



Contribution ID: 63

Type: **not specified**

## Measurement of the diboson production cross section at 8TeV and 13TeV and limits on anomalous triple gauge couplings with the ATLAS detector

*Thursday 6 April 2017 11:50 (14 minutes)*

Measurements of the cross sections of the production of pairs of electroweak gauge bosons at the LHC constitute stringent tests of the electroweak sector of the Standard Model and provide a model-independent means to search for new physics at the TeV scale.

The ATLAS collaboration has performed detailed measurements of integrated and differential cross sections of the production of heavy di-boson pairs in fully-leptonic and semi-leptonic final states at centre-of-mass energies of 8 and 13 TeV.

The results are compared to predictions at NLO (and NNLO) in pQCD and provide constraints on new physics, by setting limits on anomalous triple gauge couplings.

**Primary authors:** ESCALIER, Marc (LAL-Orsay (FR)); BURGER, Angela Maria (Centre National de la Recherche Scientifique (FR))

**Presenter:** BURGER, Angela Maria (Centre National de la Recherche Scientifique (FR))

**Session Classification:** WG4 Hadronic and Electroweak Observables

**Track Classification:** WG4) Hadronic and Electroweak Observables