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Recent results from CMS on SUSY searches in leptonic final states

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We present the results of searches for new physics in various topologies that lead to one or more isolated leptons, jets, and missing transverse energy in the final state. The searches are performed using 35 1/pb of data collected in 2010 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 background are discussed. No evidence for new physics is observed and limits are set on the production cross-section times the event acceptance for the searched topologies. To facilitate the interpretation of our data in a broader range of new physics scenarios, we provide information on our event selection, detector response, and efficiencies.

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