



LHC Seminar

SPEAKER: R D Schaffer

TITLE: **Measurements of Higgs boson properties in the $H \rightarrow ZZ^{*} \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ channels at $\sqrt{s}=13$ TeV using the ATLAS detector**

DATE: 5 Sep 2017, 11:00

PLACE: 500-1-001 - Main Auditorium

ABSTRACT

Recent measurements of the Higgs boson properties in the four lepton and di-photon channels for 36.1 fb^{-1} of pp collisions at 13 TeV using the ATLAS detector will be presented. The measurements include the Higgs boson mass as well as inclusive, fiducial, differential and, so-called, simplified template cross sections. Constraints on Higgs boson couplings are derived and interpreted within the Standard Model and various extensions.