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Search for a Higgs boson in fermion modes using the ATLAS detector

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Since the discovery of a Higgs-like boson by the ATLAS and CMS experiments at the LHC, the emphasis has shifted towards measurements of its properties in order to determine whether the new particle is the Standard Model (SM) Higgs boson, or something else. Of particular importance is the direct observation of the coupling of the Higgs boson to fermions. In this presentation a comprehensive review of ATLAS results in the search for the Higgs boson in the main fermion decay ($b\bar{b}$ and $\tau\tau$) channels and in various production modes (VBF, VH, $t\bar{t}H$, and gluon fusion) will be given.

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