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Searching for Electroweak Supersymmetry with the ATLAS Detector

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With several recent anomalies observed that are in tension with the Standard Model, and with no clear roadmap to the source of new physics, this is an exciting time to explore for new particles at the LHC. Supersymmetry (SUSY) is an elegant solution to many of the Standard Model mysteries, and SUSY models with electroweakly produced sparticles are particularly interesting as possible explanations to the g-2 anomaly, the observed dark-matter density, and more. ATLAS has a rich program of complementary electroweak SUSY searches, and the latest Run 2 results using 139 fb⁻¹ of 13 TeV proton-proton collision data are discussed that shed light on where new physics may be found, such as in the three lepton final state.

Are you are a member of the APS Division of Particles and Fields?

Yes

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