Recent multi-boson and vector-boson scattering measurements from ATLAS

Monday, 10 October 2016 16:45 (20)

Measurements of the cross sections of the production of multiple electroweak gauge bosons 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. We present recent measurements of the inclusive and differential cross sections for WW, WZ, Z+photon, WWW, Z+2photons, exclusive WW and electroweak production of single W or Z bosons at pp collision energies of 8 TeV and 13 TeV. Distributions sensitive to anomalous triple or quartic gauge couplings have been studied and limits on new physics have been derived.

Primary author(s): Mr. SPETTEL, Fabian (Max-Planck-Institute for Physics)

Presenter(s): Mr. SPETTEL, Fabian (Max-Planck-Institute for Physics)

Session Classification: Nuclear physics and particle physics - parallel I

Track Classification: Nuclear physics and particle physics