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Reconstruction techniques in supersymmetry searches in the ATLAS experiment

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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- p_T 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 (including the flavour tagging of very soft jets). The talk will review the application of innovative reconstruction techniques to supersymmetry searches in ATLAS.

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