

## CHAPTER OVERVIEW

### 3: The Microcanonical Ensemble

The microcanonical ensemble is built upon the so called postulate of equal *a priori* probabilities:

**Postulate of equal a priori probabilities:** For an isolated macroscopic system in equilibrium, all microscopic states corresponding to the same set of macroscopic observables are equally probable.

[3.1: Basic Thermodynamics](#)

[3.2: The Partition Function](#)

[3.3: The Classical Virial Theorem \(Microcanonical Derivation\)](#)

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