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Study on aNTGCs from D8 operators for ZZ production at FCC-hh

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We investigate the effects of dimension-eight operators of the anomalous neutral triple gauge boson interactions in ZZ production at 100 TeV centre of mass energy of circular hadron collider, namely FCC-hh. The analysis is performed on four-lepton final state including the realistic detector effects. The sensitivities to the CP-conserving $C_{\tilde{B}W}$ and CP-violating C_{BW} , C_{BB} , C_{WW} couplings are obtained at 95% C.L through the analysis of invariant mass distribution of 4l system and the results are compared with the latest experimental limits from the LHC.

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