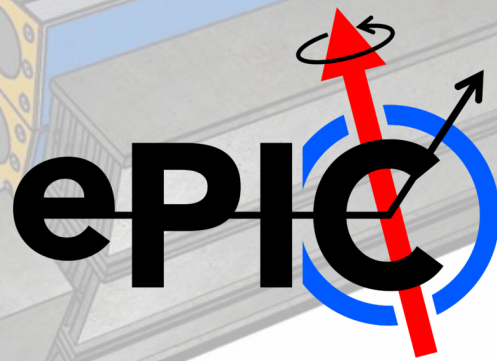


A detailed 3D cutaway diagram of the ePIC detector. The detector is cylindrical and contains a central beam pipe surrounded by a series of concentric layers of detector components, including silicon trackers and calorimeters. The outermost layer is a blue segmented structure. The central beam pipe is surrounded by a green and yellow structure. The detector is mounted on a grey base.

Welcome aboard ePIC Collaboration Status

J. Lajoie, S. Dalla Torre

July 26, 2023



Welcome to Warsaw!



Electron-Ion Collider User Group Meeting

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

• Early Career

EICUG 2023

International Advisory Committee:

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

Local Organising Committee:

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

JULY 23 - 31 2023

Warsaw

Thanks to our hosts for this wonderful venue and support!

7/26/2023

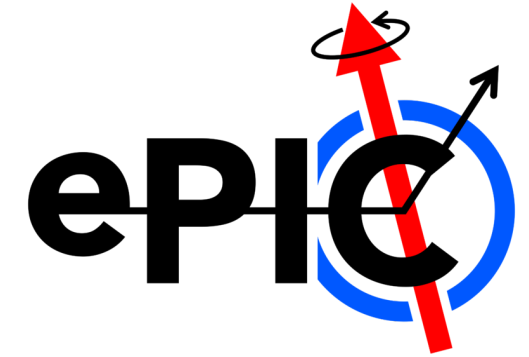
ePIC Warsaw Collaboration Meeting



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



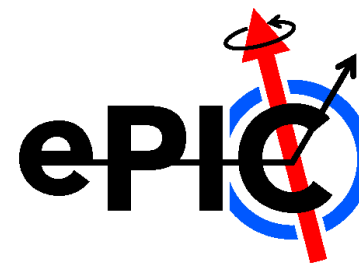
Lots of Progress in the Past Year...



- EICUG/Detector-1 Meeting (July 26-28, 2022)
- Adoption of Collaboration Charter (Dec. 15, 2022)
- Project Calorimetry Review (Dec. 6-7, 2022)
- Second ePIC Collaboration Meeting @ JLab (Jan. 9-11, 2023)
- Election of ePIC leadership (Feb. 14, 2023), approval of management plan and coordinators (April 2, 2023), approval of Working Groups (May 1, 2023) and formation of Detector Subsystem Collaborations (Mar.-Apr., 2023)
- EIC-Asia Workshop (Mar. 16-18, 2023)
- Final Technology Selections:
 - Barrel ECal (Mar. 13-14, 2023) and Backwards RICH (Mar. 20-21, 2023) reviews
 - Recommendations presented to Collaboration (Apr. 14/21, 2023)
 - CC vote to approve initiation of change control process for Imaging EMCAL and pFRICH (May 1, 2023)
- Start of monthly simulation campaigns (May 2023)
- Election of Early-Career Members to CC (June 26, 2023)
- CERN/ALICE ITS3 Meeting (April)
- Project PID Review (July 5-6, 2023)
- EIC/ePIC Presentations at LRP Resolution Meeting (Jul. 10, 2023)
- ... *plus everything I forgot...*

See talk by Silvia
(Tuesday EICUG
Mtg.)

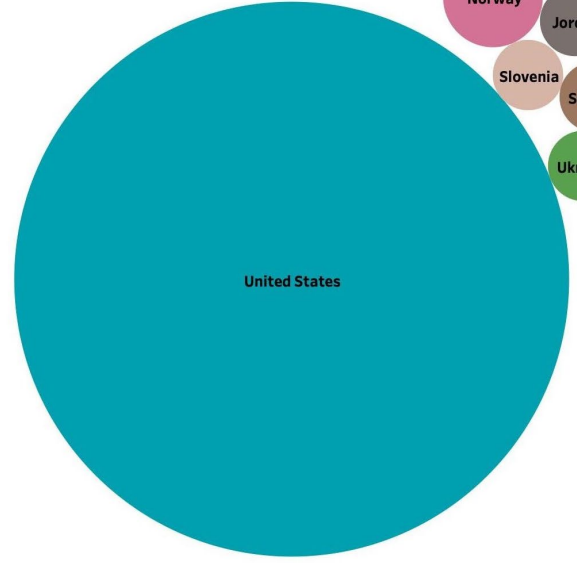
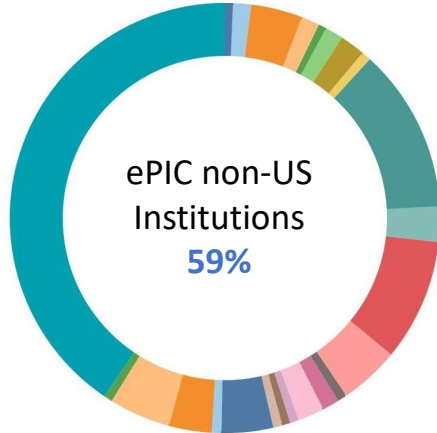
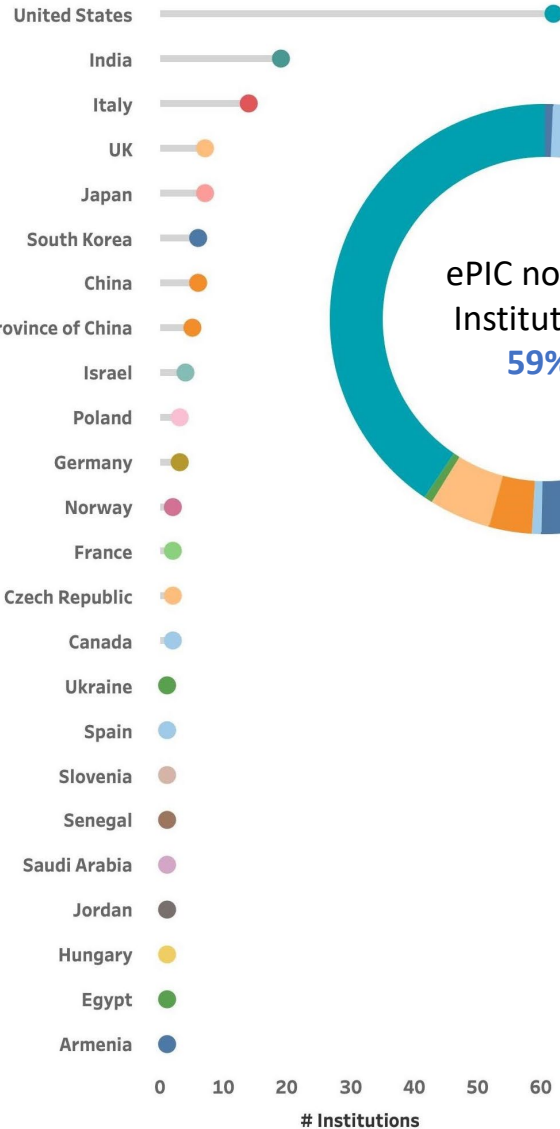
The ePIC Collaboration



