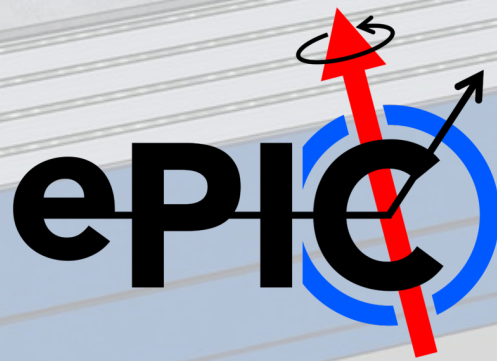


A 3D cutaway diagram of the ePIC detector structure. The detector is cylindrical and composed of several concentric layers. The outermost layer is blue. Inside, there are layers of green and purple. The central part of the detector is a complex structure with many small components. The text "ePIC Collaboration Status" is overlaid in blue on the central part of the detector.

ePIC Collaboration Status

J. Lajoie, S. Dalla Torre

May 11, 2023



Hey John, start the recording....

Today's Agenda

- Usual updates
- Early-Career
- Simulation Campaign

AI-generated image for “meeting of scientists”



ePIC General Meeting

Thursday May 11, 2023, 9:30 PM → 11:30 PM US/Eastern

Description Connection Information: <https://iastate.zoom.us/j/5671810336?pwd=Q1pwM2Q5NFk0T2xqMIJiWDcwcXI0dz09>

Recording:

9:30 PM → 10:40 PM	General Status and Updates Conveners: John Lajoie (Iowa State University), Silvia Dalla Torre (INFN, Trieste)	
9:30 PM	ePIC Collaboration Status Speakers: John Lajoie (Iowa State University), Silvia Dalla Torre (INFN, Trieste)	25m
9:55 PM	Collaboration Council Status Speakers: Bernd Surrow (Temple University), Ernst Sichtermann (Lawrence Berkeley National Laboratory)	10m
10:05 PM	EIC Project Update Speakers: E. C. Aschenauer (BNL), Rolf Ent (Jefferson Lab)	25m
10:30 PM	Discussion Speakers: John Lajoie (Iowa State University), Silvia Dalla Torre (INFN, Trieste)	10m
10:40 PM → 10:50 PM	Early-Career Efforts In ePIC Speakers: Alexander Jentsch (Brookhaven National Laboratory), Derek Anderson (Iowa State University), Tyler Kutz (MIT)	10m
10:50 PM → 11:15 PM	Structure of Future Simulation Campaigns Speakers: Markus Diefenthaler (Jefferson Lab), Sylvester Joosten (Argonne National Laboratory), Torre Wenaus (BNL), Wouter Deconinck (University of Manitoba)	25m

ePIC Collaboration Recent Happenings

- ePIC Marches On...
 - April 21st – CC Meeting
 - April 24-25th – SP + PM Meetings @ CERN
 - Recognized Expt. Status
 - ALICE-ITS3*
 - PID R&D Meeting
 - May 2nd – Results of CC vote:
 - Endorsed motion to initiate change control for pFRICH, Imaging EMCAL
 - Working group structure endorsed
 - Convenor nominations endorsed
- Transition to new WG structure
- Begin change control process
- Stand up simulation campaigns

