



Contribution ID: 142

Type: **Parallel contribution**

Search for Higgs Boson in Diphoton Final State with the ATLAS Detector

Tuesday, 9 August 2011 16:46 (20 minutes)

Diphoton final state is one of the most sensitive channels to a Higgs search in the low mass region (115GeV-140GeV). The analysis is optimized to search for a Standard Model (SM) Higgs and dominates the SM Higgs combination in the mass range lower than 120GeV. Nevertheless, an inclusive search strategy adopted is also sensitive to find a low mass diphoton resonance that could be predicted by some new physics models.

Primary author: WANG, Haichen (University of Wisconsin-Madison)

Presenter: WANG, Haichen (University of Wisconsin-Madison)

Session Classification: Higgs Physics

Track Classification: Higgs Physics