

Study of the H- \rightarrow tau+tau decay channel with ATLAS

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After the discovery of the Higgs boson, the precision measurements of its properties and comparison with the Standard Model (SM) predictions became a crucial part of the LHC physics programme. A potential observation of deviations may lead to the indirect discovery of physics beyond the Standard Model (BSM). The direct observation of the coupling of the Higgs boson to leptons and its measurements is of particular importance to study the mass generation for leptons. In this contribution, the results of analyses of the Higgs boson properties in the H- \rightarrow tau tau decay channel are presented. The measurements of Higgs SM couplings with 36.1 fb^{-1} of data collected by ATLAS at $\sqrt{s} = 13 \text{ TeV}$ are shown.

Primary authors: ATLAS COLLABORATION; MLYNARIKOVA, Michaela (Charles University (CZ))

Presenter: MLYNARIKOVA, Michaela (Charles University (CZ))

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