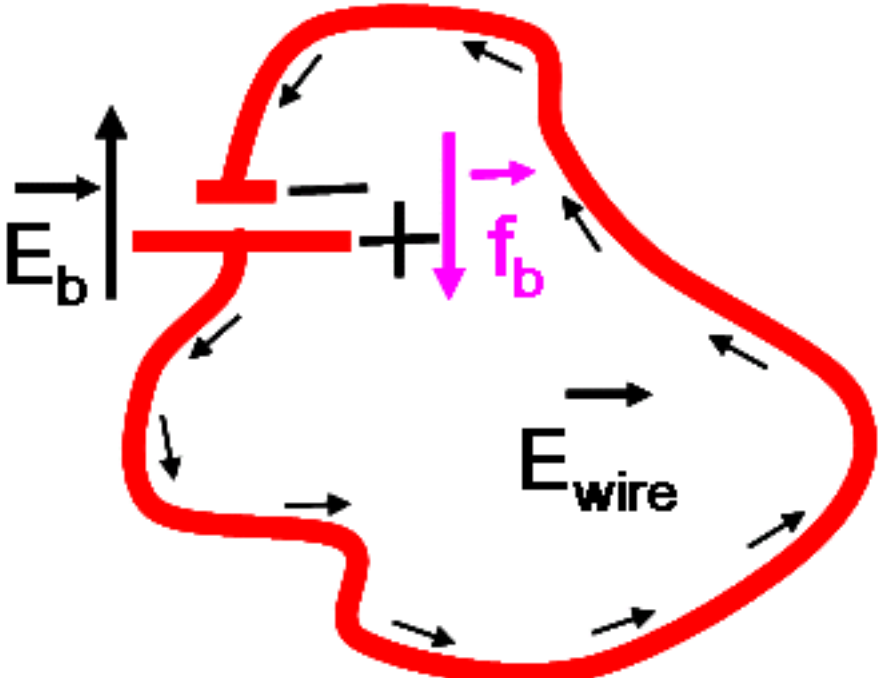
$\vec{E}_b$
$\vec{f}_b$
$\vec{E}_{wire}$