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Vector boson scattering, triple gauge-boson final states and limits on anomalous quartic gauge couplings with the ATLAS detector

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Measurements of the cross sections of the production of three electroweak gauge bosons and of vector-boson scattering processes 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. The ATLAS collaboration has recently searched for the production of three W bosons or of a W boson and a photon together with a Z or W boson at a center of mass energy of 8 TeV. We also present searches for the electroweak production of a Z boson and a photon together with two jets. The results are compared to state-of-the-art theory predictions and have been used to constrain anomalous quartic gauge couplings.

Experimental Collaboration

ATLAS

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