

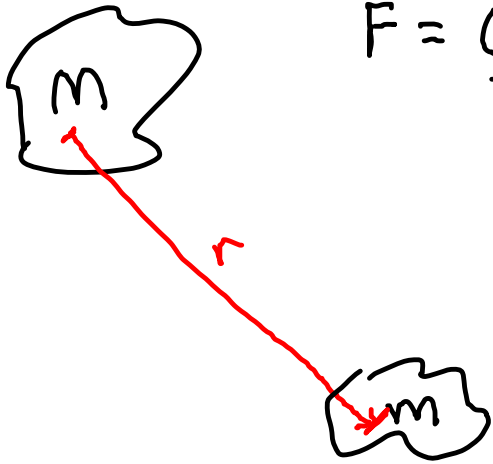
Physics 102 - February 10, 2014

■ Posting writings RANKING comments?

Last
Time

relativity

Gravitation



$$F = \frac{GMm}{r^2}$$

Electromagnetism

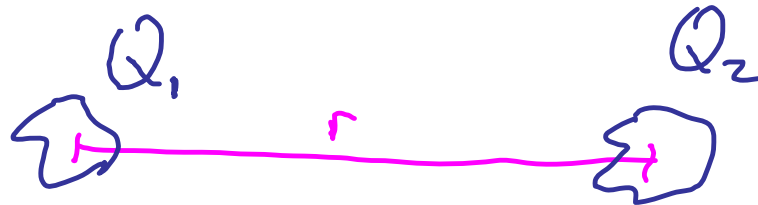
Maxwell

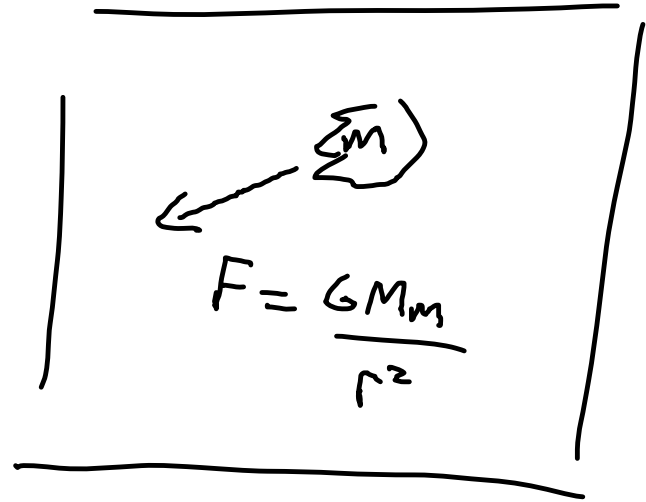
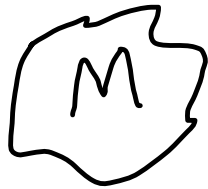
Electrostatics

