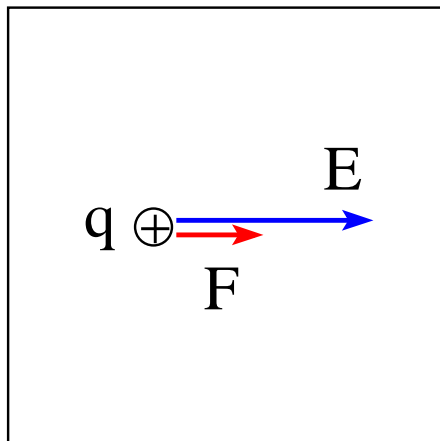## Electric Force

- $\vec{F} = q\vec{E}$

- electric force is parallel to electric field

- SI unit of E: 1N/C=1V/m

Magnetic Force

- $\vec{F} = q\vec{v} \times \vec{B}, \quad F = qvB\sin\phi$

- magnetic force is perpendicular to magnetic field

- SI unit of B: 1Ns/Cm=1T (Tesla)

- 1T=10^4G (Gauss)