



Contribution ID: 104

Type: **not specified**

## EWK results from CMS (20'+5')

*Wednesday 8 June 2011 10:00 (25 minutes)*

We present the results of electroweak studies performed using data collected in 2010 at a center-of-mass energy of 7 TeV by the CMS experiment at the LHC. Besides their intrinsic interest as unique samples to calibrate and understand the CMS detector response to leptons, jets and missing energy, events containing W and Z bosons appear as dominant components in many Higgs searches and in most of the searches beyond the Standard Model, either as signal or as background. In addition, the excellent level of theoretical and experimental understanding of these processes allows electroweak tests at the LHC at an unprecedented level of precision. CMS uses a wide range of final states to measure cross sections, asymmetries, polarizations and differential distributions in general. The integrated luminosity in 2010 was already sufficient to perform not just inclusive measurements using W and Z decays into electrons and muons, but also precise studies of associated jet production and final states containing taus, as well as first measurements of diboson cross sections and associated b-jet production.

**Presenter:** LISTA, Luca (INFN and Univers. Napoli)

**Session Classification:** 3A - Electroweak and hard QCD