

Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV

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A search for new physics is performed using events with same-sign isolated leptons and jets in the final state. The results are based on the full sample of proton-proton collisions at a center-of-mass energy of 8 TeV with the CMS detector and corresponding to an integrated luminosity of 19.5 fb⁻¹. In order to be sensitive to a wide variety of possible signals beyond the Standard Model, we consider multiple search regions defined by the missing transverse energy, the hadronic energy, the number of jets and b-tagged jets, and the transverse momenta of the leptons in the events. The results are interpreted in a variety of new physics models. Finally, information on acceptance and efficiencies are provided so that the results can be used to confront additional models in an approximate way.

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