

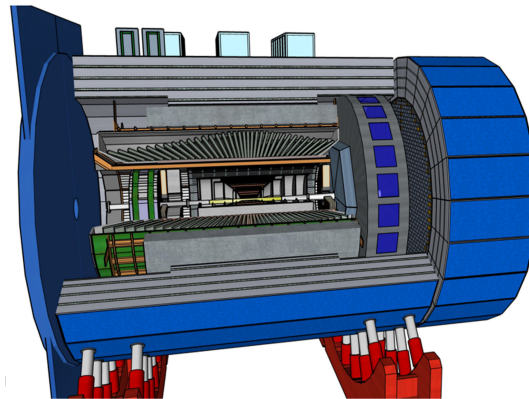
Detector 1 General Meeting Updates and Plans

Bernd Surrow



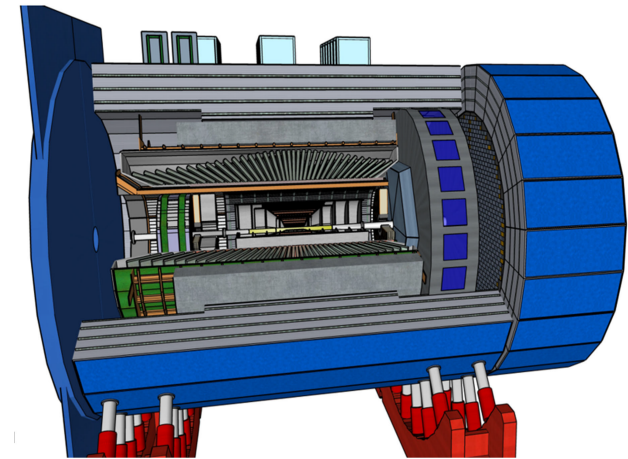
On behalf of the Detector 1 Steering Group (SG)

Silvia Dalla Torre, Or Hen, Tanja Horn, John Lajoie, and Bernd Surrow



Outline

- Goals / Plans
- Reminder:
 - Detector Working Groups and Charge
 - Physics Working Groups and Charge
 - Computing & Software and Simulation Production & QA Working Groups
 - Global Design & Integration Working Group
 - Organizational details: INDICO / Calendar
- Example of community/project engagement: Mechanical Design
(Other examples will be featured in follow-up meetings!)
- Highlights Discussion with project: May 10, 2022
- Vision of Collaboration Forming Process
- Institutional Survey
- Summary





Goals / Plans

- Goal / Plans:
 - Formation of a new scientific collaboration for the first EIC detector, so far referred to as Detector-1 - Project Detector
 - Vision for a collaboration forming process: Institutional Survey / Formation of prelim. IB / Nomination & Formation of Bylaws/Charter Committee / Formulation & Adoption of Bylaws/Charter / Nomination & Election Process of Detector 1 Leadership
 - Detector 1:
 - Evolution of ECCE reference design to Detector-1 - Project Detector embraced by Detector 1 Collaboration through newly formed Working Groups during this transition process
 - Prepare for CD-2 / CD-3

Reminder: Detector WG and Charge

□ Detector Working Groups: 7

Tracking:

Xuan Li: xuanli@lanl.gov

Kondo Gnanvo: kagnanvo@jlab.org

Laura Gonella: laura.gonella@cern.ch

Francesco Bossu: francesco.bossu@cea.fr

Calorimetry:

Friederike Bock: Friederike.Bock@cern.ch

Carlos Munoz Camacho: munoz@jlab.org

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Paul Reimer: reimer@anl.gov

Cerenkov PID:

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Grzegorz Kalicy: kalicy@cu.edu

Tom Hemmick: tkhemmick@gmail.com

Roberto Preghenella: preghenella@bo.infn.it

TOF PID (AC-LGADs):

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Far Forward:

Michael Murray: mjmurray@ku.edu

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Alex Jentsch: ajentsch@bnl.gov

John Arrington: JArrington@lbl.gov

Far Backward:

Igor Korover: korover@mit.edu

Nick Zachariou: nick.zachariou@york.ac.uk

Krzysztof Piotrkowski: krzysztof.piotrkowski@cern.ch

Jaroslav Adam: jaroslavadam299@gmail.com

DAQ/Electronics/Readout:

Chris Cuevas: cuevas@jlab.org

Jo Schambach: schambachjj@ornl.gov

Alexandre Camsonne: camsonne@jlab.org

Jeff Landgraf: jml@bnl.gov



Reminder: Detector WG and Charge

□ Charge

- The overall goal of the detector WGs is to optimize the ECCE reference design towards a technical design within the constraints of performance, cost, and risk. In working toward this goal, the Detector WGs should collaborate with existing detector consortia, all detector R&D efforts relevant for Detector-1, and any additional efforts within the EIC community.
- All WGs will work closely with the Global Design & Integration WG and the EIC project toward a technical design that optimizes the global detector performance, taking into account global integration and physics performance.
- It is critical that WG members understand the scientific and technical reasoning behind different design choices before engaging in a discussion of optimization.
- WG conveners will lead discussions identifying any non-trivial differences and/or aspects in need of further optimization.
- For each non-trivial difference, WGs will then prepare a pro/con list accounting for technical performance, risk, and cost. The resolution of non-trivial differences should be discussed in close consultation with the Global Design & Integration WG, Physics WGs, the EIC project, relevant detector consortia, and R&D efforts.



