



2021 EIC UG Meeting Early Career Workshop

July 29-30, 2021

We are pleased to announce the 2021 EIC UG Meeting Early Career workshop. This event, dedicated to students and postdocs but open to everyone, will be held on July 29-30, 2021, the Thursday and Friday before the annual EIC User Group meeting.

Aims of the workshop:

- Increase the visibility of EIC-related contributions from students and postdocs.
- Offer a platform to students and postdocs to connect and exchange knowledge.
- Provide a venue to present and discuss EIC physics, detector, and accelerator science ahead of the User group meeting.

<https://indico.jlab.org/event/438>

Welcome !

2021 EIC UG Meeting: Early Career Workshop

- Indico page: <https://indico.jlab.org/event/438/>

Zoom connection link:

- <https://cwm.zoom.us/j/97224327244?pwd=TFAYbkNpWmltTW90NHF4ODR6dTZ4dz09>
- Meeting ID: 972 2432 7244
- Passcode: 1111

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Event Organizing committee:

EIC²
EIC Center at Jefferson Lab

2020 Research Fellows

Postdoctoral research fellows



Charlotte Van Hulse
Orsay, France



Wenliang (Bill) Li
William & Mary, Virginia



Jennifer Rittenhouse West
SLAC, California

Graduate student fellows



Chiara Bissolotti
Pavia, Italy



Bhawin Dhital
Old Dominion University, Virginia



Jackson Pybus
MIT, Massachusetts

Senior member assistants:



Douglas Higinbotham
Jefferson Lab



Miguel Arratia
UCR, California



Narbe Kalantarians
VUU, Virginia



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General Info:

- 27 submitted abstracts
- 3 invited speakers for special sessions
- >100 registered participants

To Presenters:

- Contributed talks are 15 mins in total:
 - 12 min presentation + 3 min questions
- Please upload your talk ahead of the session
- Please respect the time schedule

Workshop Code of Conduct:

- <https://www.cosmologyfromhome.com/code-of-conduct/>

Our twitter Page:

- https://twitter.com/ion_early
- After workshop survey through Twitter

Day 1

Start @
10am EDT

10:00	Welcome - Wenliang Li (College of William and Mary) ()		
10:05	Special session - Wenliang Li (College of William and Mary) (until 10:50) ()		
10:05	Invited talk on Accelerator Physics - Andrei Seryi (JLAB) ()		
10:50	--- Break ---		
11:00	Presentation Session - Bhawin Dhitai (Old Dominion University/Jefferson Lab) (until 12:15) ()		
11:00	An ultrafast harmonic kicker for the RCS injection of the EIC - Gunn Tae Park (Jefferson Lab) ()	 ECW_gpark.pptx	
11:15	The Scintillating Fiber Tracking Detector, a qualitative approach - Carlos Ayerbe Gayoso (Mississippi State University) ()	 20210729-EICUG_Early_Career-C.Ayerbe.pdf	
11:30	Time measurements using ultra fast silicon detectors with a 120 GeV Proton Beam for the TOPSIDE Detector Concept at the Electron-Ion Collider - Manoj Jadhav (Argonne National Laboratory) ()		
11:45	High-performance DIRC detector for the future Electron-Ion Collider - Dr Nilanga Wickramaarachchi (The Catholic University of America) ()		
12:00	Tagged measurements of Short-Range Correlation at the EIC - Florian Hauenstein (Old Dominion University) ()		
12:15	--- Lunch ---		
12:35	Presentation Session - Jackson Pybus (MIT) (until 13:35) ()		
12:35	Diffraction dissociation in electron-nucleus collisions: theory and phenomenology - Anh Dung Le (CPHT, CNRS Ecole Polytechnique, IP Paris) ()	 talk_EICUG2021_ECW.pdf	
12:50	Neutron Spin structure from e-3He scattering with double spectator Tagging at EIC - Dien Nguyen (MIT) ()		
13:05	QCD dynamics in nuclei: Diquarks and the Novel Color Singlet Hexadiquark - Dr Jennifer Rittenhouse West (Berkeley Lab and the EIC Center at Jefferson Lab) ()		
13:20	Design of a Stripline Injection Kicker for the Hadron Storage Ring of Electron-Ion collider - Medani Sangroula (Brookhaven National Laboratory) ()		
13:35	--- Break ---		
13:45	Presentation Session - Jennifer Rittenhouse West (Berkeley Lab and the EIC Center at Jefferson Lab) (until 15:00) ()		
13:45	Meson Structure Studies at EIC - Richard Trotta (The Catholic University of America) ()	 EIC_EarlyCareer2021.pdf  EIC_EarlyCareer_2021.pptx	
14:00	Accessing pion GPDs through the Sullivan process at the future EIC - Jose Manuel Morgado Chávez (Universidad de Huelva) ()		
14:15	Gluon spatial distributions in the nucleon - Brandon Kriesten (University of Virginia) ()		
14:30	u-Channel P_0 Production at EIC - Wenliang Li (William & Mary) ()		
14:45	Investigation of Vector Meson Backward-Production Capabilities at the EIC - Zachary Sweger (UC Davis) ()	 UG_ECW_2021.pdf	

