

Contribution ID: 492 Type: Parallel Session Talk

ATLAS Higgs Sensitivity for 1/fb of data at the LHC running at 7 TeV

Friday, 23 July 2010 17:19 (18 minutes)

The search for Higgs bosons at the Large Hadron Collider (LHC) is based on the analysis of independent final states, such as photon, tau, W and Z pairs. The Higgs discovery potential of ATLAS for each independent final state, as well as for combined channels, is reviewed and discussed. Results are presented for an integrated luminosity for 1/fb at 7 TeV center of mass energy at the LHC. Practical methods to estimate the backgrounds using control samples in real data are discussed. Validation of some of the data driven background estimation methods using the early 7 TeV ATLAS data at the LHC is also presented.

Primary author: Prof. LEFEBVRE, Michel (University of Victoria)

Presenter: MASUBUCHI, Tatsuya (University of Tokyo)

Session Classification: 02 - The Standard Model and Electroweak Symmetry Breaking

Track Classification: 02 - The Standard Model and Electroweak Symmetry Breaking