

Higgs production in gluon fusion in association with jets (15+5min)

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The largest contribution of the production of a Standard Model Higgs comes from the gluon fusion mechanism. The production of a Higgs in association with jets in this production mode is an important and dominant background to the VBF case. Its precise understanding is therefore mandatory for the reliable determination of the Higgs couplings and its properties. In this talk we present a detailed phenomenological analysis of this production mode, taking up to three jets at next-to-leading order QCD accuracy into account.

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