Chapter 2 - 2 2nd Law -> Entropy

Combinatorics

Coin flips -> 5 coins

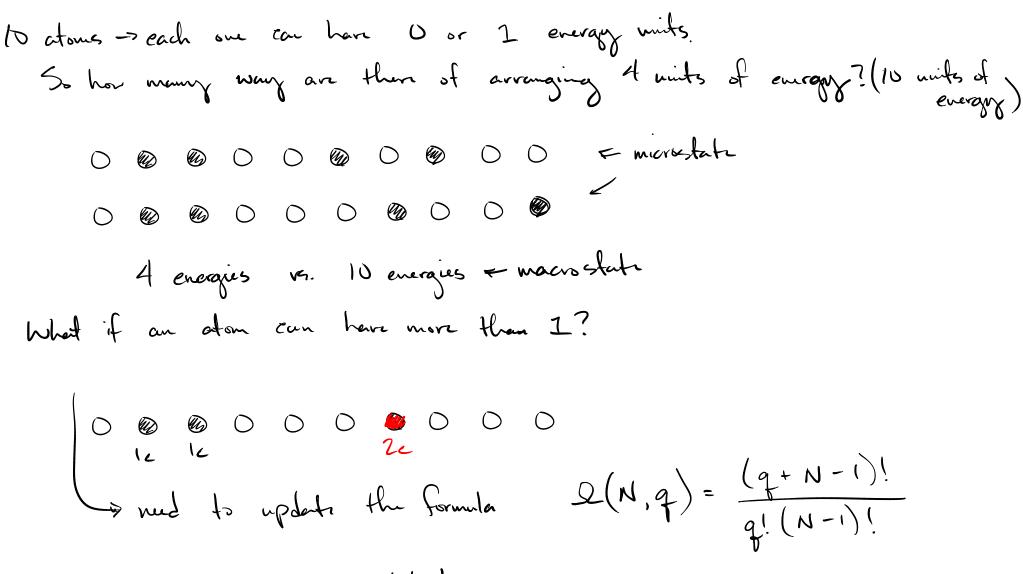
H H T T H -> microstate

T H H H H

How many microstates are in a mecrostate?

Co multiplicity
$$\Omega(n) = \frac{5!}{n!(5-n)!} \leftarrow \text{combinations}$$
 $\frac{1}{3!2!}$
 $\Omega(N,n) = \frac{N!}{n!(N-n)!} \leftarrow \binom{N}{n}$

I of heads



This idea of treating a solid like this is known as an Einstein solid

