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Testing Gauge-Higgs Unification Models by Measuring the Triple Higgs Boson Coupling at Future Collider Experiments

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Gauge-Higgs Unification is a TeV-scale paradigm solving the hierarchy problem. It has a characteristic Higgs potential induced by quantum corrections.
In this work, as a realistic gauge-Higgs unification model we consider a SU(3) model with 5-dimensional Lorentz symmetry relaxed. And we consider the testability of this model by measuring the triple Higgs boson coupling at future collider experiments, such as the HL-LHC and ILC.

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