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Supersymmetry searches in three lepton events at ATLAS

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The ATLAS experiment at the Large Hadron Collider (LHC) has collected an unprecedented amount of data in the 3 years of data taking since its start. In this talk I will discuss the latest results from the Supersymmetry (SUSY) searches in events with three leptons (electron/muon/tau) in the final state. The search is performed on the full dataset collected by the experiment in 2012, at a centre-of-mass energy of 8 TeV. No evidence of SUSY is found. Observations are consistent with the Standard Model and exclusion limits are set on various SUSY models (pMSSM and simplified models). These results improve on previous searches performed at ATLAS in final states with only electrons and muons.

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