Magnetism

Coulomb's law

$$F = k \frac{Q_1 Q_2}{r^2}$$





↙ gravitational field
 $g = \frac{GM}{r^2}$

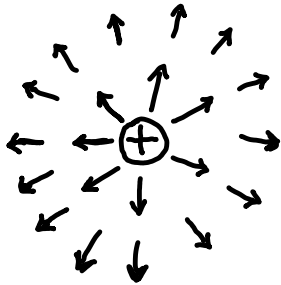
→



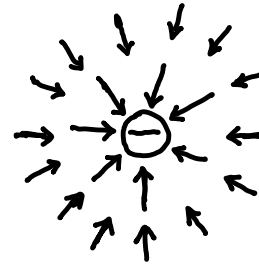


Electrostatics

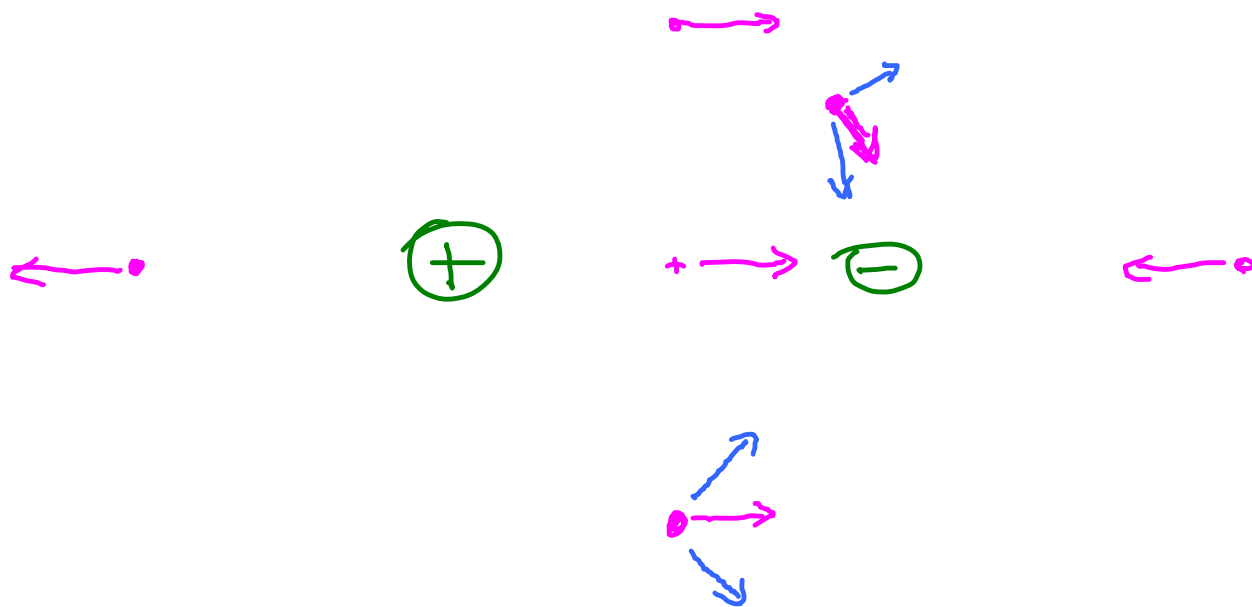
⊕ test charge

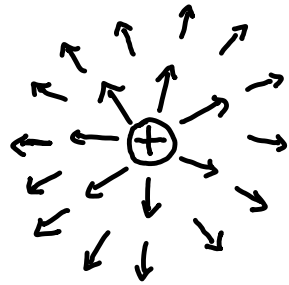


Electric field
surrounding a
positively charged
particle

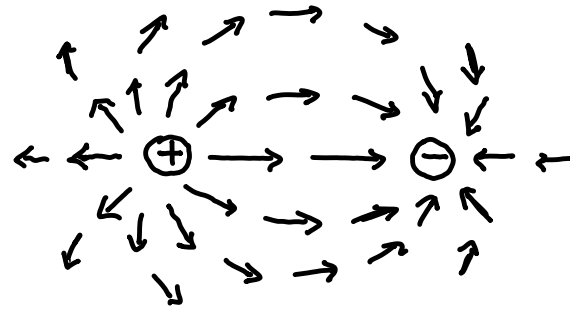


Electric field
surrounding a
negatively charged