*More details in Project update

5/11/2023

April 2023

Mon	Tue	Wed	Thu	Fri
17	18	19	20	21
12:00 Modular Reconstruction 14:00 Software & Computing Coordinatic	08:00 Low-Q2 Tagger weekly meeting 08:30 SIDIS WG meeting 09:00 Detector 1 TOF-PID WG Weekly Me 09:00 EPIC Far-Forward Weekly Meeting +3 more	09:00 dRICH Simulation Meeting - Mirror 10:00 ePIC Backward RICH meeting 11:00 ePIC Software & Computing Week 12:30 EPIC calorimetry weekly meeting	09:00 EPIC DAQ WG meeting 10:00 ePIC Track reconstruction meeting 14:00 Simulation Production Task Force	08:30 hpDIRC DSSC Meeting 11:00 ePIC Collaboration Council Meetin 13:00 Coordinator Meeting
24	25	26	27	28
08:00 HRC weekly meeting 14:00 Software & Computing Coordinatic	08:00 Low-Q2 Tagger weekly meeting 08:30 SIDIS WG meeting 09:00 Detector 1 TOF-PID WG Weekly Me 09:00 EPIC Far-Forward Weekly Meeting +3 more	08:00 dRICH Meeting - Geometry and Sir 11:00 ePIC Software & Computing Week	10:00 Far Backward weekly meeting 10:00 ePIC Track reconstruction meeting 14:00 Simulation Production Task Force	10:30 TIC meeting 10:30 ePIC Analysis Coordination 13:00 Coordinator Meeting
1	2	3	4	5
14:00 [closed meeting] convener chats 14:00 Software & Computing Coordinatic	08:00 Low-Q2 Tagger weekly meeting 09:00 Detector 1 TOF-PID WG Weekly Me 09:00 Barrel ECal Meeting 13:00 eA Study Group Meeting	08:00 dRICH Meeting - Readout Electron 11:00 ePIC Software & Computing Week 12:30 EPIC calorimetry bi-weekly meetin	09:00 EPIC DAQ WG meeting 10:00 ePIC Track reconstruction meeting 10:00 dRICH Simulation Meeting - Simuli 14:00 Simulation Production Task Force 15:00 ePIC Backward RICH meeting	08:30 hpDIRC DSSC Meeting 13:00 Coordinator Meeting

May 2023

Mon	Tue	Wed	Thu	Fri
1	2	3	4	5
14:00 [closed meeting] convener chats 14:00 Software & Computing Coordinatic	08:00 Low-Q2 Tagger weekly meeting 09:00 Detector 1 TOF-PID WG Weekly Me 09:00 Barrel ECal Meeting 13:00 eA Study Group Meeting	08:00 dRICH Meeting - Readout Electron 11:00 ePIC Software & Computing Week 12:30 EPIC calorimetry bi-weekly meetin	09:00 EPIC DAQ WG meeting 10:00 ePIC Track reconstruction meeting 10:00 dRICH Simulation Meeting - Simuli 14:00 Simulation Production Task Force 15:00 ePIC Backward RICH meeting	08:30 hpDIRC DSSC Meeting 13:00 Coordinator Meeting
8	9	10	11	12
08:00 HRC weekly meeting 09:00 TIC meeting 12:00 Inclusive physics bi-weekly meetin	08:00 Low-Q2 Tagger weekly meeting 09:00 EPIC Far-Forward Weekly Meeting 09:00 Detector 1 TOF-PID WG Weekly Me 09:00 Barrel ECal Meeting +2 more	08:00 dRICH Meeting - Mechanics and M 12:00 Jets and HF Working Group Meetin	09:00 EPIC Electronics & DAQ WG meetin 10:00 ePIC Track reconstruction meeting 10:00 dRICH Meeting - Shaping and IRT 11:00 ePIC Tracking Working Group Mee +2 more	08:30 Inaugural Meeting 13:00 Coordinator Meeting

Recognized Experiment @ CERN (April 25th)

- Meeting April 24th with SP+PM and Joachim Mnich
- Agreed that there are strong synergies between the EIC and CERN
- Procedure:
 - Submit application to Research Board
 - Presentation to committee (Jan'24)
 - MOU between ePIC and CERN

Recognized Experiment Status

CERN is prepared to recognize experiments in fields allied to particle physics, such as astroparticle or nuclear physics, provided they meet the requirements listed [here](#).

Granting the status of Recognized Experiment does not imply that CERN has in any sense approved the experiment.

Recognized Experiments will be able to:

- register members of the experiment as CERN users (at no more than 30% of their working time), without implying that office space is assigned;
- use CERN's premises to organise meetings;
- use basic services such as standard personal computing accounts;
- open third-party accounts for visiting research teams if justified,

all provided that the cost for CERN is truly marginal, and that approved CERN activities always take priority

Other services the experiment can use are defined in the CERN Collaboration Agreements.