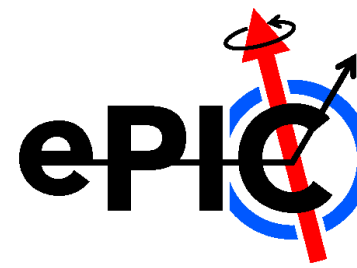
171 institutions
24 countries

500+ participants

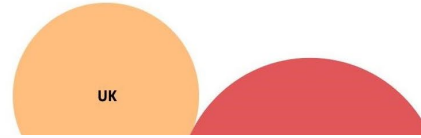
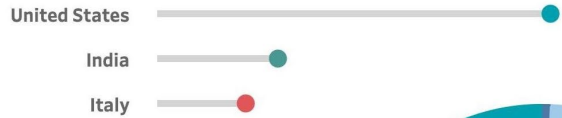
*A truly global pursuit for
a new experiment at the
EIC!*



The ePIC Collaboration



171 institutions
24 countries



11 new institutions joining ePIC!

- Gangneung-Wonju National University
- Hanyang University
- Karlsruhe (ADL)
- NASA Goddard
- Oklahoma State
- Sungkyunkwan University



- The Ohio State



- University of Liverpool



- University of Seoul



- University of Tokyo (CNS)

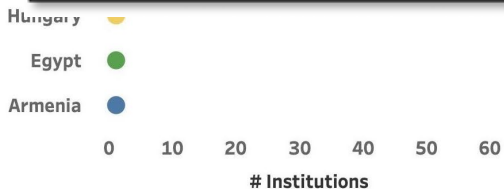


- Yonsei University



for
the

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Taiwan, Province of
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Saudi



7/26/2023

ePIC Warsaw Collaboration Meeting



This is Not a Status Talk

- Silvia gave a complete overview of ePIC status in the EICUG meeting:
 - <https://indico.cern.ch/event/1238718/timetable/#20230725.detailed>
- Some additional highlights of ongoing activity
- Plans for the future:
 - The upcoming CD-3A review
 - Preparation for the TDR and the CD-2/3 review
 - Building the ePIC Collaboration structure and culture
- And a few surprises...

Mattermost Migration

The screenshot shows the Mattermost web interface for the 'Town Square' channel. The left sidebar lists various channels, including 'ASiCs', 'background-embedding', 'cal-clustering', 'comp-calorimetry', 'compsw', 'daq', 'det-cal-barrel-imaging', 'det-calorimetry', 'det-cerenkov-pid', 'det-far-backward', 'det-far-forward', 'det-tof-pid', 'det-tracking', 'digitization-noise', 'dirc', 'DIS2023', 'dRICH', 'eA Study Group', 'eicrecon', 'event-display', 'firehose', and 'Heipuesk'. The main chat area shows a message from Wouter Deconinck (he/him) at 3:04 PM with the title 'Mattermost Migration Underway' and a warning icon. The message text reads: 'We wanted to remind you about the ongoing migration to the new Mattermost instance for ePIC, as previously communicated. In case you missed the de reference. The migration process has started, and we are currently transferring all existing posts and messages to the new Mattermost instance. While this transition existing Mattermost instance, but any new posts or messages made will not be transferred to the new platform. Upon completion of the migration, which may take up to 24 hours but is likely to be finished earlier, we will share the link to the new Mattermost instance period are greatly appreciated.' Below this is a 'Welcome to the new Mattermost Instance for ePIC' message with a green circle icon. The interface also shows system messages about users joining the team and a text input field at the bottom for writing to the channel.

Dear all:

We are writing to inform you about an upcoming change regarding our Mattermost online communication service.

Mattermost is actively used in ePIC. Currently, we have 311 registered users, with an average of 82 active users daily. Over the past year, we have made 78,389 posts on the platform.

Due to a change in the subscription model, we are required to switch our Mattermost service provider to prevent a significant increase in costs, which could be more than tenfold. We have thoroughly tested the transition process to ensure a seamless migration of all our posts and direct messages without any data loss.

The transition to the new Mattermost provider will begin on **Monday, July 24, at 4:00 p.m. (EDT)**. During this process, the existing Mattermost instance will be accessible for urgent communication, but any posts and messages made after the migration starts will not be transferred to the new service. We regret any inconvenience caused by the short-term notice, we learned about this change only recently.

Once the migration is complete, we will share the link to the new Mattermost instance (and not earlier to avoid complications during the migration). Please allow up to 24 hours for the process to finish, although we expect it to be completed and validated earlier.

As part of the transition, you will need to reset your password for security reasons. After that, your login credentials will remain unchanged, and all your existing posts and direct messages will be available on the new platform.

To summarize:

- **Migration Start Date:** Monday, July 24, at 4:00 p.m. (EDT).
- **Existing Mattermost Instance Availability:** Accessible for urgent communication until migration is complete.
- **Migration Completion and New Instance Link Sharing:** Within 24 hours of migration start time.
- **Password Reset:** Essential for secure login on new Mattermost instance.

Thank you for your cooperation in this transition. Should you have any questions or concerns, please don't hesitate to reach out.

Best regards,

Markus, Sylvester, Torre, and Wouter.

<https://chat.epic-eic.org>

ePIC Committee Formation

Voting now underway for DEI,
Membership and Conference and Talks
Committee Chairs/Vice-Chairs!

