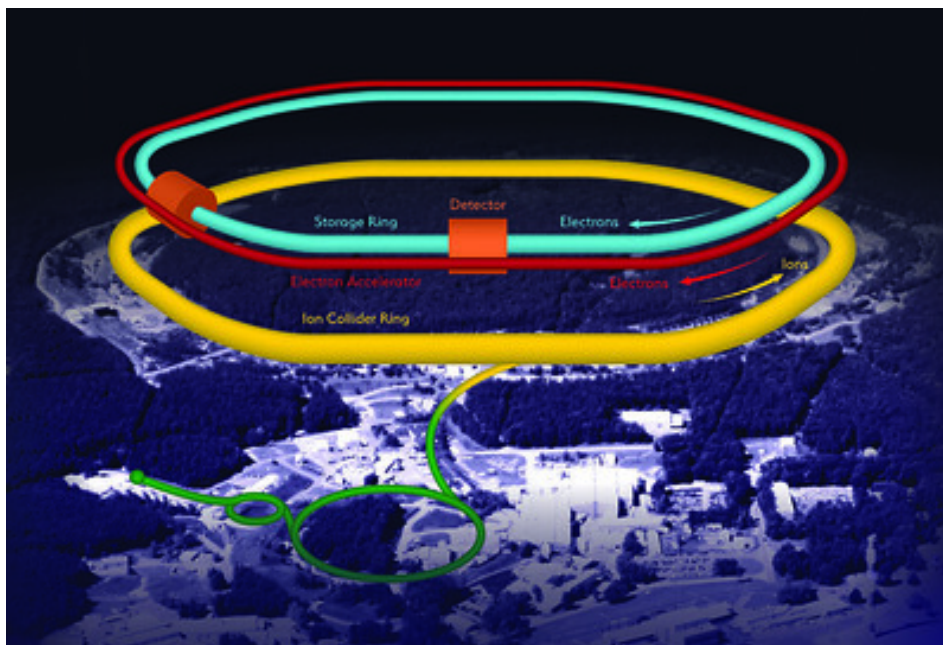


# The 2022 CFNS Summer School on the Physics of the Electron-Ion Collider, July 11-22, 2022



## Report of Contributions

Contribution ID: 41

Type: **not specified**

## Theory lecture: 3D Structure I

*Monday, July 11, 2022 8:30 AM (1h 10m)*

**Presenter:** PASQUINI, Barbara (University of Pavia and INFN, Pavia)

Contribution ID: 42

Type: **not specified**

## Theory lecture: 3D Structure II

*Monday, July 11, 2022 9:55 AM (1h 10m)*

**Presenter:** PASQUINI, Barbara (University of Pavia and INFN, Pavia)

Contribution ID: 43

Type: **not specified**

## Theory lecture: Lattice I

*Monday, July 11, 2022 11:20 AM (1h 10m)*

**Presenter:** MONAHAN, Christopher (College of William and Mary)

Contribution ID: 44

Type: **not specified**

## Theory lecture: Lattice II

*Monday, July 11, 2022 2:00 PM (1h 10m)*

**Presenter:** MONAHAN, Christopher (College of William and Mary)

Contribution ID: 45

Type: **not specified**

## Theory lecture: Lattice III

*Tuesday, July 12, 2022 8:30 AM (1h 10m)*

**Presenter:** MONAHAN, Christopher (College of William and Mary)

Contribution ID: 46

Type: **not specified**

## Theory lecture: 3D Structure III

*Tuesday, July 12, 2022 9:55 AM (1h 10m)*

**Presenter:** PASQUINI, Barbara (University of Pavia and INFN, Pavia)

Contribution ID: 47

Type: **not specified**

## **Experiment lecture: Introduction to the EIC II**

*Tuesday, July 12, 2022 2:00 PM (1h 10m)*

**Presenter:** DESHPANDE, Abhay (Stony Brook University)



Contribution ID: 48

Type: **not specified**

## **Experiment lecture: Particle Detection, Detector Technologies, and Research & Development**

*Wednesday, July 13, 2022 2:00 PM (1h 10m)*

**Presenter:** Dr THOMAS, Ullrich (BNL)

Contribution ID: 49

Type: **not specified**

## **Experiment lecture: Introduction to the EIC I**

*Tuesday, July 12, 2022 11:20 AM (1h 10m)*

**Presenter:** DESHPANDE, Abhay (Stony Brook University)

Contribution ID: 50

Type: **not specified**

## **Theory lecture: Effective Field Theories of QCD I**

*Wednesday, July 13, 2022 8:30 AM (1h 10m)*

**Presenter:** MEHEN, Tom

Contribution ID: 51

Type: **not specified**

## **Theory lecture: Effective Field Theories of QCD II**

*Thursday, July 14, 2022 8:30 AM (1h 10m)*

**Presenter:** MEHEN, Tom

Contribution ID: 52

Type: **not specified**

## Computing lecture: EIC Software I

*Wednesday, July 13, 2022 9:55 AM (1h 10m)*

**Presenters:** DIEFENTHALER, Markus (Jefferson Lab); JOOSTEN, Sylvester (Argonne National Laboratory)

Contribution ID: 53

Type: **not specified**

## Computing lecture: EIC Software II

*Wednesday, July 13, 2022 11:20 AM (1h 10m)*

**Presenters:** DIEFENTHALER, Markus (Jefferson Lab); JOOSTEN, Sylvester (Argonne National Laboratory)

Contribution ID: 54

Type: **not specified**

## **Theory lecture: Effective Field Theories of QCD III**

*Thursday, July 14, 2022 9:55 AM (1h 10m)*

**Presenter:** MEHEN, Tom

Contribution ID: 55

Type: **not specified**

