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Searches for supersymmetry in events with heavy boosted objects with CMS

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Searches for supersymmetry at the LHC have pushed the mass limits for strongly-produced sparticles to the TeV level. At this scale, even heavy decay products such as vector or Higgs bosons can be produced at high transverse momenta and make the reconstruction and identification of boosted objects to an essential tool for current and future searches for supersymmetry. The talk summarizes the use of large-radius jets and substructure techniques in CMS searches such as the ones for the pair production of gluinos or third generation squarks in proton-proton collisions at 13 TeV.

Parallel Session

Supersymmetry: Models, Phenomenology and Experimental Results

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