

## **Reconstruction techniques in supersymmetry searches in the ATLAS experiment**

*Tuesday, 23 October 2018 10:30 (20)*

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.

**Primary author(s)** : VERMEULEN, Ambrosius (Nikhef Amsterdam); ATLAS COLLABORATION

**Presenter(s)** : VERMEULEN, Ambrosius (Nikhef Amsterdam)

**Session Classification** : Particle Physics

**Track Classification** : Particle physics