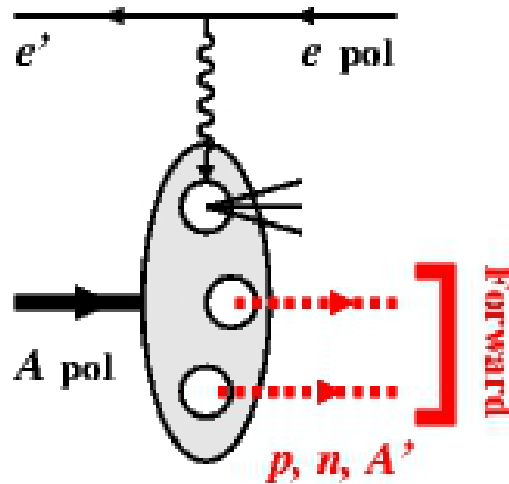


# Exploring QCD with light nuclei at EIC



## Report of Contributions

Contribution ID: 1

Type: **not specified**

# Welcome

*Tuesday, January 21, 2020 8:45 AM (15 minutes)*

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

Contribution ID: 2

Type: **not specified**

## **Introduction and plan of meeting**

*Tuesday, January 21, 2020 9:00 AM (20 minutes)*

**Presenter:** ORGANIZERS

Contribution ID: 3

Type: **not specified**

## Target fragmentation and fracture functions

*Tuesday, January 21, 2020 9:20 AM (40 minutes)*

**Presenter:** FEDERICO CECCOPIERI

**Session Classification:** Nucleon fragmentation / Nuclear breakup

Contribution ID: 4

Type: **not specified**

## **Nucleon fragmentation dynamics and spin dependence**

*Tuesday, January 21, 2020 10:00 AM (30 minutes)*

**Presenter:** STRIKMAN, Mark

**Session Classification:** Nucleon fragmentation / Nuclear breakup

Contribution ID: 5

Type: **not specified**

## **Nuclear breakup measurements in DIS: Motivation, theory, applications**

*Tuesday, January 21, 2020 11:30 AM (30 minutes)*

**Presenter:** WEISS, Christian (Jefferson Lab)

**Session Classification:** Nucleon fragmentation / Nuclear breakup

Contribution ID: 6

Type: **not specified**

## **Discussion: Target fragmentation physics with EIC**

*Tuesday, January 21, 2020 12:00 PM (30 minutes)*

**Session Classification:** Nucleon fragmentation / Nuclear breakup

Contribution ID: 7

Type: **not specified**

## **Spin structure measurements with polarized $^3\text{He}$**

**Presenter:** MAXWELL, James



Contribution ID: 8

Type: **not specified**

## **Spin structure measurements with polarized $^3\text{He}$**

*Tuesday, January 21, 2020 2:00 PM (40 minutes)*

**Presenter:** MAXWELL, James (Jefferson Lab)

**Session Classification:** Neutron structure: Inclusive, tagged, spin, GPDs

Contribution ID: 9

Type: **not specified**

## **$^3\text{He}$ spin structure and intrinsic isobars**

*Tuesday, January 21, 2020 2:40 PM (30 minutes)*

**Presenter:** GUZEY, Vadim (Petersburg Nuclear Physics Institute)

**Session Classification:** Neutron structure: Inclusive, tagged, spin, GPDs

Contribution ID: **10**

Type: **not specified**

## **Polarized deuteron DIS with spectator tagging**

*Tuesday, January 21, 2020 3:10 PM (40 minutes)*

**Presenter:** COSYN, Wim (Ghent University)

**Session Classification:** Neutron structure: Inclusive, tagged, spin, GPDs

Contribution ID: 11

Type: **not specified**

## **Neutron spin structure from SIDIS and DVCS on $^3\text{He}$**

*Tuesday, January 21, 2020 4:20 PM (30 minutes)*

**Presenter:** SCOPETTA, Sergio

**Session Classification:** Neutron structure: Inclusive, tagged, spin, GPDs

Contribution ID: 12

Type: **not specified**

## Neutron GPD fixed-target measurements

*Tuesday, January 21, 2020 4:50 PM (40 minutes)*

**Presenter:** BISELLI, Angela (Fairfield University)

**Session Classification:** Neutron structure: Inclusive, tagged, spin, GPDs

Contribution ID: 13

Type: **not specified**

## **Discussion: Neutron spin structure with EIC**

*Tuesday, January 21, 2020 5:30 PM (30 minutes)*

**Session Classification:** Neutron structure: Inclusive, tagged, spin, GPDs

Contribution ID: 14

Type: **not specified**

## **Describing few body systems at the limit of nucleonic DoF**

*Wednesday, January 22, 2020 9:00 AM (30 minutes)*

**Presenter:** SARGSIAN, Misak (Florida International University)

**Session Classification:** SRC: Nucleonic degrees of freedom, nuclear core

Contribution ID: 15

Type: **not specified**

## **Probing the deuteron at extremely large internal momenta**

*Wednesday, January 22, 2020 9:30 AM (30 minutes)*

**Presenter:** BOEGLIN, Werner

**Session Classification:** SRC: Nucleonic degrees of freedom, nuclear core



Contribution ID: 16

Type: **not specified**

