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Comparison of the sensitivities to dimension-eight operators for anomalous neutral triple gauge couplings through $pp \rightarrow \gamma\gamma\gamma$ process at HL/HE-LHC and FCC-hh

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We study the effects of dimension-eight operators giving rise to anomalous neutral triple gauge boson interactions in $Z\gamma\gamma$ and $Z\gamma Z$ vertices through the $\gamma\gamma\gamma$ production at HL/HE-LHC and FCC-hh. The analysis is performed using transverse momentum of photon in the final state including a realistic detector effects for the future hadron colliders. The sensitivity to CP-conserving and CP-violating , and couplings are obtained at 95% C.L. The results are compared to the current experimental limits from ATLAS and CMS results.

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