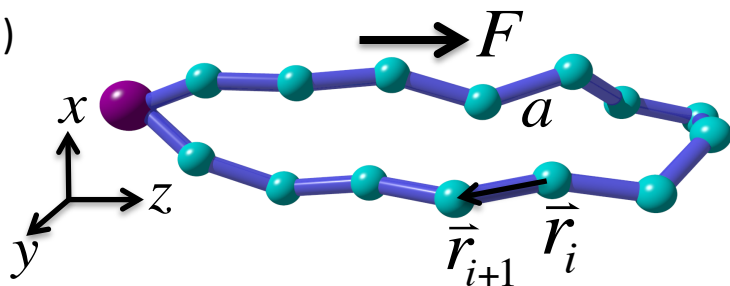





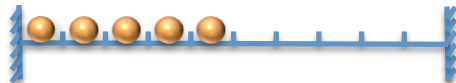
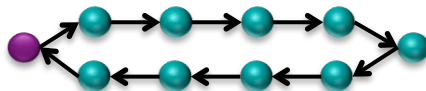
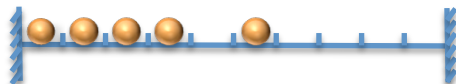
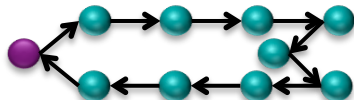
(a)



-  Pinned point
-  Polymer monomer
-  Particle

(b)

Ground state:

1<sup>st</sup> Excited state:2<sup>nd</sup> Excited state: