



Contribution ID: 302

Type: **not specified**

BSM Higgs searches at CMS

Thursday 26 August 2021 16:40 (20 minutes)

Since the first idea by Brout, Englert and Higgs in 1964, the Higgs boson had been searched for intensively. Finally, it was discovered at a mass of about 125 GeV in 2012 by the ATLAS and CMS experiments at the Large Hadron Collider (LHC) at CERN. While currently all measurements of e.g. cross sections and branching ratios show a good agreement with the Standard Model predictions, there are strong reasons to expect physics beyond the Standard Model, which could manifest itself in an extended Higgs sector. This could result in additional observable Higgs bosons, or in subtle deviations of the 125 GeV Higgs boson properties from the SM. This presentation summarizes recent results on searches for an extended Higgs sector in the CMS experiment.

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Session Classification: Electroweak, Top quark, and Higgs Physics

Track Classification: Electroweak, Top quark, and Higgs Physics