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## ☒391☒ Measurement of the Higgs boson production in the associated vector boson production mode where the vector boson decays leptonically and the Higgs boson decays to a pair of bottom quarks

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In 2012, the ATLAS and CMS Collaborations announced the discovery of a new state with a mass around 125 GeV, compatible with the Standard Model Higgs boson.

In 2018, the Higgs boson to bottom quark coupling was observed with a significance of 5.6 sigma using the full Run 1+2016+2017 data by the CMS collaboration.

Further precision measurements of the Higgs boson coupling to bottom quark are currently being studied. This talk focuses on the latest update by the CMS Collaboration of measurements of the Higgs boson production with an associated vector boson where the vector boson decays leptonically and the Higgs boson decays to a pair of bottom quarks.

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