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Recent electroweak results from ATLAS

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The talk will summarize recent measurements of multi-boson production by the ATLAS Collaboration.

Summary

ATLAS measurements of multi-boson production processes involving combinations of up to three W and Z bosons and isolated photons are summarized. The cross sections are measured inclusively and differentially as a function of different kinematic quantities. First measurements of di-boson cross sections at a pp center of mass energy of 13 TeV are presented.

Production processes sensitive to vector-boson fusion and vector-boson scattering such as electroweak production of single Z and W bosons associated with two forward jets and same-sign WW production from 8 TeV pp collisions are also presented and compared to Standard Model expectations. Limits on anomalous triple and quartic gauge boson couplings have been derived.

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