

Search for additional Higgs Bosons in Final States with b-Quarks with the LHC Run II data at CMS

Friday 6 July 2018 20:15 (15 minutes)

Properties of the discovered 125 GeV Higgs boson are in good agreement with the predictions of the Standard Model (SM). However, the current precision of these measurements, allows models, such as Supersymmetry, with extended Higgs sectors, in which the discovered Higgs boson is only one of several Higgs bosons. The work focuses on the search for high mass Higgs bosons in a final state with b-quarks will be presented. The analysis was performed with data collected by the CMS experiment at a center-of-mass energy of 13 TeV in the year 2016, corresponding to an integrated luminosity of 36.9 fb⁻¹. Results of this analysis, as well as they interpretation within models, including the Minimal Supersymmetric Standard Model and Two Higgs Doublets Model, will be shown.

Authors: MEYER, Arnd (Rheinisch Westfaelische Tech. Hoch. (DE)); ASAWATANGTRAKULDEE, Chayanit (Deutsches Elektronen-Synchrotron (DESY))

Presenter: ASAWATANGTRAKULDEE, Chayanit (Deutsches Elektronen-Synchrotron (DESY))

Session Classification: POSTER

Track Classification: Posters