

## **Session Program**

**Mar 23 - 27, 2020**



# **XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects**

## ***Future Experiments***

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

## Tue, March 24

9:00 AM

### Future Experiments: Day2-morning-1

**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Markus Diefenthaler, Daniel Britzger, Salvatore Fazio

9:00 – 9:20 AM **Probing QED in the strong-field regime with LUXE**

**Speaker**

Noam Tal Hod

9:20 – 9:40 AM **Determination of the Parton Densities in the Proton at the LHeC**

**Speaker**

Claire Gwenlan

9:40 – 10:00 AM **Overview of SoLID**

**Speaker**

Jian-ping Chen

10:00 – 10:20 AM **Future developments of the LHCb experiment**

**Speaker**

Tomasz Szumlak

10:30 AM

11:00 AM

### Future Experiments: Day2-morning-2

**Session** | **Location:** Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA | **Conveners:** Markus Diefenthaler, Daniel Britzger, Salvatore Fazio

11:00 – 11:20 AM

**Upgrade plans of the ATLAS detector and expected performance in Run 3 and beyond**

**Speaker**

Clement CAMINCHER

11:20 – 11:40 AM **The LHeC as Part of the HL-LHC Programme**

**Speaker**

Nestor Armesto

11:40 AM – 12:00 PM

**Semi-inclusive Deep-Inelastic Scattering, Parton Distributions and Fragmentation Functions at the Future Electron-Ion Collider**

**Speaker**

Dr E. C. Aschenauer

12:00 – 12:20 PM **Small- $x$  Physics at the LHeC and FCC-eh**

**Speaker**

Juan Rojo

12:20 – 12:40 PM

**Impact of EIC on the collinear gluon helicity distribution ( $\Delta g$ ).**

	<p><b>Speaker</b> Dr Filippo Delcarro</p>
	<p>12:40 – 1:00 PM <b>Present and future of JLab CLAS12 physics program</b></p>
1:00 PM	<p><b>Speaker</b> Dr TBD</p>
2:30 PM	<p><b>Future Experiments: Day2-afternoon-1</b>  <b>Session</b>   <b>Location:</b> Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA</p>
	<p>2:30 – 2:50 PM <b>Dijet photoproduction at the LHeC, HE-LHeC and FCC</b></p>
	<p><b>Speaker</b> Prof. Michael Klasen</p>
	<p>2:50 – 3:10 PM <b>Heavy flavor and jet studies for the future Electron Ion Collider</b></p>
	<p><b>Speaker</b> Dr Xuan Li</p>
	<p>3:10 – 3:30 PM <b>Novel QCD Phenomena at the LHeC and the FCC-eh</b></p>
	<p><b>Speaker</b> Stanley J. Brodsky</p>
	<p>3:30 – 3:50 PM  <b>Utilizing Jets at the Electron-Ion Collider: Parton Kinematics and Substructure</b></p>
3:50 PM	<p><b>Speaker</b> Brian Page</p>
4:30 PM	<p><b>Future Experiments: Day2-afternoon-2</b>  <b>Session</b>   <b>Location:</b> Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA</p>
	<p>4:30 – 4:50 PM  <b>Collision geometry and breakup determination in eA collisions at the EIC</b></p>
	<p><b>Speaker</b> Ms Wan Chang</p>
	<p>4:50 – 5:10 PM <b>Precision (anti)neutrino scattering off nucleons and nuclei</b></p>
	<p><b>Speaker</b> Roberto Petti</p>
	<p>5:10 – 5:30 PM <b>Electron-Ion Collisions at the LHeC and FCC-eh</b></p>
	<p><b>Speaker</b> Heikki Mäntysaari</p>
	<p>5:30 – 5:50 PM <b>BSM Physics at the LHeC and the FCC-eh</b></p>
	<p><b>Speaker</b> Oliver Fischer</p>
	<p>5:50 – 6:10 PM  <b>Machine Learning Reconstruction of Deep Inelastic Scattering Kinematics</b></p>
6:10 PM	<p><b>Speaker</b> Mr Abdullah Farhat</p>

