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Highlights on searches for new physics with top quarks in boosted topologies

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The extension of sensitivity for strongly-produced supersymmetry (SUSY) to increasingly higher masses makes the reconstruction and identification of boosted objects to an essential tool for current and future SUSY searches. These objects can originate from the final stage of a short decay chain, or as heavy bosons produced in a decay chain. The talk summarizes the use of large-radius jets and substructure techniques in searches such as the ones for the pair production of gluinos or third generation squarks in proton-proton collisions at 13 TeV.

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