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Searches for supersymmetry in resonance production and R-parity violating signatures with the ATLAS detector

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An extended QCD sector beyond the minimal supersymmetric standard model or the admission of R-parity violation introduces new signatures to 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 leptons with or without missing transverse momentum. The talk presents results from searches for scalar gluons and R-parity violation in dijet and multilepton final states using the full data sample recorded in 2011 at $\sqrt{s}=7$ TeV centre-of-mass energy by the ATLAS experiment.

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