

31st International Symposium on Lepton Photon Interactions at High Energies



Contribution ID: 76

Type: **Talk**

Heavy flavour production and spectroscopy at LHCb

Tuesday 18 July 2023 16:15 (15 minutes)

Running coupling of QCD results in totally different behavior of the strong interaction in high- and low-energy regions. Experimental measurements in both regions are important test on knowledge of the strong process, and help to understand the QCD backgrounds in New Physics searches using electro-weak processes. The large heavy flavor cross section in proton-proton collisions at the LHC and the high-efficient beauty and charm reconstruction of the LHCb detector make the LHCb experiment a unique platform to study the heavy flavor production and spectroscopy, which are sensitive tags to the strong interaction at high- (perturbative) and low-energy (nonperturbative) regions, respectively. In this presentation the latest results on the heavy flavour production and spectroscopy from the LHCb experiment will be reported.

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Session Classification: Flavour

Track Classification: Flavour physics