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Precise prediction for Higgs plus two jets production

Wednesday 30 October 2024 15:00 (30 minutes)

In this talk, I will present the NLO QCD prediction for loop-induced Higgs-plus-two-jets production (pp \rightarrow H + 2 jets) at the LHC in [2110.06953]. The top-quark mass effects in Born and real corrections are computed exactly, and the effects in the two-loop virtual corrections are taken into account through the so-called full-theory approximation. I will discuss the technical challenges for this calculation, and present inclusive and fiducial total cross sections as well as differential distributions.

Author: ZHANG, Hantian (Karlsruhe Institute of Technology)

Presenter: ZHANG, Hantian (Karlsruhe Institute of Technology) **Session Classification:** Selected topics on VBF and related