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Search for Contact Interactions in $\mu + \mu -$ and $e + e -$ Final States in 13 TeV p-p Collisions at CMS

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We report results on the nonresonant search for contact interactions (CI) \sqrt{s} using data collected during the 2016 run, in proton-proton collisions at $\sqrt{s} = 13$ TeV by the Compact Muon Solenoid (CMS) experiment at the Large Hadron Collider (LHC) at CERN. The analyzed data correspond to integrated luminosities of about 36 fb^{-1} . Results are interpreted in the context of left-left (LL), left-right (LR), and right-right (RR) quark and lepton compositeness models with an energy scale parameter Λ . Using information from the invariant mass and Collins-Soper angle we set 95 % confidence level lower limits on Λ for both destructive and constructive interference models.

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