



Contribution ID: 30

Type: **not specified**

Search for $t\bar{t}H$ production with Higgs decays to b quarks at the ATLAS detector

Searching for the production of Higgs boson in association with a pair of top quarks would allow a direct measurement of the top quark Yukawa coupling and will provide an important test of the Higgs mechanism within the Standard Model. A search for this process is presented using proton-proton collisions at $\sqrt{s} = 13$ TeV, collected by the ATLAS detector in both 2015 and 2016. Higgs boson decaying to two b quarks, and top pair decaying in semileptonic or dileptonic are considered.

Summary

Primary author: ASBAH, Nedaa Alexandra (Deutsches Elektronen-Synchrotron (DE))

Presenter: ASBAH, Nedaa Alexandra (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Poster Session & Finger-Food Dinner

Track Classification: Poster Session