

# LAWS OF ATOMIC AND MOLECULAR PHYSICS

The laws of atomic and molecular physics define the principles governing the behavior and interactions of atoms and molecules, crucial for understanding chemical and physical properties.

$$\frac{1}{\lambda} = R_h \left( \frac{1}{n_1^2} - \frac{1}{n_2^2} \right)$$

$\lambda$  = wavelength of the emitted light  
 $R$  = Rydberg constant  
 $n_1$  and  $n_2$  = principal quantum numbers of the lower and upper energy levels.

**Rydberg Formula**

$$\frac{N_i N_e}{N_{i-1}} = \frac{(2\pi m_e kT)^{3/2}}{h^3} \frac{2Z_i}{Z_{i-1}} e^{-\frac{I_i}{kT}}$$

$N_i$  is the number of atoms  
 $N_e$  is the number of free electrons  
 $Z_i$  is the partition function  
 $m_e$  is the electron mass  
 $k$  is the Boltzmann constant

**Saha Ionization Equation**

# Atomic Molecular Physics

**David Kirk**



## **Atomic Molecular Physics:**

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