(This page is an unofficial description for information purposes. The authoritative document can be found here: "[Conditions for Recognized Experiments at CERN](#)")

Requirements to obtain the Status of Recognized Experiment

In order to be considered for obtaining the status of Recognized Experiment, experiments must meet **all** of the following criteria:

- The experiment conducts research in a field allied to particle physics, such as astroparticle or nuclear physics, and
- The experiment has substantial participation of physicists from several CERN Member States, and
- The experiment is approved by relevant agencies and is reasonably funded. It is assumed that the process leading to approval has considered scientific, technical and funding aspects, and that regular reviews of these aspects are in place.

If your experiment meets the requirements and you wish to apply, please follow the steps in '[Application Procedure](#)'

(This page is an unofficial description for information purposes. The authoritative document can be found here: "[Conditions for Recognized Experiments at CERN](#)")

CERN-EIC Synergies in Cherenkov PID

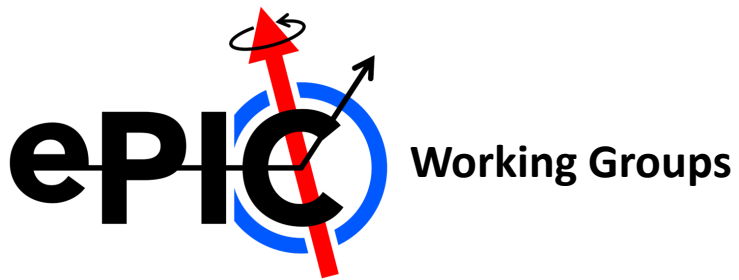
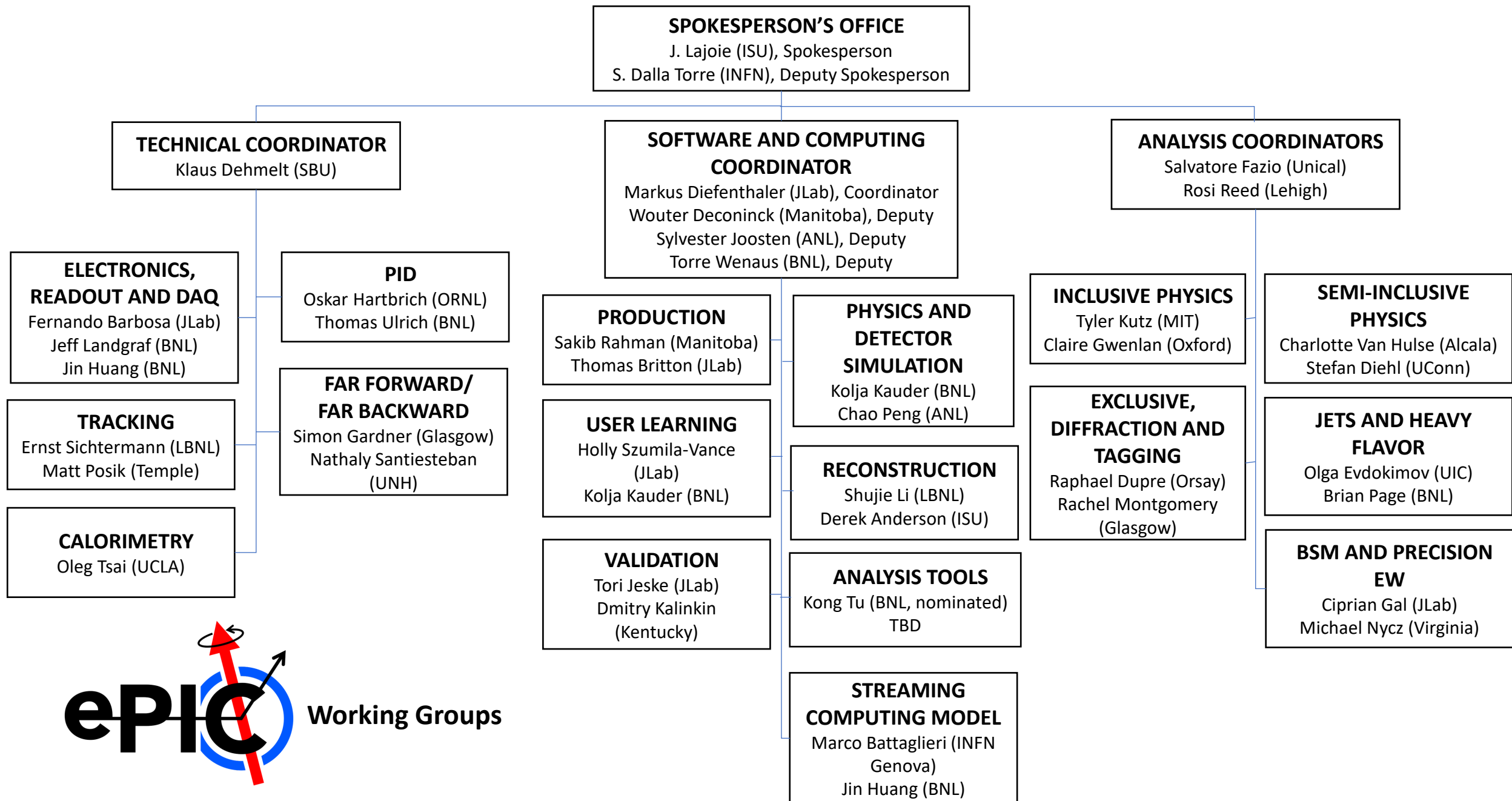
The screenshot shows a Zoom meeting agenda for 'CERN-EIC synergies for Cherenkov PID' on Tuesday, April 25, 2023, from 2:30 PM to 6:30 PM in Europe/Rome. The meeting ID is 2/R-030 (CERN). The agenda includes the following items:

