

Searches for leptoquarks with the ATLAS detector

Tuesday 10 January 2023 15:10 (20 minutes)

Leptoquarks are predicted by many new physics theories to describe the similarities between the lepton and quark sectors of the Standard Model and offer an attractive potential explanation for the B-physics anomalies observed at LHCb and flavour factories. The ATLAS experiment has a broad program of direct searches for leptoquarks, coupling to the first-, second- or third-generation particles. This talk will present the most recent 13 TeV results on the searches for leptoquarks with the ATLAS detector, covering flavour-diagonal and cross-generational final states.

Presenter: BAUER, Patrick (University of Bonn (DE))

Session Classification: Parallel session A

Track Classification: Beyond The Standard Model Physics