Electrostatic Force Balances

- Electrostatic Force Balances is a pivotal physics topic addressing atomic and subatomic forces
- Coulomb's Law, which describes the force between charged particles, is central to this subject
- Atoms are united by electrostatic forces, with electrons orbiting the nucleus due to these attractions
- In daily life, electrostatic forces cause phenomena like static shocks, while in technology, they're vital in devices like photocopiers and inkjet printers





Einstein & Bohr's Theories Combined (The Bohr Radius)

 In Bohr model, the centripetal force of the electron is offset by the electrostatic force.

$$\frac{F_c}{r} = \frac{F_e}{r^2}$$
 Coulomb's Law
$$\frac{mv^2}{r} = \frac{kq^2}{r^2}$$
 (1)

 Bohr said that the angular momentum of the electron is quantized as follows.

$$L_n = m v_n r_n = nh/2\pi \quad (2)$$



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Electricity And Forces

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