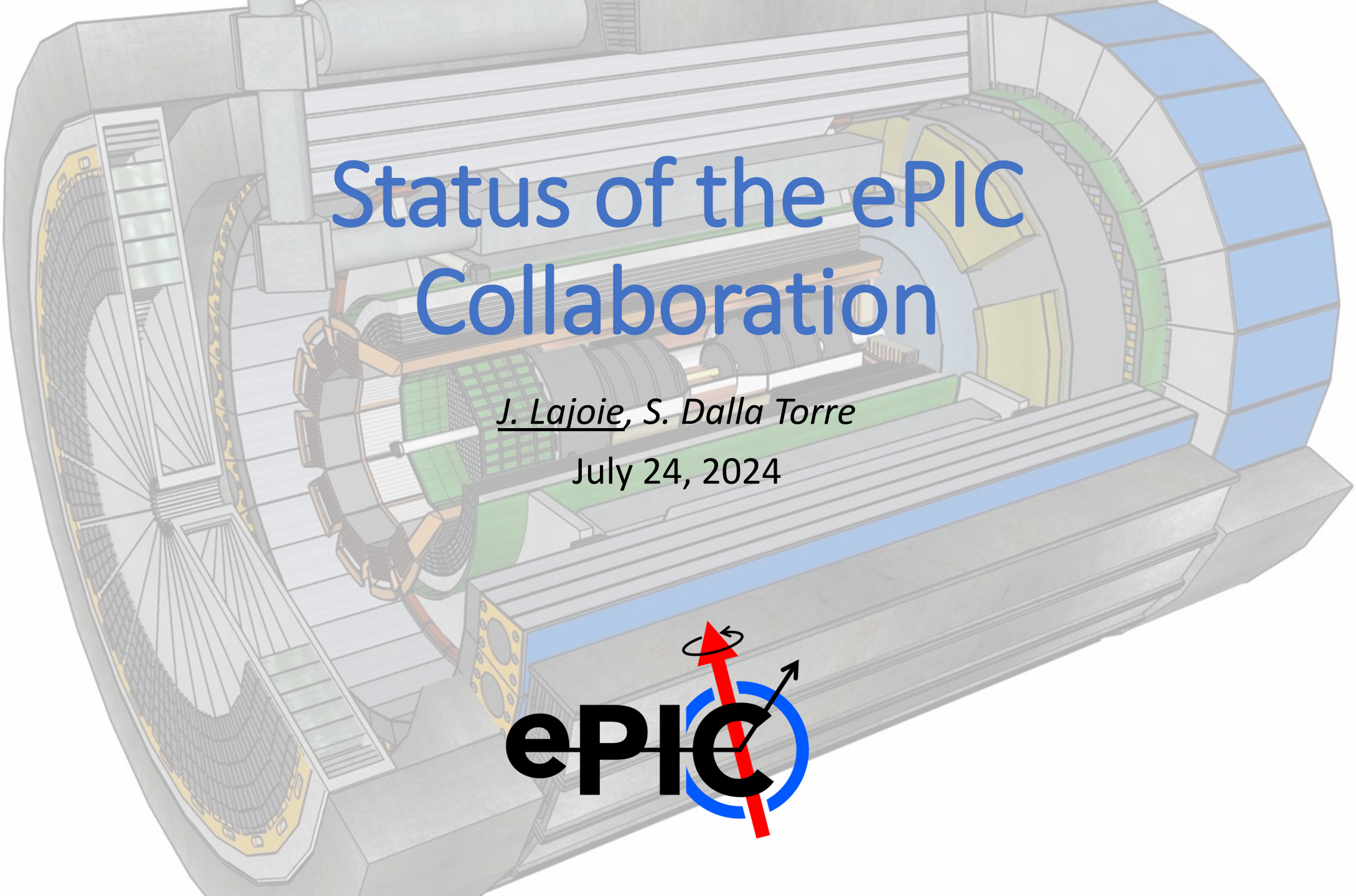


Status of the ePIC Collaboration

J. Lajoie, S. Dalla Torre

July 24, 2024

Welcome to Argonne!

Argonne NATIONAL LABORATORY

ePIC Argonne 2024 NATIONAL LABORATORY

Thanks to our hosts for this wonderful venue and support!

Welcome to Argonne!

