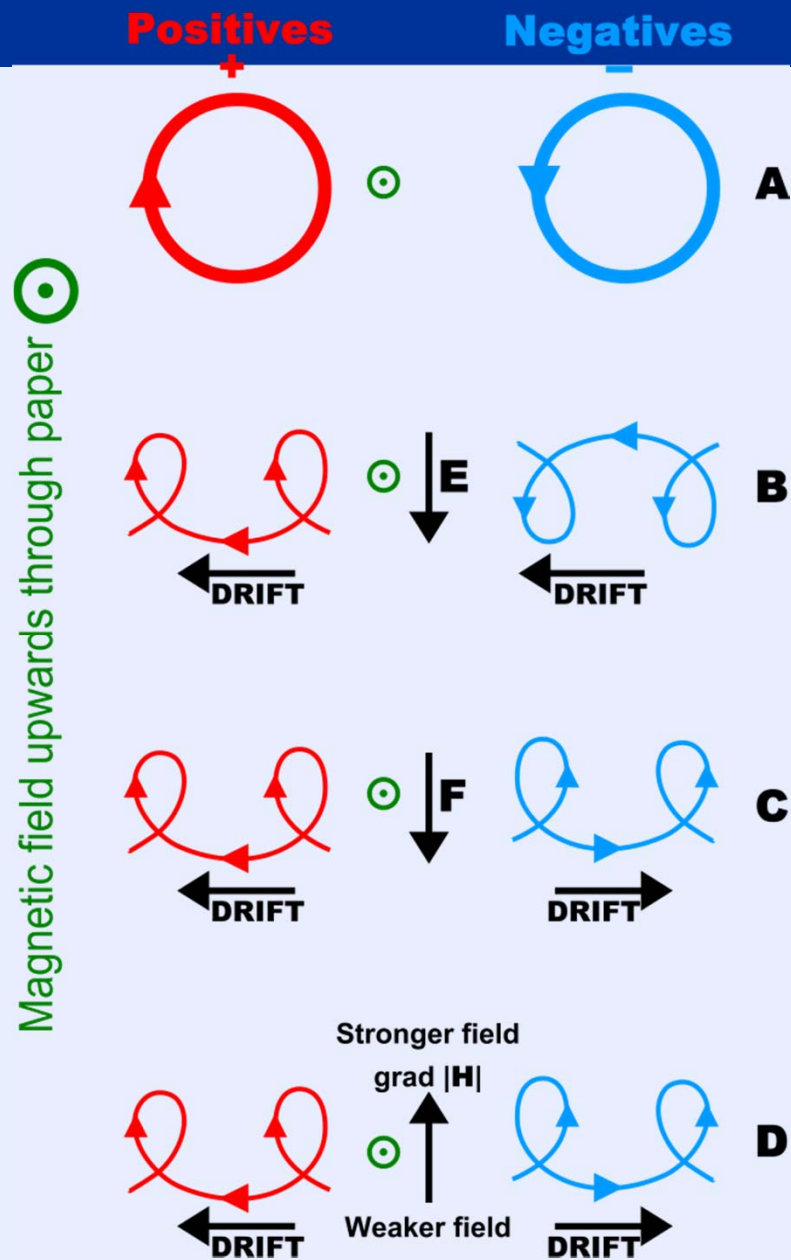


Lecture 15

Charged Particle Dynamics in EM fields



drifts

$$\vec{v}_E = \frac{\vec{E} \times \vec{B}}{B^2}$$

$$\vec{v}_f = \frac{1}{q} \frac{\vec{F} \times \vec{B}}{B^2}.$$

$$\vec{v}_{\nabla B} = \frac{K_{\perp}}{qB} \frac{\vec{B} \times \nabla B}{B^2}$$