

## Legacy Run 2 measurements of the Higgs cross-section in tautau and other final states with ATLAS (24+6)

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The IFIC ATLAS group has been one of the main contributors to the recently released results of the Higgs boson measurements in the  $H \rightarrow \tau\tau$  channel using the Run-2 dataset (arXiv:2407.16320). This new analysis includes a significant extension of the measurements in the Simplified Template Cross-Section (STXS) framework for VBF and  $t\bar{t}H$  production. Furthermore, the first ATLAS  $H \rightarrow \tau\tau$  unfolded fiducial differential measurement is performed in the VBF phase space, whose results are interpreted within the SMEFT framework. This result will be discussed along with other ATLAS cross-section measurements

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