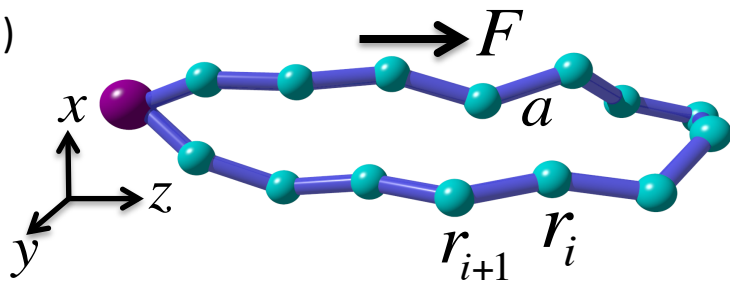





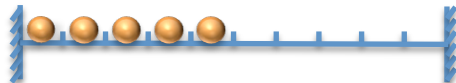
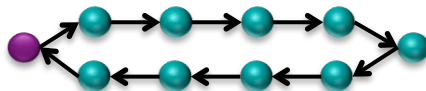
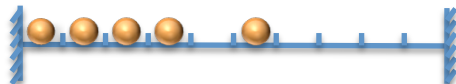
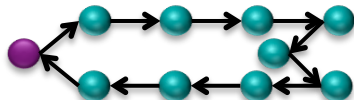
(a)



-  Pinned point
-  Polymer monomer
-  Particle

(b)

Ground state:

1st Excited state:2nd Excited state: