Contents

	0.1 test	Ü
1	Milestone 4	1
	1.1 Lenard Jones Derivation	1
	1.2 Different Time Steps	1
	1.3 Simulation Snapshots	1

0.1 test

this is just to test weather or not i did the setup correctly $\ddot{a}\ddot{u}\beta$

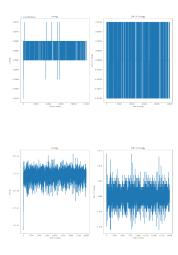
Chapter 1

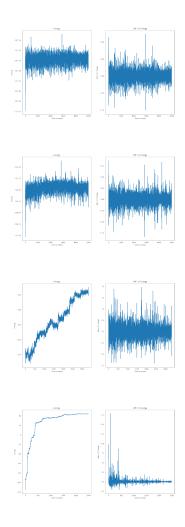
Milestone 4

1.1 Lenard Jones Derivation

```
import sympy as sp
import warnings
warnings.filterwarnings('ignore')
sp.init_printing()
eps = sp.Symbol("e")
sig = sp.Symbol("s")
rad = sp.Symbol("r")
energyRad = 4 * eps * ((sig/rad)**12 - (sig/rad)**6)
energyRad.diff(rad)
[4]:
4e\left(\frac{6s^6}{7} - \frac{12s^{12}}{13}\right)
```

1.2 Different Time Steps





1.3 Simulation Snapshots



