

ICHEP2012



Contribution ID: 162

Type: **Parallel Sessions**

Search for the Standard Model Higgs boson in the $H \rightarrow WW \rightarrow l\nu l\nu, l\nu qq$ decay modes with the ATLAS detector

Saturday 7 July 2012 11:30 (15 minutes)

A Higgs boson search in the $H \rightarrow WW (l\nu l\nu, l\nu qq)$ decay mode has been performed using proton-proton collisions recently recorded by the ATLAS detector. The search in the final state with two leptons and two neutrinos covers a broad mass range from 110 - 600 GeV. Upper limits are derived on the cross section of a Standard Model Higgs boson. The semi-leptonic final state with a lepton, neutrino and two or more jets provides additional sensitivity to the fully-leptonic decay mode in the high mass region from 300 to 600 GeV. Upper limits are derived on the cross section of a Standard Model Higgs boson.

Author: Dr DI MICCO, Biagio (CERN)

Presenter: Dr DI MICCO, Biagio (CERN)

Session Classification: Plenary 3 - The Standard Model - TR1

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