- 2:30 PM → 2:40 PM Welcome and Introduction** (10m)
Speaker: Silvia Dalla Torre (Istituto Nazionale di Fisica Nucleare)
Attachment: DallaTorre_EIC-CER...
- 2:40 PM → 3:10 PM Plans and developments for Cherenkov PID upgrade at LHCb** (30m)
Speaker: Floris Keizer (CERN)
Attachment: RnD_LHCbRICH-FKe...
- 3:20 PM → 3:50 PM Plans and developments for Cherenkov PID upgrade for ALICE 3** (30m)
Speaker: Antonello Di Mauro (CERN (Geneva, Switzerland))
Attachment: Cher-PIDinALICE3-E...
- 4:00 PM → 4:20 PM Coffee Break** (20m)
- 4:20 PM → 4:50 PM Plans and developments for Cherenkov PID at ePIC** (30m)
Speaker: Roberto Preghenella (Istituto Nazionale di Fisica Nucleare)
Attachment: [20230425][CERN-EI...
- 5:00 PM → 5:40 PM General discussion** (40m)

- Organized by Silvia
- Address open questions:
 - Photon detection
 - Fast timing
 - Mirrors
 - ...
- Lots of synergies with needs at HL-LHC!
- <https://agenda.infn.it/event/35393/>

Transition to New WG Structure

- New convenors have held hand-over meetings with outgoing WG leadership
 - Thanks to our outgoing convenors!
 - Clear communication through the transition
- Most of the new WG's have held kick-off meetings
- DSC meetings also showing up in Indico
- TIC Meeting Mondays at 9AM ET
 - DSC representation is mandatory!
 - TIC meetings are open to all
- Software and Computing Meetings Wednesdays 11AM ET
 - Main meeting for ePIC Software and Computing
- Ongoing Coordinator meetings on Fridays

