

# The 2023 International Workshop on the High Energy Circular Electron Positron Collider

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## The study of nTGCs in Zgamma process at the CEPC

The neutral triple gauge couplings are absent in the Standard Model Effective Field Theory up to dimension-6 but could arise from dimension-8 operators. This study is performed based on the latest formulation with brand new fully gauge invariant treatment applied, and will focus on the measurement of pure gauge dimension-8 operators and set exclusive limits on its Wilson coefficients at 95% C.L. The study is performed by simulating  $5 \text{ ab}^{-1} e^+e^-$  collision data at 240GeV from the Circular Electron Positron Collider (CEPC) and will also provide an unique window to explore new physics beyond the SM.

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