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Searches for electroweak production of supersymmetric particles with the ATLAS detector

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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. The ATLAS experiment is exploring this experimentally challenging frontier with the large integrated luminosity of Run 2, multiple signatures, and new experimental techniques. This talk will highlight the most recent results of searches performed by the ATLAS experiment for supersymmetric particles produced via electroweak processes. Models are targeted in both R-parity conserving as well as R-parity violating scenarios.

Summary

Author: OLIVER, Jason (University of Adelaide (AU))

Presenter: OLIVER, Jason (University of Adelaide (AU))

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