Next up will be the Executive Board

See talk by Ernst
and CC Meeting
(Thursday)

Dear ePIC collaboration,

This is to inform you that the ePIC Election Committee will soon hold elections for the Chair and Vice-Chair of the following ePIC Standing Committees: DEI, Membership, Talks and Conferences.

We will have ranked-choice voting with separate races for the Chair and Vice-Chair of each committee. In most cases the slate of candidates will be the same for both positions, except where a candidate has asked to be included in only one of the races. Once the Chair and Vice-Chair are in place, they will suggest names to fill out the committee; these names will need to be approved by the Collaboration Council.

The slates for the elections are given (along with candidate statements) along with the

DEI committee:

- Christine Natrass, UTK (Vice-chair)
- Jerome Laurent, BNL
- Megan Connors, GSU
- Narbe Kalantarians, VUU
- Vicki Greene, Vanderbilt

Membership committee:

- Daniel Brandenburg, OSU
- Doug Higinbotham, JLab
- Peter Steinberg, BNL
- Pietro Antonioli, INFN-Bologna

Conferences and talks:

- Brian Page, BNL
- Maria Zurek, ANL
- Nick Zachariou, U. York
- Xuan Li, LANL

On behalf of the ePIC Election Committee:
John Arrington (Chair), Helen Cairns

Dear John,

We are happy to open the 2023 ePIC election for the inaugural Chair-line of our DEI, Membership, and Conferences and Talks committee.

Candidate statements are available [here](#).

As stated in the ePIC charter, we follow ranked-choice voting. We therefore ask that you consult with the members of your institutions whom you represent to decide on your vote. Then, click on the link below and rank the candidates for each position in order of preference from most to least preferred.

Please be sure to follow the survey in full and hit submit at the end. Your vote has been recorded when you see a summary page that also reviews your votes.

The survey must be completed by August 7th, 2023.

Best,

the ePIC Election Committee,








John Arrington (Chair), Helen Caines, Domenico Elia, and Or Hen

7/26/2023

Technical & Integration Council

See talk by Klaus
(Wednesday)

- Recent TIC meetings have had specific concentrations
- Currently focused on examining the suitability of the H2GCROC/EICROC for multiple ePIC detector systems
 - *Requirements* from detectors
 - *Specifications* from ASIC designers
 - *Communication* w/DAQ and Electronics
- Working to make the TIC less of an information exchange and more of an advisory body
 - Closed meetings w/CC Conveners and Project Representative after TIC

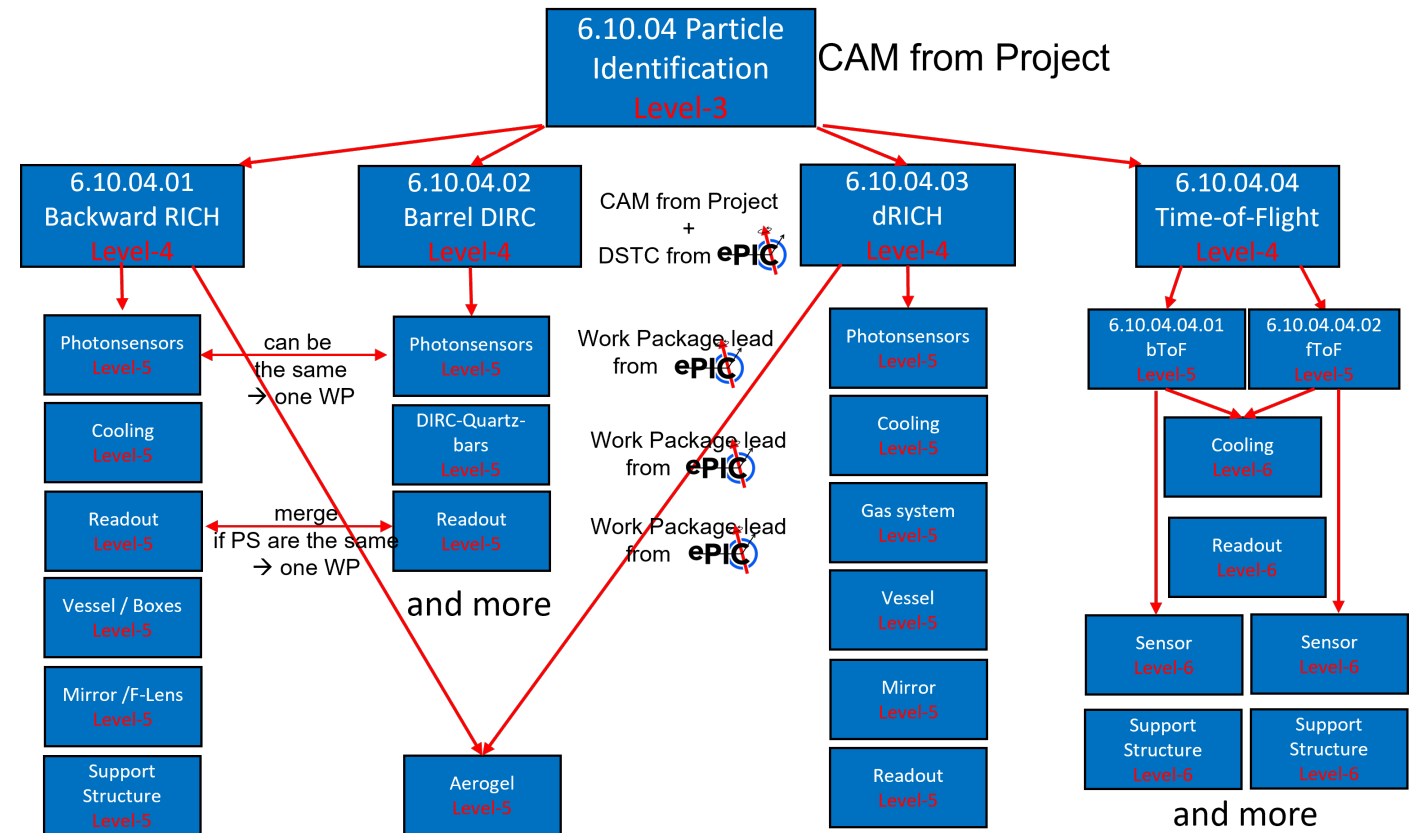
August 2023		
	Aug 07	TIC meeting - ASIC Discussion
July 2023		
	Jul 17	TIC meeting - Focus EICROC
	Jul 10	TIC meeting - Focus HGCROC
June 2023		
	Jun 26	TIC meeting - Focus FFWD/FBKWD
	Jun 19	TIC meeting - Focus Barrel Calorimeters
	Jun 12	TIC meeting - Focus DAQ
	Jun 05	TIC meeting - Focus Tracking

