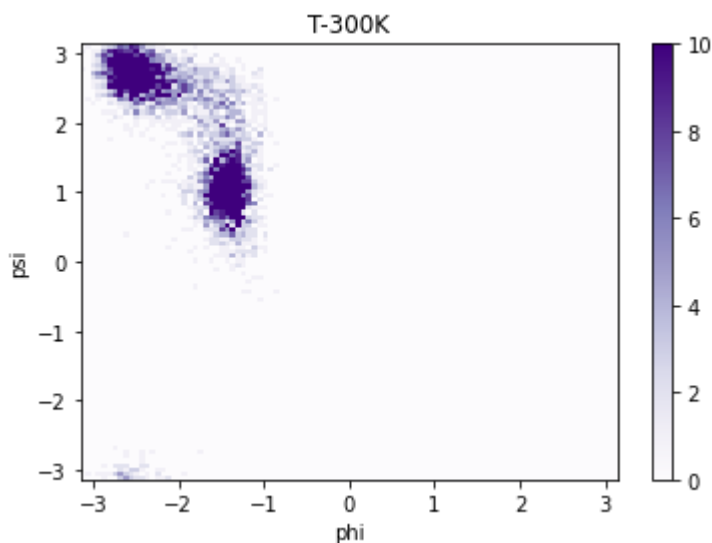


```
In [6]: #Import modules
import mdtraj as md
import matplotlib.pyplot as plt
import numpy as np

#Load trajectory file
traj = md.load('adp_exchange4temps.trr', top='adp_exchange4temps.gro')

#Compute phi and psi dihedral angles for each frame
phi = md.compute_phi(traj)
psi = md.compute_psi(traj)

#Create a 2d histogram of psi and phi angles and set maximum free energy to 10 kT
plt.hist2d(phi[1][:,0], psi[1][:,0], bins=100, cmap='Purples', range = [[-np.pi, np.pi]
plt.xlabel('phi')
plt.ylabel('psi')
plt.title("T-300K")
plt.colorbar()
plt.show()
```



```
In [ ]:
```