



# Physics Opportunities at an Electron-Ion Collider XI

## Monday, February 24, 2025

### Plenary: EIC overview - Graham Center 140 (9:00 AM - 10:45 AM)

time	[id] title	presenter
9:00 AM	[56] Welcome and Introduction	SZUMILA-VANCE, Holly GUO, Lei SARGSIAN, Misak COSYN, Wim
9:15 AM	[52] TBD - EIC overview	AIDALA, Christine
9:45 AM	[53] TBD - EIC project	ENT, Rolf
10:05 AM	[54] TBD - ePIC	JOOSTEN, Sylvester
10:25 AM	[55] TBD - RHIC leading up to EIC	DESHPANDE, Abhay

### Plenary - Graham Center 140 (11:15 AM - 12:45 PM)

time	[id] title	presenter
11:15 AM	[57] Some interdisciplinary connections of EIC physics	VENUGOPALAN, Raju
11:45 AM	[9] Entanglement Enabled Intensity Interferometry in ultrarelativistic ultraperipheral nuclear collisions	Dr DUAN, Haowu
12:05 PM	[41] Quasi-Classical Gluon Fields and Low's Soft Theorem at Small $x$	LI, Ming
12:25 PM	[27] Correspondence between Color Glass Condensate and High-Twist Formalism	FU, Yu

### Plenary - Graham Center 140 (2:00 PM - 3:40 PM)

time	[id] title	presenter
2:00 PM	[58] TBD	JI, Xiangdong
2:25 PM	[78] Single Diffractive Hard Exclusive Processes (SDHEP) for extracting GPDs	QIU, Jianwei
2:50 PM	[59] TBD	SCHWEITZER, Peter
3:15 PM	[60] TBD	MEZIANI, Zein-Eddine

# Tuesday, February 25, 2025

## Plenary - Graham Center 140 (9:00 AM - 10:40 AM)

time	[id] title	presenter
9:00 AM	[61] Insights into Hadron Gravitational Form Factors	ROBERTS, Craig
9:25 AM	[21] Extracting the Pion Off-Shell Electromagnetic Form Factors	DE MELO, Joao Pacheco
9:50 AM	[62] Topological gauge fields and partonic structure	WEISS, Christian
10:15 AM	[77] Meson TMDs, GPDs and fragmentation functions	EL-BENNICH, Bruno

## Plenary - Graham Center 140 (11:10 AM - 12:50 PM)

time	[id] title	presenter
11:10 AM	[64] The interplay between the LHC and DIS experiments in probing heavy new physics	BOUGHEZAL, Radja
11:35 AM	[65] TBD - BSM/EW @ EIC	HURLEY, Andrew
12:00 PM	[66] New theoretical developments for hadron and jet production at the EIC	VITEV, Ivan
12:25 PM	[67] TBD	ARRATIA, Miguel ARRATIA, Miguel ARRATIA, Miguel

## Plenary - Graham Center 140 (2:00 PM - 3:40 PM)

time	[id] title	presenter
2:00 PM	[30] Target jet substructure and correlation	ESHA, Roli
2:25 PM	[18] Nuclear Fragmentation at the Future Electron-Ion Collider	CARLOS BERTULANI, Carlos
2:50 PM	[68] TBD - Tagging	NGUYEN, Dien
3:15 PM	[69] TBD	PROKUDIN, Alexei

## Plenary - Graham Center 140 (4:05 PM - 5:45 PM)

time	[id] title	presenter
4:05 PM	[10] Lattice Calculation of TMD Physics in the EIC Era	ZHAO, Yong
4:30 PM	[38] SIDIS Observables: Leading & Next-to-Leading Power TMD Factorization in the EIC Era	GAMBERG, Leonard
4:55 PM	[46] (Early) Program to study Semi-Inclusive Deep Inelastic Scattering at ePIC	VOSEN, Anselm
5:20 PM	[70] Current-target fragmentation region correlations in SIDIS	AVAGYAN, Harut

# Wednesday, February 26, 2025

## Plenary - Graham Center 140 (9:00 AM - 10:40 AM)

time	[id] title	presenter
9:00 AM	[71] Probing small-x helicity distributions in particle production at RHIC and EIC	KOVCHegov, Yuri
9:25 AM	[72] Spin-orbit coupling in QCD	HATTA, Yoshitaka
9:50 AM	[49] The role of the chiral anomaly in polarized deeply inelastic scattering: Wess-Zumino-Witten contributions and chiral Ward identities for finite quark mass	TARASOV, Andrey
10:15 AM	[73] Quantum Anomalies and (Generalized) Parton Distributions	BHATTACHARYA, Shohini

