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Top-Yukawa-induced Corrections to Higgs Pair Production

Thursday, 10 November 2022 17:40 (15 minutes)

Higgs-boson pair production at hadron colliders is dominantly mediated by the loop-induced gluon-fusion process gg⟶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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