Contribution ID: **509** Type: **Poster**

Search for Higgs boson pair production with the ATLAS detector

Friday, July 6, 2018 8:10 PM (20 minutes)

The Standard Model (SM) very successfully describes experimental observations, but is known to be an incomplete theory. Measurements of SM parameters and checks of its self consistency are important to improve our understanding of nature. An important parameter to understand electroweak symmetry breaking is the Higgs boson self-coupling, which can be accessed in Higgs boson pair production. These studies are already important now to search for potential effects of physics beyond the SM as well as to prepare for the analysis of the full dataset of the HL-LHC. This poster will present the latest results on the Higgs pair production with the ATLAS detector with a focus on the 4b and bbWW* final states.

Primary authors: ATLAS COLLABORATION; MYERS, John (University of Oregon (US))

Presenter: MYERS, John (University of Oregon (US))

Session Classification: POSTER

Track Classification: Higgs Physics