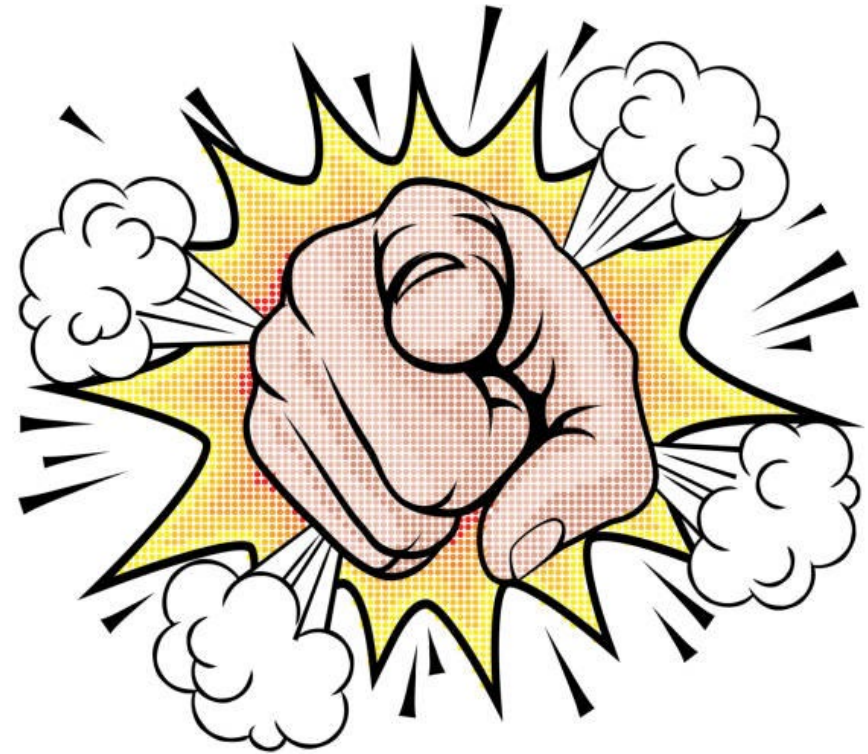


Change Control Process

- Imaging EMCaI
 - Regular meetings with PM and Imaging EMCaI group
 - Working to integrate cost and schedule into P6 (S. Bazilevsky)
 - Focus on CD-3A long lead, cost, design and construction times
 - Ongoing work to optimize/integrate Imaging EMCaI design
 - May 3rd Calo WG: <https://indico.bnl.gov/event/19383/>
 - Work required before documentation for change control can be prepared
- pfRICH
 - Working to integrate cost and schedule into P6 (B. Zihlmann)
 - Preparing documentation for change control process
 - More straightforward case for change control, plan to go first

Simulation Campaigns

- We have a long list of items that require extensive simulations to address:
 - Impact of supports and services
 - Low- Q^2 acceptance
 - Integrated tracking design and performance...
 - ...
- You will hear today about a new structure for simulation campaigns
 - Improve turn-around time on answering key questions
 - Allow for continuous improvement of simulations and reconstruction
 - Activate physics working groups
- This needs **YOUR HELP** to be successful!



Coordination, Engagement, and Training

- May 17th : Software, Computing and Physics Discussion
 - <https://indico.bnl.gov/event/19473/>
 - A good place for people who want to know what is being worked on right now, and where they can go in order to help with the effort!
- ePIC Trainings:
 - <https://eic.github.io/tutorial-jana2/>

QR code for Mattermost channels:



Times for ePIC Meetings (General, CC)

- Want to keep a common set of times for both the General and CC Meetings
 - General Meetings on a 2-week schedule
 - CC Meetings on off-weeks, but may not be every two weeks
- Many creative options discussed in coordinator's meeting
 - None of them are perfect
- Proposal for new meeting times:
 - **Friday Mornings: 10:30AM ET (same as current)**
 - **Thursday Evenings: 7PM ET (2.5 hours earlier)**

Summer Times for ePIC Meetings (General, CC)

NOW

	UT	SUMMER																											
		0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00				
EST	-4	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00				
PST	-7	21.00	22.00	23.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00				
CET	2	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	0.00	1.00	2.00	3.00	4.00	5.00				
Japan	9	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00				
China	8	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00				
India	5.3	9.30	10.30	11.30	12.30	13.30	14.30	15.30	16.30	17.30	18.30	19.30	20.30	21.30	22.30	23.30	0.30	1.30	2.30	3.30	4.30	5.30	6.30	7.30	8.30				
												BAD: Japan, China						BAD: Europe						marginal: EST, India					

NEW - PROPOSED

	UT	SUMMER																							
		0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
EST	-4	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00
PST	-7	21.00	22.00	23.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00
CET	2	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	0.00	1.00	2.00	3.00	4.00	5.00
Japan	9	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00
China	8	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00
India	5.3	9.30	10.30	11.30	12.30	13.30	14.30	15.30	16.30	17.30	18.30	19.30	20.30	21.30	22.30	23.30	0.30	1.30	2.30	3.30	4.30	5.30	6.30	7.30	8.30
												BAD: Japan, China						BAD: Europe, India							

