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Search for the Higgs boson in the tau + tau- channel using the ATLAS detector

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Abstract: 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 and the search in the less sensitive channels in order to determine whether the new particle is the Standard Model (SM) Higgs boson. Of particular importance is the direct observation of the coupling of the Higgs boson to leptons. In this presentation a comprehensive review of ATLAS results in the search for the Higgs boson in the tau-tau decay channel and in various production modes (VBF, VH, tH, and gluon fusion) will be given.

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