Reminder: Physics WG and Charge

□ Physics Working Groups: 5

Inclusive:

Tyler Kutz: tkutz@mit.edu

Claire Gwenlan: claire.gwenlan@physics.ox.ac.uk

Barak Schmookler: barak.schmookler@stonybrook.edu

Paul Newman: paul.richard.newman@cern.ch

Jets and Heavy Flavor:

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Wangmei Zha: first@ustc.edu.cn

Miguel Arratia: miguela@ucr.edu

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Semi-Inclusive:

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Charlotte Van Hulse: cvanhuls@mail.cern.ch

Anselm Vossen: anselm.vossen@duke.edu

Marco Radici: marco.radici0@gmail.com

BSM & Precision EW:

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Sonny Mantry: Sonny.Mantry@ung.edu

Yulia Furletova: yulia@jlab.org

Ciprian Gal: ciprian@jlab.org

Exclusive, Diffraction and Tagging:

Axel Schmidt: axelschmidt@gwu.edu

Rachel Montgomery: Rachel.Montgomery@glasgow.ac.uk

Spencer Klein: srklein@lbl.gov

Daria Sokhan: Daria.Sokhan@glasgow.ac.uk



Reminder: Physics WG and Charge

□ Charge

- Working with the Detector WGs to perform constant **validation of performances of physics observables**.
Emphasis should be placed on studies of key physics processes in the NAS report, the EIC whitepaper, the Yellow Report, and detector proposals.
- When **alternative technological solutions** are examined, work with the detector groups should be carried out to **provide quantitative information on the physics performance** of the proposed solutions.
- In collaboration with the Computing & Software and Simulation Production & QA WGs, simulation and data analysis tools should be further developed. Workshops should be organized as needed to provide training in the use of these tools for collaborators.
- Over time, extend the existing scope of physics processes being studied, with an emphasis on these processes called out by the DPAP as being significant for the science program and not yet studied.

Reminder: Computing & Software WG

□ Computing & Software WG and Simulation Production & QA WG:

Computing & Software WG:

Cristiano Fanelli cfanelli@mit.edu

David Lawrence davidl@jlab.org

Sylvester Joosten sjoosten@anl.gov

Andrea Bressan Andrea.Bressan@cern.ch

Simulation Production & QA WG:

Joe Osborn: osbornjd@ornl.gov

Wenliang (Bill) Li: wenliang.billlee@gmail.com

Zhoudunming (Kong) Tu: zhoudunming@bnl.gov

Wouter Deconinck: wouter.deconinck@umanitoba.ca

□ Charge

- Both WGs must function with a great deal of cooperation!
- The *Computing & Software WG* should *concentrate on longer-term issues* surrounding the *computing model, computing plan, and AI*.
- The *Simulations & QA working group* is responsible for *producing the simulations required to support the detector and physics working groups*.
 - Both WGs function directly as a *service WGs for the DWGs/PWGs*.
 - *Maintain the integrity of our simulation*.
- Both WGs need to work together to address issues of *software and analysis framework*, both in the short- and long-term.

Reminder: Global Design & Integration WG

□ Global Design & Integration WG

Global Design & Integration WG:

Richard Milner milner@mit.edu

Jin Huang jhuang@bnl.gov

Thomas Ullrich thomas.ullrich@bnl.gov

Silvia Dalla Torre Silvia.DallaTorre@cern.ch

□ Charge

- WG is charged to take a **broad view of the EIC project detector** as it **evolves into a technical design**.
- Work with the project and WGs to **develop a detailed, integrated technical design of the project detector: Integration of detector systems, the necessary supports and services, and the requirements imposed by the ability to service the detector** between EIC running periods.
- Work with the project and WGs to **ensure that the integrated project detector remains capable of the full science program outlined in the EIC whitepaper and NAS report**. Where compromises need to be made in the integration of the project detector, ensure that the proper simulations are completed to ensure they do not unduly compromise the EIC science program.

Reminder: Organizational Details (INDICO)

□ INDICO section for Detector 1:

- Link: <https://indico.bnl.gov/category/402/>
- This link allows access to all WG meetings / General meetings!

