



Contribution ID: 363

Type: **Parallel contribution**

## **WZ Cross Section Measurement and Limits on Anomalous WWZ couplings with the ATLAS Detector at 7 TeV**

*Friday, 12 August 2011 11:10 (20 minutes)*

We will report on a recent measurement of WZ production cross section and limits on anomalous WWZ couplings using LHC proton-proton collision data collected by the ATLAS Detector at 7 TeV center-of-mass energy in 2011. The measurement is carried out on the WZ leptonic decay channels yielding three isolated high-pT leptons and large transverse momentum imbalance in the events. The background events mainly come from ZZ, Z+jets, Top and Drell-Yan processes, which are estimated using both MC simulations and collision data. Based on the observations and the signal and background predictions, the ATLAS WZ detection sensitivity and the production cross-section will be reported. The method and the results on probing the WWZ anomalous couplings using the selected WZ events will be presented.

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**Session Classification:** Electroweak Physics

**Track Classification:** Electroweak Physics