Session Program

Mar 23 – 27, 2020

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects

Electroweak Physics and Beyond the Standard Model

Brooklyn, NY
333 Adams Street, Brooklyn, New York 11201, USA

Tue, March 24

9:00 AM

Electroweak Physics and Beyond the Standard Model: Day2-morning-1

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Nansi Andari, Sonny Mantry, Aram Apyan

9:00 – 9:20 AM

Measurement of the Higgs boson properties in decays to bosons using the ATLAS detector

Speaker
Sana Ketabchi Haghighat

9:20 – 9:40 AM **Recent H->WW results using CMS data**

Speaker
Mattia Lizzo

9:40 – 10:05 AM

Higgs boson production in association with a ttbar pair at the ATLAS experiment

Speaker
Zhi Zheng

10:05 – 10:30 AM **CMS Higgs boson measurements in fermionic final states**

Speaker
Mareike Meyer

10:30 AM

11:00 AM

Electroweak Physics and Beyond the Standard Model: Day2-morning-2

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Aram Apyan, Nansi Andari, Sonny Mantry

11:00 – 11:30 AM **A combined SMEFT analysis of the top quark and Higgs sectors**

Speaker
Jacob Ethier

11:30 – 11:50 AM **Combined Higgs boson measurements at the ATLAS experiment**

Speaker
Fabian Horst Becherer

11:50 AM – 12:20 PM **Higgs pair production at NNNLO**

Speaker
Haitao Li

12:20 – 12:40 PM

Constraining the Higgs boson self-coupling in a combined measurement of single and double Higgs boson channels at the ATLAS experiment

Speaker
Eleonora Rossi

12:40 – 1:00 PM **FCNC and EFT interpretations at CMS**

Speaker
Robert Schoefbeck

1:00 PM

2:30 PM

Electroweak Physics and Beyond the Standard Model: Day2-afternoon-1

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Aram Apyan, Nansi Andari, Sonny Mantry

2:30 – 3:00 PM **Constraints on anomalous quartic gauge couplings at the LHC**

Speaker
Justin Williams

3:00 – 3:20 PM **Multiboson results in CMS**

Speaker
Miao Hu

3:20 – 3:40 PM **Measurements of diboson production at ATLAS**

Speaker
Daniel James LEWIS

3:40 – 4:00 PM
Prospects for measurements of H/Z production cross section ratios using CMS Run II data

Speaker
Louis Moureaux

4:00 PM

4:30 PM

Electroweak Physics and Beyond the Standard Model: Day2-afternoon-2

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

4:30 – 5:00 PM **Searches for new resonances with CMS**

Speaker
Abhijith Gandrakota

5:00 – 5:20 PM
ATLAS Searches for Resonances Decaying to Boson Pairs (VV, VH and HH)

Speaker
David KIRCHMEIER

5:20 – 5:40 PM
Search for new physics in leptonic or hadronic final states with the ATLAS detector

Speaker
Binbin DONG

5:40 – 6:00 PM **Searches for additional Heavy Higgs bosons in ATLAS**

Speaker
Theodoros Georgio ZORBAS

6:00 PM

Wed, March 25

9:00 AM

Electroweak Physics and Beyond the Standard Model: Day3-morning-1

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

9:00 – 9:20 AM

Non-perturbative contributions to transverse momentum spectra in hadronic collisions

Speaker
Dr Francesco Hautmann

9:20 – 9:45 AM

Measurements of W and Z boson production at ATLAS

Speaker
Mykola KHANDOGA

9:45 – 10:10 AM

Electroweak and QCD aspects in V+jets in CMS

Speaker
Elisabetta Gallo

10:10 – 10:30 AM

Transverse momentum resummation for Z boson and jets production

Speaker
Dr Dingyu Shao

10:30 AM

11:00 AM

Electroweak Physics and Beyond the Standard Model: Day3-morning-2

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

11:00 – 11:20 AM

Tests of performance of the fit in a global QCD analysis

Speaker
Pavel Nadolsky

11:20 – 11:40 AM

The transverse momentum spectrum of low mass Drell-Yan production at next-to-leading order in the parton branching method

Speakers
Qun Wang, Aleksandra Lelek

11:40 AM – 12:00 PM

reSolve – Transverse Momentum Resummation Calculator

Speaker
Thomas Cridge

12:00 – 12:20 PM

Automatic one loop EW-Sudakov corrections in SHERPA

Speaker
Davide Napoletano

12:20 – 12:40 PM

Using associated production of top quarks and neutral bosons to probe standard model couplings and search for new physics

Speaker
Knut Zoch

12:40 – 1:00 PM **tZ' production at hadron colliders**

Speaker
Marco Guzzi

1:00 PM

2:30 PM

Electroweak Physics and Beyond the Standard Model: Day3-afternoon-1

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

2:30 – 2:55 PM
High-precision PDFs and DIS experiments for electroweak observables

Speaker
Timothy Hobbs

2:55 – 3:15 PM
"Electroweak and Beyond the Standard Model Physics at the future Electron-Ion Collider""

Speaker
Dr Yulia Furletova

3:15 – 3:40 PM
Measurements of dileptons and photon pairs from two-photon scattering in ultra-peripheral and hadronic Pb+Pb collisions with the ATLAS detector

Speaker
Brian COLE

3:40 – 4:00 PM **Latest results from the NA62 experiment at CERN.**

Speaker
Paolo Massarotti

4:00 PM

4:30 PM

Electroweak Physics and Beyond the Standard Model: Day3-afternoon-2

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

4:30 – 5:00 PM **Searches for Long-Lived particles with CMS : Status and prospects**

Speaker
Jingyu Luo

5:00 – 5:20 PM
Searches for BSM physics using challenging and long-lived signatures with the ATLAS detector

Speaker
Cristiano David SEBASTIANI

5:20 – 5:40 PM
Searches for rare and exotic decays of the Higgs Boson with the ATLAS detector

Speaker
Christopher HAYES

5:40 – 6:00 PM **Dark Matter searches with the ATLAS Detector**

6:00 PM

Speaker
Eric Edward CORRIGAN

Thu, March 26

9:00 AM

Electroweak Physics and Beyond the Standard Model: Day4-morning-1

Session | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

9:00 – 9:30 AM

Grand Unified origin of gauge interactions and families replication in the Standard Model

Speaker
Roman Pasechnik

9:30 – 9:50 AM

Searches for supersymmetry in final states with photons at CMS

Speaker
Peter Major

9:50 – 10:10 AM

Searches for new phenomena in final states with 3rd generation quarks using the ATLAS detector

Speaker
Elham E KHODA

10:10 – 10:30 AM

Recent SUSY searches with the ATLAS detector

Speaker
George DYCKES

10:30 AM