

# Multiboson production and polarisation measurements with the ATLAS detector

*Saturday 20 July 2024 11:30 (15 minutes)*

Measurements of multiboson production at the LHC are important probes of the electroweak gauge structure of the Standard Model and can constrain anomalous gauge boson couplings. In this talk, recent measurements of diboson production by the ATLAS experiment at 13 TeV and 13.6 TeV are presented. Studies of gauge-boson polarisation and their correlation in WW, WZ and ZZ events are also presented. In WZ events, these studies have been extended to a phase space with high transverse momentum Z bosons. Finally, measurements of triboson production are discussed, and the observation in the WW $\gamma$ , WZ $\gamma$  and WW $\gamma\gamma$  channels are reported.

## Alternate track

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