Collaboration/Project Integration

- DSC's integrated into project plan through definition of work packages

- Spokesperson's office and TC have received first-pass input from DSL's/DSTC's and passed this on to the Project

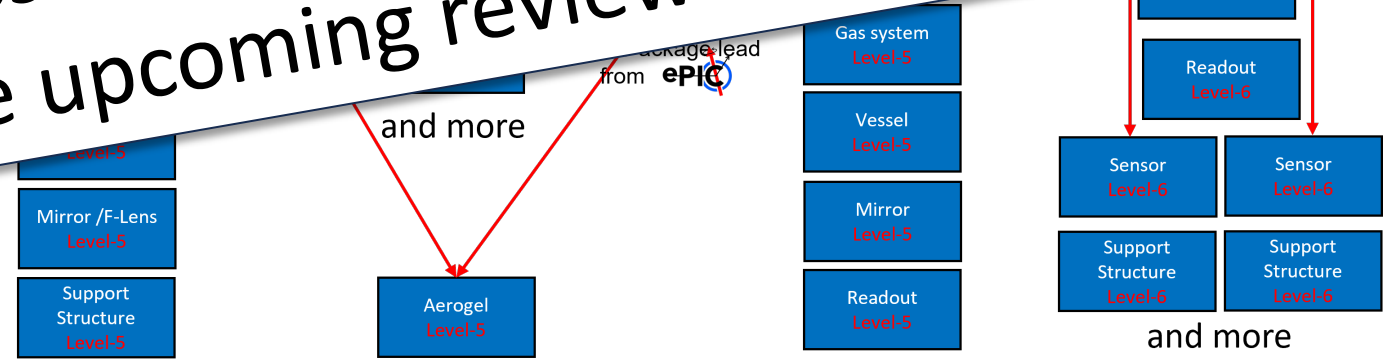
- CAMs use this information to inform P6, communicate directly with DSL/DSTC's



Collaboration/Project Integration

- DSC's integrated into project plan through definition of work packages
- Spokesperson's ...
have received ...
from DSL's/
this on to the ...
- CAMs use the ...
information to ...
communicate directly with
DSL/DSTC's

Very important to establish good communication between the Project CAMs and the Collaboration DSL's/DSTC's! This will be essential in order to prepare for the upcoming reviews!



Technical Coordinator



- Klaus Dehmelt is stepping down to accept a position at Jefferson Lab
- We thank Klaus for his efforts and wish him the best!
- The Spokesperson's Office has been working hard to identify a new Technical Coordinator:
 - Must not cannibalize existing Collaboration or Project efforts
 - Lots of excellent candidates ... but excellent candidates are people who already have many commitments!
 - No announcement at this meeting, but we hope to make a nomination shortly afterwards
- During the interim, Silvia Dalla Torre will take over organizing TIC meetings and managing the meetings.

Web Presence Group

- The Spokesperson's office and CC leadership have formed an “ePIC web presence group”
- Goal is to establish a very basic presence for ePIC on the web
 - Technical support: Implementation of the technical solutions and interface with the host labs, in particular with BNL (**Maxim Potekhin**)
 - Website design: The overall structure and navigation within the website and integration with external resources (**Thomas Ullrich**)
 - Document management: An initial solution to archive talks, images, technical notes, etc. in a way that they can be easily accessed by the collaboration (**Peter Steinberg**)
 - User-centered design: Ensure that web resources are properly organized and can be navigated in a way that is useful and straightforward, both to existing and new collaborators (**Markus Diefenthaler**)
- This will provide some basic functionality to get us started, allow linking from BNL/JLab EIC resources
 - A request for support has already been made to the ECSJI, contacts made with BNL support personnel
- Longer term plan is to turn longer term development over to a collaboration committee.

ePIC Streaming Computing Model

See talk by
Markus
(Thursday)

- An update on the computing model requested at the next RRB
 - The design of the computing model is the responsibility of ePIC and its international partners, in concurrence with the host labs
- The ePIC Streaming Computing WG with the SCC team will coordinate the discussion to develop the computing model
 - Streaming Computing WG kickoff Tuesday, July 11th:
 - <https://indico.bnl.gov/event/19974/>
 - Meetings to continue throughout the fall
- Working with EIC Computing and Software Joint Institute (ECSJI)
 - Amber Boehnlein (JLab) and Eric Lancon (BNL), co-directors
 - Emphasis on a partnership with ECSJI and ePIC
 - Starting regular meetings w/ePIC leadership
 - Planning underway for a review of computing model prior to RRB in October
 - Draft charge under discussion

Streaming Computing Model WG

The screenshot shows a calendar event titled "ePIC Streaming Computing Model WG Meeting". The event is scheduled for Tuesday, July 18, 2023, from 9:00 AM to 10:40 AM US/Eastern. The organizers listed are Jeff Landgraf (Brookhaven National Laboratory), Jin Huang (Brookhaven National Lab), and Marco Battaglieri (Jefferson Lab). The description states that Zoom will be used for the remote meeting and provides the following details:

- <https://jlab-org.zoomgov.com/j/1614875218?pwd=RFRRPcGINM3Ba50pQaDhxS3JURkdJZz09>
- Meeting ID: 1614875218
- Password: 925723

