

# Top-Yukawa-induced Corrections to Higgs Pair Production

*Thursday, November 10, 2022 5:40 PM (15 minutes)*

Higgs-boson pair production at hadron colliders is dominantly mediated by the loop-induced gluon-fusion process  $gg \rightarrow HH$  that is generated by heavy top loops within the Standard Model with a minor per-cent level contamination of bottom-loop contributions. The QCD corrections turn out to be large for this process. In this talk, we discuss the top-Yukawa-induced part of the electroweak corrections to this process and their relation to an effective trilinear Higgs coupling with integrated out top-quark contributions.

## Type of talk

Theory

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