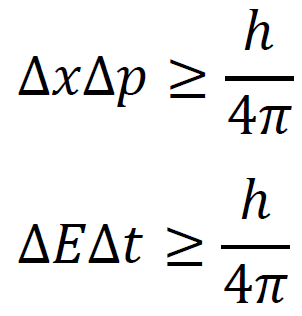
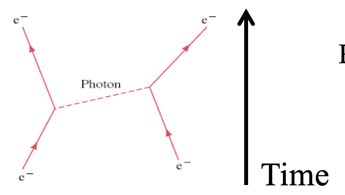
**Noteguide for QED and Types of Particles - Video 32B Name**

Quantum Electrodynamics (QED) – Richard Feynman

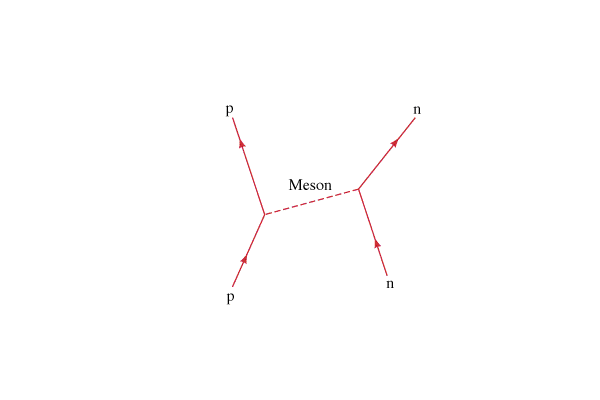
Forces are mediated by virtual particles

How QED Explains:

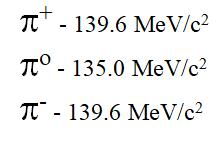
What charge actually is

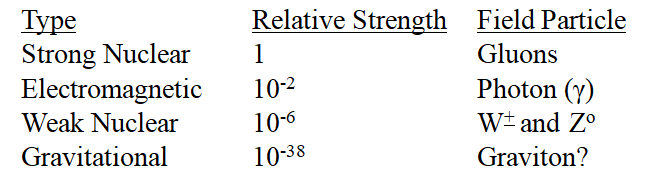
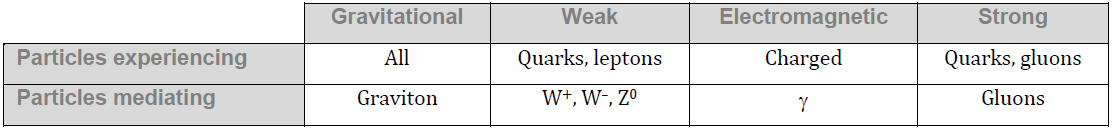
Force dropping off over distance

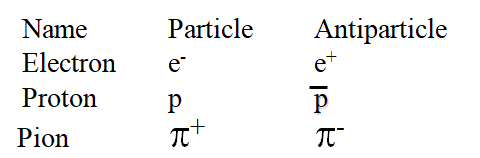
How accelerating a charge causes it to radiate actual photons



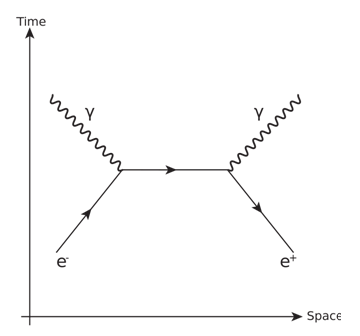
The Yukawa Particle:



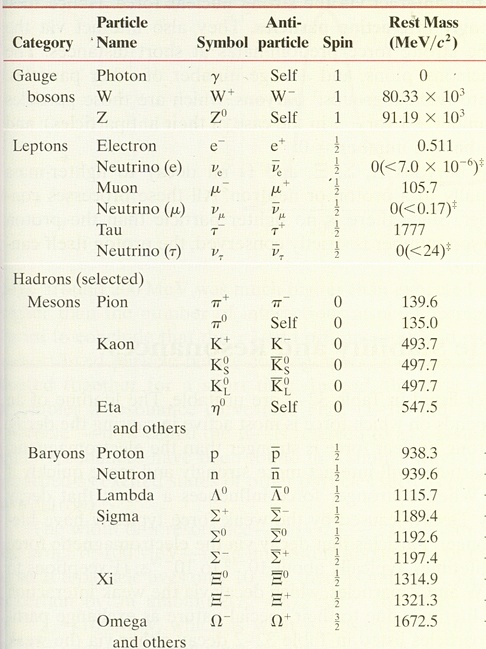
 



Annihilation:



