

# Higgs Boson Searches Beyond the Standard Model from ATLAS and CMS

André Sopczak, on behalf of the ATLAS and CMS Collaborations  
Institute of Experimental and Applied Physics,  
Czech Technical University in Prague

## Abstract

The latest results of Higgs boson searches beyond the Standard Model are reviewed from the ATLAS and CMS experiments. This includes searches for additional neutral, charged and double charged Higgs-like bosons, searches for dark matter produced in association with a Higgs boson and searches for new physics in Higgs boson pair production processes. Exotic Higgs boson decays are addressed as well. Interpretations are given in the hMSSM, a special parameterization of the Minimal Supersymmetric extension of the Standard Model in which the mass of the lightest Higgs boson is set to the LHC measured 125 GeV.