

Session Program

23-27 Mar 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

Tuesday 24 March

09:00

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, Aram Apyan, Sonny Mantry

09:00–09:20

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

Speaker

Sana Ketabchi Haghighat

09:20–09:40

Recent $H \rightarrow WW$ results using CMS data

Speaker

Mattia Lizzo

09:40–10:05

Higgs boson production in association with a $t\bar{t}$ pair at the ATLAS experiment

Speaker

Zhi Zheng

10:05–10:30

CMS Higgs boson measurements in fermionic final states

Speaker

Mareike Meyer

10:30

11:00

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

A combined SMEFT analysis of the top quark and Higgs sectors

Speaker

Jacob Ethier

11:30–11:50

Combined Higgs boson measurements at the ATLAS experiment

Speaker

Fabian Horst Becherer

11:50–12:20

Higgs pair production at NNNLO

Speaker

Haitao Li

12:20–12:40

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

Speaker

Eleonora Rossi

12:40–13:00

FCNC and EFT interpretations at CMS

13:00

Speaker

Robert Schoefbeck

14:30

Electroweak Physics and Beyond the Standard Model: Day2-afternoon-1**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Sonny Mantry, Nansi Andari, Aram Apyan

14:30–15:00

Constraints on anomalous quartic gauge couplings at the LHC**Speaker**

Justin Williams

15:00–15:20

Multiboson results in CMS**Speaker**

Miao Hu

15:20–15:40

Measurements of diboson production at ATLAS**Speaker**

Daniel James LEWIS

15:40–16:00

Prospects for measurements of H/Z production cross section ratios using CMS Run II data**Speaker**

Louis Moureaux

16:00

16:30

Electroweak Physics and Beyond the Standard Model: Day2-afternoon-2**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA

16:30–17:00

Searches for new resonances with CMS**Speaker**

Abhijith Gandrakota

17:00–17:20

ATLAS Searches for Resonances Decaying to Boson Pairs (VV, VH and HH)**Speaker**

David KIRCHMEIER

17:20–17:40

Search for new physics in leptonic or hadronic final states with the ATLAS detector**Speaker**

Binbin DONG

17:40–18:00

Searches for additional Heavy Higgs bosons in ATLAS**Speaker**

Theodoros Georgio ZORBAS

18:00

Wednesday 25 March

09:00

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

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

09:00–09:20

Non-perturbative contributions to transverse momentum spectra in hadronic collisions

Speaker

Dr Francesco Hautmann

09:20–09:45

Measurements of W and Z boson production at ATLAS

Speaker

Mykola KHANDOGA

09:45–10:10

Electroweak and QCD aspects in V+jets in CMS

Speaker

Elisabetta Gallo

10:10–10:30

Transverse momentum resummation for Z boson and jets production

Speaker

Dr Dingyu Shao

10:30

11:00

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

Tests of performance of the fit in a global QCD analysis

Speaker

Pavel Nadolsky

11:20–11:40

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

11:40–12:00

reSolve - Transverse Momentum Resummation Calculator

Speaker

Thomas Cridge

12:00–12:20

Automatic one loop EW-Sudakov corrections in SHERPA

Speaker

Davide Napoletano

12:20–12:40

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

Speaker

Knut Zoch

13:00

12:40–13:00 tZ' production at hadron colliders**Speaker**

Marco Guzzi

14:30

Electroweak Physics and Beyond the Standard Model: Day3-afternoon-1**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA**14:30–14:55****High-precision PDFs and DIS experiments for electroweak observables****Speaker**

Timothy Hobbs

14:55–15:15**"Electroweak and Beyond the Standard Model Physics at the future Electron-Ion Collider"****Speaker**

Dr Yulia Furletova

15:15–15:40**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

15:40–16:00**Latest results from the NA62 experiment at CERN.****Speaker**

Paolo Massarotti

16:00

16:30

Electroweak Physics and Beyond the Standard Model: Day3-afternoon-2**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA**16:30–17:00****Searches for Long-Lived particles with CMS : Status and prospects****Speaker**

Jingyu Luo

17:00–17:20**Searches for BSM physics using challenging and long-lived signatures with the ATLAS detector****Speaker**

Cristiano David SEBASTIANI

17:20–17:40**Searches for rare and exotic decays of the Higgs Boson with the ATLAS detector****Speaker**

Christopher HAYES

17:40–18:00**Dark Matter searches with the ATLAS Detector****Speaker**

Eric Edward CORRIGAN

18:00

Thursday 26 March

09:00

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

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

09:00–09:30

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

Speaker

Roman Pasechnik

09:30–09:50

Searches for supersymmetry in final states with photons at CMS

Speaker

Peter Major

09:50–10:10

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

Speaker

Elham E KHODA

10:10–10:30

Recent SUSY searches with the ATLAS detector

Speaker

George DYCKES

10:30