Contribution ID: **103** Type: **Talk**

【319】Searching for single third generation Leptoquarks with bb + tautau final state using the ATLAS detector

Tuesday, June 28, 2022 4:00 PM (15 minutes)

Many Beyond Standard Model theories predict particles called leptoquarks that couple both to leptons and quarks. In addition to receiving theoretical interests, the search for these new particles has the potential to explain the recent hints in lepton flavour universality violation. This talk presents the initial steps of the search for single third-generation leptoquark from $\bar{b}b$ scattering, with $b\bar{b}$ + $\tau^-\tau^+$ final state using the full Run-2 dataset from the ATLAS detector.

Primary author: MUELLER, Roman (Universitaet Bern (CH))

Presenter: MUELLER, Roman (Universitaet Bern (CH))

Session Classification: Nuclear, Particle- & Astrophysics

Track Classification: Nuclear, Particle- and Astrophysics (TASK)