

$$V(r) = - \frac{1}{4\pi\epsilon\epsilon_0} \frac{Ze^2}{r} \quad \left(\begin{array}{l} \text{Potential} \\ \text{Energy} \end{array} \right)$$

$$T = \frac{1}{2} m^* v^2 \quad \left(\begin{array}{l} \text{Kinetic} \\ \text{Energy} \end{array} \right)$$

$$e = 1.6 \times 10^{-19} \text{ C}$$

$$m^* \approx m_e/10 \quad \left(\begin{array}{l} \text{10 times lighter electron!} \end{array} \right)$$

$$\epsilon \approx 10 \quad \left(\begin{array}{l} \epsilon = 1 \text{ in vacuum} \end{array} \right)$$

$$\left(\begin{array}{l} r_n = ? \\ E_n = ? \end{array} \right)$$