□ Mailing lists: **Detector** / **Physics** / **Computing & Software** / **Global Design & Integr.**

eic-projdet-tracking-l@lists.bnl.gov

eic-projdet-calo-l@lists.bnl.gov

eic-projdet-CPID-l@lists.bnl.gov

eic-projdet-TOFPID-l@lists.bnl.gov

eic-projdet-FarForw-l@lists.bnl.gov

eic-projdet-FarBack-l@lists.bnl.gov

eic-projdet-daq-l@lists.bnl.gov

eic-projdet-Inclusive-l@lists.bnl.gov

eic-projdet-SemiIncl-l@lists.bnl.gov

eic-projdet-ExclDiff-l@lists.bnl.gov

eic-projdet-JetHF-l@lists.bnl.gov

eic-projdet-BSMEW-l@lists.bnl.gov

eic-projdet-CompSW-l@lists.bnl.gov

eic-projdet-SimQA-l@lists.bnl.gov

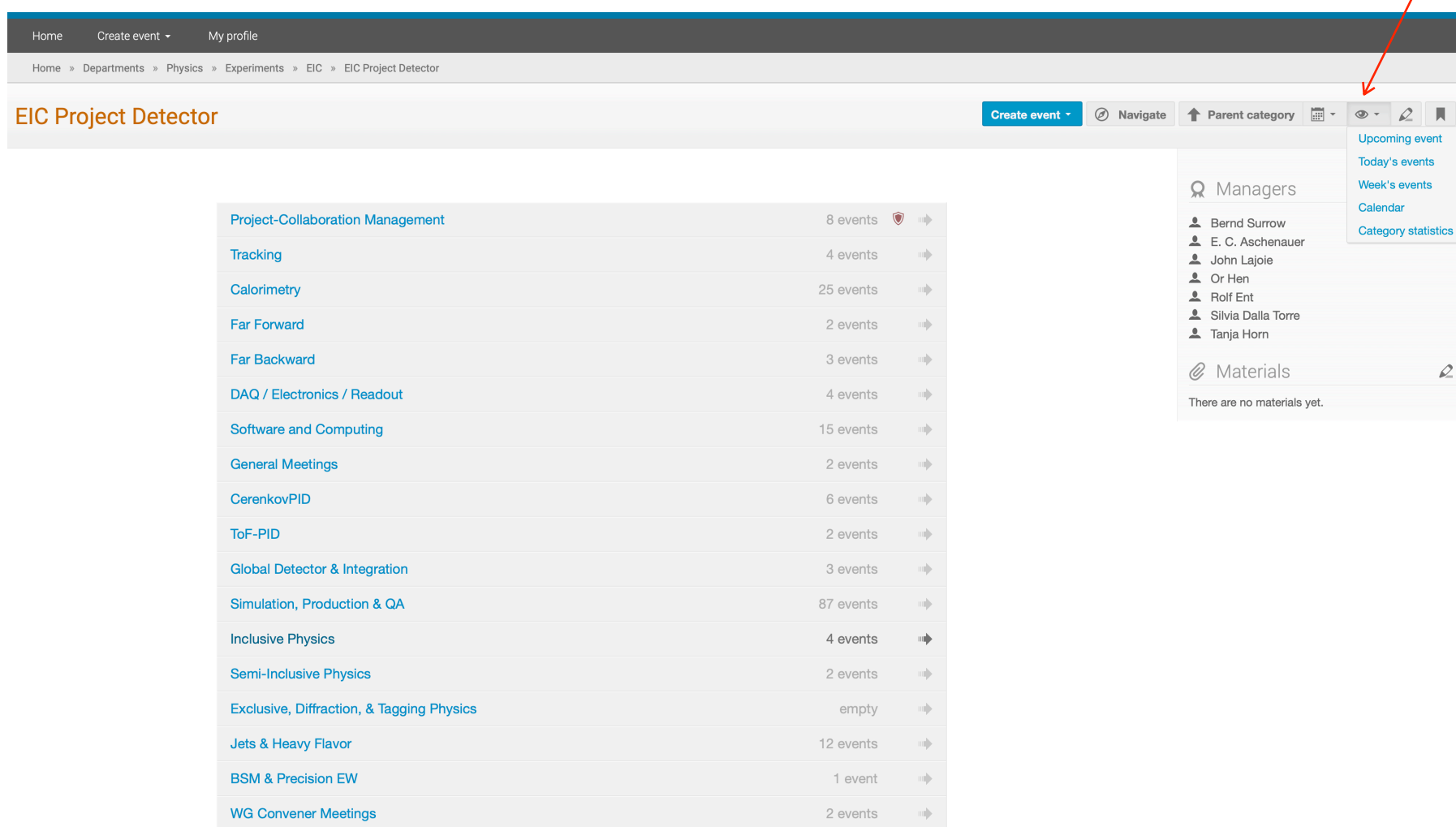
eic-projdet-GlobalInt-l@lists.bnl.gov

□ WIKI page:

- Link: https://wiki.bnl.gov/eic-project-detector/index.php/Main_Page
- The page provides information on Working Groups, contact information, mailing lists, calendar information, and a place for documentation and sharing resources (<https://wiki.bnl.gov/eic-project-detector/index.php/Collaboration>)!

