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ttH Coupling Measurement with the ATLAS Detector at the LHC

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After the discovery of a Higgs boson, the measurements of its properties are at the forefront of research. The determination of the associated production of a Higgs boson and a pair of top quarks is of particular importance as the ttH Yukawa coupling is large, and thus a probe for physics beyond the Standard Model.

The ttH production was analysed in various final states with multileptons and covering as well

$H \rightarrow \gamma\gamma$ and

$H \rightarrow bb$.

The analysis was based on data taken by the ATLAS experiment recorded from 13 TeV proton-proton collisions.

The combined results are compared with the Standard Model (SM) expectation allowing models beyond the SM to be constrained.

Topic:

Topic: High Energy Particle Physics

Summary

Author: SOPCZAK, Andre (Czech Technical University (CZ))

Presenter: SOPCZAK, Andre (Czech Technical University (CZ))

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