## Introduction to short-range correlations

*Wednesday, January 22, 2020 10:00 AM (30 minutes)*

**Presenter:** PIASETZKY, Eli

**Session Classification:** SRC: Nucleonic degrees of freedom, nuclear core

Contribution ID: 17

Type: **not specified**

## Contact formalism and SRC universality

*Wednesday, January 22, 2020 10:50 AM (20 minutes)*

**Presenter:** CRUZ TORRES, Reynier

**Session Classification:** SRC: Nucleonic degrees of freedom, nuclear core

Contribution ID: **18**

Type: **not specified**

## **SRC and the core of the NN interaction**

*Wednesday, January 22, 2020 11:10 AM (20 minutes)*

**Presenter:** PYBUS, Jackson

**Session Classification:** SRC: Nucleonic degrees of freedom, nuclear core

Contribution ID: **19**

Type: **not specified**

## **SRC scaling at $x > 1$**

*Wednesday, January 22, 2020 11:30 AM (20 minutes)*

**Presenter:** DENNISTON, Andrew

**Session Classification:** SRC: Nucleonic degrees of freedom, nuclear core

Contribution ID: 20

Type: **not specified**

## **JLab A=3 (e,e'p) experiment**

*Wednesday, January 22, 2020 11:50 AM (20 minutes)*

**Presenter:** NGUYEN, Dien

**Session Classification:** SRC: Nucleonic degrees of freedom, nuclear core

Contribution ID: 21

Type: **not specified**

## **Discussion: SRC, nuclear core, contact formalism**

*Wednesday, January 22, 2020 12:10 PM (50 minutes)*

**Session Classification:** SRC: Nucleonic degrees of freedom, nuclear core

Contribution ID: 22

Type: **not specified**

## Toward 3N correlations

*Wednesday, January 22, 2020 2:00 PM (40 minutes)*

**Presenter:** DAY, Donal

**Session Classification:** SRC: 3N Correlations / Nuclear pions

Contribution ID: 23

Type: **not specified**

## Seeing nuclear pions at EIC

*Wednesday, January 22, 2020 2:40 PM (40 minutes)*

**Presenter:** MILLER, Gerald (UW)

**Session Classification:** SRC: 3N Correlations / Nuclear pions



Contribution ID: 24

Type: **not specified**

## **Inclusive electron scattering results with JLab 6 and 12 GeV**

*Wednesday, January 22, 2020 3:50 PM (40 minutes)*

**Presenter:** ARRINGTON, John (Argonne National Lab)

**Session Classification:** SRC: SRC-EMC Connection / Gluonic structure

Contribution ID: 25

Type: **not specified**

## **EMC-SRC connection and free neutron structure**

*Wednesday, January 22, 2020 4:30 PM (40 minutes)*

**Presenter:** SEGARRA, Efrain (Massachusetts Institute of Technology)

**Session Classification:** SRC: SRC-EMC Connection / Gluonic structure

Contribution ID: 26

Type: **not specified**

## **Gluonic structure of SRCs from high-momentum deuteron breakup**

*Wednesday, January 22, 2020 5:10 PM (40 minutes)*

**Presenter:** VENUGOPALAN, Raju (BNL)

**Session Classification:** SRC: SRC-EMC Connection / Gluonic structure

Contribution ID: 27

Type: **not specified**

## **Discussion: SRC studies with EIC**

*Wednesday, January 22, 2020 5:50 PM (40 minutes)*

**Session Classification:** SRC: SRC-EMC Connection / Gluonic structure

Contribution ID: **28**

Type: **not specified**

## **Dinner**

*Wednesday, January 22, 2020 7:00 PM (2 hours)*

Contribution ID: 29

Type: **not specified**

## Exclusive J/psi production on light nuclei

*Thursday, January 23, 2020 9:00 AM (40 minutes)*

**Presenter:** JOOSTEN, Sylvester (Temple University)

**Session Classification:** Gluonic structure / Coherent processes

Contribution ID: **30**

Type: **not specified**

## **Discussion: Coherent processes on light nuclei with EIC**

*Thursday, January 23, 2020 9:40 AM (20 minutes)*

**Session Classification:** Gluonic structure / Coherent processes

Contribution ID: **31**

Type: **not specified**

## **DVCS on He nuclei**

*Thursday, January 23, 2020 1:30 PM (30 minutes)*

**Presenter:** SCOPETTA, Sergio

**Session Classification:** Coherent processes



Contribution ID: 32

Type: **not specified**

