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Partial NLO electroweak corrections to Higgs pair production in gluon fusion

We calculated the contributions of partial NLO electroweak corrections to the gluon-gluon fusion process for producing Higgs pairs, which are proportional to higher powers of the Higgs self-coupling lambda. Using these results, we obtained the form of the cross section varying with kappa lambda. Combined with the results of QCD NNLO FTapprox, this can be used to provide new ranges for the values of kappa lambda in experiments.

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