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Searches for R-parity conserving supersymmetry with the ATLAS detector

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Despite the absence of experimental evidence, weak scale supersymmetry remains one of the best motivated and studied Standard Model extensions. Numerous models of R-parity conserving supersymmetry feature dark matter candidates in form of the lightest neutralino. The ATLAS experiment searches for signs of R-parity conserving supersymmetry in a large variety of signatures involving events with abnormal production of missing transverse momentum, jets, leptons, third generation fermions, gauge bosons or massive long-lived particles. The talk presents a summary of recent results obtained in these searches.

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