

Electron-Ion Collider User Group Meeting

The world's most powerful microscope for studying the "glue" that binds the building blocks of visible matter

EICUG

2023

• Early Career

• EICUG

• ePIC

• Detector-II

Vistula River

International Advisory Committee:

- E. C. Aschenauer (BNL)
- S. Dalla Torre (INDN Trieste)
- A. Deshpande (CFNS, Stony Brook U. & BNL)

Local Organising Committee:

- | | |
|--|-------------------------------------|
| • R. Ent (JLab) | • T. Altinoluk (NCBJ) |
| • R. Fatemi (U. Kentucky) | • B. Badetek (U. Warsaw, chair) |
| • P. Nadel-Turonski (CFNS, Stony Brook U.) | • D. Kikoła (WUT) |
| • M. Radici (INFN Pavia) | • M. Suster (Candela F., U. Warsaw) |
| • J. Rittenhouse West (LBNL) | • P. Sznajder (NCBJ) |
| • E. Sichtermann (BNL) | • J. Wagner (NCBJ) |
| • P. Sznajder (NCBJ) | |

JULY 23 - 31 2023

Warsaw



<https://indico.cern.ch/e/EICUG2023>



Welcome to Detector-II meeting

M. Radici

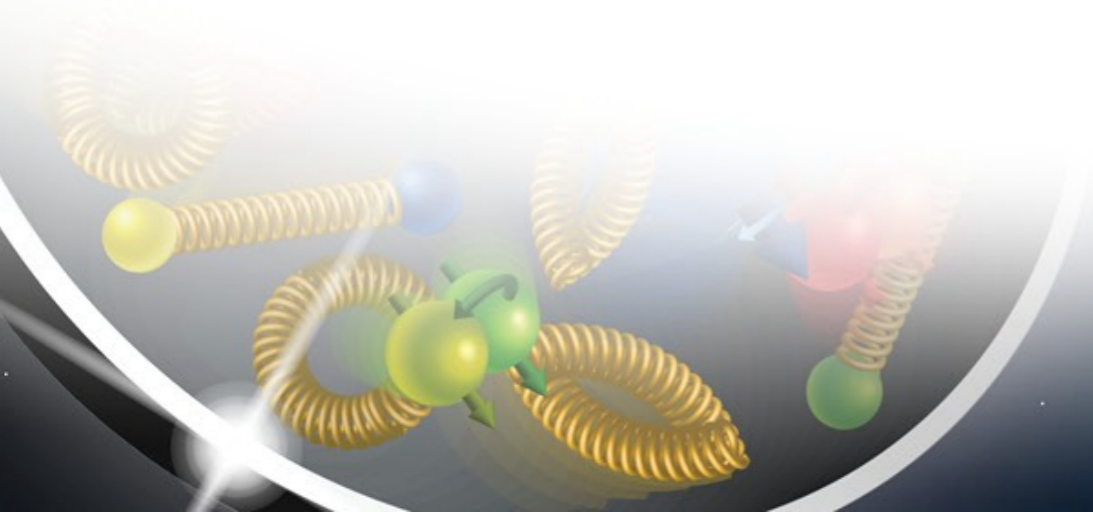


on behalf of the EICUG
Steering Committee

Program

SUNDAY 23 JUL	MONDAY 24 JUL	TUESDAY 25 JUL	WEDNESDAY 26 JUL	THURSDAY 27 JUL	FRIDAY 28 JUL	SATURDAY 29 JUL	SUNDAY 30 JUL	MONDAY 31 JUL
Early Career Workshop	Early Career Workshop	EIC	EIC	ePIC	ePIC	ePIC	Trip 3	Det II / IP8
Early Career Workshop	Early Career Workshop	EIC	ePIC evening: Conference Dinner	ePIC evening: Trip 1	ePIC	Trip 2	Det II / IP8	Det II / IP8

Agenda prepared by the EICUG Detector-II Working Group,
with special thanks to Pawel Nadel-Turonski



Sunday afternoon

	Welcome 1.01, Faculty of Physics, University of Warsaw	Marco Radici 14:30 - 14:40
15:00	Intro to 2nd detector 1.01, Faculty of Physics, University of Warsaw	Abhay Deshpande 14:40 - 15:15
	Physics opportunities with a 2nd focus 1.01, Faculty of Physics, University of Warsaw	Dr Pawel Nadel-Turonski 15:15 - 15:40
16:00	2nd detector WG 1.01, Faculty of Physics, University of Warsaw	Renee Fatemi 15:40 - 16:05
	Generic R&D programme 1.01, Faculty of Physics, University of Warsaw	David Mack 16:05 - 16:30
	Coffee break Faculty of Physics, University of Warsaw	16:30 - 17:00
17:00	DIRC - future opportunities 1.01, Faculty of Physics, University of Warsaw	Roman Dzhygadlo 17:00 - 17:30
	A KLM for the EIC 1.01, Faculty of Physics, University of Warsaw	Simon Schneider 17:30 - 18:00
18:00	Timelike Compton Scattering (dileptons) 1.01, Faculty of Physics, University of Warsaw	Pierre Chatagnon 18:00 - 18:30

