

Searches for squarks and gluinos with the ATLAS detector

Wednesday, 21 June 2017 17:30 (30 minutes)

Despite the absence of experimental evidence, weak scale supersymmetry remains one of the best motivated and studied Standard Model extensions.

This talk summarises recent ATLAS results on searches for supersymmetric squarks and gluinos, including third generation squarks produced directly or via decay of gluinos. The searches involve final states containing jets (possibly identified as coming from b-quarks), missing transverse momentum with and without light leptons, taus or photons, and were performed with pp collisions at a centre-of-mass energy of 13 TeV.

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Session Classification: Working Group: Electroweak Interactions

Track Classification: Electroweak Interactions Working Group