

Summary of the CMS Higgs and di-Higgs searches in bb final state including boosted topologies

Tuesday, November 8, 2022 11:50 AM (15 minutes)

This talk will present the latest CMS results on the measurement of Higgs boson production with $H \rightarrow bb$ decays. It will consider the Higgs boson production via gluon fusion in the boosted topology ($ggF Hbb$), via vector boson fusion ($VBF Hbb$), in association with a vector boson ($VH Hbb$), and with a top quark pair ($t\bar{t}Hbb$). In addition, the talk will discuss the latest results of the search for the non-resonant HH production in the $4b$ final state with full Run 2 LHC data.

Type of talk

Experimental measurements

Presenter: HAUBRICH, Nicholas Joseph (Princeton University (US))

Session Classification: Tuesday Session A

Track Classification: Physics Topics: Yukawa