APS DIVISION OF PARTICLES & FIELDS
DPF 2017
MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

Contribution ID: **131** Type: **Presentation**

Search for lepton-flavour-violating decays of the Higgs boson with the ATLAS experiment

Thursday, 3 August 2017 13:30 (20 minutes)

A direct search for lepton flavour violation in decays of the Higgs boson with the ATLAS detector at the LHC is presented. The analysis is performed in the $H \to \ell\tau$ channel, where the leading lepton can be either an electron or a muon and where the tau decays hadronically. The search is based on the data sample of proton–proton collisions collected by the ATLAS detector corresponding to an integrated luminosity of 36 fb−1 at a centre-of-mass energy of $\sqrt{s}$=13TeV.

Primary author: Mr PATHAK, Atanu (University of Louisville)

Co-author: Prof. BANERJEE, Swagato (University of Louisville)

Presenter: Mr PATHAK, Atanu (University of Louisville)

Session Classification: Higgs and EWSB

Track Classification: Higgs and EWSB