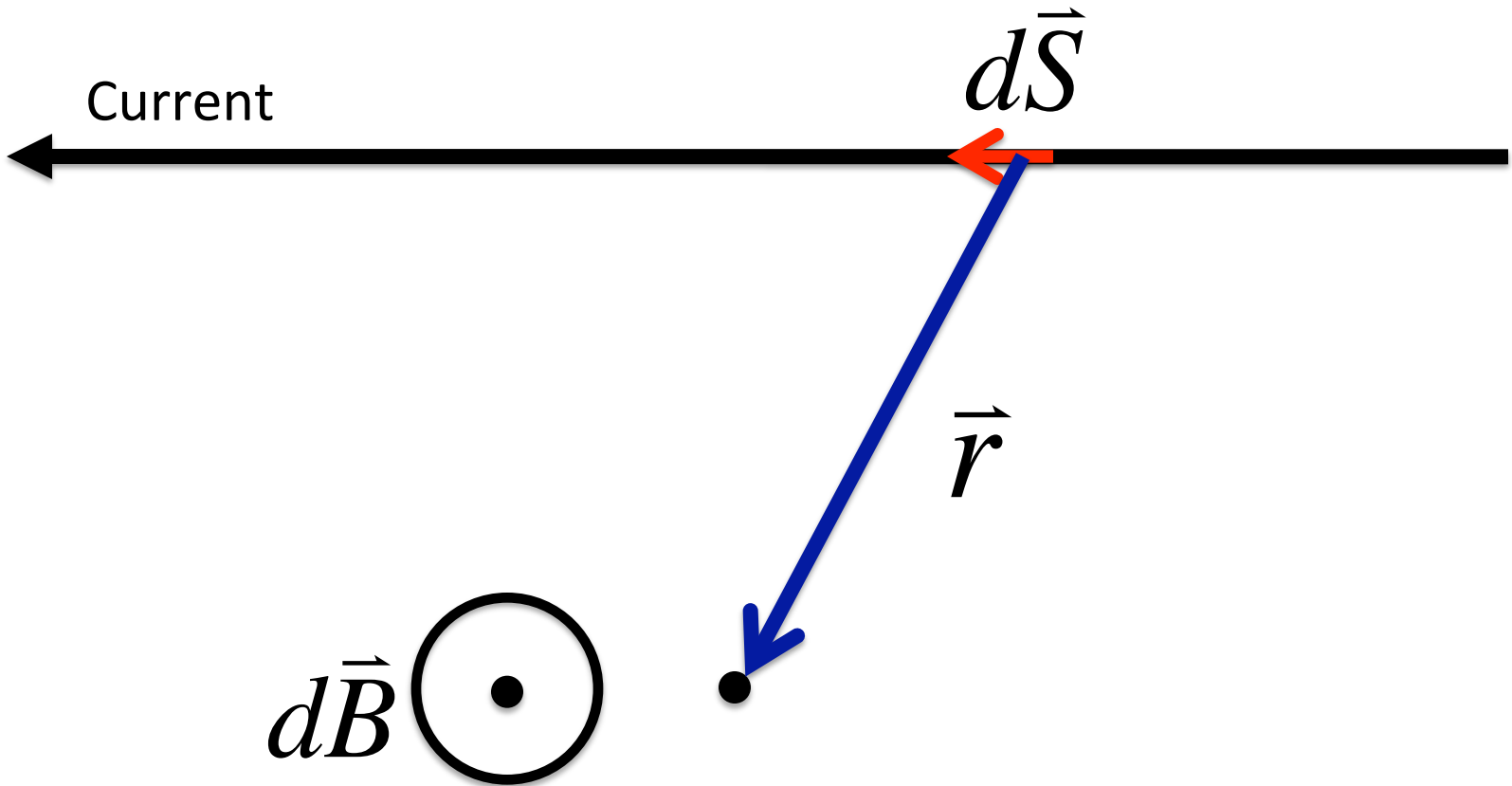


$$\vec{F}_B = q\vec{v} \times \vec{B}$$

$$\vec{F}_B = I\vec{L} \times \vec{B}$$

Force between two wires

Biot-Savart Law



$$d\vec{B} = \frac{\mu_0 I}{4\pi} \frac{d\vec{S} \times \hat{r}}{r^2}$$

$$\mu_0 = 4\pi \times 10^{-7} T \cdot m / A$$

Infinite straight wire example