

Sunday 11 July

14:30

Higgs & Electroweak Physics: HIG 1B

Session | Location: Zoom, Track B | Conveners: Nicholas Bower, Nan Lu

14:30-14:45

Measurement of the properties of Higgs boson production at $\space{13} = 13 \text{ TeV}$ in the diphoton decay channel using 139 fb^{-1} of \$pp\$ collision data with the ATLAS experiment

Speaker

Chen Zhou

14:45-15:00

Analysis Optimization of the VBF HWW Measurement at the ATLAS Experiment

Speaker

Sagar Addepalli

15:00-15:15 ttH and ttW analysis in multileptons channel

Speaker

Rohin Thampilali Narayan

15:15-15:30

Higgs to two b's or not two b's: The measurement for a Standard Model Higgs boson, prooduced in association with a W or Z boson, decaying into a pair of b-quarks in pp collisions at 13 TeV with the ATLAS detector

Speaker

Ms Amy Tee

15:30-15:45 NLO Merging using HJets

Speaker

Tinghua Chen

15:45-16:00

W + W - H production through bottom quarks fusion at hadron colliders

Speaker

Biswajit Das

16:00 14:30

Higgs & Electroweak Physics: HIG 1L

Session | Location: Zoom, Track L | Conveners: Laura Reina, Evelyn Jean Thomson

14:30-14:45 Higgs to charm quarks in vector boson fusion plus a photon

Speaker

Sze Ching Iris Leung

14:45-15:00

Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment

Speaker

Zijun Xu

15:00-15:15

Search for the Higgs boson decaying to a pair of muons in pp collisions at 13 TeV with the ATLAS detector

Speaker

Jay Chan

15:15-15:30

Search for Higgs boson decays to bottom quarks in the vector boson fusion production mode with the ATLAS detector

Speaker

Matthew Henry Klein

15:30-15:45

Study of inclusive Higgs-boson production at high transverse momentum in the \$H\to b\bar{b}\$ decay mode with the ATLAS detector

Speaker

Dr Andrea Sciandra

15:45-16:00

Using the light: A search for vector boson fusion production of the $H(\rightarrow b \bar{b})\gamma\$ final state at $\sqrt\{s\}=13\$ TeV with the ATLAS detector

Speaker

Carolyn Gee

16:00 16:15

Higgs & Electroweak Physics: HIG 2B

Session | Location: Zoom, Track B | Conveners: Nan Lu, Laura Reina, Robin Erbacher

16:15-16:30

Search for resonant pair production of Higgs bosons in the bbbb final state using 139 fb $^{-1}$ \$ of $\frac{s}{s}= 13$ TeV pp collision data with the ATLAS detector

Speaker

Rui Zhang

16:30-16:45

Search for non-resonant di-Higgs production in the HH->bbyy decay channel in pp collisions at sqrt(s) = 13 TeV with the ATLAS detector

Speaker

Alex Zeng Wang

16:45-17:00 Search for Resonant and Non-Resonant VHH Production

Speaker

Nicholas Graves Kyriacou

17:00-17:15 Studies of \$t\bar{t}HH\$ with the CMS Detector

Speaker

Wei Wei

17:15-17:30

Search for di-Higgs production with ATLAS experiment in the bblvlv final state

Speaker

Zhe Yang

17:30-17:45

Theoretical Uncertainties in the Higgs Boson Pair Production in the \$b\bar{b} \tau\tau\$ Decay Channel

Speaker

Jem Aizen Mendiola Guhit

17:45

Monday 12 July

14:30

Higgs & Electroweak Physics: HIG 3B Session | Location: Zoom, Track B | Conveners: Nan Lu, Tania Natalie Robens 14:30-14:45 **Break** 14:45-15:00 Di-Higgs observation as a probe of Higgs self-coupling Speaker Dr Amit Adhikary 15:00-15:15 Triple Higgs production in and beyond the SM at proton-proton colliders Gilberto Tetlalmatzi-Xolocotzi 15:15-15:30 Beyond the Standard Model Effective Field Theory: The Singlet Extended Standard Model and Higgs Flts Speaker Ian Lewis 15:30-15:45 Effective Field Theory interpretation of the VBF HWW differential analysis with the ATLAS detector Speaker Jiayi Chen 15:45-16:00 Search for Rare Higgs Decays into Z Bosons and J/Psi Mesons or into Quarkonium Pairs with the CMS Experiment **Speaker**

16:00

16:15

Higgs & Electroweak Physics: HIG 4B

Session | Location: Zoom, Track B | Conveners: Manfred Kraus, Manfred Paulini

16:15-16:30

Mr Himal Acharya

Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state

Speaker

Heshy Roskes

16:30-16:45

Searching for lepton-flavour-violating decays of the Higgs boson with the ATLAS detector

Speaker

Michaela Mlynarikova

16:45-17:00 Off-shell Higgs Couplings in H*→ZZ→ℓℓงง



17:45

Tuesday 13 July

14:30 Higgs & Electroweak Physics: HIG 5B Session | Location: Zoom, Track B | Conveners: Xiangyang Ju, Nathaniel Craig 14:30-14:45 NLO EW corrections to \$W^{+}Z\gamma\$ production in SM and tree-level effects of dimension-eight operators in SMEFT at the LHC Speaker **Huanfeng Cheng** 14:45-15:00 Higgs Physics at FCC-ee **Speaker** Jan Eysermans 15:00-15:15 Quark and Gluon Contents of a Lepton at High Energies Speaker Mr Yang Ma 15:15-15:30 Muon-electron scattering at NNLO for the MUonE experiment Speaker Syed Mehedi Hasan 15:30-15:45 Collider and GW complementarity in the 2HDM Speaker AJAY Kaladharan 15:45-16:00 Strong First-Order Electroweak Phase Transitions in the Standard Model with a **Singlet Extension** Speaker Anthony Hooper 16:00 16:15 Higgs & Electroweak Physics: HIG 6B Session | Location: Zoom, Track B | Conveners: Manfred Paulini, Xiangyang Ju

16:15-16:30 Colliding light: photon fusion production at ATLAS

Speaker

Jesse Liu

16:30-16:45

Search for vector boson scattering production of VW pairs in the semi-leptonic channel at CMS

Speaker

Flavia Cetorelli

16:45-17:00

Deep Learning-based Tagger for Boosted WW(*) Semi-leptonic Decays at ATLAS

Speaker

Dewen Zhong

17:00-17:15

Drell-Yan angular lepton distributions at small \$x\$ from TMD factorization

Speaker

Prof. Ian Balitsky

17:15-17:30

First Order Electroweak Phase Transition from Weakly Coupled sub-GeV Physics

Speaker

Dr Hooman Davoudiasl

17:30-17:45

A measurement of the $D^* \leq \phi(K \pi \circ 0)$ decay channel as pertaining to the production of a \$W\$ boson in association with a charm quark in \$pp\$ collisions at $\sqrt{s} = 13$; \mathrm{TeV}\$ with the ATLAS Detector

Speaker

Rohith Anand Karur

17:45