

Physics at LHCb



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Abstract:

I will describe the LHCb experiment that studies decays of b quarks (mass of 5 GeV), and charm quarks (1.5 GeV), and show how studying these particles we are sensitive to physics and new particles at very large mass scales of several TeV and up. Specific measurements of CP violation and tests of lepton flavor universality will be discussed. Strong interactions are also studied; the have detected several particles that do not fit in the simple quark model, such as tetraquarks and pentaquarks.

