

Quantum Physics



Ask Mish

- studies fundamental particles
- these particles are also waves as opposite to classical physics where a particle is just a particle and wave is wave
- e.g. electron around nucleus moves like a wave creating a 'cloud' called orbital as opposite to "classical" particles moving on trajectories e.g Earth around sun
- quantum from Lat. (how much) refers to minimum amount; first used by Helmholtz



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History: few milestones in quantum physics

- **Democritus** (460-370 B.C.) disciple of Greek philosopher **Leucippus** first described **ATOM** = cannot be cut (Gr. a + tomein) as the fundamental part of matter.
- 1983 - W and Z bosons
- 1995 - tau neutrino
- 2000 - top quark
- **2012 - Higgs boson**