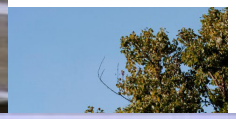
erful venue and support!

Welcome to Lehigh!

- Lehigh University Bethlehem, PA
- July 22-27
- Jointly organized with the EICUG
- ePIC Meeting July 24-27th

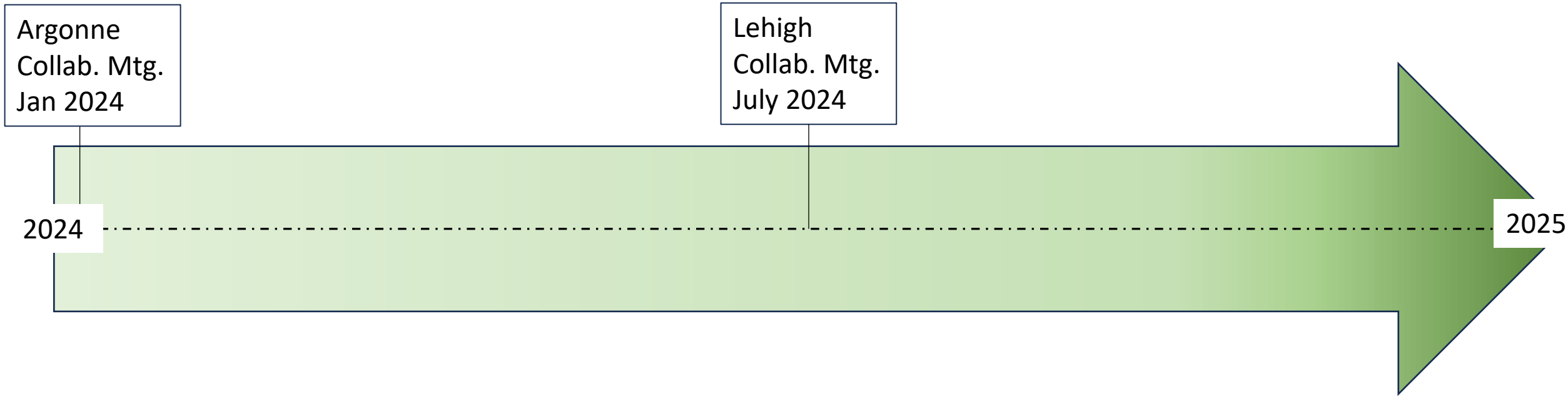
https://indico.bnl.gov/event/20727/

Welcome to Lehigh!



https://indico.bnl

From there to here 2024…



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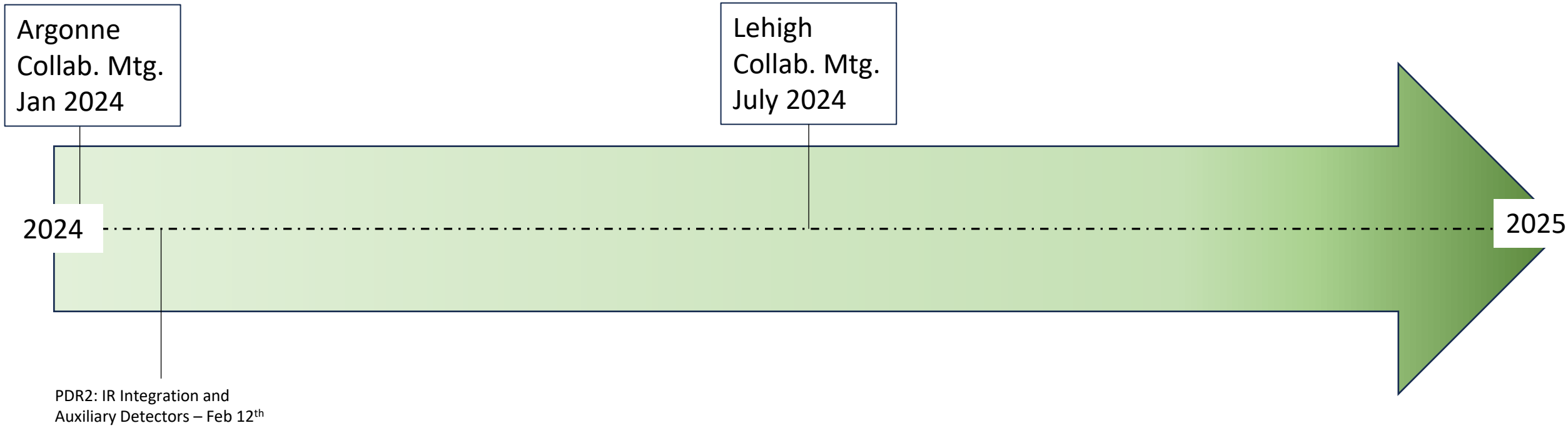

