

Next generation nuclear physics with JLab12 and EIC



Wednesday, February 10, 2016 - Saturday, February 13, 2016

Florida International University

Scientific Program

"Next Generation Nuclear Physics with JLab12 and EIC"

Florida International, Miami, 10-13 February 2016

Wednesday, February 10, 2016

Venue: Wertheim Conservatory WC130

08:00 - 08:45 Registration

Session: High Energy Nuclear Physics

08:45 - 08:50 Walter Van Hame(FIU): "Welcome from School of Integrated Science and

Humanities"

08:50 - 09:20 Christian Weiss (JLab): "Overview and plan of the meeting"

09:20 - 10:00 Mark Strikman (Penn State): "Outstanding issues in high energy nuclear physics"

10:00-10:20 Coffee Break

10:20 - 11:00 Anthony Thomas (Adelaide): "Nuclear structure in the context of QCD"

11:00 - 11:30 John Arrington (Argonne): "Status of nuclear modification studies"

11:30 - 13:00 Lunch

13:00 - 13:30 Pawel Nadel-Turonski (JLab): "EIC capabilities for eA experiments"

Session: Neutron structure: inclusive, tagged, spin, DVCS

13:30 - 14:00 Abhay Deshpande(Stony Brook): "Nucleon spin structure in DIS with EIC"

14:00 - 14:30 Sebastian Kuhn (Old Dominion): "Neutron structure with BoNuS"

14:30 - 15:00 Kijun Park (JLab): "Neutron spin structure with tagging at EIC"

15:00 - 15:30 Coffee Break

15:30 - 16:00 Carlos Munoz Camacho (Orsay) "Neutron DVCS"

16:00 - 16:30 Dipangkar Dutta (MsState): "Tagging mesonic components of the nucleon"

16:30 - 17:00 Wally Melnitchouk (JLab): "Pion structure from leading neutrons at HERA"

17:00 - 18:30 Discussion: "Neutron structure and tagging with EIC"

19:00 - 21:00 Reception at MARC Lobby & Terrace

Thursday, February 11, 2016

Venue: GC150 (note different room)

Session: Partons in nuclei: Shadowing, antishadowing, EMC effect

09:00 - 09:30 Vadim Guzey (St.Petersburg):
"Leading-twist shadowing from LHC ALICE data"

09:30 - 10:00 Cynthia Keppel (JLab): "Neutrino vs electron data in antishadowing region"

10:00 - 10:30 Ian Cloet (Argonne): "The EMC and EMC-like effects

- exposing the partonic

structure of nuclei"

10:30 - 10:50 Coffee Break

Session: High-momentum components in nuclei: SRCs, non-nucleonic DOF, $x > 1$

10:50 - 11:10 Eli Piassetzky (Tel Aviv): "SRC overview and next-generation studies"

11:10 - 11:30 Or Hen (MIT): "Momentum sharing in asymmetric systems"

11:30 - 11:50 Erez Cohen (Tel Aviv): "Probing three-nucleon SRCs with exclusive reactions"

11:50 - 12:20 Donal Day (UVA): "2N and 3N correlations in few-body systems at $x > 1$ "

12:20 - 13:30 Lunch

13:30 - 14:00 Nadia Fomin (UTK): "SRC studies with $x > 1$ "

14:00 - 14:20 Douglas Higinbotham (JLab): "Tagged EMC effect and EMC-SRC connection"

14:20 - 14:40 Or Hen (MIT): "SRC studies with EIC"

14:40 – 15:00 Patricia Solvignon (New Hampshire): "The $x < 3$ experiment"

15:00 - 15:30 Coffee Break Discussion: "Nuclear partons and SRCs with EIC"

Session: Nuclear structure in high-energy processes

15:30 - 16:00 Thomas Neff (Darmstadt): "Nuclear structure calculations with SRCs"

16:00 - 16:30 Gerald Miller (UW): "Light-front nuclear structure"

16:30 - 17:00 Werner Boeglin (FIU): "Probing the deuteron at very short distances"

17:00 - 17:30 Sergio Scopetta (Perugia): Polarized 3He spectral functions

17:30 - 18:00 Discussion: Nuclear structure theory for EIC

Friday, February 12, 2016

Venue: Wertheim Conservatory WC130

Session: Hadrons in nuclei: Color transparency, heavy probes

09:00 - 09:30 Kawtar Hafidi (Argonne): Color transparency at JLab and EIC

09:30 - 10:00 Michael Paolone (Temple U): Probing nuclear color states with J/psi and phi

10:00 - 10:30 Coffee Break/Discussion

Session: Parton propagation and hadronization in nuclei

10:30 - 11:00 Lamiaa El Fassi (MsState): "Hadronization with JLab 6/12 GeV"

11:00 - 11:30 Raphael Dupre (Orsay): "Energy loss models for e-A"

11:30 - 12:00 Rolf Ent (JLab): "p_T dependent fragmentation in DIS on protons and nuclei"

12:00 - 12:30 Discussion: "Parton propagation and hadronization"

12:30 - 14:00 Lunch

14:00 - 14:30 Boris Blok (Technion): "Jets in e-p - definition, properties"

14:30 - 15:00 Ivan Vitev (Los Alamos): "Jets and nuclear modifications with EIC"

15:00 - 16:00 Coffee Break/Discussion: "Parton propagation and hadronization with EIC"

Session: Tensor-polarized deuteron

16:00 - 16:30 Shunzo Kumano (KEK/J-PARC): "DIS on tensor polarized deuteron"

16:30 - 17:00 Ellie Long (New Hampshire): "Tensor polarized deuteron at JLab"

17:00 - 17:30 Narbe Kalantarians (Hampton): "Tensor-polarized deuteron at EIC"

17:30 - 18:00 Discussion: "Tensor polarized deuteron with JLab12 and EIC"

19:30 Conference Dinner: La Palma Ristorante (Coral Gables)

Saturday, February 13, 2016

Venue: Wertheim Conservatory WC130

Session: Coherent nuclear processes, final-state interactions

09:00 - 09:30 Simonetta Liuti (UVA): "Nuclear GPDs and coherent DVCS"

09:30 - 09:50 Mohammad Hattawy (Argonne): "Coherent DVCS on ^4He "

09:50 - 10:20 Wim Cosyn (Ghent): "FSI in tagged DIS with deuteron"

10:20 - 10:50 Coffee Break

Session: PDF analysis, gluonic structure, QCD evolution

10:50 - 11:20 Nobuo Sato (JLab): Iterative Monte-Carlo analysis of spin-dependent PDFs

11:20 - 11:40 Jacob Ethier(WM/JLab): Polarized sea quark PDFs from SIDIS

11:40 - 12:10 Matthew Sievert (BNL): Short-Range NN Correlations at an EIC

12:10 - 12:30 Adam Freese (FIU): $x > 1$ in QCD evolution and collider experiments

12:30 - 2:00 Lunch

Session: New experimental methods and proposals

14:00 - 14:20 Igor Strakovsky (GWU): Hadron physics at EIC facility

14:20 - 14:40 Zein-Eddine Meziani (Temple U): Nuclear measurements with SOLID

14:40 - 15:10 Alexander Somov (Jlab) Nuclear photoproduction with GlueX

15:10 - 15:40 Coffee Break

15:40 - 16:10 Mark Baker (BNL): "Centrality Tagging in eA at EIC"

16:10 - 16:40 Charles Hyde (Old Dominion): "Nuclear gluons with charm at EIC"

16:40 - 18:00 Discussion: "Nuclear experiments with JLab and EIC"