

$t\bar{t}H(bb)$ in the all-hadronic final state

We present a search for the standard model Higgs boson decaying into b quarks and produced in association with a pair of top quarks decaying in the all-jet final state. This search is performed on 35.9 fb⁻¹ of 13-TeV proton-proton collisions collected by the CMS experiment at the LHC. To separate the $t\bar{t}H$ signal from the irreducible $t\bar{t} + b\bar{b}$ background, this analysis takes advantage of a matrix element method. A data-driven method has been used to estimate the large multijet background.

Primary author: CMS COLLABORATION

Presenter: CMS COLLABORATION

Session Classification: Heavy Quarks

Track Classification: Heavy Quarks