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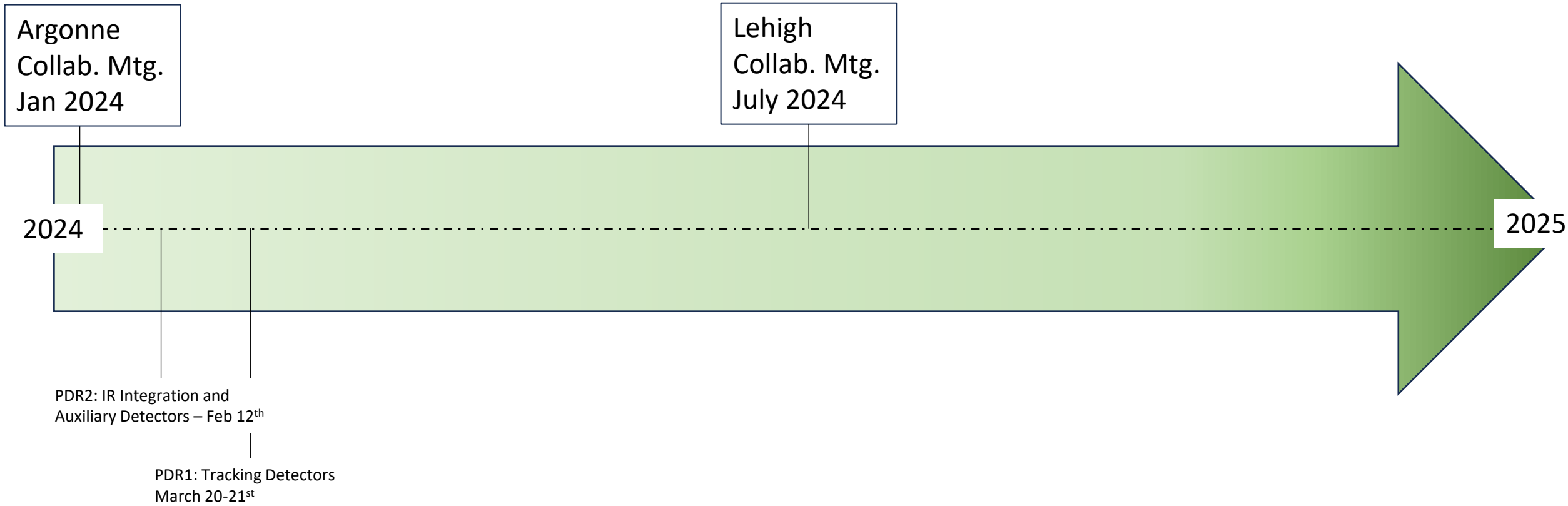

