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A Search for New Physics in Events with Jets and Missing Energy in pp Collisions at 7 TeV

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Abstract:

We present the results of searches for new physics in all-hadronic final states with at least three jets accompanied by large missing transverse momentum. The searches are performed using 4.98 fb^{-1} of data collected by the CMS experiment at the LHC in pp-collisions at a center-of-mass energy of 7 TeV. Various data-driven techniques used to measure the Standard Model backgrounds are discussed. The results are interpreted in Constrained Minimal Supersymmetric extension of the Standard Model (CMSSM) and Simplified Model Spectrum (SMS) frameworks.

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