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【346】 Measurement of $t\bar{t}H(bb)$ in proton-proton collision data at 13 TeV

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Measuring the top quark Yukawa coupling is an important test of the standard model (SM) of particle physics and the production of a Higgs boson in association with top quarks ($t\bar{t}H$) is the only channel that allows a direct measurement of this SM parameter. This talk will focus on the measurement of $t\bar{t}H$ where the Higgs boson decays to bottom quarks. The data were collected by the CMS experiment in 2017 at a center-of-mass energy of 13 TeV at the LHC. Because of the small cross section and challenging final state, sophisticated methods for signal/background rejection as well as signal extraction are required.

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