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Searches for BSM Higgs at ATLAS

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The discovery of the Higgs boson with the mass of about 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 addressing this fact introduce additional Higgs-like bosons which can be either neutral, singly-charged or even doubly-charged. Other theories suggest that the Higgs may couple to hidden-sector states, or other exotic Higgs decays to pseudoscalars that can explain the galactic center gamma-ray excess. This talk presents recent ATLAS searches for decays of the 125 GeV Higgs boson to a pair of new light bosons, and searches for additional Higgs bosons. The current status of searches based on full Run2 data of the ATLAS experiment at the LHC are presented.

Primary author: ATLAS COLLABORATION**Presenter:** MORVAJ, Ljiljana (Stony brook Universty (US))**Session Classification:** Searches for New Physics**Track Classification:** Searches for New Physics