



Contribution ID: 310
compétition)

Type: Oral (Student, In Competition) / Orale (Étudiant(e), inscrit à la

The Search for a Heavy Higgs-like Boson in the WW(lvjj) Decay Channel with the ATLAS Detector

Wednesday 18 June 2014 09:30 (15 minutes)

The search for a heavy Higgs boson decaying into the semi-leptonic WW final state is presented in the high mass range (300 GeV - 1000 GeV) using the ATLAS detector. These results are based on the 2012 proton-proton dataset provided by the Large Hadron Collider (LHC) corresponding to an integrated luminosity of 21 fb^{-1} at center of mass energy of $\sqrt{s} = 8 \text{ TeV}$. The search covers both Standard Model interpretations and theories beyond the Standard Model which predict a second Higgs in addition to the already discovered resonance at 125 GeV.

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Session Classification: (W1-8) Energy Frontier: Exotics - PPD-DTP / Frontières d'énergie: exotiques - PPD-DPT

Track Classification: Particle Physics / Physique des particules (PPD)