## Wed, March 25

9:00 AM

### Future Experiments: Day3-morning-1

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

9:00 – 9:20 AM

#### Validation of the exclusive electro-/photo production mechanism with the Neutral Particle Spectrometer and Compact Photon Source

**Speakers**

Vladimir Berdnikov, Tanja Horn

9:20 – 9:40 AM

#### A Precision Measurement of Deuteron Charge Radius (DRad)

**Speaker**

Chao Peng

9:40 – 10:05 AM

#### Electron Ion Collider in China (EicC)

**Speaker**

Dr Yuxiang Zhao

10:05 – 10:30 AM

#### Meson Structure Function through Tagged Deep Inelastic Scattering

**Speaker**

Carlos Ayerbe Gayoso

10:30 AM

11:00 AM

### Future Experiments: Day3-morning-2

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

11:00 – 11:20 AM

#### Future developments in CMS

**Speaker**

elisabetta gallo CMS Collaboration

11:20 – 11:40 AM

#### Physics and kinematics of photo-production at an electron-ion collider

**Speaker**

Dr Spencer Klein

11:40 AM – 12:00 PM

#### Precision Top and EW measurements at the LHeC and the FCC-eh

**Speaker**

Daniel Britzger

12:00 – 12:20 PM

#### Pion and kaon structure at the Electron-Ion Collider

**Speaker**

Prof. Tanja Horn

12:20 – 12:40 PM

#### Probing SRCs and the origin of the EMC effect with facilities around the world

**Speaker**

Efrain Segarra

1:00 PM	<p>12:40 - 1:00 PM</p> <p><b>Study of short-range nuclear correlations in light nuclei using the BeAGLE event generator</b></p> <p><b>Speaker</b> Zhoudunming Tu</p>
2:30 PM	<p><b>Future Experiments: Day3-afternoon-1</b></p> <p><b>Session</b>   <b>Location:</b> Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA</p>
	<p>2:30 - 2:50 PM <b>The Forward Rapidity Upgrade for the STAR Detector</b></p> <p><b>Speaker</b> E. C. Aschenauer</p>
	<p>2:50 - 3:10 PM <b>Electron Ion Collider Design Status and Challenges</b></p> <p><b>Speaker</b> Christoph Montag</p>
	<p>3:10 - 3:30 PM</p> <p><b>Overview Of The Interaction Region of the Future Electron-Ion Collider (EIC) at BNL</b></p> <p><b>Speaker</b> Holger Witte</p>
4:00 PM	<p>3:30 - 3:50 PM <b>EIC Detectors</b></p> <p><b>Speaker</b> Volker Burkert</p>
4:30 PM	<p><b>Future Experiments: Day3-afternoon-2</b></p> <p><b>Session</b>   <b>Location:</b> Brooklyn, NY, 333 Adams Street, Brooklyn, New York 11201, USA</p>
	<p>4:30 - 4:50 PM <b>The ERL Facility PERLE at Orsay</b></p> <p><b>Speaker</b> Max Klein</p>
	<p>4:50 - 5:10 PM <b>Hadron Polarimetry for the Electron-Ion Collider</b></p> <p><b>Speaker</b> Ana Sofia Nunes</p>
	<p>5:10 - 5:30 PM <b>Higgs physics at the LHeC and the FCC-eh</b></p> <p><b>Speaker</b> Uta Klein</p>
6:00 PM	<p>5:30 - 5:50 PM</p> <p><b>Cold QCD physics program with sPHENIX and potential forward upgrades</b></p> <p><b>Speaker</b> Marzia Rosati</p>

# Thu, March 26

9:00 AM

## Future Experiments: Day4-morning-1

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

9:00 - 9:20 AM **SND at the LHC**

**Speaker**

Dr Christopher Betancourt

9:20 - 9:40 AM

**NA65 Experiment : study of tau neutrino production with CERN-SPS protons**

**Speaker**

Murat Ali Guler

9:40 - 10:00 AM

**COMPASS++/AMBER: Future measurements at the M2 beam line of the CERN SPS**

**Speaker**

Barbara Badelek

10:00 - 10:20 AM

**Unlocking the physics of the the Quark Gluon Plasma with the sPHENIX experiment at RHIC**

**Speaker**

Marzia Rosati

10:30 AM