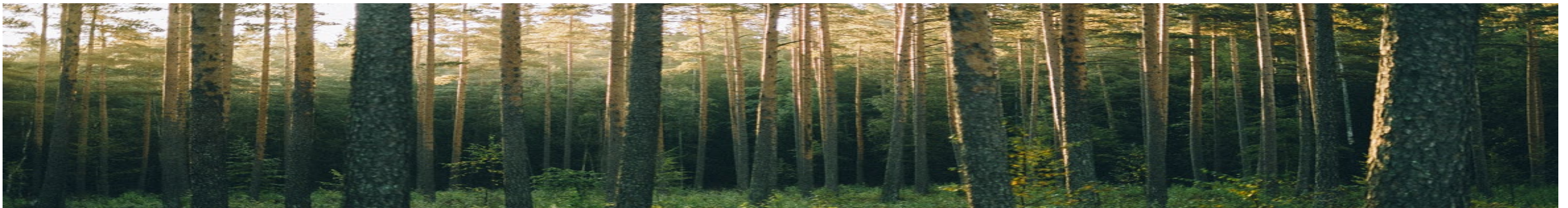
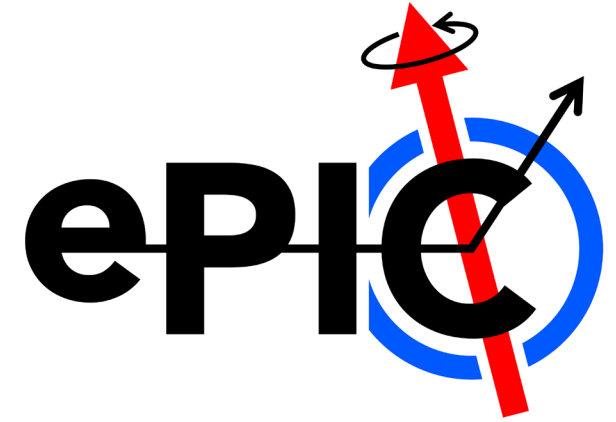
There is a "Live Notes" link below the Zoom information. The event agenda includes:

- 9:00 AM → 9:10 AM Kick-Off Meeting Summary**
 - 9:00 AM Key Points and Action Items from July 11** (5m) - Speaker: Marco Battaglieri (Jefferson Lab). Includes a slide titled "EIC-SRO-18.July203...".
 - 9:05 AM Discussion** (5m)
- 9:10 AM → 10:40 AM Streaming Computing Model**
 - 9:10 AM International Perspective** (15m) - Speaker: Andrea Bressan (University of Trieste and INFN). Includes a slide titled "INFN_Computing_In...".
 - 9:25 AM Discussion** (15m)
 - 9:40 AM Computing Models for the EIC** (30m) - Speaker: David Lawrence (Jefferson Lab). Includes a slide titled "2023.07.18.ePIC_C..." and a "Google Slides" link.
 - 10:10 AM Discussion** (30m)

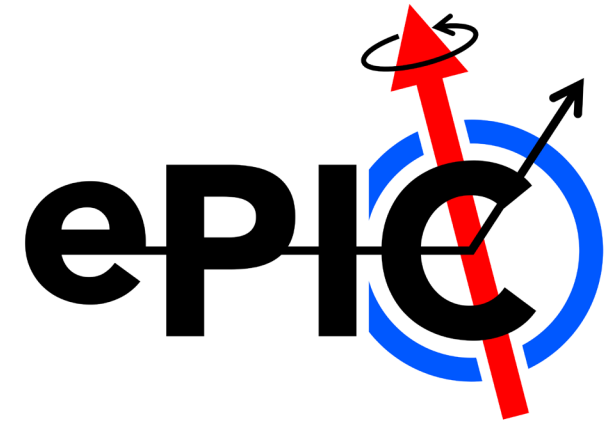
- Discuss unique requirements of computing models that feature streaming.
- Develop the ePIC Streaming Computing Model and prepare for October review
- Report to EIC RRB in December
- Please participate!

The ePIC Collaboration

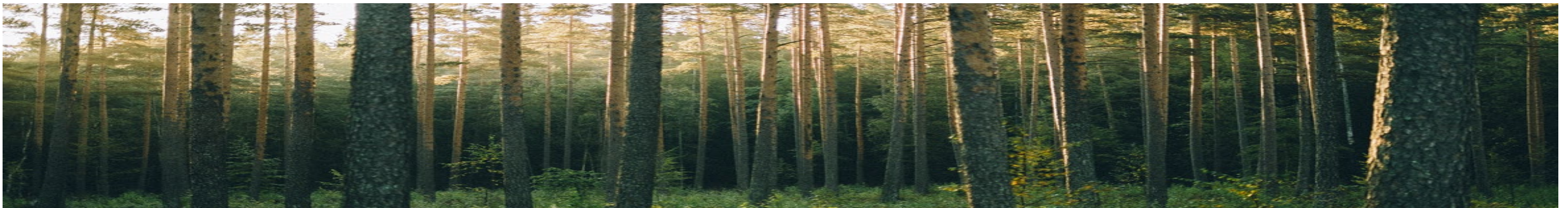
- Who do we exist in the first place?



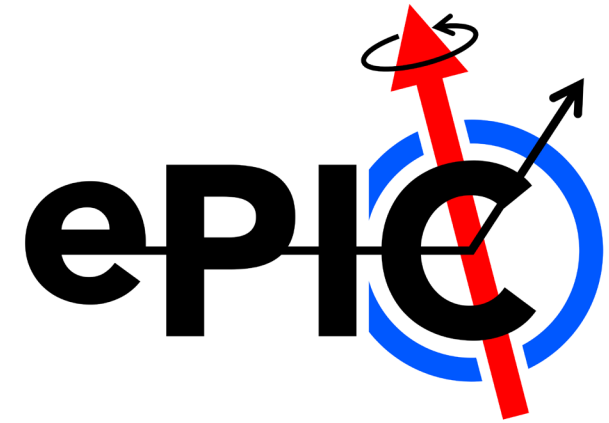
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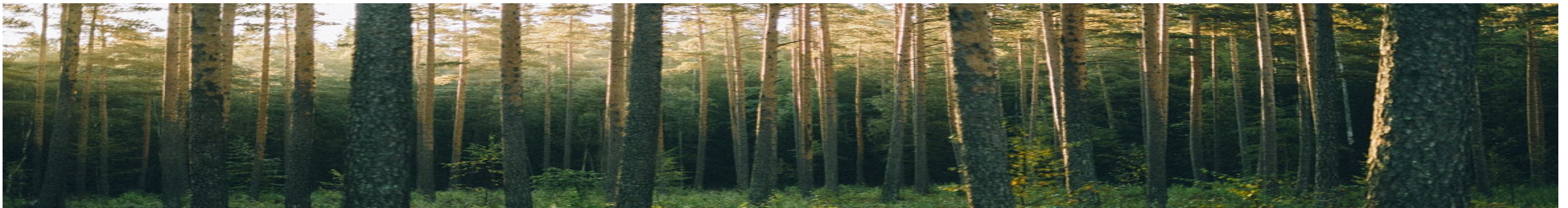
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The ePIC Collaboration



- Who do we exist in the first place?
- The ePIC Collaboration was formed to design, build, and commission the first EIC detector, with the ultimate goal of realizing the full EIC science program.
- The EIC is an undertaking of unprecedented size and scope in Nuclear Physics – we are all part of something unique!