Reminder: Organizational Details (INDICO)

- Calendar: Click on <https://indico.bnl.gov/category/402/>, then go to View (Top Right)



The screenshot shows the INDICO interface for the EIC Project Detector category. The top navigation bar includes 'Home', 'Create event', and 'My profile'. The breadcrumb trail is 'Home » Departments » Physics » Experiments » EIC » EIC Project Detector'. The main title is 'EIC Project Detector'. The right sidebar contains a 'Create event' button, 'Navigate', 'Parent category', and a 'View' icon (indicated by a red arrow). Below the 'View' icon is a dropdown menu with options: 'Upcoming event', 'Today's events', 'Week's events', 'Calendar', and 'Category statistics'. The main content area displays a list of sub-categories with their respective event counts and icons.

| Category | Event Count | Icon |
|---|-------------|------|
| Project-Collaboration Management | 8 events | 🛡️ |
| Tracking | 4 events | 👉 |
| Calorimetry | 25 events | 👉 |
| Far Forward | 2 events | 👉 |
| Far Backward | 3 events | 👉 |
| DAQ / Electronics / Readout | 4 events | 👉 |
| Software and Computing | 15 events | 👉 |
| General Meetings | 2 events | 👉 |
| CerenkovPID | 6 events | 👉 |
| ToF-PID | 2 events | 👉 |
| Global Detector & Integration | 3 events | 👉 |
| Simulation, Production & QA | 87 events | 👉 |
| Inclusive Physics | 4 events | 👉 |
| Semi-Inclusive Physics | 2 events | 👉 |
| Exclusive, Diffraction, & Tagging Physics | empty | 👉 |
| Jets & Heavy Flavor | 12 events | 👉 |
| BSM & Precision EW | 1 event | 👉 |
| WG Convener Meetings | 2 events | 👉 |

The right sidebar also includes a 'Managers' section with the following list:

- Bernd Surrow
- E. C. Aschenauer
- John Lajoie
- Or Hen
- Rolf Ent
- Silvia Dalla Torre
- Tanja Horn

Below the managers is a 'Materials' section with the text: 'There are no materials yet.'

Reminder: Organizational Details (INDICO)

- Calendar: Click on <https://indico.bnl.gov/category/402/>, then go to View (Top Right)

Home Create event My profile

Home » Departments » Physics » Experiments » EIC » EIC Project Detector

EIC Project Detector Create event Navigate Parent category

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|---|-----------|---|---|
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Managers

- Bernd Surrow
- E. C. Aschenauer
- John Lajoie
- Or Hen
- Rolf Ent
- Silvia Dalla Torre
- Tanja Horn

Materials

There are no materials yet.

Upcoming event
Today's events
Week's events
Calendar
Category statistics

Link to INDICO Page for today's general meeting

Reminder: Organizational Details (INDICO)

- Calendar: Click on <https://indico.bnl.gov/category/402/>, then go to View (Top Right)

Home Create event My profile

Home » Departments » Physics » Experiments » EIC » EIC Project Detector

EIC Project Detector Create event Navigate Parent category

- Upcoming event
- Today's events
- Week's events
- Calendar**
- Category statistics

Managers

- Bernd Surrow
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Materials

There are no materials yet.

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Link to INDICO Page for today's general meeting



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Home Create event ▾ My profile

