

## **Towards WBF with realistic final states and anomalous couplings at NNLO**

*Thursday, 20 October 2022 15:30 (20 minutes)*

I present fully differential studies of WBF at NNLO QCD that go beyond stable Higgs boson production. For the first time at this order, decays of the Higgs boson at leading order and anomalous weak couplings of the Higgs boson are included. I will show that for the  $H \rightarrow b\bar{b}$  decay channel currently employed implicit fiducial cuts on stable Higgs boson transverse momentum are crucial and might need to be adapted when radiative corrections to the decay process are taken into account.

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**Session Classification:** Selected topics on VBF and related