## **Computing lecture: Computing Models and Offline Software I**

*Thursday, July 14, 2022 11:20 AM (1h 10m)*

**Presenter:** SEXTON KENNEDY, Liz



Contribution ID: 56

Type: **not specified**

## Computing lecture: EIC Software II

*Tuesday, July 19, 2022 2:00 PM (1h 10m)*

**Presenters:** DIEFENTHALER, Markus (Jefferson Lab); JOOSTEN, Sylvester (Argonne National Laboratory)

Contribution ID: 57

Type: **not specified**

## **Theory lecture: Heavy Ion and EIC I**

*Friday, July 15, 2022 9:55 AM (1h 10m)*

**Presenter:** Dr SCHENKE, Bjoern (BNL)

Contribution ID: 58

Type: **not specified**

## **Computing lecture: Computing Models and Offline Software II**

*Friday, July 15, 2022 8:30 AM (1h 10m)*

**Presenter:** SEXTON KENNEDY, Liz

Contribution ID: 59

Type: **not specified**

## **Experiment lecture: PID at the EIC I**

*Friday, July 15, 2022 2:00 PM (1h 10m)*

**Presenter:** DEHMELT, Klaus (Stony Brook University)

Contribution ID: **60**

Type: **not specified**

## **Experiment lecture: Introduction to the detector technologies for the EIC**

*Friday, July 15, 2022 11:20 AM (1h 10m)*

**Presenter:** DEHMELT, Klaus (Stony Brook University)

Contribution ID: **61**

Type: **not specified**

## **Experiment lecture: Polarimetry I**

*Monday, July 18, 2022 8:30 AM (1h 10m)*

**Presenter:** EYSER, Oleg (BNL)

Contribution ID: **62**

Type: **not specified**

## **Theory lecture: Heavy Ion and EIC II**

*Monday, July 18, 2022 9:55 AM (1h 10m)*

**Presenter:** SCHENKE, Bjoern (BNL)

Contribution ID: **63**

Type: **not specified**

## **Experiment lecture: Polarimetry II**

*Monday, July 18, 2022 2:00 PM (1h 10m)*

**Presenter:** EYSER, Oleg (BNL)



Contribution ID: **64**

Type: **not specified**

## **Theory lecture: Heavy Ion and EIC III**

*Monday, July 18, 2022 11:20 AM (1h 10m)*

**Presenter:** SCHENKE, Bjoern (BNL)

Contribution ID: 65

Type: **not specified**

## Experiment lecture: Polarimetry III

*Tuesday, July 19, 2022 8:30 AM (1h 10m)*

**Presenter:** EYSER, Oleg (BNL)

Contribution ID: **66**

Type: **not specified**

## **Experiment lecture: PID at the EIC II**

**Presenters:** DEHMELT, Klaus (Stony Brook University); DEHMELT, Klaus (Stony Brook University)

Contribution ID: 67

Type: **not specified**

## **Theory lecture: Collinear QCD and ML I**

*Tuesday, July 19, 2022 9:55 AM (1h 10m)*

**Presenter:** ABDUL KHALEK, Rabah

Contribution ID: **68**

Type: **not specified**

## **Theory lecture: Collinear QCD and ML I**

*Tuesday, July 19, 2022 11:20 AM (1h 10m)*

**Presenter:** ABDUL KHALEK, Rabah

Contribution ID: **69**

Type: **not specified**

## **Theory lecture: Collinear QCD and ML III**

*Wednesday, July 20, 2022 8:30 AM (1h 10m)*

**Presenter:** ABDUL KHALEK, Rabah

Contribution ID: 70

Type: **not specified**

## Computing lecture: High Performance Computing I

*Wednesday, July 20, 2022 9:55 AM (1h 10m)*

**Presenter:** JOO, Balint

Contribution ID: 71

Type: **not specified**

## **Computing lecture: High Performance Computing II**

*Wednesday, July 20, 2022 11:20 AM (1h 10m)*

