

Search for R-parity violating supersymmetry with the ATLAS detector

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R-parity violation in supersymmetry gives rise to many unique experimental signatures. We describe searches with the ATLAS detector for supersymmetry with R-parity violation. Examples include searches for sneutrino decay to electron plus muon, and displaced vertices from the late decays of heavy objects. The most recent results on these channels will be given based on data recorded in 2010 and 2011.

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