

Formula sheet

Atom

Distance of closest approach.

$$r_0 = \frac{4kze^2}{mv^2}$$

Impact parameter (b)

$$b = \frac{1}{4\pi\epsilon_0} \frac{ze^2 \cot(\theta/2)}{K.E}$$

Electron orbit

$$K.E = \frac{ze^2}{8\pi\epsilon_0 r}$$

$$U/P.E = -\frac{1}{4\pi\epsilon_0} \frac{ze^2}{r}$$

(E_T) Total Energy $T.E = -\frac{ze^2}{8\pi\epsilon_0 r}$

$$\boxed{T.E = -K.E} \quad \boxed{U = 2E_T} \quad \boxed{U = -2K.E}$$

Angular momentum of electron

$$\boxed{L = mv_n r_n = \frac{n\hbar}{2\pi}}$$

$$n = 1, 2, 3, \dots$$

Energy

$$\boxed{\Delta E = E_2 - E_1 = h\nu}$$

Atomic Physics 12

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