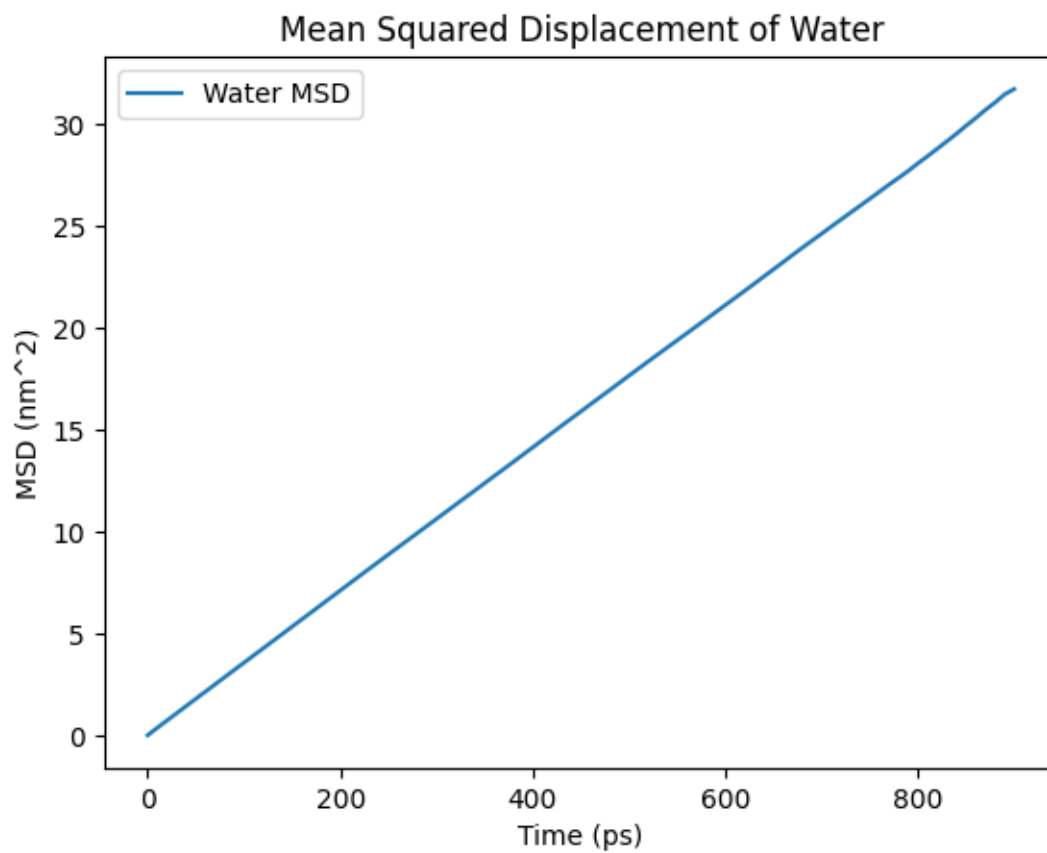# MSD_water

October 3, 2024

```python
[1]: import matplotlib.pyplot as plt
     import numpy as np

     #   MSD
     data = np.loadtxt("msd_water.xvg", comments=["@", "#"])
     time = data[:, 0]   #   (ps)
     msd = data[:, 1]    # MSD (nm^2)

     #   MSD
     plt.plot(time, msd, label='Water MSD')
     plt.xlabel('Time (ps)')
     plt.ylabel('MSD (nm^2)')
     plt.title('Mean Squared Displacement of Water')
     plt.legend()
     plt.savefig('msd_water_plot.png')
     plt.show()
```

Mean Squared Displacement of Water

[ ]: