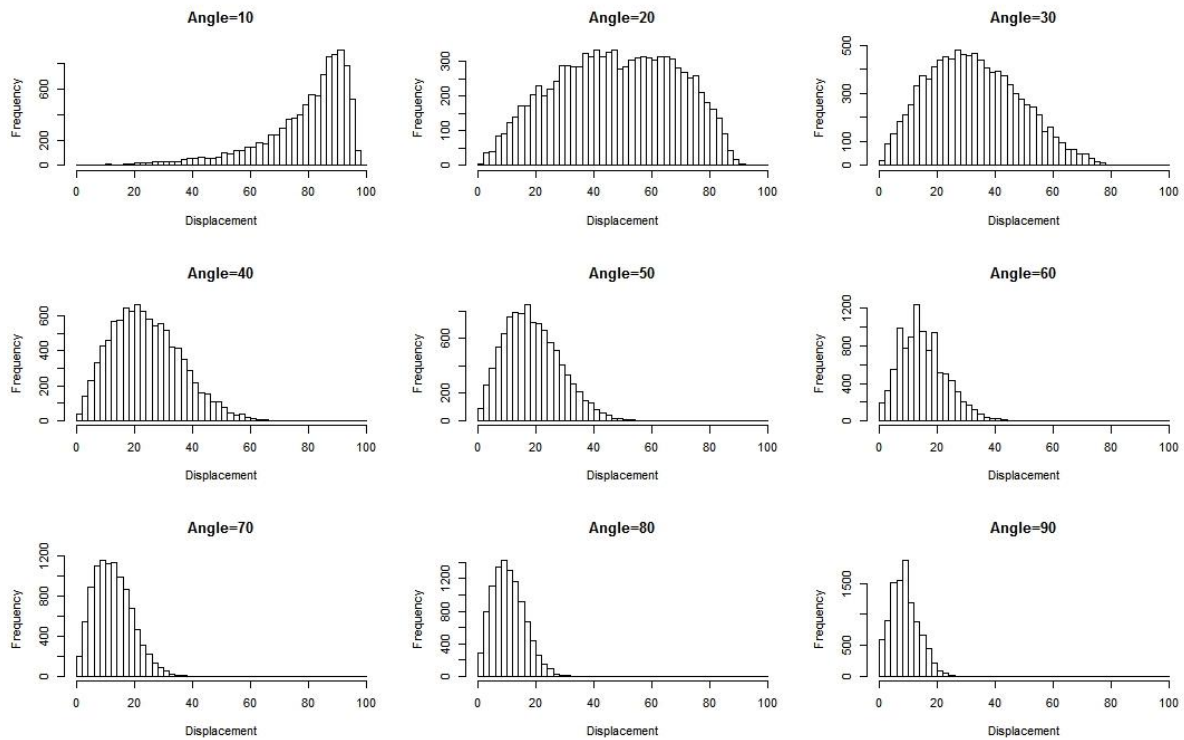# FREELY ROTATING CHAIN

Above is a collection of plots of frequency of occurrence of displacements from origin drawn for various fixed angles.

Code has been uploaded to

https://github.com/koustubh-dwivedy/Statistical_Mechanics_of_Semiflexible_Filaments

Conclusion->

These look similar to Boltzmann distributions (considering change in aspect ratio of graphs) as predicted by the partition function.