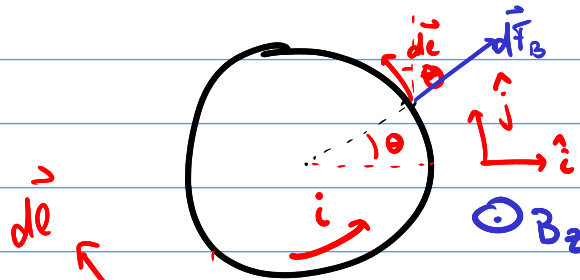


$$B_z = \frac{B_0 L}{z}$$

$$B_r = \frac{B_0 L}{z^2} r$$

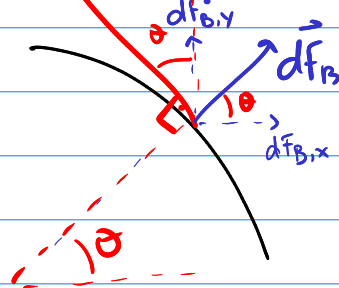
Desde arriba



$$d\vec{F}_B = i d\vec{l} \times \vec{B}_z$$

↳ sobre un pedacito de la espira

Zoom



Componentes

$$dF_{B,x} = \cos \theta dF_B$$

$$dF_{B,y} = \sin \theta dF_B$$

$$dF_B = |d\vec{F}_B| = \overbrace{dl}^{de} B_z(a)$$

$$F_{B,x} = \int_{\text{anillo}} dF_{B,x} = \int_0^{2\pi} \cos \theta \frac{ia B_0 L}{z} d\theta = \frac{ia B_0 L}{z} \int_0^{2\pi} \cos \theta d\theta = 0$$

Lo mismo...

$$F_{B,y} = \frac{ia B_0 L}{z} \int_0^{2\pi} \sin \theta d\theta = 0$$