Invited session on
accelerator physics

Accelerator & Hardware

e+A Diffractive Study

Probing Hadron Structure

End @
3pm EDT

Day 2

Start @
10am EDT

10:00	Special session - Chiara Bissolotti (University of Pavia and INFN) (until 10:35) ()	🔗
10:00	Invited talk: Opportunities for hadron structure studies at the EIC - Andrea Signori (University of Pavia and Jefferson Lab) ()	🔗
10:35	--- Break ---	
10:40	Presentation Session - Chiara Bissolotti (University of Pavia and INFN) (until 11:40) ()	🔗
10:40	Nuclear TMDs and 3D imaging in nuclei - John Terry (UCLA) ()	🔗
10:55	Towards twist-2 T-odd TMD gluon distributions - Francesco Giovanni Celiberto (ECT*/FBK Trento & INFN-TIFPA) ()	🔗
11:10	Probing gluon TMDs with tagged and reconstructed heavy flavor hadron pairs at the EIC - Sooraj Radhakrishnan ()	🔗
11:25	Constraints on Gluon Distribution Functions in the Nucleon and Nucleus from Open Charm Hadron Production - Matthew Kelsey (Wayne State University) ()	🔗
11:40	Group Photo on Zoom ! - Wenliang Li (William & Mary) (until 11:45) ()	🔗
11:45	--- Break ---	
12:10	Presentation Session - Charlotte Van Hulse (JCLab) (until 13:25) ()	🔗
12:10	Entanglement, partial set of measurements, and diagonality of the density matrix in the parton model - Haowu Duan (North Carolina State University) ()	🔗
12:25	Forward dijets in proton-nucleus collisions at next-to-leading order: the real corrections - Yair Mulian (Jyväskylä University) ()	🔗
12:40	Jet fragmentation functions at the EIC - Fanyi Zhao (UCLA) ()	🔗
12:55	Multiple parton scattering and gluon saturation in dijet production at EIC - Yuan-Yuan Zhang (CCNU) ()	🔗
13:10	Λ_c^+ baryon production at future EIC - Yuanjing Ji ()	🔗
13:25	--- Break ---	
13:30	Presentation Session - Wenliang Li (College of William and Mary) (until 14:35) ()	🔗
13:30	VR Event and Detector Display for ATHENA - Sean Preins (University of California Riverside) ()	🔗
13:45	Deeply learning deep inelastic scattering kinematics - Abdullah Farhat (Old Dominion University) ()	🔗
14:00	Simultaneous Monte Carlo analysis of parton densities and fragmentation functions - Eric Moffat (Old Dominion University) ()	🔗
14:15	eHIJING: an EIC event generator for jet tomography - Welyao Ke (University of California, Berkeley; Lawrence-Berkeley National Lab) ()	🔗
14:35	--- Break ---	
14:45	Special session - Jennifer Rittenhouse West (Berkeley Lab and the EIC Center at Jefferson Lab) (until 15:20) ()	🔗
14:45	Data Visualization - Lawrence Weinstein (Old Dominion University) ()	🔗

Invited session on Theory

GPDs and TMDs

Zoom Photo @ 11:40 am EDT

Jets and Baryon Production

Innovative utility/tools

Invited session on Data Visualization

End @
3:20pm EDT

Gratitudes

- **Special thanks for the support from JLab EIC Center and EIC User Group .**
- **Workshop presenters and conveners.**
- **Most importantly, thanks to all participants.**

Any Questions before we begin?

