

# Higgs + 3-jet-production in NLO QCD

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## Summary

After the discovery of a Higgs boson during Run I at the LHC, Higgs physics has entered an era of precision measurements. Among the different production channels, gluon-gluon fusion (ggf) is the largest one and, in the presence of additional jets, constitutes also an irreducible background to the very important vector boson fusion process. A precise knowledge of the ggf channel is therefore fundamental. In this talk I will present NLO QCD results for the production of a Standard Model Higgs boson in association with up to three jets in ggf.

**Presenter:** LUISONI, Gionata (CERN)

**Session Classification:** EW + Top + Higgs