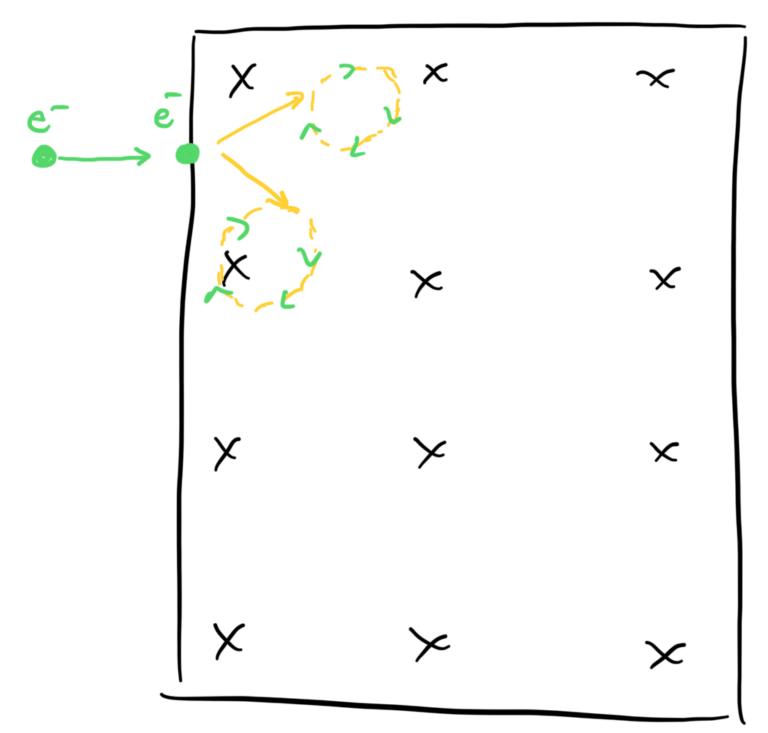
B



$$\gamma' = \frac{\gamma' \beta'}{g' \beta'} \Rightarrow \gamma_1 = \frac{\gamma_1 |g| \beta}{m}$$

$$\gamma_2 = \frac{m v_2}{191B} \rightarrow \gamma_2 = \frac{\gamma_2 |8|B}{m}$$

Elastic -> linetic energy 13 conserved.

$$1/2 = 4m^2$$

$$\frac{1}{2} \sqrt{1} \sqrt{1} + \frac{1}{2} \sqrt{1} \sqrt{2} + \frac{1}{2} \sqrt{1} \sqrt{2} + \frac{1}{2} \sqrt{1} \sqrt{2} + \frac{1}{2} \sqrt{1} \sqrt{2} + \frac{1}{2} \sqrt{2} + \frac{1}{2} \sqrt{2} + \frac{1}{2} \sqrt{2} \sqrt{2} + \frac{1}{2} \sqrt{2} \sqrt{2} + \frac{1}{2} \sqrt{2} + \frac{1}$$

$$\gamma_1 = 0.01 \text{ m}$$
 $\rightarrow v_1 = 1.124 \times 10^8 \text{ m/s}$
 $\gamma_2 = 0.019 \text{ m}$ $\rightarrow v_2 = 2.124 \times 10^8 \text{ m/s}$

$$E_{i} = \frac{1}{2} \text{mv}_{i}^{2} = 2.63 \times 10^{-14} \text{ J}$$

$$E_{i} = \frac{2.63 \times 10^{-14} \text{ J}}{1.6 \times 10^{-19} \text{ J/eU}}$$