

# Searches for electroweak production of supersymmetry, supersymmetry in resonance production, R-parity violating signatures and events with long-lived particles with the ATLAS detector

*Thursday 28 August 2014 15:00 (30 minutes)*

This talk presents the latest ATLAS results in the context of electroweak production of SUSY particle, R-Parity violating SUSY scenarios, and scenarios with long-lived SUSY particles. The results presented use the full 20/fb of  $\sqrt{s} = 8$  TeV p-p collisions collected by the ATLAS experiment in 2012. The prompt searches consider final states including leptons, jets (including b-jets) and missing energy, whereas the dedicated searches for long lived SUSY particles utilize abnormal specific energy loss, appearing or disappearing tracks, displaced vertices, long time-of-flight or late calorimetric energy deposits. Prospects at HL-LHC will also be discussed as an outlook.

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