Home » Departments » Physics » Experiments » EIC » EIC Project Detector

[← Back to category page](#) EIC Project Detector

May 2022 0 long-lasting events not shown Today < >

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| Mon | Tue | Wed | Thu | Fri | Sat | Sun |
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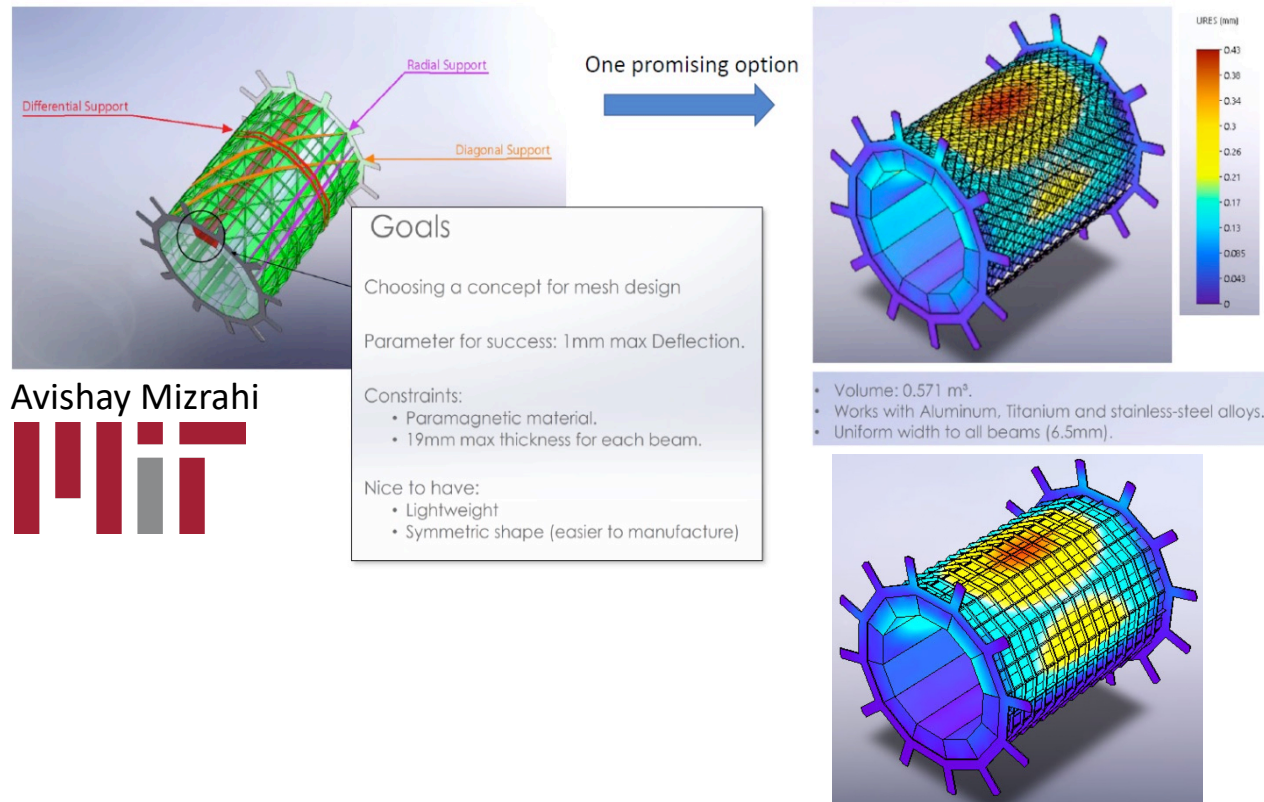
Please schedule your kick-off meetings in case you have not done so far!

Example of Community/Project Engagement

□ Mechanical Design (1)

Community engagement with the project (example)

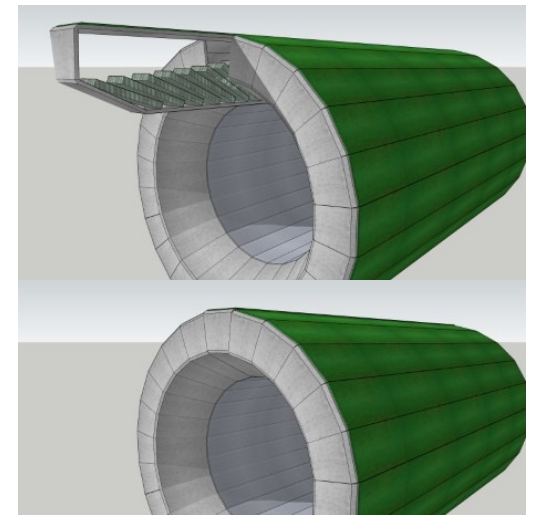
Barrel EMCal Mechanical Support staging design:



Avishay Mizrahi
MIT

+ First thoughts on Maintenance:

- Step One – Move 1 cm radially outward
- Step Two – Slide segment out for maintenance

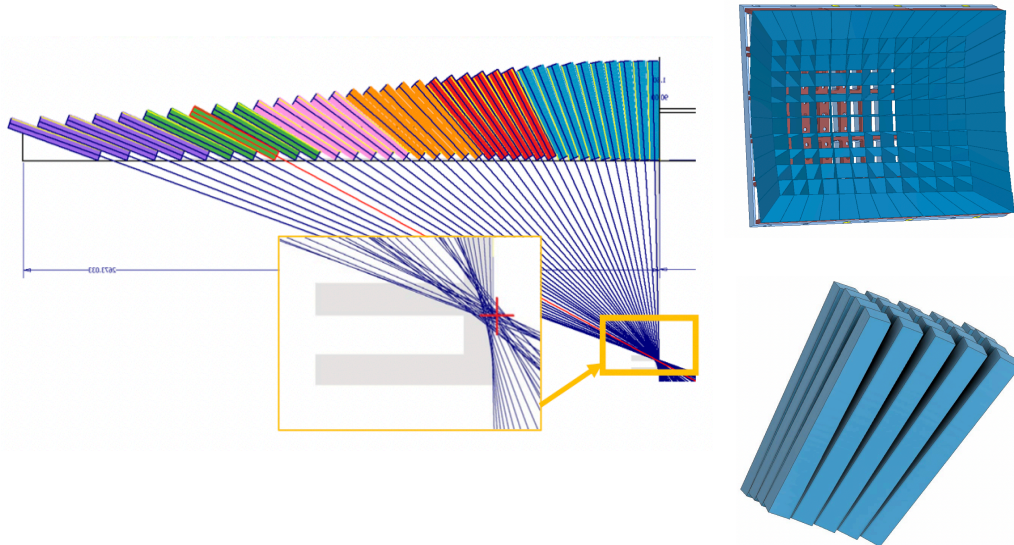
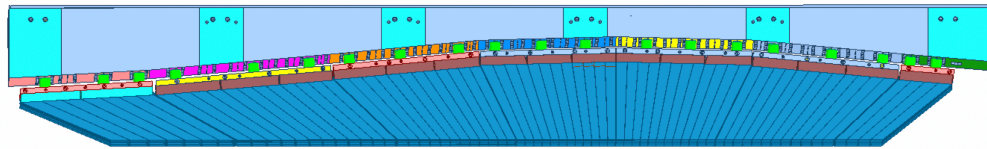


