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Search for vector-like quarks with the ATLAS Detector

Wednesday 25 July 2018 15:30 (20 minutes)

Vector like quarks appear in many theories beyond the Standard Model as a way to cancel the mass divergence for the Higgs boson. The current status of the ATLAS searches for the production of vector like quarks will be reviewed for proton-proton collisions at 13 TeV. This presentation will address the analysis techniques, in particular the selection criteria, the background modeling and the related experimental uncertainties. The results and the complementarity of the various searches will be discussed.

Parallel Session

Alternatives to Supersymmetry

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Session Classification: Alternatives to Supersymmetry