

Lepton flavor universality and lepton flavor violation tests at ATLAS

Thursday, August 4, 2022 2:45 PM (25 minutes)

The growing evidence of lepton-flavour-universality violation in B-meson decays is one of the most interesting hints for physics beyond the Standard Model that may be reachable at the Large Hadron Collider. In addition, the observation of lepton flavor violation (LVF) would be a smoking gun for the presence of physics beyond the Standard Model. Consequently, a broad program of measurements and direct searches that test lepton-flavor universality and lepton-flavour violation in proton-proton collisions is underway at the ATLAS experiment. This talk will present the latest results using the full Run 2 dataset at a center-of-mass energy of 13 TeV, as well as discuss future prospects.

Attendance type

In-person presentation

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