



Contribution ID: 198

Type: **Parallel session talk**

## **Measurements and interpretations of Simplified Template Cross Sections, differential and fiducial cross sections in Higgs boson decays to four leptons with the ATLAS detector**

*Monday 26 July 2021 10:22 (11 minutes)*

Higgs boson decays to four leptons can be selected with a very high purity and are very well suited for measurements of Higgs boson properties, despite the small  $H \rightarrow ZZ \rightarrow 4l$  branching ratio. This talk will present measurements of differential cross sections, as well as cross section measurements for the different Higgs boson production processes in the Simplified Template Cross Section framework using pp collision data collected at 13 TeV.

### **First author**

Lidija Zivkovic

### **Email**

Lidija.Zivkovic@cern.ch

### **Collaboration / Activity**

ATLAS

**Primary author:** ANASTOPOULOS, Christos

**Presenter:** ANASTOPOULOS, Christos

**Session Classification:** T09: Higgs Physics

**Track Classification:** Higgs Physics