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Subleading operators and gamma5-scheme dependence in SMEFT for Higgs boson pair production

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We present the calculation of the contributions from the chromomagnetic and four-top-quark operators within Standard Model Effective Field Theory (SMEFT) to Higgs boson pair production in gluon fusion, combined with NLO QCD corrections. The four-quark operators enter at two loops in this process and require the choice of a scheme to continue γ_5 to D dimensions. We report about new findings related to the interplay between different operators and illustrate the impact on Higgs phenomenology.

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