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Measurement of cross sections and couplings of the Higgs Boson in fermionic production and decay modes with the ATLAS detector

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At the LHC, the most promising channel for probing the coupling of the Higgs field to the quarks and leptons are $H \rightarrow b\bar{b}$ and $H \rightarrow \tau\tau$, respectively. In this talk I will be presenting the latest ATLAS results on these two channels. The rare $H \rightarrow \mu\mu$ decay is also investigated. In many scenarios beyond the standard model (BSM) the couplings of the Higgs to fermions is altered. In ATLAS many BSM searches involving Higgs fermionic decays take place.

Summary

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