



ID de Contribution: 191

Type: Ordinary

## Lepton flavour universality (LFU) tests in B decays as a probe for new physics

*dimanche 11 mars 2018 17:00 (15 minutes)*

In the Standard Model (SM), the coupling of the electroweak gauge bosons to the leptons is lepton flavour universal. Tests of this property constitute sensitive probes for new physics models that violate lepton flavour universality. Recent tests of lepton universality in rare  $b \rightarrow s\ell\ell$  decays and semileptonic  $b \rightarrow c\tau\bar{\nu}_\tau$  transitions have shown some tensions with the precise SM predictions. The LHCb experiment is ideally suited for lepton universality tests in  $B$ -decays due to its large acceptance, high trigger efficiencies and excellent tracking and particle identification capabilities. Recent results on lepton flavour universality at the LHCb experiment will be presented.

### Summary

**Auteur principal:** LANGENBRUCH, Christoph (University of Warwick)

**Orateur:** LANGENBRUCH, Christoph (University of Warwick)

**Classification de Session:** Sunday Afternoon: Heavy Flavours (cont)