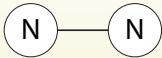
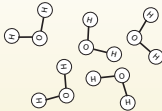


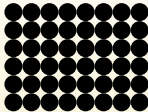
## Ideal Gas



## Bulk Liquid



## Macroscopic Solid



No intermolecular interactions  
Only sum over states  
of individual molecule

Need all inter/intramolecular  
states, MC/MD to get thermo-  
dynamic quantities

No rotation or translation.  
Sum over vibrational modes