



LHC Seminar

SPEAKER: Hongtao Yang
TITLE: **Higgs boson properties -updated results from Run-2 ATLAS data-**
DATE: 23 Apr 2019, 11:00
PLACE: 500-1-001 - Main Auditorium

ABSTRACT

Significant improvements in the determination of Higgs boson properties have been obtained by combining individual (simplified template) cross section measurements from pp collision data collected from 2015 - 2017 at a centre-of-mass energy of 13 TeV with the ATLAS detector at the LHC. The results are interpreted in the kappa-framework (coupling modifiers), taking also into account searches for invisible Higgs boson decays and off-shell Higgs boson production. In addition, the combined measurements are used to set constraints on generic two-Higgs-doublet models and on the hMSSM.