

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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Recent SUSY searches with the ATLAS detector

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Supersymmetry (SUSY) provides elegant solutions to several problems in the Standard Model, and searches for SUSY particles are an important component of the LHC physics program. This talk will present the latest results from searches conducted by the ATLAS experiment, covering both strong and electroweak SUSY particle production processes. The searches target multiple final states and different assumptions about the decay mode of the produced SUSY particles, including searches for both R-parity conserving models that predict dark matter candidates and R-parity violating models that typically lead to high-multiplicity final states without large missing transverse momentum. The searches are interpreted as constraints on a variety of SUSY models as well as simplified associated-production dark matter models.

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