# **2020 EIC Users Group Meeting**

Wednesday 15 July 2020 - Friday 17 July 2020 FIU



## **Book of Abstracts**

## **Contents**

Welcome / Status update EICUG	1
EIC Project update	1
EIC Machine design update	1
EIC Software update	1
US Funding Agency Presentations: Department of Energy	1
US Funding Agency Presentations: National Science Foundation	1
Countries / Community representatives: India	1
Countries / Community representatives: Czech Republic	1
Countries / Community representatives: Germany	1
Countries / Community representatives: Poland	2
IB News	2
Expressions of Interest Q&A	2
Discussion of upcoming call for detector proposals and collaboration formation	2
Charter update discussion	2
EOI contributed presentation: Institute for Modern Physics of the Chinese Academy of Sciences + consortium of Chinese institutions	2
Integration, Material budget, Magnet	2
Background level	3
Data rates (background + signal)	3
Path towards "full detector simulations"	3
Detector matrix review and moving the needle forward	3
Path towards complementarity	3
Additional topics	3
Inclusive reactions WG	4

Semi-inclusive Reactions WG	4
Jets, Heavy Quarks WG	4
Exclusive Reactions WG	4
Diffractive Reactions & Tagging WG	4
Countries / Community representatives: Canada	4
EOI contributed presentation: CEA Saclay	4
EOI contributed presentation: INFN	4
EOI contributed presentation: AGH U. of Science and Technology, IFJ PAN, and Temple – Forward detectors in the electron hemisphere	4
EOI contributed presentation: Consortium to construct the Electron Endcap Electromagnetic Calorimeter (crystal/glass) - CUA, MIT, IPN Orsay, Kentucky, Lehigh, Alikhanian National Laboratory	5
EOI contributed presentation: Los Alamos National Lab	5
EOI contributed presentation: University of California EIC Consortium	5
EOI contributed presentation: Stony Brook University	5
EOI contributed presentation: Argonne National Lab	5

Plenary Session / 1
Welcome / Status update EICUG
Plenary Session / 2
EIC Project update
Plenary Session / 3
EIC Machine design update
Plenary Session / 4
EIC Software update
Plenary Session / 5
US Funding Agency Presentations: Department of Energy
Plenary Session / 6
US Funding Agency Presentations: National Science Foundation
Plenary Session / 7
Countries / Community representatives: India

Countries / Community representatives: Czech Republic

Plenary Session / 8

Plenary Session / 9

Countries / Community representatives: Germany

Plenary Session / 10

Countries / Community representatives: Poland

Plenary Session / 11

**IB News** 

Plenary Session / 12

**Expressions of Interest Q&A** 

Plenary Session / 13

Discussion of upcoming call for detector proposals and collaboration formation

Plenary Session / 14

Charter update discussion

Plenary Session / 15

EOI contributed presentation: Institute for Modern Physics of the Chinese Academy of Sciences + consortium of Chinese institutions

Plenary Session / 16

Integration, Material budget, Magnet

- 1) Integration issues
- 2) Continue discussion on material budget
- include detector dead areas defined by services
- 3) Configurations correlated with the magnet (bore, field, etc.) what is really needed?
- pro/con for different magnets

Plenary Session / 17

### **Background level**

short presentation on where things are

**Plenary Session / 18** 

#### Data rates (background + signal)

- 1) estimating the number of channels to read, the expected rate per channel, the information to read.
- 2) contribution from detectors-related noise
- 3) hit rate in the VTX layers of the tracking detectors including background.
- 4) radiation dose in the VTX layers of the tracking detectors in both TID and NIEL.
- 5) ...

Plenary Session / 19

## Path towards "full detector simulations"

Plenary Session / 20

## Detector matrix review and moving the needle forward

Plenary Session / 21

## Path towards complementarity

Plenary Session / 22

## **Additional topics**

Plenary Session / 23

#### **Inclusive reactions WG**

Plenary Session / 24

#### Semi-inclusive Reactions WG

Plenary Session / 25

### Jets, Heavy Quarks WG

Plenary Session / 26

#### **Exclusive Reactions WG**

Plenary Session / 27

## Diffractive Reactions & Tagging WG

Plenary Session / 28

## Countries / Community representatives: Canada

Plenary Session / 29

## **EOI contributed presentation: CEA Saclay**

Plenary Session / 30

## **EOI** contributed presentation: INFN

Plenary Session / 31

EOI contributed presentation: AGH U. of Science and Technology, IFJ PAN, and Temple –Forward detectors in the electron hemisphere

Plenary Session / 32

EOI contributed presentation: Consortium to construct the Electron Endcap Electromagnetic Calorimeter (crystal/glass) - CUA, MIT, IPN Orsay, Kentucky, Lehigh, Alikhanian National Laboratory

Plenary Session / 33

**EOI contributed presentation: Los Alamos National Lab** 

Plenary Session / 34

**EOI contributed presentation: University of California EIC Consortium** 

**Plenary Session / 35** 

**EOI contributed presentation: Stony Brook University** 

Plenary Session / 36

**EOI contributed presentation: Argonne National Lab**