

Tests of the Gauge Structure of the Electroweak Sector with ATLAS

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Measurements of the cross sections of the production of two or three 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. Such studies can be complemented by measurements of vector boson fusion or vector boson scattering processes with one or two gauge boson in association with two jets at high invariant mass, respectively. The ATLAS collaboration has performed detailed measurements of integrated and/or differential cross sections of the such processes at centre-of-mass energies of 8 and 13 TeV. In this talk, we will highlight the most recent results available, also focusing on the QCD modelling aspects of the measurements.

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