

Reconstruction techniques in supersymmetry searches in the ATLAS experiment

Thursday 5 July 2018 15:15 (15 minutes)

Many supersymmetric scenarios feature final states with non-standard final state objects. The production of massive sparticles can lead to the production of boosted top quarks or vector bosons, high-pt b-jets. At the same time, transitions between nearly mass-degenerate sparticles can challenge the standard reconstruction because of the presence of very soft leptons or jets. The talk will review the application of innovative reconstruction techniques to supersymmetry searches in ATLAS.

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Session Classification: Beyond the Standard Model

Track Classification: Beyond the Standard Model