Contribution ID: **80** Type: **Parallel Session Talk**

Observation and measurements of vector-boson scattering with ATLAS

Tuesday 9 April 2019 14:52 (26 minutes)

The scattering of electroweak bosons tests the gauge structure of the Standard Model and is sensitive to anomalous quartic gauge couplings. In this talk, we present recent results on vector-boson scattering from the ATLAS experiment using proton-proton collisions at √s=13 TeV. This includes the observation of WZ and same-sign-WW production via vector-boson scattering along with a measurement of VV production in semileptonic final states. If available, a measurement of ZZ production via vector-boson scattering will also be presented. The results can be used to constrain new physics that manifests as anomalous electroweak-boson self interactions.

Author: ATLAS COLLABORATION

Presenter: CONVENTI, Francesco (Universita e sezione INFN di Napoli (IT))

Session Classification: WG4: Hadronic and Electroweak Observables

Track Classification: WG4: Hadronic and Electroweak Observables