Tem_Time

September 26, 2024

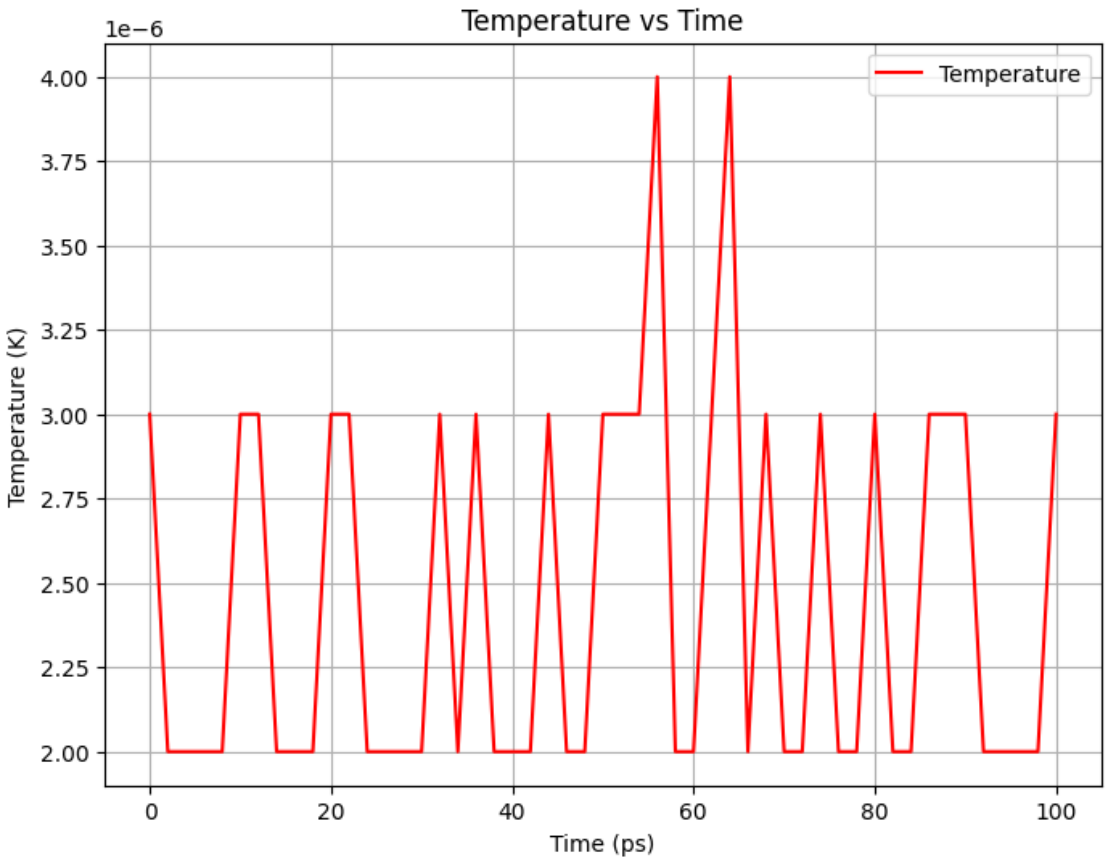
[2]:
```
import numpy as np
import matplotlib.pyplot as plt

def read_xvg(filename):
    data = []
    with open(filename, 'r') as file:
        for line in file:
            if not line.startswith(('#', '@')):
                data.append([float(x) for x in line.split()])
    return np.array(data)

data = read_xvg('./temperature.xvg')

time = data[:, 0]
temperature = data[:, 1]

plt.figure(figsize=(8, 6))
plt.plot(time, temperature, label='Temperature', color='r')
plt.xlabel('Time (ps)')
plt.ylabel('Temperature (K)')
plt.title('Temperature vs Time')
plt.grid(True)
plt.legend()
plt.show()
```


Temperature vs Time
1e−6
Temperature
4.00
3.75
3.50
3.25
3.00
2.75
2.50
2.25
2.00
Temperature (K)
0
20
40
60
80
100
Time (ps)

[ ]: