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Electroweak boson production and searches for aQGC in CMS

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The study of electroweak boson production is an important part of characterizing the standard model and it can also shed a light on new physics, in the form of anomalous gauge couplings. We present studies based on the measurement of WW scattering, the electroweak production of $Z \gamma + 2 \text{ jets}$ and the study of $\gamma \gamma \rightarrow WW$ through the exclusive WW production performed by the CMS collaboration using 8TeV proton-proton collisions at the LHC. With this set of analyses CMS has set upper limits on the values of aQGC coefficients for both dimension-6 and dimension-8 effective field theory operators, with exclusive $\gamma \gamma \rightarrow WW$ giving the most stringent limits to date.

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