

ATLAS Searches for Lepto-Quarks and Vectorlike-Quarks

Saturday 20 July 2024 09:21 (17 minutes)

The Standard Model of Particle Physics explains many natural phenomena yet remains incomplete. Lepto-quarks (LQs) are hypothetical particles predicted to mediate interactions between quarks and leptons, bridging the gap between the two fundamental classes of particles. 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 will present the new results from LQ and VLQ searches with the ATLAS detector using the Run-2 dataset.

Alternate track

I read the instructions above

Yes

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