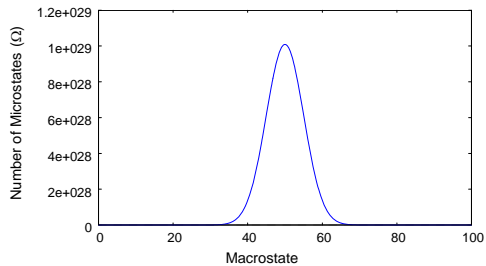


Most likely macrostate the system will find itself in is the one with the maximum number of microstates.

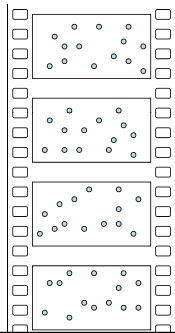


Most likely macrostate the system will find itself in is the one with the maximum number of microstates.

E_1	E_2
$\Omega_1(E_1)$	$\Omega_2(E_2)$

$$\frac{d \ln \Omega_1}{dE_1} = \frac{d \ln \Omega_2}{dE_2} = \frac{1}{k_B T}$$

Ensemble: All the parts of a thing taken together, so that each part is considered only in relation to the whole.



Microcanonical ensemble: An ensemble of snapshots of a system with the same N, V, and E

Canonical ensemble: An ensemble of snapshots of a system with the same N, V, and T