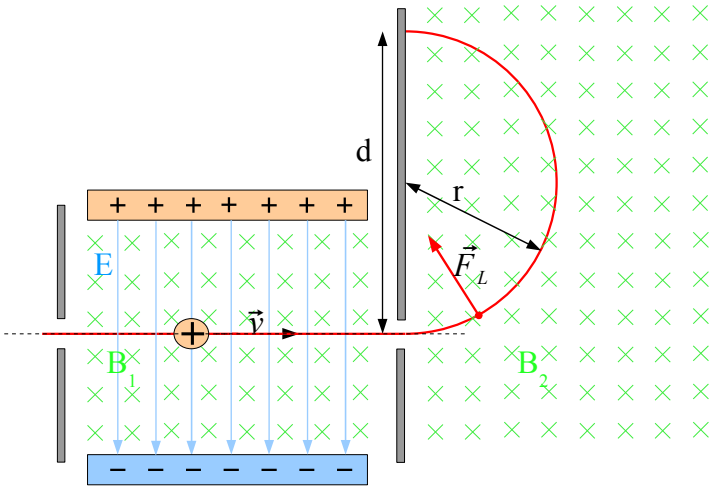

$$F_L = F_Z$$

$$q \cdot v \cdot B_2 = m \cdot \frac{v^2}{r}$$

$$\frac{q}{m} = \frac{v}{B_2 \cdot r} \quad \text{mit} \quad v = \frac{E}{B_1}$$

$$\frac{q}{m} = \frac{E}{B_1 \cdot B_2 \cdot r}$$