

Phenomenology 2021 Symposium



Contribution ID: 1178

Type: BSM

Searches for electroweak production of supersymmetric particles with the ATLAS detector

Tuesday 25 May 2021 18:00 (15 minutes)

The direct production of electroweak SUSY particles, including sleptons, charginos, and neutralinos, is a particularly interesting area with connections to dark matter and the naturalness of the Higgs mass. The small production cross sections lead to difficult searches, despite relatively clean final states. This talk will highlight the most recent results of searches performed by the ATLAS experiment for supersymmetric particles produced via electroweak processes, including analyses targeting small mass splittings between SUSY particles. Models are targeted in both R-parity conserving as well as R-parity violating scenarios.

Summary

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Session Classification: SUSY II