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Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at root s=13 TeV

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Abstract

A search is reported for a narrow vector resonance decaying to quark-antiquark pairs in proton-proton collisions at root s = 13 TeV, collected with the CMS detector at the LHC. The data sample corresponds to an integrated luminosity of 2.7 fb⁻¹. The vector resonance is produced at large transverse momenta, with its decay products merged into a single jet. The resulting signature is a peak over background in the distribution of the invariant mass of the jet. The results are interpreted in the framework of a leptophobic vector resonance and no evidence is found for such particles in the mass range of 100-300 GeV. Upper limits at 95% confidence level on the production cross section are presented in a region of mass-coupling phase space previously unexplored at the LHC. The region below 140 GeV has not been explored by any previous experiments.

Keywords

KeyWords Plus: [DIJET ANGULAR-DISTRIBUTIONS](#); [P\(P\)OVER-BAR COLLISIONS](#); [CONTACT INTERACTIONS](#); [ATLAS DETECTOR](#); [PP COLLISIONS](#); [PARTICLES](#); [COLLIDER](#); [COMPOSITENESS](#); [SPECTRUM](#); [PHENOMENOLOGY](#)

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