

# XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 89

Type: **Contributed Talk**

## Searches for new phenomena in final states with 3rd generation quarks using the ATLAS detector

*Thursday, March 26, 2020 9:50 AM (20 minutes)*

Many theories beyond the Standard Model predict new phenomena, such as  $Z'$  and leptoquarks, in final states containing bottom or top quarks. Such final states offer great potential to reduce the Standard Model background, although with significant challenges in reconstructing and identifying the decay products and modelling the remaining background. The recent 13 TeV pp results, along with the associated improvements in identification techniques, will be reported.

**Primary authors:** JUSTE ROZAS, Aurelio (ICREA and IFAE (ES)); KHODA, Elham E

**Presenter:** KHODA, Elham E

**Session Classification:** Electroweak Physics and Beyond the Standard Model

**Track Classification:** Electroweak Physics and Beyond the Standard Model