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Measurement of the Higgs boson coupling strengths in the ATLAS experiment

Tuesday, August 4, 2015 2:30 PM (30 minutes)

This talk presents the combined measurement of the Higgs boson coupling strengths using the full Run I data sample recorded by the ATLAS detector. Results from the $H \rightarrow \gamma\gamma$, ZZ , WW , $Z\gamma$, $\tau\tau$, bb and $\mu\mu$ decay modes are presented, as well as constraints on associated Higgs production with a top quark pair and on the off-shell coupling strengths of the Higgs boson. For all benchmark models considered, the data are found to be compatible with the expectations for a Standard Model Higgs boson.

Oral or Poster Presentation

Oral

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