Session Program

Apr 12 – 16, 2021

XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects

Electroweak Physics and Beyond the Standard Model

Stony Brook, NY, Virtual
Online

Tue, April 13

9:25 AM

Electroweak Physics and Beyond the Standard Model: Parallel Sessions 1

Session | **Location:** Stony Brook, NY, Virtual, Online | **Convener:** Aram Apyan

9:25 – 9:40 AM

Measurements and searches of Higgs boson production involving fermion couplings with the ATLAS detector

Speaker
Shigeki Hirose

9:43 – 9:58 AM

Measurement of CP structure in Higgs boson decays to a pair of tau leptons at CMS

Speaker
VINAYA KRISISHNAN MB

10:01 – 10:16 AM

Indirect CP probes of the Higgs–top-quark interaction: current LHC constraints and future opportunities

Speaker
Henning Bahl

10:19 – 10:34 AM

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

Speaker
Mr Dongshuo Du

10:37 – 10:52 AM

Recent H->WW results using CMS data

Speaker
Mattia Lizzo

10:55 – 11:10 AM

Resummation for tqH production

Speaker
Matthew Forslund

11:13 – 11:28 AM

Combined Higgs boson measurements at the ATLAS experiment

Speaker
Bianca Ciungu

11:35 AM

12:00 PM

Electroweak Physics and Beyond the Standard Model: Parallel Sessions 2

Session | **Location:** Stony Brook, NY, Virtual, Online | **Convener:** Nansi Andari

12:00 – 12:15 PM

Measurements of the W branching fractions in ttbar production with the ATLAS experiment at the LHC

Speaker
Guennadi Borissov

12:18 – 12:33 PM
Differential measurement of the Z/photon cross section and collinear Z emission

Speaker
Giacomo Zecchinelli

12:36 – 12:51 PM
Drell-Yan pT with NLO-matched Parton Branching TMDs at energies from fixed-target to LHC

Speaker
Aleksandra Lelek

12:54 – 1:09 PM **Measurements of W and Z boson production at ATLAS**

Speaker
Zhibo Wu

1:12 – 1:27 PM
Measurement of W and Z boson production in association with jets at ATLAS

Speaker
Federico Sforza

1:30 – 1:45 PM
Complementarity of Lepton-Charge and Forward-Backward Drell-Yan Asymmetries for Precision Electroweak Measurements and Quark Density Determinations

Speaker
Juri Fiaschi

1:55 PM

Wed, April 14

8:00 AM

Electroweak Physics and Beyond the Standard Model: Parallel Sessions 3

Session | **Location:** Stony Brook, NY, Virtual, Online | **Convener:** Sonny Mantry

8:00 – 8:15 AM

Event-Based Jet Vetoes: A new prospect for multi-lepton searches at the LHC

Speaker
Richard Ruiz

8:18 – 8:33 AM

Searches for Higgs-like or diboson resonances with the ATLAS detector

Speaker
Joseph Carter

8:36 – 8:51 AM

Search for lepton flavor violation in B and tau decays at Belle

Speaker
Markus Röhrken

8:54 – 9:09 AM

Charged Lepton Flavor Violation at the EIC

Speaker
Bin Yan

9:12 – 9:27 AM

Searching for leptoquarks with the ATLAS detector

Speaker
Stergios Kazakos

9:45 AM

10:00 AM

Electroweak Physics and Beyond the Standard Model: Parallel Sessions 3

Session | **Location:** Stony Brook, NY, Virtual, Online | **Convener:** Nansi Andari

10:00 – 10:15 AM

tW and tZ' production at hadron colliders

Speaker
Nikolaos Kidonakis

10:18 – 10:33 AM

Measurements of the top quark electro-weak couplings with the ATLAS experiment at the LHC

Speaker
Joseph Boudreau

10:36 – 10:51 AM

Mu2e DAQ and slow control systems

Speaker
Antonio Gioiosa

10:54 – 11:09 AM

The Photon PDF within the CT18 global analysis

Speaker
Keping Xie

11:12 – 11:27 AM **PineAPPL: NLO EW corrections for PDF processes**

Speaker
Christopher Schwan

11:45 AM

12:15 PM

Electroweak Physics and Beyond the Standard Model: Parallel Sessions 4

Session | **Location:** Stony Brook, NY, Virtual, Online | **Convener:** Aram Apyan

12:15 – 12:30 PM
Searches for Dark Matter produced in association with a Higgs boson and invisible decays of the observed Higgs boson using the ATLAS detector

Speaker
Alexander Leopold

12:33 – 12:48 PM **Dark Matter searches with the ATLAS Detector**

Speaker
Guglielmo Frattari

12:51 – 1:06 PM **Searches for invisible scalar decays at CLIC**

Speaker
Krzysztof Mekala

1:09 – 1:24 PM
Dark matter searches with mono-photon signature at future e^+e^- colliders

Speaker
Aleksander Filip Zarnecki

1:27 – 1:42 PM **Pair production of charged IDM scalars at high energy CLIC**

Speaker
Jan Klamka

2:00 PM

Thu, April 15

8:00 AM

Electroweak Physics and Beyond the Standard Model: Parallel Sessions 5

Session | **Location:** Stony Brook, NY, Virtual, Online | **Convener:** Sonny Mantry

8:00 – 8:15 AM **Diboson cross section measurements at 5 TeV in CMS**

Speaker
Andrea Trapote Fernández

8:18 – 8:33 AM **Measurements of multi-boson production at ATLAS**

Speaker
Matous Vozak

8:36 – 8:51 AM **WW boson pair production at 13 TeV using CMS data**

Speaker
Pedro Fernández Manteca

8:54 – 9:09 AM
Searches for quartic anomalous coupling at the LHC with intact protons

Speaker
Christophe Royon

9:12 – 9:27 AM
Recent observation and measurements of vector-boson fusion and scattering with ATLAS

Speaker
Maximilian Goblirsch-Kolb

9:45 AM

10:00 AM

Electroweak Physics and Beyond the Standard Model: Parallel Sessions 5

Session | **Location:** Stony Brook, NY, Virtual, Online | **Convener:** Aram Apyan

10:00 – 10:15 AM **Vector Boson Scattering to alpha_W^2 alpha_s^{n+2} log^n(s/t)**

Speaker
Dr Bertrand Ducloue

10:18 – 10:33 AM **Vector Boson Scattering results from CMS**

Speaker
Ying AN

10:36 – 10:51 AM **The sensitivity to BSM in di-taon production at the LHC**

Speaker
Mariola Klusek-Gawenda

10:54 – 11:09 AM
Searches for new physics in lepton and missing tranverse momentum final states in CMS

Speaker
Irene Bachiller

11:12 – 11:27 AM **Searches for supersymmetry with the ATLAS detector**

Speaker
Abhishek Sharma

11:45 AM

12:15 PM

Electroweak Physics and Beyond the Standard Model

Session | **Location:** Stony Brook, NY, Virtual, Online | **Convener:** Nansi Andari

12:15 – 12:30 PM **Higgs pair production at NNNLO**

Speaker
Haitao Li

12:33 – 12:48 PM **Search for di-Higgs production at the ATLAS experiment**

Speaker
Louis D'Eramo

12:51 – 1:06 PM **Top physics at the LHeC and the FCC-eh**

Speaker
Mukesh Kumar

1:09 – 1:24 PM **Higgs physics at the LHeC and the FCC-eh**

Speaker
Uta Klein

1:27 – 1:42 PM **Precision electroweak measurements at the LHeC and the FCC-eh**

Speaker
Daniel Britzger

2:00 PM