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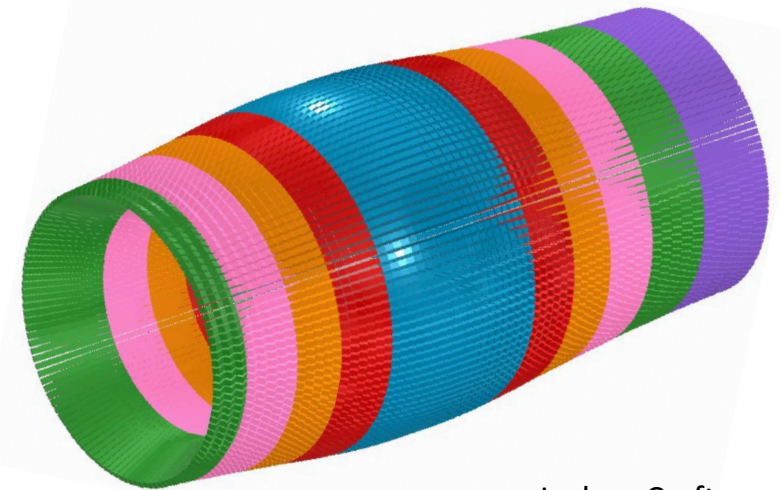
□ Mechanical Design (2)

Community engagement with the project (example)

Barrel EMCal: Projective layout design



Optimized projective geometry to use
6 families of blocks (PANDA use 11)



