

$$\int_{d\mathbf{1}}^{x|y} \exp \frac{-1}{\hbar} \int_0^{\hbar \frac{kT}{kT}} \left(\frac{m}{2} \mathbf{1} + {}^t \mathbf{V} \right) \text{ density matrix}$$

$$Z(T) = \int_{dx} \int_{d\mathbf{1}}^{x|x} \exp \frac{-1}{\hbar} \int_0^{\hbar \frac{kT}{kT}} \left(\frac{m}{2} \mathbf{1} + {}^t \mathbf{V} \right) \text{ partition function temperature T}$$