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Overview of BSM Higgs measurements at LHC, and prospects for the LHC high Energy run

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After the discovery at the LHC in 2012 of a scalar boson with a mass of 125 GeV, which has been found to be an ideal Higgs boson candidate, it is fundamental to understand not only the properties of such particle, but the structure of the whole Higgs sector itself. Several SM extensions (BSM models) predict the existence of additional Higgs bosons which should also couple to the SM particles, hence several searches for additional scalar, pseudoscalar, neutral and charged Higgses are ongoing at the LHC. In this talk are presened the recent results from the ATLAS and CMS experiments in the search for BSM Higgses using the data collected at 7 TeV and 8 TeV and the prospects for the upcoming data-taking runs, starting in 2015.

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