## Plenary - Graham Center 140 (11:10 AM - 12:50 PM)

time	[id] title	presenter
11:10 AM	[74] TBD - JAM	MELNITCHOUK, Wally
11:35 AM	[31] Parton Distributions from Lattice and Impacts on Global QCD Analysis	Prof. LIN, Huey-Wen
12:00 PM	[75] Pythia 8 for Electron-Ion Collisions	HELENIUS, Ilkka
12:25 PM	[76] Sherpa 3 for DIS and EIC physics	REICHELt, Daniel

# Thursday, February 27, 2025

## Plenary - Graham Center 140 (9:00 AM - 10:45 AM)

time	[id] title	presenter
9:00 AM	[79] Recent advances in extracting x-dependent proton GPDs from Lattice QCD	CONSTANTINO, Martha
9:25 AM	[5] Finite-element evolution code for generalized parton distributions	FREESE, Adam
9:45 AM	[80] TBD	HYDE, Charles
10:05 AM	[81] TBD - PARTONS + MC	TEZGIN, KEMAL
10:25 AM	[82] TBD - exclusive	SOKHAN, Daria

## Plenary - Graham Center 140 (11:10 AM - 1:00 PM)

time	[id] title	presenter
11:10 AM	[83] Novel QCD Effects in Nuclei at the EIC	CLOET, Ian
11:35 AM	[13] Progress and Opportunities for nuclear PDFs in connection with the EIC	RISSE, Peter
12:00 PM	[84] Nuclear imaging at the Electron-Ion Collider	ZHAO, Wenbin
12:20 PM	[85] TBD	LI, Shujie
12:40 PM	[86] TBD - TOPEG	DUPRÉ, Raphaël

## Plenary - Graham Center 140 (2:00 PM - 4:05 PM)

time	[id] title	presenter
2:00 PM	[87] TBD	SATO, Nobuo
2:25 PM	[88] TBD	FANELLI, Cristiano
2:50 PM	[89] TBD - NNPDF	FORTE, Stefano
3:15 PM	[42] AI and the theory of deeply virtual exclusive scattering	LIUTI, simonetta
3:40 PM	[90] Spectroscopy opportunities at the EIC	PILLONI, Alessandro

## Plenary - Graham Center 140 (4:30 PM - 6:30 PM)

time	[id] title	presenter
4:30 PM	[91] TBD	GLAZIER, Derek
4:55 PM	[92] TBD	HORN, Tanja
5:20 PM	[102] Proton and nuclear structure at the LHeC and FCC-eh	GWENLAN, Claire
5:40 PM	[22] A second detector for the EIC	NADEL-TURONSKI, Pawel
6:00 PM	[94] Science at Jefferson Lab: today and future plans	ROSSI, Patrizia

# Friday, February 28, 2025

## Plenary - Graham Center 140 (9:00 AM - 10:40 AM)

time	[id] title	presenter
9:00 AM	[95] TBD	RINGER, Felix RINGER, Felix
9:25 AM	[32] An Overview of Jet Measurements at the EIC	PAGE, Brian
9:50 AM	[14] Impact of the EIC on Collinear Parton Distributions and Alphas	CRIDGE, Thomas
10:15 AM	[96] CTEQ-TEA Precision PDFs for the EIC physics	XIE, Keping

## Plenary - Graham Center 140 (11:10 AM - 1:05 PM)

time	[id] title	presenter
11:10 AM	[97] TBD	STASTO, Anna STASTO, Anna
11:35 AM	[98] TBD	SALAZAR, Farid
12:00 PM	[99] TBD - eSTARLIGHT	SWEGGER, Zachary
12:25 PM	[3] The Cubic Casimir and photon --> $\chi_c$ diffraction (in the background field of a proton) at the EIC	DUMITRU, Adrian
12:45 PM	[25] Synergies between the UPC and EIC physics program	TAPIA TAKAKI, Daniel

## Plenary - Graham Center 140 (2:05 PM - 4:00 PM)

time	[id] title	presenter
2:05 PM	[100] Precision study of Nucleon 3-D structure with Semi-Inclusive Deep Inelastic Scattering	GAO, Haiyan GAO, Haiyan
2:30 PM	[101] TBD - Spinqest	CALERO DIAZ, Liliet
2:50 PM	[93] TBD - EicC	GUO, Aiqiang
3:10 PM	[103] Recent Highlights and Perspectives from COMPASS and Looking Ahead for the AMBER Experiment	PARSAMYAN, Bakur
3:30 PM	[104] TBD - JPARC	Dr AOKI, Kazuya
3:50 PM	[105] Closeout	SZUMILA-VANCE, Holly GUO, Lei SARGSIAN, Misak COSYN, Wim