PANIC2021 Conference



Contribution ID: 475

Type: Talk

Beyond the SM Higgs physics at LHC (Direct and indirect from Higgs couplings)

Sunday 5 September 2021 13:55 (25 minutes)

The discovery of the Higgs boson with the mass of 125 GeV completed the particle content predicted by the Standard Model. Even though this model is well established and consistent with many measurements, it is not capable to solely explain some observations. Many extensions of the Standard Model addressing such shortcomings introduce additional Higgs-like bosons which can be either neutral, singly-charged or even doubly-charged. Precision measurements of the coupling of the Standard Model Higgs boson can also be used to place constraints on two-Higgs-doublet models. Constraints on the couplings of The current status of searches based on the full LHC Run 2 dataset of the ATLAS and CMS experiments at 13 TeV are presented.

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Session Classification: Energy frontier physics beyond the standard model

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