

BCVSPIN Conference 2024: Particle Physics and Cosmology in the Himalayas

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LHC Results: Vector-like quark searches from ATLAS

Monday 9 December 2024 14:00 (17 minutes)

The Standard Model of Particle Physics explains many natural phenomena yet remains incomplete. Vectorlike quarks (VLQs) lie at the heart of many extensions seeking to address the Hierarchy Problem, as they can naturally cancel the mass divergence for the Higgs boson. This talk summarizes recent ATLAS searches for VLQs which decay to quarks, or leptons, using Run 2 data collected at the LHC.

Presenter: HALEY, Joseph (Oklahoma State University (US))

Session Classification: Parallel Session