Introduction

Physics opportunities
the EICUG Det.II
Working Group


R&D *

explore
new channels

* The second detector effort will rely heavily on the use of generic detector R&D funds and accelerator design effort to integrate the detector into the interaction region.

from *QCD Town Hall initiative* at NSAC LRP

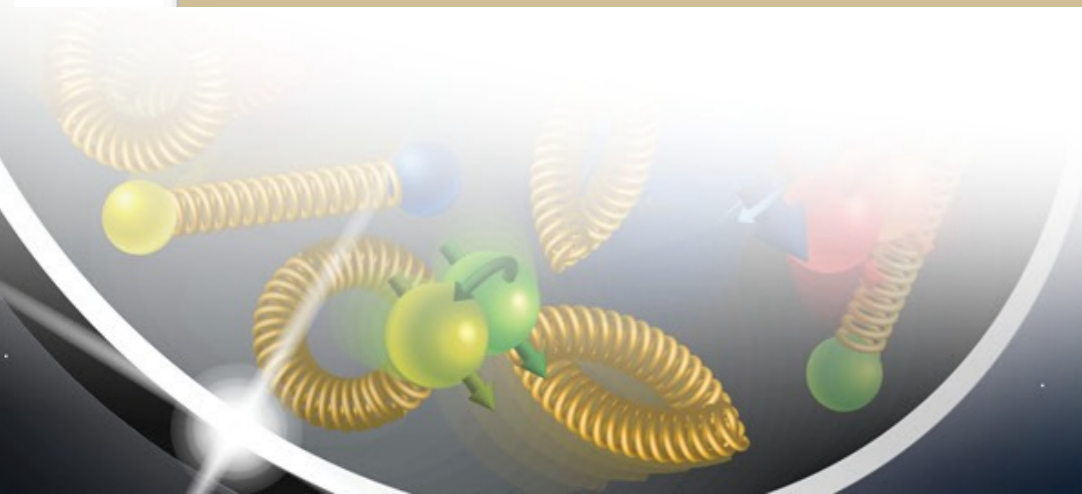
Monday morning

09:00	Summary of past workshops - physics / theory <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Simonetta Liuti</i> 09:00 - 09:35	
	Summary of past workshops - experiment / detector <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Dr Ernst Sichtermann</i> 09:35 - 10:10	
10:00	Low-Q2 tagger coverage <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Dr Stephen Kay</i> 10:10 - 10:35	
	A few degree calorimeter: bridging the Q2 gap <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Miguel Arratia Munoz</i> 10:35 - 11:00	
11:00	Coffee break <i>Faculty of Physics, University of Warsaw</i>	11:00 - 11:30	
	Reggeons <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Anna Maria Stasto</i> 11:30 - 12:00	
12:00	Gluon TMDs <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Dr Francesco Giovanni Celiberto</i>  12:00 - 12:30	
	Double parton distributions <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Matteo Rinaldi</i> 12:30 - 13:00	
13:00	Lunch break		

Th. / Exp. summaries
of previous workshops

Low Q^2 / angle
coverage

Theory talks



Monday afternoon

	Two detectors <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>hugh montgomery</i> 14:30 - 15:00
15:00	Synergies with the LHeC <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Paul Richard Newman</i> 15:00 - 15:30
	Deep Exclusive Meson Production as a probe of Lambda polarization at the EIC <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Dr Zhoudunming Tu</i> 15:30 - 16:00
16:00	Rare isotopes at the EIC <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Barak Schmookler</i> 16:00 - 16:30
	Coffee break <i>Faculty of Physics, University of Warsaw</i>	16:30 - 17:00
17:00	Low-x jets / hadronic calorimetry in the electron endcap <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Brian Page</i> 17:00 - 17:30
18:00	Discussion on international participation <i>1.01, Faculty of Physics, University of Warsaw</i>	<i>Abhay Deshpande et al.</i> 17:30 - 18:30

Motivations & synergies
of Detector-II

explore new channels

Discussion on
international engagement

The design and construction of such a complementary detector and interaction region are interwoven and must be synchronized with the current EIC project and developed in the context of a broad and engaged international EIC community.

from *QCD Town Hall initiative* at NSAC LRP

