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Search for R-parity violating supersymmetric signals with the ATLAS detector

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R-parity violation introduces new signatures to be considered in the search for supersymmetry at the LHC. Strongly interacting resonances may decay to jets, sleptons may decay via lepton-flavour violating processes and lightest supersymmetric particles may decay into many particles with or without missing transverse momentum. The talk presents recent results from searches of supersymmetry in resonance production and R-parity violating signatures with the ATLAS detector.

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