8/27 & 8/28 2019

Entry Atomic Hypothesis:

See Powers of Ten in Lecture notes

Highlights

- Physics is a broad all-encompassing subject it covers the VERY Large (10^{23} m) and the VERY small (10^{-10} m)

  From the outer reaches of our universe to Elementary particles that make up our universe

- An Angstrom is 10^{-10} m

- An Atom has a nucleus made up of protons and neutrons and electrons that occupy orbitals and shells surrounding the nucleus. The orbitals are areas that the electrons have a probability of being in

- Atoms are mostly empty space. For how we figured it out see Rutherford's Electron scattering experiment.

- Elementary Particles cannot be broken up further
- Quarks (up and down) make-up protons and neutrons in the nucleus
- Electrons are leptons and are elementary particles themselves
- Other Elementary Particles (gluon, photon, Z boson, W boson) are force Particles
- Higgs is the mass Particle

Other Entry ~~Exit~~ Answer →

- A Phase Change is a change in a state of matter (Liquid, Solid, Gas Plasma, are states of matter)