EPS-HEP2019



Contribution ID: 715

Type: Poster

Measurement of top-Higgs Yukawa coupling in tHq process with CMS

Monday 15 July 2019 19:40 (20 minutes)

Probing the top-Higgs Yukawa coupling precisely is currently one of the important mandates of the LHC experiments. While the magnitude of this coupling can be determined by studying the Higgs production with top anti-top pair, the sign can be estimated using production of Higgs boson in association with a single top quark. The data collected at the LHC is not yet sensitive to the process, since, in Standard Model the rate is very low. However an anomalous coupling can enhance the production rate. Results will be presented from the analysis performed so far with LHC data by CMS collaboration along with the future prediction for constraining the coupling.

Author: MEYER, Arnd (Rheinisch Westfaelische Tech. Hoch. (DE))Presenter: DAS, Pallabi (Tata Inst. of Fundamental Research (IN))Session Classification: Wine & Cheese Poster Session

Track Classification: Higgs Physics