Joshua Crafts

THE CATHOLIC
UNIVERSITY
OF AMERICA

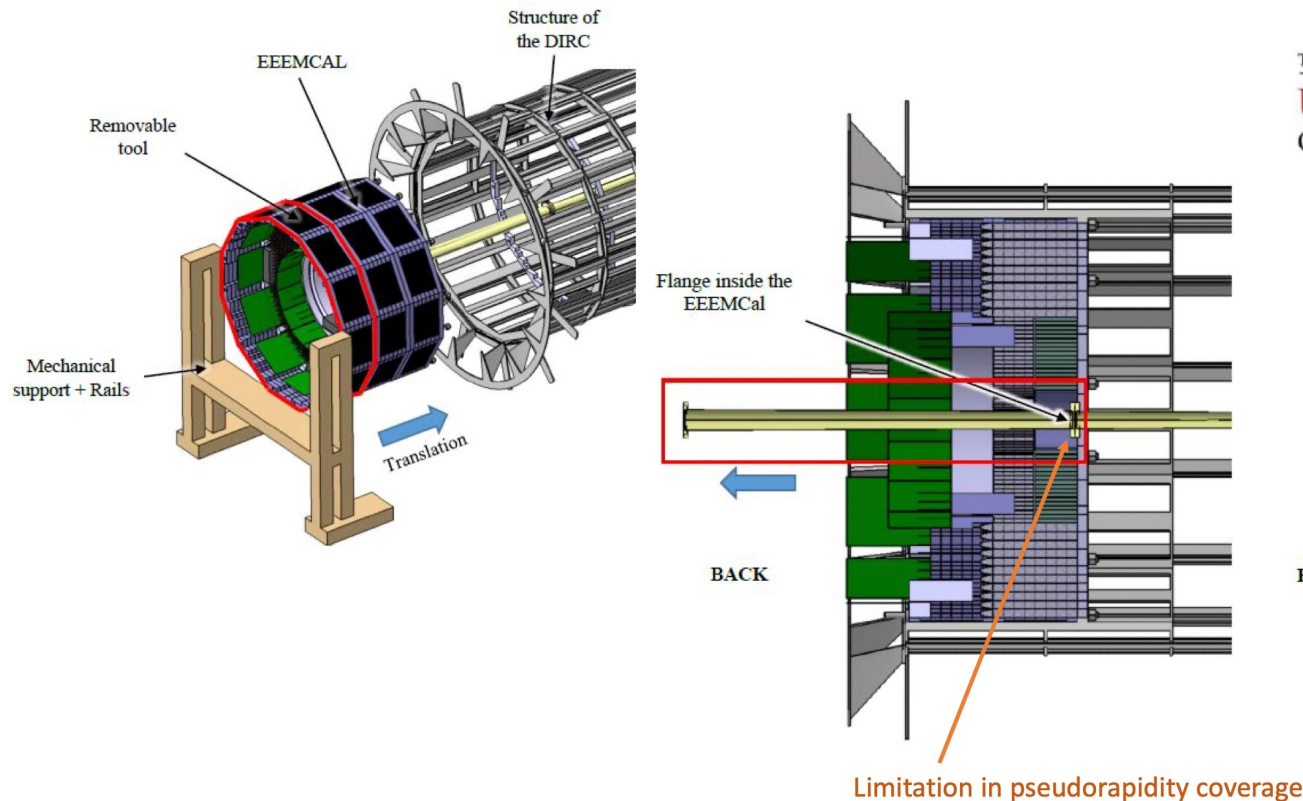


Example of Community/Project Engagement

□ Mechanical Design (3)

Community engagement with the project (example)

Backward EMCal Assembly:



EEEMCAL Consortium

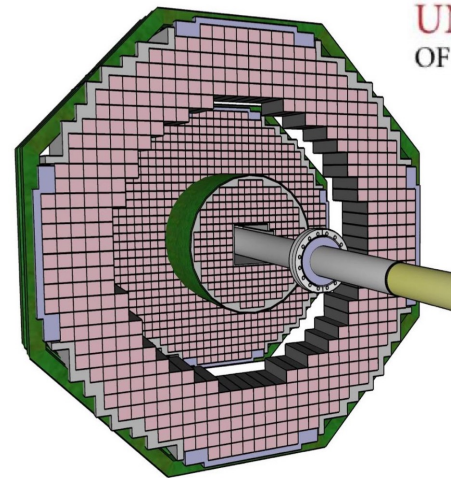
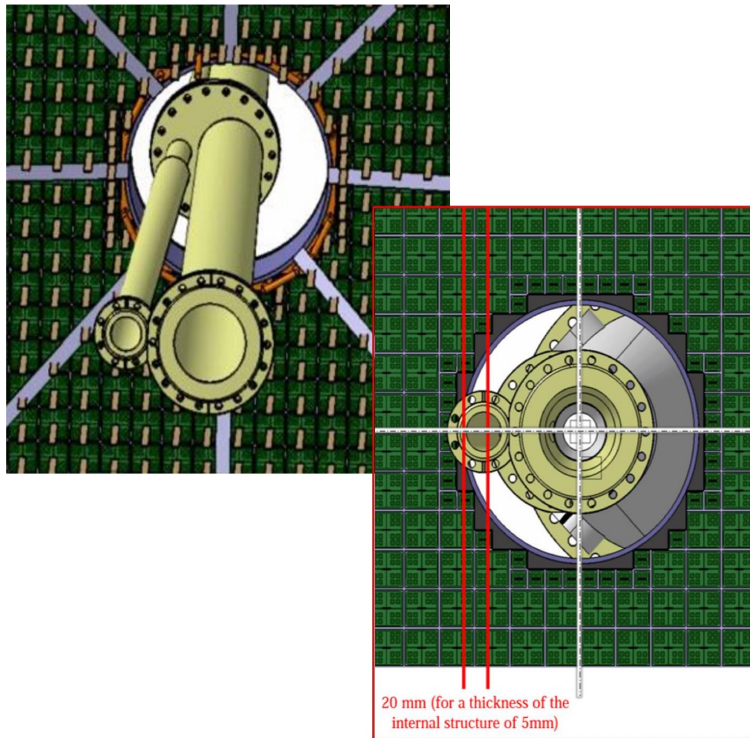


Example of Community/Project Engagement

□ Mechanical Design (4)

Community engagement with the project (example)

Backward EMCAL enhancing pseudorapidity coverage:



Other option being explored:
addition of an inner calorimeter
attached to the beampipe

EEEMCa Consortium

THE CATHOLIC
UNIVERSITY
OF AMERICA

ijc Lab
Irène Joliot-Curie
Laboratoire de Physique
des 2 Infinis

JMU
JAMES MADISON
UNIVERSITY

IA A. ALIKHANYAN
National Laboratory



CHARLES
UNIVERSITY

FIU
FLORIDA
INTERNATIONAL
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Highlights Discussion with project: May 10, 2022

- In-kind evaluations of ATHENA and ECCE proposals completed. Interim report submitted to project!
- Timeline for charges to WGs:
 - The goal emphasized by the EIC project is to confirm the reference “advanced conceptual design” by the July EICUG meeting (End of July!)
 - There may be still open issues on important items, but the goal should be to converge by the end of July and raise early on if issues come up and/or more time is needed!
- Simulations: See the presentation by Sylvester Joosten!
- **General Detector 1 meetings**: Bi-weekly on a rotating assignment among Tanja, Silvia, John, Bernd, and Or!