(Write down what the axes mean, and why the positron is going backwards in time)



**Bosons (Integer spin)**

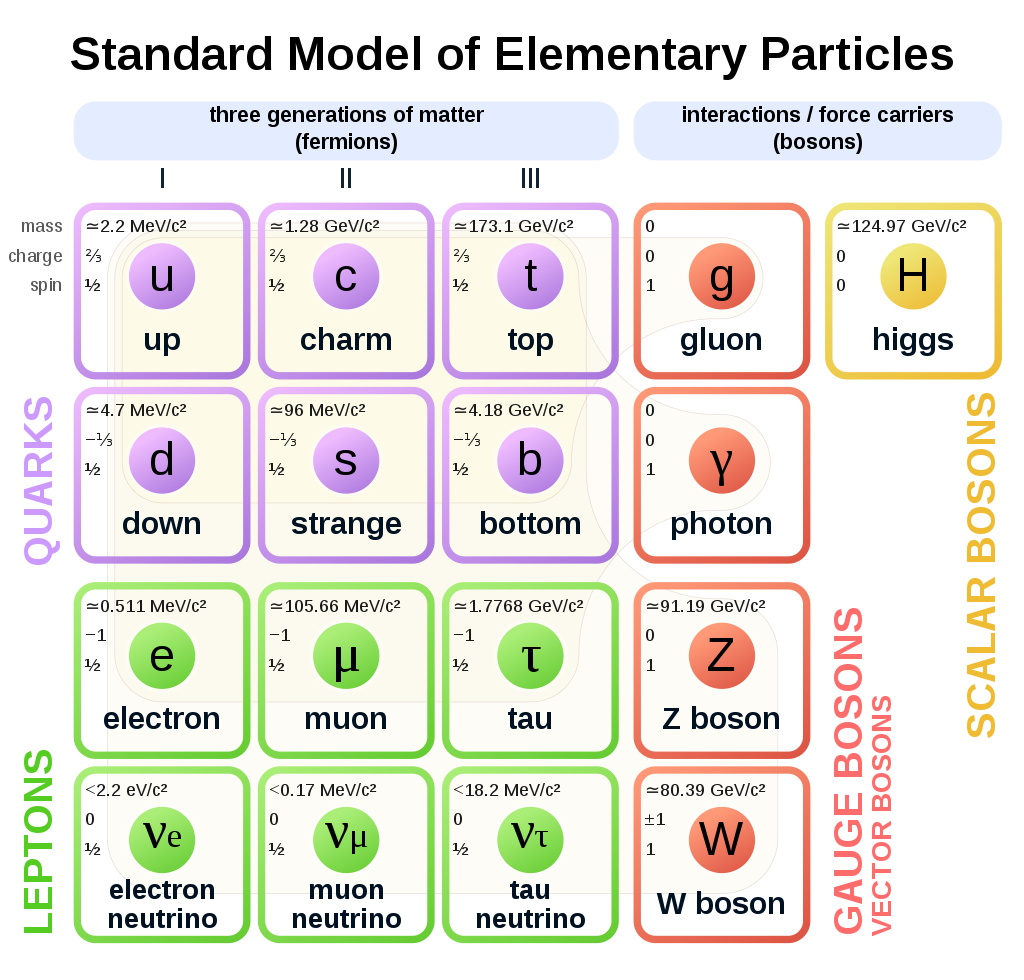
Gauge Bosons (Spin 1)

Scalar Boson (Spin 0)

Mesons (Even # of Spin ½)

**Fermions (Non integer Spin or Spin 1/2)**

Leptons



Bosons

Quarks