Upcoming in your EIC Detector Arena

- July 5 + 6: Particle Identification Detectors Interim Design Review – Beni's talk
- July 21: Final Design Review of the PbWO4 Crystals for the ePIC Backward EM Calorimeter (Long-Lead Procurement)
 - Reviewers: Eugene Chudakov (JLab), Dipangkar Dutta (MSU)
- August (TBD): Likely one-two further Final Design Reviews for Long-Lead Procurement candidate items
- August 28 + August 31: DAC Review of Detector R&D – had to split in two separate days to make it work with DAC
 - FY23 progress
 - FY24 continuation requests
- August 29 + 30: DOE CD-3A Design Review by DAC
- October 5 + 6: Final Design Review of Magnet (MARCO)
- October 10-12: DOE CD-3A Director's Review
- TBD : DOE CD-3A Independent Cost Review
- November 14-16: DOE CD-3A Independent Project Review
- December 7 + 8: 2nd Resource Review Board meeting @ GWU
- December (TBD): Preliminary Design Review of Far-Forward/Far-Backward Detectors

Slide from Elke and Rolf

See talk by
Elke/Rolf
(Wednesday)

Coming very soon after this meeting!

ePIC Computing Model Review
October 19-20



Engagement within ePIC

- It's very clear that as a collaboration we're not engaging our membership effectively

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 - **Ouch!** – but what does this mean?
 - Physicists pour their soul into their work, so it's not "fun" in the classic sense
 - I suspect it means that people are finding ePIC too large, too bureaucratic, and don't know how to find their place in the collaboration

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- We need to make it easier for people to engage with the parts of ePIC that they are interested in:
 - "ePIC" to most people should be the small group of people in a few WG's
 - People need to feel welcome and encouraged in these groups, and find a set of colleagues they can easily engage with

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- What follows are some ideas on how we might improve engagement, presented for discussion and feedback

Workfests

- A “workfest” is a gathering of a small subset of people for a short, intense period of time to address specific issues.
 - Emphasis is on making progress, not information exchange
 - Several examples in 2023:
 - ORNL Clustering Workshop (April 11-14)
 - Imaging Barrel EMCaI Workshop (June 12-16)
 - hpDIRC Annual Meeting (JLab, May 31-June 4)

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 - Several examples in 2023:
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 - hpDIRC Annual Meeting (JLab, May 31-June 4)
- Guidelines for “workfests”:
 - They must be announced well in advance to allow collaborators to plan travel
 - Keep our international collaborators in mind from the beginning!
 - We are an international collaboration, workfests can take place in any country!
 - When necessary/appropriate they should allow virtual participation
 - They should be focused with a clear set of goals
 - Expect to report a summary to the Collaboration

Structure of Future Collaboration Meetings

- We need to re-think how we structure collaboration meetings
- They could incorporate an “active component”:
 - Start with parallel workshops, lead to plenary sessions
 - Longer meetings as a consequence, 4-5 days
 - Given meetings could have a specific set of focus areas
 - MUST be international!



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 - Given meetings could have a specific set of focus areas
 - MUST be international!
- If this is successful, could even consider quarterly meetings?
 - Perhaps one yearly meeting that is more traditional?



Attracting New Groups to ePIC

- It has not escaped notice that only a fraction of the JLab and RHIC/LHC HI community have joined ePIC
 - EICUG claims 1300+ members, ePIC claims ~500

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 - Inertia (funding cycles, everyone is super busy, ...)
 - It's not comfortable to join a new, large collaboration
 - Different groups have different needs, concerns – no silver bullet!

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- Why?
 - Inertia (funding cycles, everyone is super busy, ...)
 - It's not comfortable to join a new, large collaboration
 - Different groups have different needs, concerns – no silver bullet!
- We need to continue a steady pace of outreach to the NP community
 - Talks at JULO and RHIC/AGS Users meetings, Conferences, etc.
 - Colloquia and seminars, and way to reach out and showcase ePIC!
 - Use the WG Meetings and Workfests as a tool to introduce new collaborators to a small-group, less intimidating ePIC – get them involved in something concrete!

Looking Forward to 2024

- 2024 will need to focus on the preparation of the TDR and achieving the 90% design completion required for CD-2/3
- This will be a *very busy* year!

Looking Forward to 2024

- 2024 will need to focus on the preparation of the TDR and achieving the 90% design completion required for CD-2/3
- This will be a *very busy* year!
- How do we organize ePIC to make progress towards these goals?
 - A DOE project flows from *requirements*
 - The TDR needs to show how the technical design meets the requirements
 - Combination of technical results, R&D, and simulations!
 - This will require the effort of the entire collaboration!
- Begin organizing the TDR effort through the fall of 2023, ramp up the effort with early 2024 collaboration meeting

Our Next Meeting

email sent 7/20

- Next ePIC Collaboration Meeting:
 - January 2024, 4-5 days
 - Discussing format that allows for parallel sessions
 - Soliciting institutions to identify a location!
 - Expect announcement at upcoming General Meeting
- This meeting will come at an opportune time:
 - We will have just come off completing the CD-3A whirlwind of reviews
 - Everyone will be refreshed from a holiday break
 - It will be time to refine our strategy for a TDR and preparations for the CD-2/3 review.

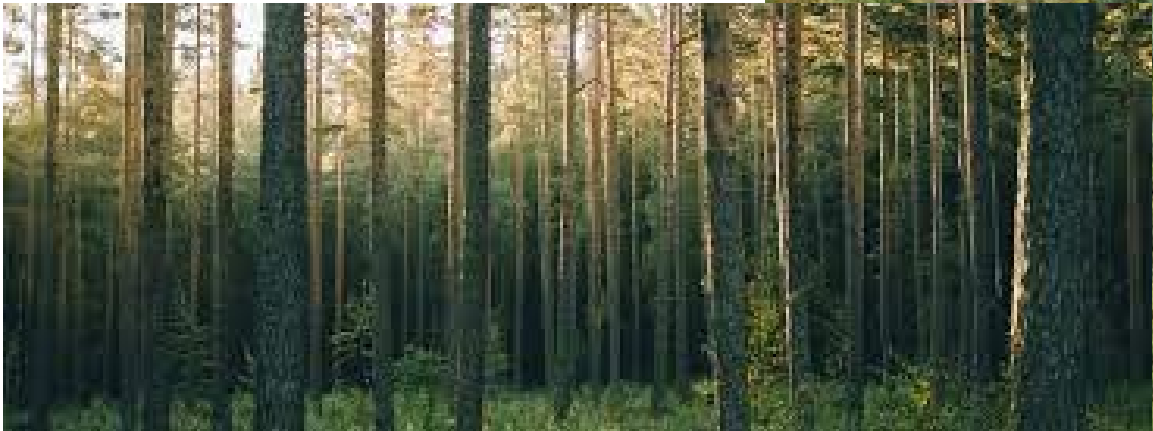
Dear ePIC Collaborators:

With the long-awaited Warsaw meeting finally upon us, it is time to begin planning the ***next*** ePIC Collaboration in-person meeting in January 2024. This meeting will come at an opportune time for the collaboration, as we will have completed the CD-3A process and will be gearing up for work on the TDR and CD-2/3 review preparations.