**Presenter:** JOO, Balint



Contribution ID: 72

Type: **not specified**

## **Experiment lecture: Forward Physics and Detector I**

*Wednesday, July 20, 2022 2:00 PM (1h 10m)*

**Presenter:** JENTSCH, Alexander (Brookhaven National Laboratory)

Contribution ID: 73

Type: **not specified**

## **Experiment lecture: Forward Physics and Detector II**

*Thursday, July 21, 2022 11:20 AM (1h 10m)*

**Presenter:** JENTSCH, Alexander (Brookhaven National Laboratory)

Contribution ID: 74

Type: **not specified**

## **Computing lecture: High Performance Computing III**

*Thursday, July 21, 2022 8:30 AM (1h 10m)*

**Presenter:** JOO, Balint

Contribution ID: 75

Type: **not specified**

## **Experiment lecture: Jets and Heavy Quarks at the EIC I**

*Thursday, July 21, 2022 9:55 AM (1h 10m)*

**Presenters:** ARRATIA, Miguel (University of California, Riverside); ARRATIA, Miguel (University of Cambridge)

Contribution ID: 76

Type: **not specified**

## Experiment lecture: Tracking

*Thursday, July 21, 2022 2:00 PM (1h 10m)*

**Presenter:** HIGINBOTHAM, Douglas (Jefferson Lab)

Contribution ID: 77

Type: **not specified**

## **Experiment lecture: Jets and Heavy Quarks at the EIC II**

*Friday, July 22, 2022 8:30 AM (1h 10m)*

**Presenters:** ARRATIA, Miguel (University of Cambridge); ARRATIA, Miguel (University of California, Riverside)

Contribution ID: 78

Type: **not specified**

## **Future of the EIC**

*Friday, July 22, 2022 2:30 PM (30 minutes)*

**Presenter:** DESHPANDE, Abhay (Stony Brook University)

Contribution ID: 79

Type: **not specified**

## Experiment lecture: Calorimetry

*Friday, July 22, 2022 9:55 AM (1h 10m)*

**Presenter:** HIGINBOTHAM, Douglas (Jefferson Lab)



Contribution ID: **80**

Type: **not specified**

## **Experiment lecture: Jets and Heavy Quarks at the EIC III**

*Friday, July 22, 2022 11:20 AM (1h 10m)*

**Presenters:** ARRATIA, Miguel (University of California, Riverside); ARRATIA, Miguel (University of Cambridge)

Contribution ID: **81**

Type: **not specified**

## Coffee & Cookies

Contribution ID: **82**

Type: **not specified**

## **Introduction to the school**

*Monday, July 11, 2022 8:10 AM (20 minutes)*

**Presenters:** DESHPANDE, Abhay (Stony Brook University); PROKUDIN, Alexei (Penn State Berks)

Contribution ID: **83**

Type: **not specified**

## Adjourn

*Friday, July 22, 2022 3:00 PM (15 minutes)*

Contribution ID: **84**

Type: **not specified**

## **Students seminars**

Contribution ID: **85**

Type: **not specified**

## **Students seminars**

Contribution ID: **86**

Type: **not specified**

## **The origin of spin asymmetries**

*Thursday, July 14, 2022 2:00 PM (1h 10m)*

**Presenter:** PROKUDIN, Alexei (Penn State Berks)

Contribution ID: 87

Type: **not specified**

## **Luminosity Detector Studies at the EIC**

*Tuesday, July 19, 2022 3:30 PM (15 minutes)*

**Presenter:** GIRI, Aranya



Contribution ID: **88**

Type: **not specified**

