

DISCRETE '08: Symposium on Prospects in the Physics of Discrete Symmetries



Contribution ID: 75

Type: **not specified**

Search for Extra Dimensions at CMS

Friday 12 December 2008 18:55 (20 minutes)

A possible solution to the hierarchy problem is the presence of extra space dimensions beyond the three ones which are known from our everyday experiences. The phenomenological ADD model of large extra dimensions predicts a $E_{Tmiss} + \text{jet}$ signature. Randall-Sundrum-type extra dimensions predict di-lepton and di-jet resonances. This presentation will address the experimental issues and discovery potential for these new particles at the LHC with the CMS detector during early data taking.

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Session Classification: Parallel Session A. Supersymmetry and other searches-II

Track Classification: Experimental Prospects