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Higgs Self-Coupling and Yukawa Corrections to Higgs Boson Pair Production

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We present a calculation of the electroweak corrections to Higgs boson pair production in gluon fusion, involving Yukawa interactions and Higgs self-couplings only. The integrals appearing in the two-loop amplitude are evaluated numerically using both sector decomposition and series expansion of the differential equations. The full dependence on the masses of the top quark and Higgs boson are kept throughout the calculation.

Primary author: KERNER, Matthias (KIT)

Presenter: KERNER, Matthias (KIT) **Session Classification:** Parallel B

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