



Contribution ID: 177

Type: **Oral Presentation**

Observation and measurements of vector-boson scattering at the ATLAS detector

Thursday 29 August 2019 12:30 (20 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 13 TeV of center-of-mass energy at LHC. This includes the observation of ZZ, WZ, and same-sign-WW production via vector-boson scattering along with a measurement of VV production in semileptonic final states. The results can be used to constrain new physics that manifests as anomalous electroweak-boson self interactions. Finally, Predicted cross sections for electroweak scattering of two same-sign W bosons in association with two jets are compared for a number of Monte Carlo configurations.

Authors: PENC, Ondrej (Acad. of Sciences of the Czech Rep. (CZ)); COLLABORATION, ATLAS

Presenter: PENC, Ondrej (Acad. of Sciences of the Czech Rep. (CZ))

Session Classification: Parallel Session