particle



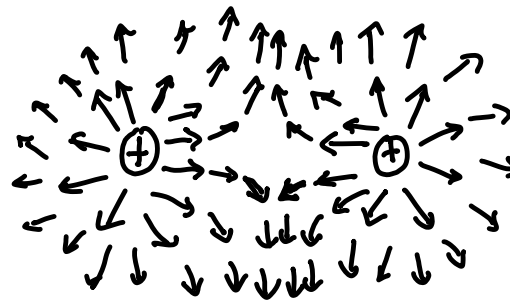


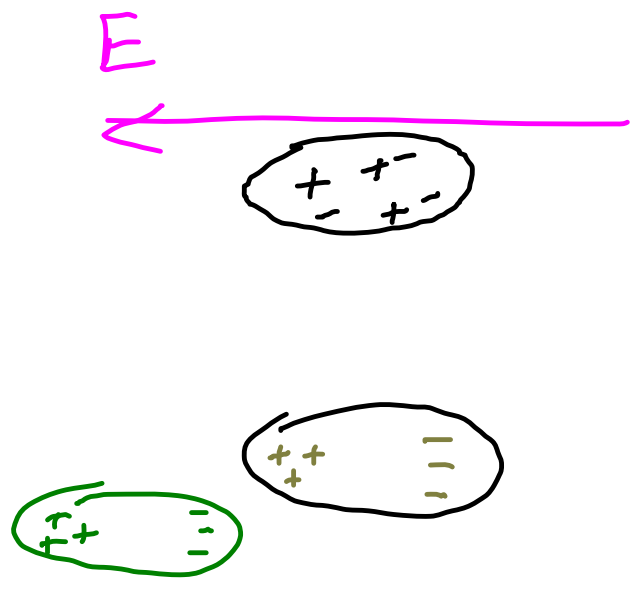
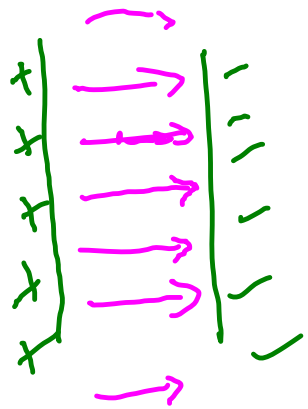
Electric field
around one
charged particle



Electric field around two charges
of opposite sign

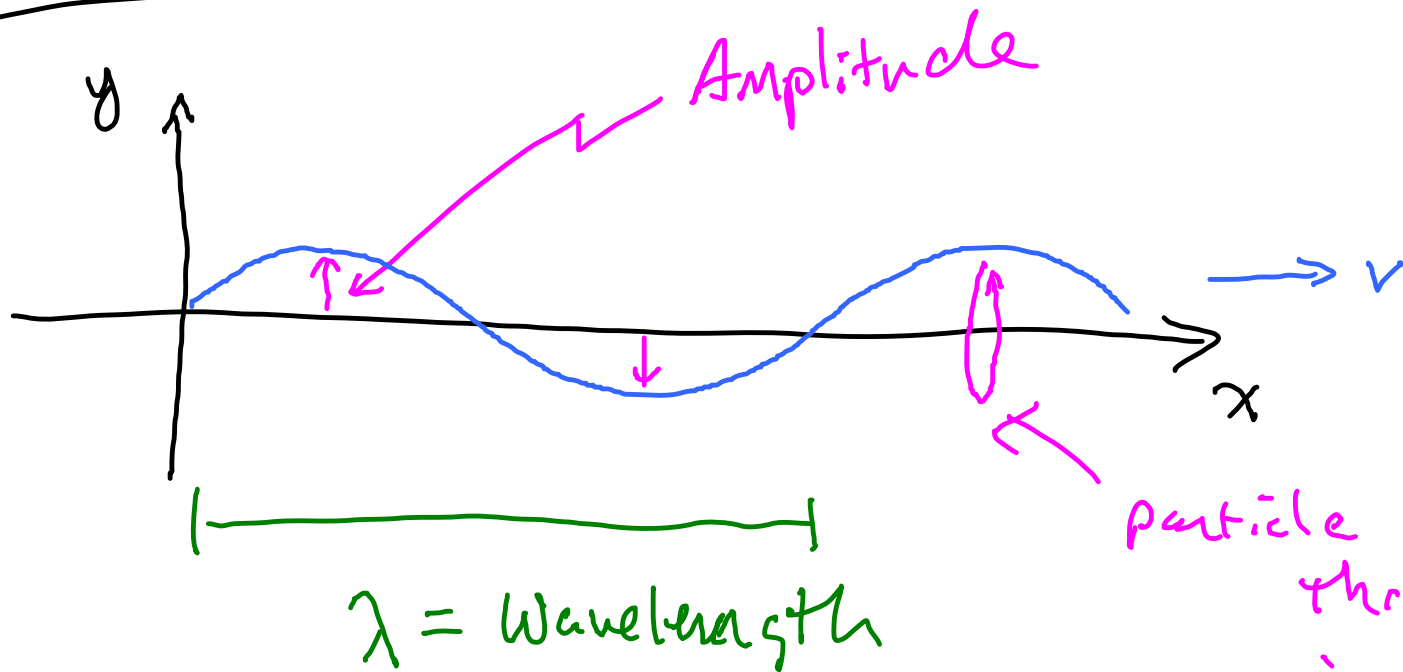
Electric field around two
charges of the same sign





dipole

Waves



particle goes thru this motion in 1 period T

define frequency = $\frac{1}{T} = f$ (sound) v (light)