

# Measurements of Higgs boson cross-sections and their interpretation with the ATLAS experiment

*Thursday 18 July 2024 08:40 (17 minutes)*

The Higgs boson decay to two bosons can be used to perform some of the most precise measurements of the Higgs boson production cross sections. This talk presents the more recent Higgs boson cross section measurements by the ATLAS experiment in the bosonic decay channel. Interpretations of these results in the context of Standard Model effective field theories will be presented. The results are based on pp collision data collected at 13 TeV during Run 2 of the LHC.

## Alternate track

### I read the instructions above

Yes

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**Session Classification:** Higgs Physics

**Track Classification:** 01. Higgs Physics