(winter times in backup)

ePIC Resources

- Indico section for ePIC WG's:
 - <https://indico.bnl.gov/category/402/>
- Mailing lists (lists.bnl.gov)

eic-projdet-FarBack-l@lists.bnl.gov
eic-projdet-daq-l@lists.bnl.gov
eic-projdet-FarForw-l@lists.bnl.gov
eic-projdet-CompSW-l@lists.bnl.gov
eic-projdet-Inclusive-l@lists.bnl.gov
eic-projdet-JetHF-l@lists.bnl.gov
eic-projdet-GlobalInt-l@lists.bnl.gov

eic-projdet-TOFPID-l@lists.bnl.gov
eic-projdet-calo-l@lists.bnl.gov
eic-projdet-ExclDiff-l@lists.bnl.gov
eic-projdet-SemiIncl-l@lists.bnl.gov
eic-projdet-BSMEW-l@lists.bnl.gov
eic-projdet-CPID-l@lists.bnl.gov
eic-projdet-tracking-l@lists.bnl.gov

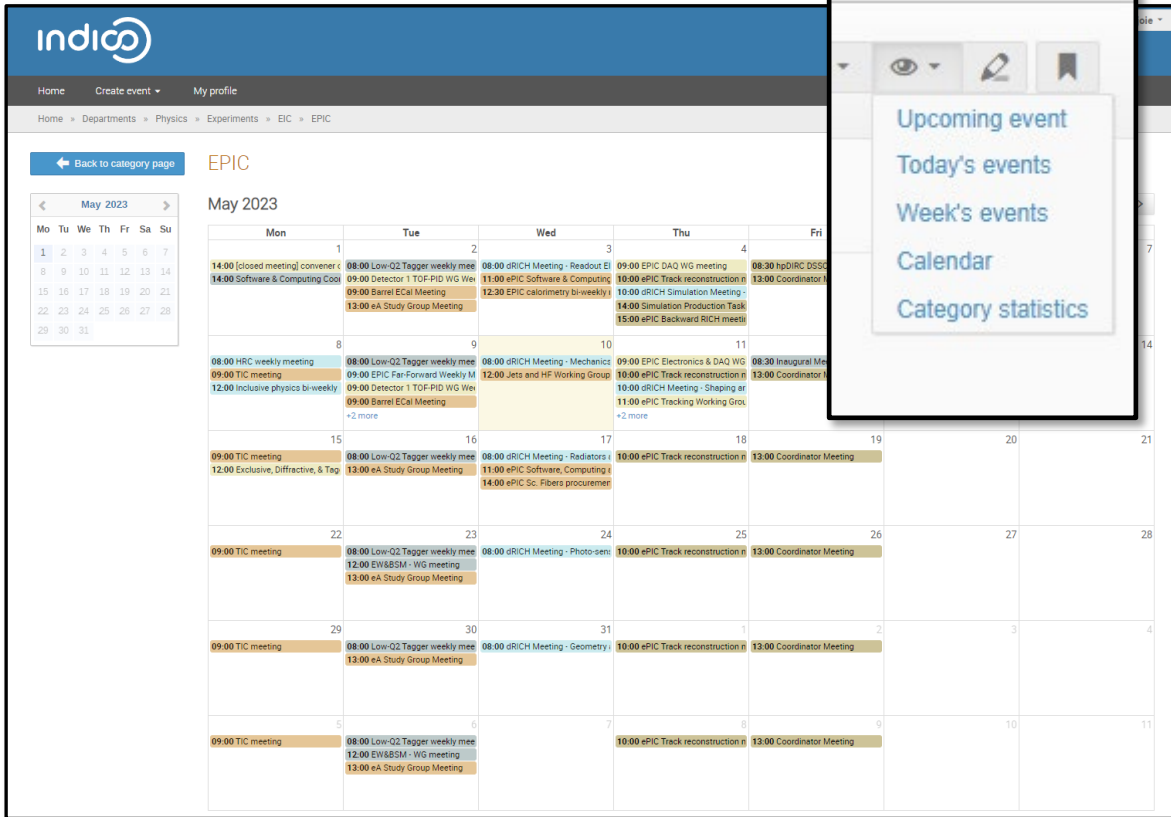
- Wiki available, addtl. resources can be made available as needed
 - <https://wiki.bnl.gov/EPIC>
 - Mattermost channels, etc.