Vision of Collaboration Forming Process

- Vision for a collaboration forming process:
 - Institutional Survey: Next slide!
 - Formation of a prelim. IB
 - Nomination & Formation of Bylaws/Charter Committee
 - Formulation & Adoption of Bylaws/Charter
 - Nomination & Election Process of Detector 1 Leadership
 - Finalization of IB and Election of IB Chair
 - Election of Spokesperson(s)

EIC Detector 1 Institutional Survey Form

This survey is geared towards collecting institutional information for planning purposes of the EIC Detector 1 effort. The form should be completed by each institution only once. Please consult with your institutional representative to collect the requested information. The survey will collect institutional information for both existing and new institutions. The survey is separated into several sections:

(A) General Institutional Information (Institutional representative, Name, Address, Size of research group by category, Consortia Membership)

(B) Consortia Information (Size of the research group involved in consortia)

(C) Physics and Sub-system Interest

(D) Resources and Infrastructure (Lab/Computing/Machine shop)

(E) Comment and Feedback

Note: Labor estimates should be estimated in units of Full-Time Employees (FTE) per year for the following labor categories, assuming the guidelines below for yearly fractional FTE efforts:

- # Faculty: Max. 0.25
- # Scientific Staff / Research Professor: Max. 0.5
- # Postdocs: 1.0
- # Graduate students: Max. 0.75
- # Undergraduate students: Max. 0.2
- # Mechanical Engineers: Max. 0.8
- # Electrical Engineers: Max. 0.8
- # Mechanical Technicians/Designers: Max. 0.8
- # Electrical Technicians/Designers: Max. 0.8

Example: If your institution has two faculty members and you assume a yearly fractional FTE effort of 0.2 each, then 0.4 should be entered for # Faculty at the appropriate sections of this survey.

A link to all questions is provided here (https://www.dropbox.com/s/vt9yfhv71ysqg0/EIC_Detector1_Institutional_SurveyForm.pdf?dl=0).

This should help to collect the information first before conducting the actual survey. Please complete the survey by the deadline indicated below. Do not hesitate to contact Bernd Surrow (surrow@temple.edu) with any technical questions.

Deadline: Monday, May 30, 11:59PM (EDT)

tue59914@temple.edu [Switch account](#)

* Required

Email *

surrow@temple.edu

Next


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Institutional Survey

□ Purpose of Institutional Survey:

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(E) **Comment and Feedback**

□ Link to **draft Institutional Survey**: <https://forms.gle/kjZLWcBxhmbYKiqz9>

□ Please provide comments by Monday, May 16, 11:59PM (EDT): surrow@temple.edu



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For several groups, this survey will be a confirmation of their previous engagement!

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Upcoming Meetings / Conferences

□ Overview

- *AGS/RHIC User's meeting: June 7-10, 2022*
<https://www.bnl.gov/rhicagsaum/index.php>
- *JLab Users meeting: June 13-15, 2022*
<https://www.jlab.org/jluo2022>
- *EICUG Summer meeting: July 24-30, 2022*
- *ISMD conference: July 31 - August 5, 2022*
<https://indico.cern.ch/event/1015549/>
- *Gordon conference: August 7 - 12, 2022*
<https://www.grc.org/photonuclear-reactions-conference/2022/>
- *CIPANP: August 29 - September 4, 2022*
<https://agenda.hep.wisc.edu/event/1644/>
- *INPC 2022: September 11-16, 2022*
<https://inpc2022.org>




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We strongly encourage the preparation and submission of abstracts on behalf of the EIC Detector 1 effort!

This process requires coordination by the WG conveners for specific sub-detector/physics topics and the SG for abstracts about the global detector design!



Summary and Next Steps

- **INDICO Detector-1 area:** <https://indico.bnl.gov/category/402/>
- **WIKI Detector-1 page:** https://wiki.bnl.gov/eic-project-detector/index.php/Main_Page
- The **institutional survey** will start next week: Deadline (2 weeks) Mon., May 30, 11:59 PM (EDT)
- The **collaboration formation process** is moving ahead!
- **Summer EICUG meeting** in preparation / Hybrid at Stony Brook University: July 24-30
 - Early-Career Workshop / Junior Meeting: Sunday, July 24 - Monday, July 25
 - Main Meeting: Tuesday, July 26 - Saturday, July 30 with a block of 2 days reserved for Detector-1 meetings!
 - BNL visit: Friday afternoon, July 29
 - Dinner: Friday evening, July 29
 - Details will be announced and circulated shortly by Renee Fatemi (EICUG Chair!)