Contribution ID: **824** Type: **Poster**

Commissioning, Performance and Calibration of the Electromagnetic Calorimeter of CMS

The operation and general performance of the CMS electromagnetic calorimeter at √s=7 TeV are described. The first LHC beams have been used to finalize the commissioning of ECAL readout and trigger. The precision of the inter-channel synchronization and calibration has been verified and improved with in-situ data, exploiting decays of pi0s and eta into two photons, the phi invariance of the energy deposition in Minimum Bias events. Di-electron and di-photon states have been also used to verify and tune the energy scale. The quality of the offline data reconstruction, from low level quantities to showers, has been investigated and improved using known physics processes. In-situ data and thorough Data/MC comparisons have been used to measure and tune the detector performance. First performance results are given.

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Track Classification: 01 - Early Experience and Results from LHC