



Contribution ID: 756

Type: Poster

Measurements of quartic coupling and vector boson scattering in ATLAS

Friday, 8 July 2022 20:10 (20 minutes)

Measurements of multiboson production at the LHC probe the electroweak gauge structure of the Standard Model for contributions from anomalous couplings. Of particular significance are processes involving quartic gauge boson couplings. In this talk we present recent ATLAS results on the measurement of electroweak production of a Zgamma pair in association with two jets when Z decays to neutrinos producing missing transverse energy. If available, the production of same-sign pair of W bosons will be presented. Moreover, several measurements including three gauge bosons in the final state will be discussed such as the first observation of the three W bosons and the production of Z boson and two photons. Finally, vector boson scattering measurements interpreted in a combined Effective Field Theory analysis of anomalous quartic gauge self-interaction will be shown.

In-person participation

No

Primary author: PETUKHOV, Aleksandr

Presenter: PETUKHOV, Aleksandr

Session Classification: Poster Session

Track Classification: Top quark and EW Physics