Contribution ID: **73** Type: **not specified**

# Studies of the SM Higgs boson and searches for BSM Higgs bosons with the ATLAS Detector

*Thursday 10 March 2016 11:00 (30 minutes)*

The ATLAS collaboration has searched for the Standard Model Higgs Boson in the first run-2 data using 3.2 fbˆ(-1) at 13 TeV. Results are presented in terms of central value and limits on the fiducial and total cross-sections.
Several “Beyond Standard Model” theories predict the existence of additional heavy Higgs particles or di-Higgs resonances. Searches are conducted using the gamma-gamma, ZZ, WW and fermionic decay channels, and cover a large range of masses for the hypothetical resonances.

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**Session Classification:** Thursday Morning