

Study of the SM Higgs boson decaying to WW with ATLAS

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After the discovery of the Standard Model Higgs boson in 2012, we have entered the era of precision measurements of this particle. The decay to two W bosons constitutes the second largest branching ratio for the decay of the Higgs. An overview of the analysis strategy in the Higgs boson cross section measurement in the $H \rightarrow WW^{(*)} \rightarrow e\nu\mu\nu$ decay channel performed by the ATLAS experiment will be presented. The measurement is made using proton-proton collision data at $\sqrt{s}=13$ TeV collected during 2015 and 2016, corresponding to an integrated luminosity of 36/fb. As the analysis is currently being finalised, focus will be on the analysis method and selections.

Summary

Primary author: SIDEBO, Edvin (KTH Royal Institute of Technology (SE))

Presenter: SIDEBO, Edvin (KTH Royal Institute of Technology (SE))

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