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Probing New Physics in Higgs Couplings to Gauge Bosons

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Abstract

The high-luminosity phase of the LHC will provide new opportunities to probe Higgs couplings to gauge bosons and search for deviations from Standard Model predictions. In this work, we investigate new physics effects in the HWW, HZZ, and $HZ\gamma$ couplings, with particular emphasis on observables sensitive to their CP-odd form factors and their potential measurement at the LHC. We also explore how the polarization of the final-state gauge bosons may help reveal new physics contributions.

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