

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 λ . 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.

Primary authors: LI, Haitao (SHANDONG UNIVERSITY); WANG, Jian (Shandong University); 赵, 丹 (Shandong University); 张, 晓 (山东大学)

Presenter: 张, 晓 (山东大学)

Session Classification: 分会场一

Track Classification: TeV 物理和超出标准模型新物理