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The study of the aQGC and nTGC

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In the SM effective field theory (SMEFT), the gauge interactions can be extended by dimension-8 operators contributing to anomalous triple gauge couplings (aTGCs) and anomalous quartic gauge couplings (aQGCs). The VBS processes at hadron colliders and the tri-boson production at lepton-colliders are suitable for probing aQGCs, and the di-boson production at lepton-colliders is suitable for studying nTGCs. We discuss the event selection strategies for measuring aQGCs or nTGCs, and give constraints on the anomalous gauge couplings. The validity of SMEFT has been taken into account in our works.

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