



Contribution ID: 3

Type: **not specified**

Single top + Higgs \rightarrow $b\bar{b}$ at CMS in proton proton collisions at $\sqrt{s}=13$ TeV

The associated production of a single top quark together with a Higgs boson at the LHC can be used to lift the degeneracy regarding the sign of the top quark Yukawa coupling. We are looking for t-channel and tW -channel production where the Higgs boson is decaying into a $b\bar{b}$ pair. Boosted decision trees are used to reconstruct and classify the events. Exclusion limits are measured at 51 points in the c_v - c_f plane. I outline our analysis strategy and show first results of the 13 TeV run.

Summary

Author: FLOEH, Kevin Marcel (KIT - Karlsruhe Institute of Technology (DE))

Presenter: FLOEH, Kevin Marcel (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: Poster Session & Finger-Food Dinner

Track Classification: Poster Session