



ID de Contribution: 21

Type: YSF (Young Scientists Forum)

Search for new heavy neutral bosons decaying into a dilepton pair with the CMS detector at $\sqrt{s} = 8$ TeV.

vendredi 8 mars 2013 20:02 (5 minutes)

Several theories beyond the Standard Model (GUT, large extra dimensions, ...) predict the existence of new heavy bosons. Such particles could be produced in significant amounts at the LHC and their decay into a dilepton pair provides a clean signature with low background. In this talk we plan to present the results of the analysis of the whole 2012 dataset collected by the CMS experiment at a center of mass energy of 8 TeV. Limits on the upper cross section production of such particles will be presented. These limits can be turned into lower limits on the mass of Z' and graviton, reaching values above 2 TeV for many models.

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Classification de Session: Young Scientist Forum

Classification de thématique: Experiment