

ICHEP2012



Contribution ID: 490

Type: **Parallel Sessions**

Search for Universal Extra Dimensions in $p\bar{p}$ Collisions

Saturday, July 7, 2012 3:45 PM (15 minutes)

We present a search for Kaluza-Klein (KK) particles predicted by models with universal extra dimensions (UED) using a data set corresponding 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. The decay chain of KK particles can lead to a final state with two muons of the same charge. This signature is used to set a lower limit on the compactification scale of $R^{-1} > 260 \text{ GeV}$ in a minimal UED model.

Primary author: Dr ANGELO, Souza Santos (LAFEX, Centro Brasileiro de Pesquisas Físicas (BR))

Presenter: Dr ANGELO, Souza Santos (LAFEX, Centro Brasileiro de Pesquisas Físicas (BR))

Session Classification: Room 219 - BSM - Non-SUSY - TR3

Track Classification: Track 3 - BSM - Non-SUSY Exotics