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Searches for sleptons with the ATLAS detector

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Many supersymmetry models feature sleptons with masses below a TeV. Light sleptons can arise in well motivated dark matter models as well as proposed solutions to the observed anomalous muon magnetic moment. The talk presents recent ATLAS results from searches for slepton pair production in a variety of final states, including models in which R-parity is either conserved or violated, and results from searches in which sleptons appear in cascade decays from heavier supersymmetric particles.

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