

# Miami Physics Conference 2022

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Title: Measurements of multi-boson production at ATLAS (including VBS)

Measurements of multiboson production at the LHC probe the electroweak gauge structure of the Standard Model for contributions from anomalous couplings. The large dataset of the LHC run-2 allows for increasingly detailed studies of diboson and triboson final states. In this talk we present recent ATLAS results of gauge-boson polarisation measurements in WZ events, QCD studies in diboson events, and the production of a Z boson in association with two photons. Results on the electroweak production of a  $Z\gamma$  pair in association with two jets and, if available, the electroweak production of a W boson pair, are also presented. Moreover, precise boson and diboson differential cross-section measurements are interpreted in a combined Effective Field Theory analysis, allowing to systematically probe gauge boson self-interactions.