## **DPF2015**



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## Measurement of the Higgs boson coupling strengths in the ATLAS experiment

Tuesday, 4 August 2015 14:30 (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-> $\gamma\gamma$ , 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 offshell 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

**Primary author:** ZHANG, Fangzhou (University of Wisconsin (US))

Presenter: ZHANG, Fangzhou (University of Wisconsin (US))

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