Stationary reference frame

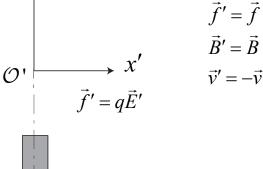
y

 $\vec{f} = q \left( \vec{E} + \vec{v} \times \vec{B} \right)$  $\vec{E} = \vec{E}' - \vec{v} \times \vec{B}$ 

 $\bigcirc$   $-B^M \hat{z}$ 

 $\begin{matrix} reference\ frame \\ & \\ & \\ & \\ \end{matrix} \textbf{y'}$ 

Solely to the moving coil



for  $v \ll c$  we can write