

L2 Fundamental Particles and Interactions

- L2.1 State the category of fundamental particles which contains the electron.
- L2.2 Give the quark content of the neutron.
- L2.3 Which kind of radioactive decay gives out an antineutrino?
- L2.4 What is the
- a) charm number of a particle containing quarks udc ?
 - b) strangeness number of a particle containing quarks uds ?
- L2.5 What is a baryon?
- L2.6 Under what circumstances is
- a) baryon number conserved?
 - b) strangeness conserved?
- L2.7 Which particle mediates the electromagnetic force?
- L2.8 How does the mass of an antiparticle compare with the equivalent ordinary particle?
- L2.9 What is the baryon number of a top quark?
- L2.10 What is the lepton number of the electron antineutrino?