02	2.951961e+02
29	-1.388507e+03	-1.254673e+03	1.611857e+02
30	1.416198e+03	-1.891518e+02	5.472418e+02
31	4.061413e+03	4.323746e+03	-1.333831e+03
32	-2.235675e+03	2.821771e+03	2.911824e+02
33	1.959719e+03	3.683261e+03	-3.767652e+03
34	-5.871588e+03	-1.478414e+03	-1.962081e+03
35	-7.171316e+02	6.354901e+00	2.524963e+02
36	6.055262e+03	4.583980e+03	-1.842609e+03
37	6.810348e+02	8.932685e+02	-1.449833e+02
38	7.515703e+03	-1.815234e+03	5.331218e+03
39	2.199933e+03	6.095823e+01	-3.651072e+03
40	-1.676612e+03	4.122579e+02	6.888530e+02
41	1.331637e+02	-8.948346e+02	-1.486921e+03
42	1.922038e+03	-7.069690e+02	7.983623e+02
43	5.551864e+02	4.878559e+02	3.679374e+02
44	3.159341e+03	1.404596e+03	4.120942e+02
45	-2.413112e+03	-5.480739e+01	2.529288e+03
46	-2.603280e+03	3.146223e+03	-2.049008e+03
47	-8.217479e+02	2.180354e+03	4.112999e+01
48	2.295387e+02	-5.163631e+03	1.352887e+03

49	3.008414e+03	2.936729e+03	-6.985966e+03
50	-6.491924e+03	-1.871240e+03	4.246309e+03
51	-6.786724e+02	-4.157910e+00	-1.861664e+02
52	3.016438e+03	-6.055570e+03	-1.680430e+03
53	9.582453e+03	-9.273807e+00	4.887961e+03
54	2.623461e+03	1.333022e+03	-9.720854e+02
55	4.303143e+01	-5.259117e+02	1.706635e+03
56	-2.787230e+02	1.290611e+03	6.116491e+02
57	2.262741e+03	7.160015e+03	-6.988608e+03
58	-9.416303e+03	-4.642241e+03	-3.488135e+02
59	-1.508994e+03	-2.077218e+03	1.655818e+02
60	6.165815e+03	5.652514e+03	-1.603176e+02
61	-2.673365e+02	-1.779447e+03	-1.912537e+03
62	-4.168209e+03	-5.659248e+02	2.823245e+03
63	-1.915470e+03	1.319645e+03	-3.586812e+02
64	9.953238e+03	-4.066553e+03	-1.149442e+03
65	4.519904e+03	3.808104e+02	-2.360799e+03
66	7.510146e+03	7.138391e+02	-4.627235e+03
67	-9.415144e+03	2.021157e+03	-8.098526e+03

Dynamic IRC

atom	VX	VY	VZ
1	-1.593131e+01	-1.073028e+01	2.146056e+00
2	1.698919e+02	2.613897e+02	2.808052e+02
3	1.577983e+01	-3.370571e+01	-1.631003e+01
4	-5.074792e+00	2.168779e+01	-2.524772e-02
5	-5.731233e+00	-3.433690e+00	-2.095561e+00
6	-1.320456e+01	-8.836703e-01	-1.196742e+01
7	-1.671399e+01	1.083127e+01	-1.575458e+01
8	-7.296592e+00	6.387674e+00	-1.020008e+01
9	6.311931e-01	1.747142e+01	-8.735712e+00
10	1.964273e+01	-5.849897e+01	-3.759386e+01
11	2.512148e+01	1.673924e+01	1.739568e+01
12	5.842323e+01	2.964083e+01	5.039445e+01
13	-1.213910e+02	-2.453321e+02	-2.726502e+02
14	3.458938e+00	7.523821e+00	9.392153e+00
15	3.282204e-01	2.827745e+00	3.256956e+00
16	3.231708e+00	4.292113e+00	1.489616e+00
17	-1.287634e+00	-1.464368e+00	-1.792588e+00
18	1.186643e+00	-2.322790e+00	7.574317e-01
19	1.716845e+00	1.817836e+00	-1.514863e-01
20	1.009909e-01	2.752002e+00	1.002335e+01
21	-2.474277e+00	-1.843084e+00	9.089180e-01
22	6.109949e+00	9.089180e-01	-1.767341e-01
23	-1.994570e+00	-1.085652e+00	2.777249e-01
24	-8.836703e-01	-5.806976e-01	1.994570e+00

25	6.109949e+00	8.407492e+00	1.262386e-01
26	5.049544e-01	3.105470e+00	-3.181213e+00
27	1.772138e+02	5.307071e+01	1.476739e+02
28	-7.420306e+01	-3.375620e+01	-3.736663e+00
29	-1.893579e+00	-2.777249e-01	-5.463607e+01
30	-7.028966e+01	4.703651e+01	-7.884864e+01
31	-7.508673e+01	6.407872e+01	-7.407682e+01
32	-9.028586e+01	-3.706366e+01	1.845609e+01
33	-6.326574e+02	-1.306039e+03	-1.502643e+03
34	-5.080094e+02	-4.867003e+02	-1.027608e+03
35	7.826794e-01	-3.352898e+01	-1.656251e+01
36	-1.363377e+01	-2.497000e+01	-1.631003e+01
37	-4.562263e+01	7.271344e+00	-9.341657e+00
38	-1.709271e+01	-2.385910e+01	-1.593131e+01
39	-1.989521e+01	-1.666350e+01	-1.009909e+00
40	6.311931e+00	-8.155014e+00	-8.811455e+00
41	9.922355e+00	-9.846612e-01	-3.837654e+00
42	8.937694e+00	-2.474277e+00	7.448078e+00
43	8.382244e+00	9.594134e-01	-2.247047e+00
44	1.161395e+00	-9.493144e+00	-1.742093e+01
45	9.240666e+00	-6.564408e+00	2.297543e+00
46	4.544590e-01	-7.422830e+00	-2.449029e+00
47	1.310357e+01	-4.645581e+00	-3.307452e+00
48	6.564408e+00	-3.054974e+00	-4.367856e+00
49	6.892628e+00	-7.094610e+00	-4.393104e+00
50	1.163920e+01	-6.892628e+00	-5.504003e+00
51	-4.645581e+00	1.211891e+00	3.484186e+00
52	-5.125288e+00	4.670829e+00	5.276774e+00
53	-8.180262e+00	2.095561e+00	9.998098e+00
54	-5.377765e+00	1.287634e+00	3.686167e+00
55	-1.716845e+00	-3.458938e+00	1.211891e+00
56	1.615854e+00	-5.781728e+00	3.004479e+00
57	6.564408e-01	-1.338129e+00	-5.049544e-02
58	3.433690e+00	-1.146247e+01	1.489616e+00
59	-9.341657e-01	1.262386e-01	8.079271e-01
60	-5.302022e-01	-4.292113e-01	1.363377e+00
61	-3.282204e-01	-9.089180e-01	-5.049544e-02
62	-5.806976e-01	1.439120e+00	1.666350e+00
63	-9.341657e-01	-1.161395e+00	7.574317e-02
64	5.049544e-01	2.524772e-02	-1.161395e+00
65	1.262386e+00	-9.594134e-01	1.716845e+00
66	-1.136148e+00	-5.302022e-01	-1.110900e+00
67	-2.353088e+01	-3.029727e-01	-5.425736e+01