

Tks: Kris & Gabriel! :)

4th edition

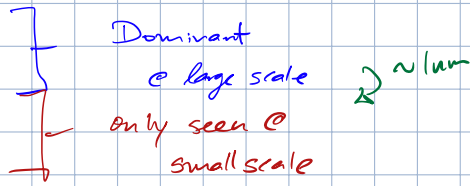
4 fundamental forces

gravitational forces

EM forces

Weak Force

Strong force



unification: describing 2 things as same

Einstein: combine EM with Gravity \rightarrow failed

nuclear energy \gg atomic energy

"at a deeper level, nothing is a constant"

Particle Accelerators: pretty fast

battery

qE

magnets

$q \vec{v} \times \vec{B}$

move trajectory

Stationary charges

$$\frac{\partial E}{\partial t} = 0$$

Stationary currents

$$\frac{\partial B}{\partial t} = 0$$

"why is that?"

"it's the nature"