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Search for universal extra dimensions and supersymmetry in like-sign dimuon events using 7.3 fb⁻¹ of D0 data

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We present a search for universal extra dimensions (UED) and supersymmetry (SUSY) in the two like-sign muons final state. The data set corresponds to an integrated luminosity of 7.3 fb⁻¹ collected by the D0 detector at a $p\bar{p}$ center of mass energy of 1.96 TeV at the Fermilab Tevatron Collider. No evidence for physics beyond the standard model is observed and limits are set on the size of the compactification scale R_c^{-1} in the minimal UED model and on the SUSY parameter space in supergravity inspired models.

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