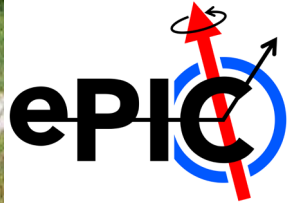
If your institution is interested in hosting the January 2024 ePIC Collaboration meeting, please reach out to us off-list with some details before the end of the day, August 4th. The meeting venue should be able to accommodate ~100-150 people, and we would anticipate a mostly in-person meeting with a hybrid component.

Regards,
John, Silvia, Ernst, Bernd

The Forest for the Trees...



There is a path through the forest!

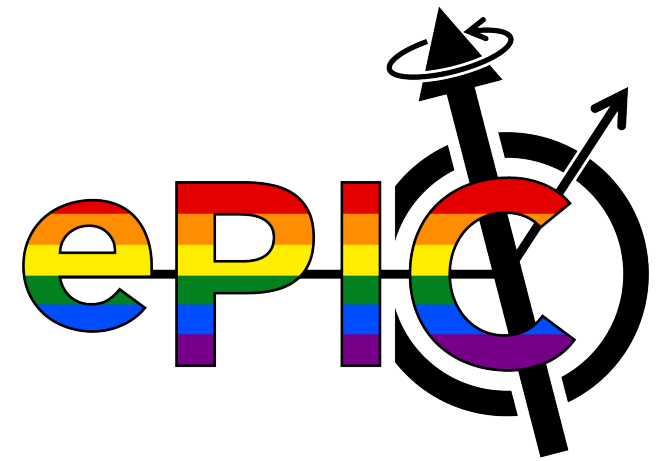
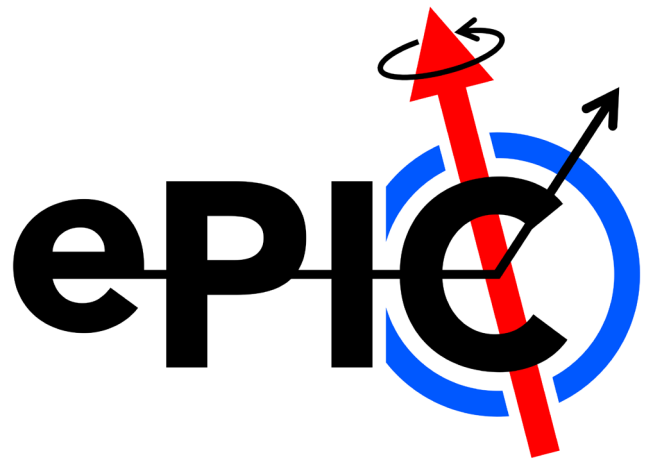


Spokesperson Change of Address

- In November I will be moving to a new position in the Heavy Ion group at ORNL
- This position will allow me to continue to keep my primary focus on ePIC and my duties as spokesperson
 - This was a key consideration in making this move.
 - This move will not change my commitment to ePIC, nor will it dramatically change how I discharge my duties.
- I am very excited about the opportunity to work more closely with the ORNL group!



And finally for something important....



many thanks to Oskar Hartbrich and Peter Jones!

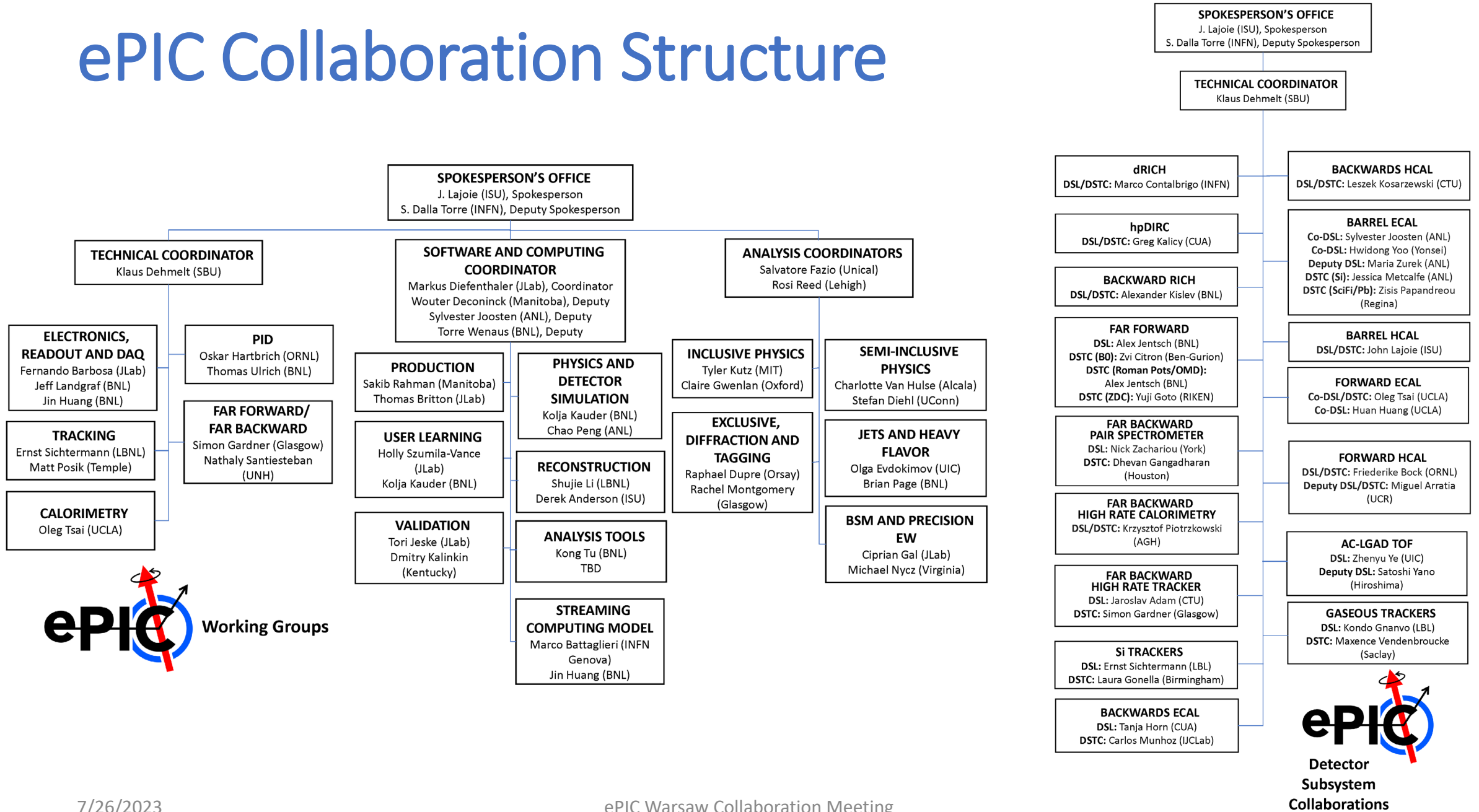
Your Leadership Team Needs to Hear From You