## **CGC base line for two particle correlation in UPC**

*Tuesday, July 19, 2022 3:45 PM (15 minutes)*

**Presenter:** DUAN, Haowu

Contribution ID: **89**

Type: **not specified**

## **VR for EIC**

*Monday, July 18, 2022 12:30 PM (20 minutes)*

**Presenters:** PREINS, Sean (University of California, Riverside); PREINS, Sean (Student@ucr.edu)

Contribution ID: 90

Type: **not specified**

## **Extraction fractions moments using Machine Learning techniques in $pp \rightarrow \pi + \gamma$ process**

*Thursday, July 21, 2022 3:30 PM (15 minutes)*

**Presenter:** DAVID FRANCISCO RENTERIA ESTRADA

Contribution ID: 91

Type: **not specified**

## **Transverse Single-Spin Asymmetry for Diffractive Electromagnetic Jets at Forward Rapidities in $p^\uparrow+p$ Collisions at $\sqrt{s} = 200$ GeV at STAR**

*Thursday, July 21, 2022 3:45 PM (15 minutes)*

**Presenters:** XILIN LIANG; LIANG, Xilin (University of California, Riverside)

Contribution ID: 92

Type: **not specified**

## **Azimuthal Transverse Single-Spin Asymmetries of Charged Hadrons within Jets from Polarized p+Au Collisions at $\sqrt{s} = 200$ GeV**

*Thursday, July 21, 2022 4:00 PM (15 minutes)*

**Presenter:** ABOONA, Bassam (student@tamu.edu;member@tamu.edu;employee@tamu.edu)

Contribution ID: 93

Type: **not specified**

## Quark and Gluon Helicity at Small Bjorken $x$

*Thursday, July 21, 2022 4:15 PM (15 minutes)*

**Presenter:** TAWABUTR, Yossathorn (The Ohio State University)

Contribution ID: 94

Type: **not specified**

## **Revisiting DDVCS for phenomenological studies**

*Thursday, July 21, 2022 4:30 PM (15 minutes)*

**Presenter:** VICTOR MARTINEZ-FERNANDEZ

Contribution ID: 95

Type: **not specified**

## **SBS/BB Spectrometer for GMn/nTPE experiment at JLab**

**Presenter:** BAI, Xinzhan (staff@virginia.edu;member@virginia.edu;alum@virginia.edu;employee@virginia.edu)



Contribution ID: 96

Type: **not specified**

## **R&D effort for the LAPPD as part of the upcoming EIC**

*Tuesday, July 19, 2022 4:00 PM (15 minutes)*

**Presenter:** MUHAMMAD ALIBORDI

Contribution ID: 97

Type: **not specified**

## **R&D for SiPM-on-tile technology for forward hadronic calorimetry at the EIC**

*Thursday, July 21, 2022 4:45 PM (15 minutes)*

**Presenters:** PREINS, Sean (Student@ucr.edu); PREINS, Sean (University of California, Riverside)

Contribution ID: **98**

Type: **not specified**

## **Next-to-leading order photon+jet production**

*Tuesday, July 19, 2022 4:30 PM (15 minutes)*

**Presenter:** MULLAN, Yair (University of Jyväskylä)

Contribution ID: 99

Type: **not specified**

## **Lattice Effective Field Theory and Leuscher Methods for Finite Volume Scattering**

*Tuesday, July 19, 2022 4:15 PM (15 minutes)*

**Presenter:** MOSCOSO, Joseph (student@unc.edu;employee@unc.edu;alum@unc.edu;member@unc.edu;staff@unc.edu)

Contribution ID: **100**

Type: **not specified**

## **Searching for the dead cone effect in beauty and charm jets at LHCb**

*Tuesday, July 19, 2022 4:45 PM (15 minutes)*

**Presenter:** CHAHROUR, Ibrahim (University of Michigan)