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Search for supersymmetry in the multijet and missing transverse momentum channel in pp collisions at 13 TeV

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A search for new physics is performed based on multijet events with large missing transverse momentum produced in 13 TeV proton-proton collisions. The data sample, corresponding to an integrated luminosity of 2.3 fb^{-1} , was collected with the CMS detector at Run 2 of the CERN LHC. The data are examined in search regions of jet multiplicity, bottom-quark jet multiplicity, missing transverse momentum, and the scalar sum of jet transverse momenta. Exclusion limits are presented for simplified supersymmetric models of gluino pair production. These results significantly extend the limits from LHC Run 1.

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