

Physics with Tau Lepton Final States in ATLAS

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Physics involving tau lepton signatures form an integral part of the ATLAS physics program, and are becoming more prevalent, given the large amounts of data accumulated in 2011 and 2012 LHC running. This talk reviews the increased sensitivity of searches for a Standard Model Higgs boson in the low mass region, as well as searches for neutral and charged supersymmetric Higgs bosons, decaying to tau final states.

Other searches involving tau lepton signatures are also reviewed, including searches for heavy gauge bosons, leptoquarks, and supersymmetric decays. Standard Model processes from W, Z, and top pair production involving tau leptons are also investigated.

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