Physics of muons as a cosmic ray Particle

Eak raj Paudel, lecturer, Dept of Physics, Birendra campus (T.U)

Abstract

Muons are the most numerous charged particles at sea level. Most muons are produced high in the atmosphere (typically 15 km) and lose about 2 GeV to ionization before reaching the ground. Their energy and angular distribution reflect a convolution of the production spectrum, energy loss in the atmosphere, and decay.

Key words ; Nuclear Physics, muon, antiparticle, cosmic rays, cloud chamber, standard model,