ePIC Collaboration Structure



DOE University/Lab Program Support

- We have heard from many collaborators with concerns about supporting their ongoing efforts in EIC/ePIC under their university grants
 - Need to clarify what can be supported, what can PI's ask for in proposals?
- Conversation with Ken Hicks (HI) @ LRP meeting:
 - Happy to receive proposals for EIC scope (no conditions)
 - Emphasized flat-flat budget for foreseeable future (comparative reviews)
- In contact w/Gulshan Rai (ME):
 - Understand from Ken that Gulshan has a different approach
 - Scheduling a meeting w/Gulshan but this will be post-Warsaw
- I believe the same guidance applies to Lab effort as well
- Please keep in touch with the Spokesperson's Office with specific concerns!
 - We will continue the dialog with DOE and emphasize the importance to ePIC

EIC and ePIC @ LRP Resolution Meeting

Monday, July 10th

- Presentations at LRP Resolution Meeting (Virginia Beach)
- Good questions, good discussion!
- Recognition of the place held by the EIC in the 2015 LRP as well as excellent progress since that time.

2:15 – 3:15	QCD Program Overview <ul style="list-style-type: none">• Cold QCD (20+10)• Hot QCD (20+10)	Jim Napolitano Barbara Jacak
3:15 – 4:15	EIC (30+30 min) <ul style="list-style-type: none">• Science/Project• ePIC detector	Rolf Ent John Lajoie
4:15 – 4:45	Break	
4:45 – 5:35	QCD Initiatives (50 min); 5+5 for each <ul style="list-style-type: none">• EIC Second Detector• Polarized positron beam at CEBAF• Towards an Energy Upgrade at CEBAF• LHC detector upgrades and CERN initiatives• High baryon density frontier	Renee Fatemi Thia Keppel Thia Keppel Vicki Greene Lijuan Ruan
5:35 – 6:05	QCD Discussion	

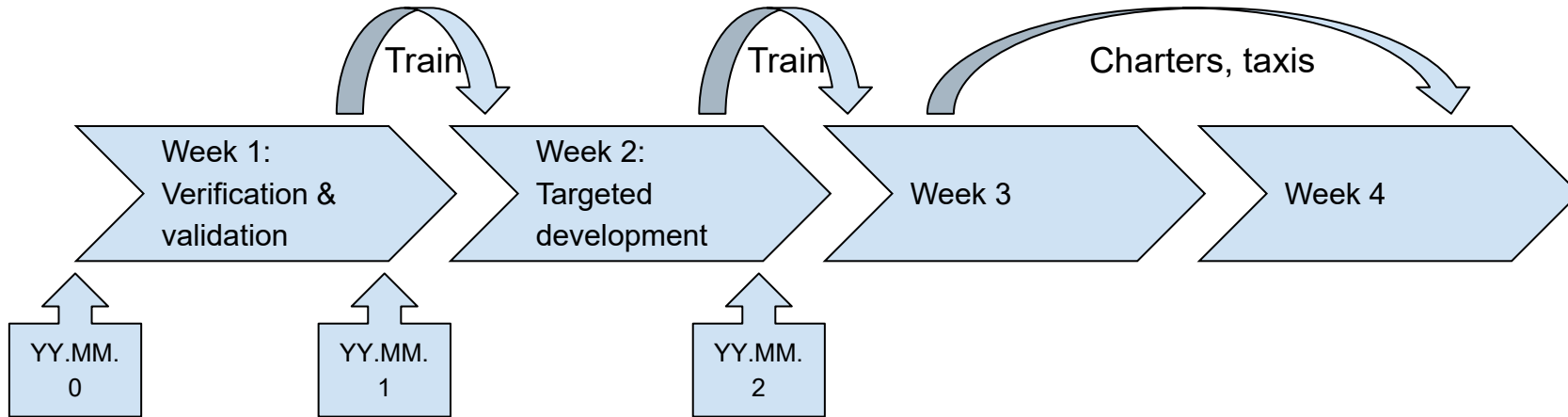
ePIC Resources – Get Connected!

- Mailing Lists – <https://lists.bnl.gov/mailman/listinfo>
- Indico Agenda - <https://indico.bnl.gov/category/402/>
- Wiki - <https://wiki.bnl.gov/EPIC>
- ePIC Software Training:
 - <https://eic.github.io/tutorial-setting-up-environment/>
 - <https://eic.github.io/tutorial-geometry-development-using-dd4hep/>
 - <https://eic.github.io/tutorial-simulations-using-ddsim-and-geant4/>
 - <https://eic.github.io/tutorial-jana2/>
 - Recordings: <https://www.youtube.com/@eicusergroup1532>

QR code for Mattermost channels:



Simulation Campaigns



ePIC simulations have advanced dramatically – now is the time to get involved!

- Simulation campaigns have been reorganized – see [here](#)
 - Train, charter and taxis on a monthly basis
 - Ensures regular updates for detector and physics studies, as well as for geometry and algorithm development.
- May/June/July campaigns complete, August campaign starting soon
- Many simulation files are available on S3: 'S3/eicctest/EPIC/RECO/23.05.2'
 - Developing special samples for tracking, etc.

