



Contribution ID: 185

Type: **Parallel Sessions**

# Measurements and interpretations of Simplified Template Cross Sections and differential and fiducial cross sections in Higgs boson decays to two W bosons with the ATLAS detector

*Thursday, 21 October 2021 16:10 (10 minutes)*

The Higgs boson decay to two W bosons has the largest bosonic branching fraction and can be used to perform some of the most precise measurements of the Higgs boson production cross sections. This talk will present cross section measurements using pp collision data collected at 13 TeV, including those for the different Higgs boson production processes in the Simplified Template Cross Section framework.

**Primary authors:** ATLAS COLLABORATION; RIU, Imma (IFAE Barcelona (ES))

**Presenter:** HAYES, Robin (University of British Columbia (CA))

**Session Classification:** Parallel: Precision and Properties

**Track Classification:** Higgs-boson precision physics