



Contribution ID: 56

Type: Oral

B-flavour anomalies in $b \rightarrow sll$ and $b \rightarrow clnu$ transitions at LHCb

Wednesday, 5 June 2019 15:30 (30 minutes)

The concept of lepton universality, where the muon and tau particles are simply heavier copies of the electron, is a key prediction in the Standard Model (SM). In models beyond the SM, lepton universality can be naturally violated with new physics particles that couple preferentially to the second and third generation leptons. Over the last few years, several hints of lepton universality violation have been seen in both $b \rightarrow c$ and $b \rightarrow s$ semileptonic beauty decays. This presentation will review these anomalies and give an outlook for the near future. Other probes of NP in highly suppressed b-hadron decays will also be discussed.

Collaboration name

LHCb

Primary author: GARCIA PARDINAS, Julian (Zurich U.)

Presenter: GARCIA PARDINAS, Julian (Zurich U.)

Session Classification: Flavor and Precision Physics

Track Classification: Flavor and Precision Physics