

Chapter 1

Statistical Mechanics

Maxwell - Boltzmann

$$\frac{dN}{d^3q d^3p} = f(\vec{x}, \vec{p}) = \frac{N}{V} \frac{1}{(2\pi m k_B T)^{3/2}} \exp\left(\frac{-(\vec{p} - \vec{p}_0)^2}{2m k_B T}\right) [x \in V] \quad (1.1)$$