

ICHEP2012



Contribution ID: 431

Type: **Parallel Sessions**

Search for SM Higgs decaying to two photons at CMS

Saturday 7 July 2012 15:15 (15 minutes)

Results are presented on the search for the standard model Higgs bosons decaying into two photons, and into a photon and a Z boson. Multivariate techniques are used to enhance the sensitivity. The full data sample of 4.7 fb^{-1} of pp collisions collected in 2011 at a CM energy of 7 TeV with the CMS experiment have been analyzed, as well as a significant fraction of the 2012 luminosity delivered so far at the new CM energy of 8 TeV.

Author: Dr GANJOUR, Serguei (CEA - Centre d'Etudes de Saclay (FR))

Presenter: Dr GANJOUR, Serguei (CEA - Centre d'Etudes de Saclay (FR))

Session Classification: Plenary 3 - The Standard Model - TR1

Track Classification: Track 1 - The Standard Model and EW Symmetry Breaking - Higgs Searches