

Heavy flavour spectroscopy, including exotic states at LHCb

Tuesday 31 May 2016 19:15 (20 minutes)

Summary

The LHCb experiment is designed to study the decays and properties of heavy flavoured hadrons produced in the forward region from pp collisions at the CERN Large Hadron Collider. During Run1, it has recorded the world's largest data sample of beauty and charm hadrons, enabling precise studies into the spectroscopy of such particles, including discoveries of new states and measurements of their properties such as masses, width and quantum numbers. In particular the discovery of the first pentaquark states and the first determination of the $Z_c(4430)$ as a tetra quark state have increased the interest for exotic spectroscopy. An overview of the recent LHCb results in this area is presented.

Presenter: COWAN, Greig (University of Edinburgh (GB))

Session Classification: QCD + Heavy Flavour