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Searches for SUSY in final states with single leptons at CMS

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We search for evidence of Supersymmetry in events with a single lepton, multijets and missing energy. The search is done with proton-proton collision data collected by the CMS detector at the CERN Large Hadron Collider. The backgrounds, which are primarily from W +jet and top quark production, are predicted with control samples in the data. The results are interpreted in terms of the constrained minimal supersymmetric extension of the standard model as well as more generic Simplified Model Spectra (SMS) topologies.

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