Indico calendar for all ePIC meetings can be connected to your calendar (View->Calendar)

The screenshot displays the Indico web interface for the EPIC category. At the top, there are navigation links: Home, Create event, and My profile. Below this is a breadcrumb trail: Home > Departments > Physics > Experiments > EIC > EPIC. The main content area shows a calendar for May 2023. A dropdown menu is open over the calendar, listing options: 'Upcoming event', 'Today's events', 'Week's events', 'Calendar', and 'Category statistics'. The calendar grid shows events for each day of the month, with various meeting titles and times listed.

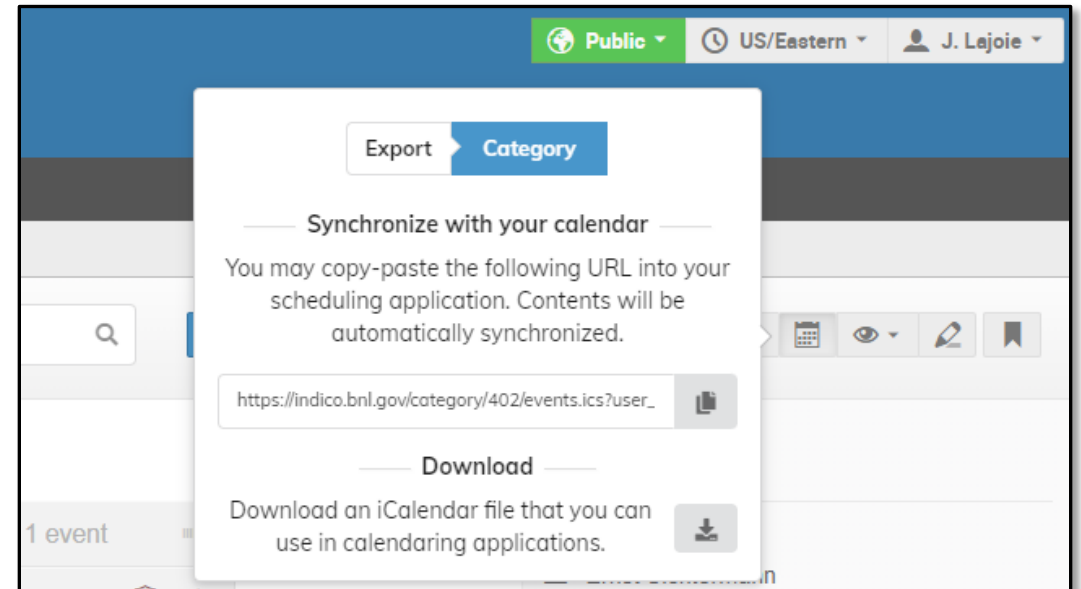
ePIC Indico Calendar Resources

Indico calendar for all ePIC meetings can be connected to your calendar (View->Calendar)



<https://indico.bnl.gov/category/402/>

Indico calendar for all ePIC meetings can be connected to your personal calendar – category view, select the calendar icon.



Coming Soon...

- Next General Meeting Friday, May 26th
 - Report from the TIC to be a general feature
 - Plan to return to more reports from WG's, etc.
- Project PID Review July 5-7th
- Project Tracking Review TBD
- Next ePIC Collaboration Meeting:
 - Organized jointly with EIC Users Group Meeting
 - Univ. of Warsaw, July 23-31st
 - Early career, EICUG and ePIC meetings
 - <https://indico.cern.ch/event/1238718/>

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:

- T. Altinoluk (NCBJ)
- B. Badetek (U. Warsaw, chair)
- D. Kikoła (WUT)
- M. Suster (Candela F., U. Warsaw)
- P. Sznajder (NCBJ)
- J. Wagner (NCBJ)
- 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)

Visula River

JULY 23 - 31 2023

Warsaw

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



