



Contribution ID: 37

Type: **Contributed Talk**

The Electromagnetic Calorimeter of the CMS Experiment

Thursday 22 February 2007 10:15 (20 minutes)

The Large Hadron Collider will allow the study of pp interactions at a center of mass energy of 14 TeV. The main physics goals of the CMS experiment are the discovery of the Higgs boson and the search for new physics phenomena, in particular the appearance of particles predicted by Supersymmetric theories. The Electromagnetic Calorimeter of the CMS experiment is made of 75848 Lead Tungstate scintillating crystals. This challenging project aims to achieve an extreme precision in photons and electrons energy measurement. General motivations, main technical challenges, plans for commissioning and precise energy calibration, and the actual status of the project will be discussed.

Author: DIEMOZ, Marcella (INFN Rom)

Presenter: DIEMOZ, Marcella (INFN Rom)

Session Classification: Session 7