## **Partonic structure of tensor-polarized deuteron**

*Thursday, January 23, 2020 2:00 PM (40 minutes)*

**Presenter:** KUMANO, Shunzo (KEK)

**Session Classification:** Tensor polarization

Contribution ID: 33

Type: **not specified**

## **Tensor polarized deuteron target development**

*Thursday, January 23, 2020 2:40 PM (30 minutes)*

**Presenter:** SLIFER, Karl

**Session Classification:** Tensor polarization

Contribution ID: 34

Type: **not specified**

## Tensor polarized measurements with EIC

*Thursday, January 23, 2020 3:10 PM (30 minutes)*

**Presenter:** LONG, Ellie

**Session Classification:** Tensor polarization

Contribution ID: 35

Type: **not specified**

## **Nuclear partonic structure from breakup measurements $A \geq 2$**

*Thursday, January 23, 2020 4:10 PM (30 minutes)*

**Presenter:** DUPRE, Raphael (IPN Orsay)

**Session Classification:** Tagged EMC effect: Fixed-target, EIC

Contribution ID: 36

Type: **not specified**

## Tagged EMC measurements with EIC

*Thursday, January 23, 2020 4:40 PM (30 minutes)*

**Presenter:** HAUENSTEIN, Florian (ODU)

**Session Classification:** Tagged EMC effect: Fixed-target, EIC

Contribution ID: 37

Type: **not specified**

## **Discussion: Nuclear partonic structure from tagged measurements with EIC**

*Thursday, January 23, 2020 5:10 PM (50 minutes)*

**Session Classification:** Tagged EMC effect: Fixed-target, EIC

Contribution ID: **38**

Type: **not specified**

# Leading-twist shadowing in inclusive and diffractive DIS

*Friday, January 24, 2020 9:00 AM (40 minutes)*

**Presenter:** GUZEY, Vadim (Petersburg Nuclear Physics Institute)

**Session Classification:** Shadowing / Fluctuations

Contribution ID: 39

Type: **not specified**

## **Diffraction and fluctuations in high-energy scattering on light nuclei**

*Friday, January 24, 2020 9:40 AM (40 minutes)*

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

**Session Classification:** Shadowing / Fluctuations



Contribution ID: 40

Type: **not specified**

## Break

**Session Classification:** Shadowing / Fluctuations

Contribution ID: 41

Type: **not specified**

## **Concepts and challenges in forward ion detection with EIC**

*Friday, January 24, 2020 10:50 AM (30 minutes)*

**Presenter:** NADEL-TURONSKI, Pawel (Jefferson Lab)

**Session Classification:** Forward ion detection with EIC

Contribution ID: 42

Type: **not specified**

## **EIC IR and forward detector design**

*Friday, January 24, 2020 11:50 AM (30 minutes)*

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

**Session Classification:** Forward ion detection with EIC

Contribution ID: 43

Type: **not specified**

## **Discussion: Forward ion detection with EIC**

*Friday, January 24, 2020 12:20 PM (40 minutes)*

**Session Classification:** Forward ion detection with EIC

Contribution ID: 44

Type: **not specified**

## Event reconstruction in inclusive eA scattering

*Friday, January 24, 2020 2:00 PM (30 minutes)*

**Presenter:** SCHMOOKLER, Barak (Stony Brook University)

**Session Classification:** EIC simulations / Planning

Contribution ID: 45

Type: **not specified**

## **Discussion: Simulation tools, collaboration, next steps**

*Friday, January 24, 2020 2:30 PM (2h 30m)*

**Session Classification:** EIC simulations / Planning

Contribution ID: 46

Type: **not specified**

## **JLab TDIS experiment**

*Tuesday, January 21, 2020 11:00 AM (30 minutes)*

**Presenter:** KEPPEL, Cynthia (Thomas Jefferson National Accelerator Facility)

**Session Classification:** Nucleon fragmentation / Nuclear breakup

Contribution ID: 47

Type: **not specified**

## **Beam optics and momentum resolution in forward ion detection with EIC**

*Friday, January 24, 2020 11:20 AM (30 minutes)*

**Presenter:** HYDE, Charles (Old Dominion University)

**Session Classification:** Forward ion detection with EIC