

## Abstract

In this talk, I show the results of search for large extra dimensions in dielectron channel as proposed by Arkani-Hamed, Dimopolous, and Dvali (ADD). The analysis is based on 1.1/fb of data collected by the CMS detector in proton-proton collisions with the center-of-mass energy of 7 TeV. The main source of background after all selection is the standard model Drell–Yan. Data-driven methods to estimate the QCD multi-jet, W+Jets and top-like backgrounds are developed. The observed data are in good agreement with the standard model prediction and do not exhibit any evidence for new physics beyond the standard model. Accordingly, the data are used to set limit on effective Planck scale.