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Electroweak SUSY production in multileptonic final states at CMS

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Electroweak production of supersymmetric particles becomes relevant whenever strongly coupled SUSY is present only at relatively high masses. Due to the strict constraints in squark and gluino properties obtained at the LHC experiments, low mass sleptons and/or gauginos could dominate SUSY production at LHC. A search for supersymmetric particles in multileptonic final states using data obtained with the CMS experiment during the LHC Run II operations at a center of mass energy of \sqrt{s}=13TeV is presented. Final states with up to four leptons -including hadronic taus- are scrutinized. Results are interpreted in terms of simplified models describing R-parity conserving gaugino pair production in both light and heavy slepton scenarios.

Secondary track (number)

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