

Searches for supersymmetric signatures with the ATLAS detector

Abstract content

Weak scale supersymmetry stands as one of the most studied and motivated Standard Model extensions. Even though no experimental evidence for it has been reported, many searches are still ongoing. Signs of supersymmetry are searched for in various topologies that lead to events with abnormal production of missing transverse momentum, jets, leptons, photons, third generation fermions, gauge bosons or massive long-lived particles. In this talk I will summarize the latest results obtained in these searches, performed on a data sample recorded in 2011 at $\sqrt{s}=7$ TeV center-of-mass energy, and in 2012 at $\sqrt{s}=8$ TeV center-of-mass energy by the ATLAS experiment at the LHC.

Summary

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