Probing Nucleons and Nuclei in High Energy Collisions

INT Program 18-3

October 1—November 16, 2018

Organizers Yuri Ko

Yuri Kovchegov (Ohio State U.)

Cyrille Marquet (Ecole Polytechnique)

Alexey Prokudin (Penn State U. Berks)

Yoshitaka Hatta (BNL/Kyoto U.)

Organizers:
Daniel Boer
KVI, University of
Groningen
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Markus Diehl DESY markus.diehl@desy.de

Richard Milner MIT milner@mit.edu

Raju Venugopalan Brookhaven National Laboratory raju@quark.phy.bnl.gov Gluons and the quark sea at high energ distributions, polarization, tomograph

September 13 to November 19, 2010

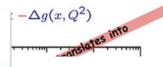
Report from the INT program "Gluons and the quark se energies:

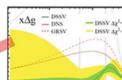
distributions, polarization, tomography"

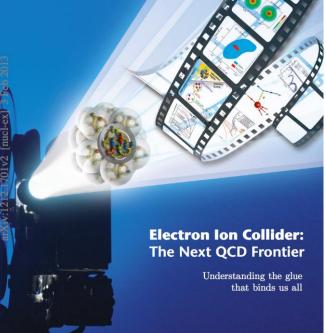
2010 INT workshop

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 dq_1







2012 White paper

An Assessment of U.S.-Based Electron-Ion Collider Science

"The committee finds that the science that can be addressed by an EIC is compelling, fundamental and timely."

2018 NAS report

REACHING FOR THE HORIZON



The 2015 LONG RANGE PLAN for NUCLEAR SCIENCE



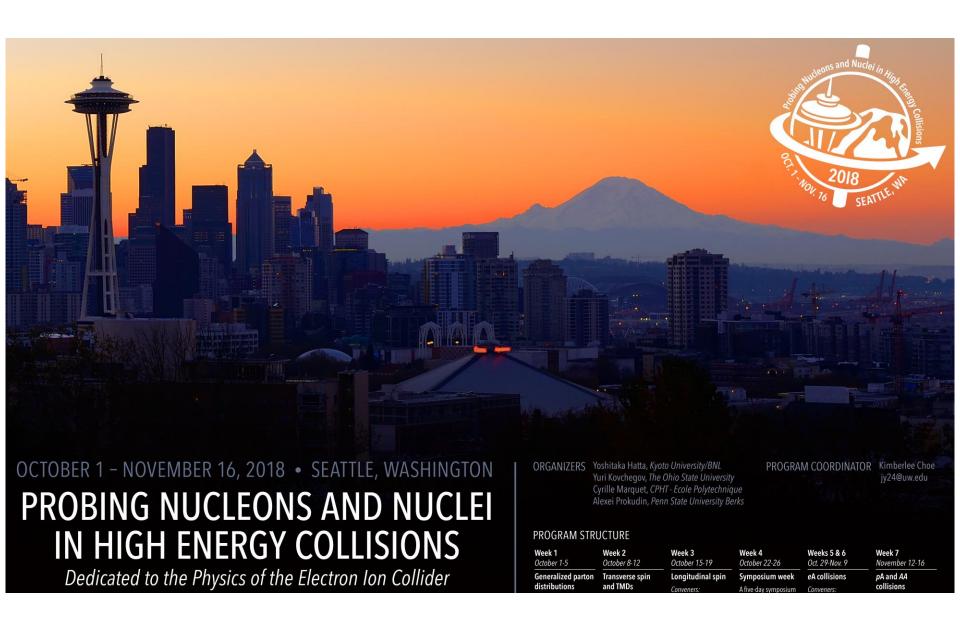
2018 INT workshop

http://www.int.washington.edu/PROGRAMS/18-3/

Goals: Assess the current status of the EIC-related physics (theory/phenomenology); discuss new ideas, new measurements; lay the groundwork for another EIC white paper

	# of participants
Week 1 (October 1-5): Generalized parton distributions Conveners: Tanja Horn, Andreas Metz, Christian Weiss	25
Week 2 (October 8-12): Workshop on Transverse spin and TMDs Harut Avakian, Alessandro Bacchetta, Daniel Boer, Zhongbo Kan	≺u
Week 3 (October 15-19): Longitudinal spin Elke Aschenauer, Keh-Fei Liu, Cedric Lorce, Marco Stratmann	26
Week 4 (October 22-26) : Symposium week	35
Weeks 5 & 6 (October 29-November 9) : eA collisions Giovanni Chirilli, Charles Hyde, Anna Stasto, Thomas Ullrich, Bowen Xi23 & 24	
Week 7 (November 12-16): pA and AA collisions Adrian Dimitru, Francois Gelis, Tuomas Lappi, Yacine Mehtar-Tar	ni 25

Poster for the workshop



 Talks will be broadcasted (remote participation by Zoom), recorded and posted (if the speaker permits)

 Wiki pages for each week to document discussions, to be maintained by conveners

https://wiki.bnl.gov/EIC2018/index.php/Main Page

Proceedings will be published.