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Search for the standard model Higgs boson produced in vector boson fusion and decaying to bottom quarks using the Run1 and 2015 Run2 data samples.

A search for the standard model Higgs boson is presented in the Vector Boson Fusion production channel with decay to bottom quarks. A data sample comprising 2.2 fbˆ−1 of proton-proton collision at sqrt(s) = 13 TeV collected during the 2015 running period has been analyzed. Production upper limits at 95% Confidence Level are derived for a Higgs boson mass of 125 GeV, as well as the fitted signal strength relative to the expectation for the standard model Higgs boson. Results are also combined with the ones obtained with Run1 sqrt(s) = 8 TeV data collected in 2012.

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