Source: [KBhPHYS201QuantumWorldBookNotesIndex]

1 | Meet the Leptons

- · There are three families of subatomic particles
 - · Flavor 1: the electron and it's nuetrino
 - · Flavor 2: the Muon and it's nuetrino
 - Flavor 3: the the tau lepton and it's nuetrino
- · Leptons carry one-half unit of spin and are either neutral or have 1 negative charge
- For every lepton there's an anti-lepton with an opposite unit of charge and the same mass
- · Leptons have no known size and in all theories describing them are point particles

1.1 | Electrons

- · Electrons are Leptons
- · Has an opposite which is the positron
- · Effectively launched particle physics as we know it
- · Is beta radiation
- Equations to bridge relativity and quantum mechanics in order to describe the electron predicted 1/2 spin and also anti-matter
 - Some particles are their own anti-particles

•