

Yukawa- and Higgs self-coupling corrections to di-Higgs production

Tuesday, November 5, 2024 2:50 PM (20 minutes)

Higgs pair production from gluon fusion is a process of high interest for the upcoming HL-LHC phase. In this talk we present our calculation of electro-weak NLO contributions comprising Yukawa-type and Higgs self-coupling corrections at two-loop level. Also, we show the effect of these corrections on the Higgs pair's invariant mass distribution.

Primary track

Higgs boson pairs and Higgs potential (including electroweak phase transitions and connections to cosmology)

Is the speaker a PhD student or post-doc?

Yes - My participation will be fully supported by my research group

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Session Classification: Higgs boson pairs and Higgs potential 1 - sal IX

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