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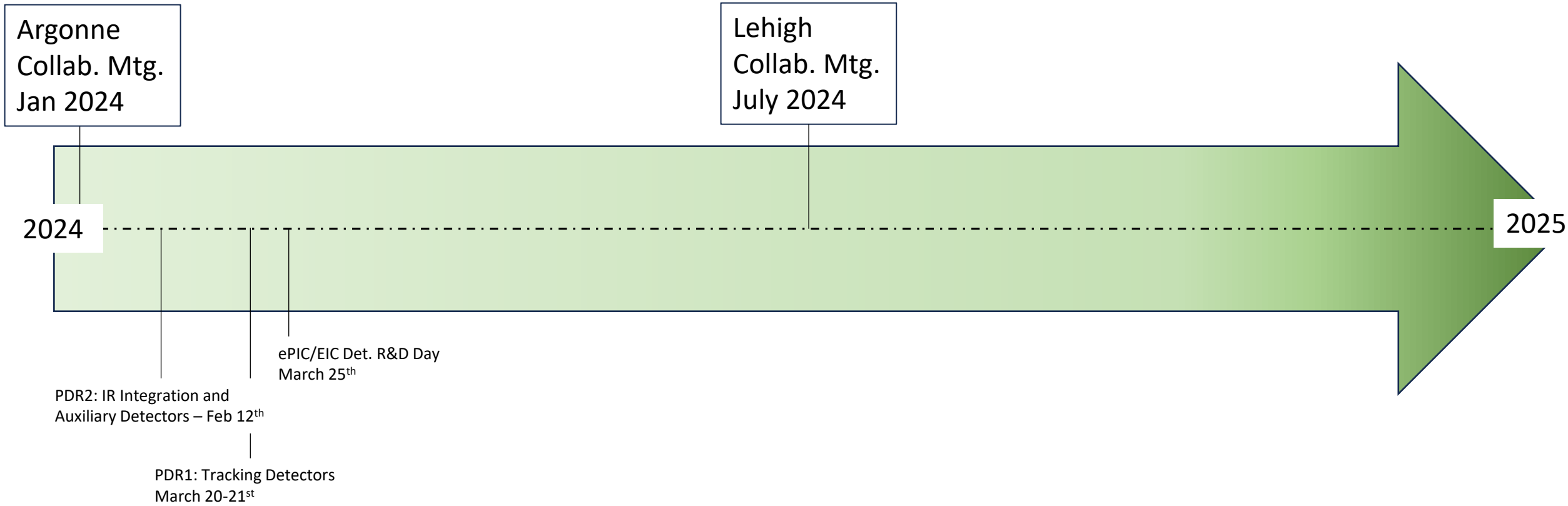

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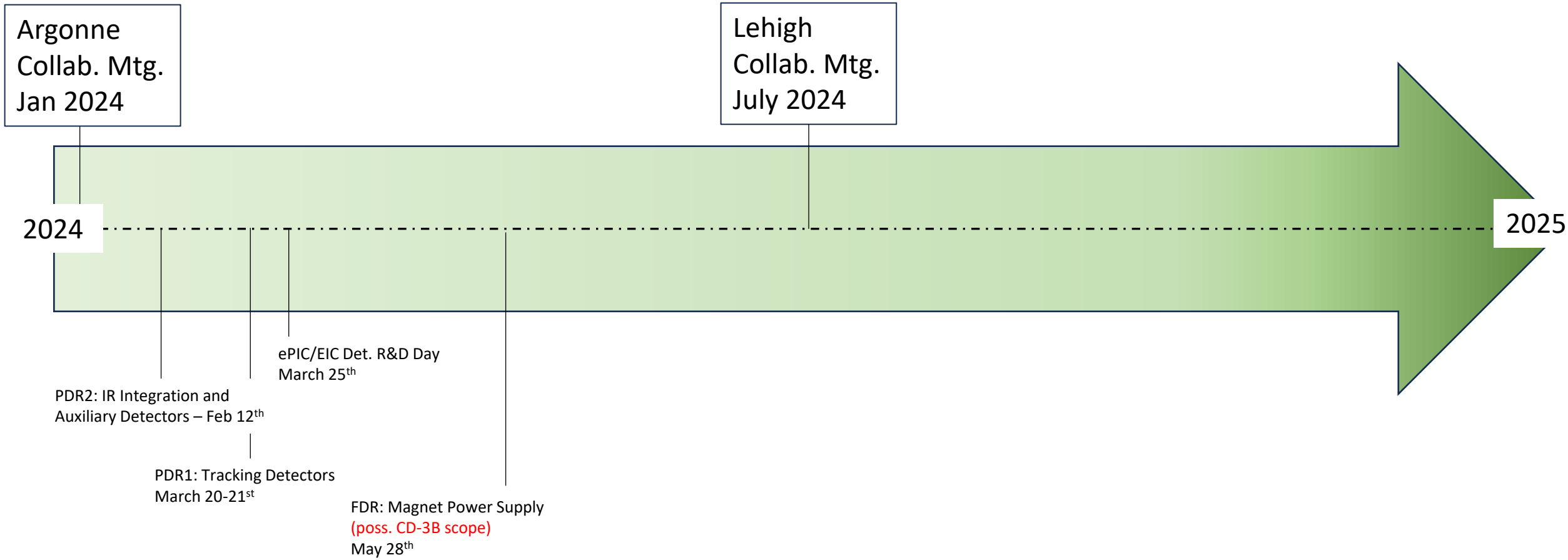

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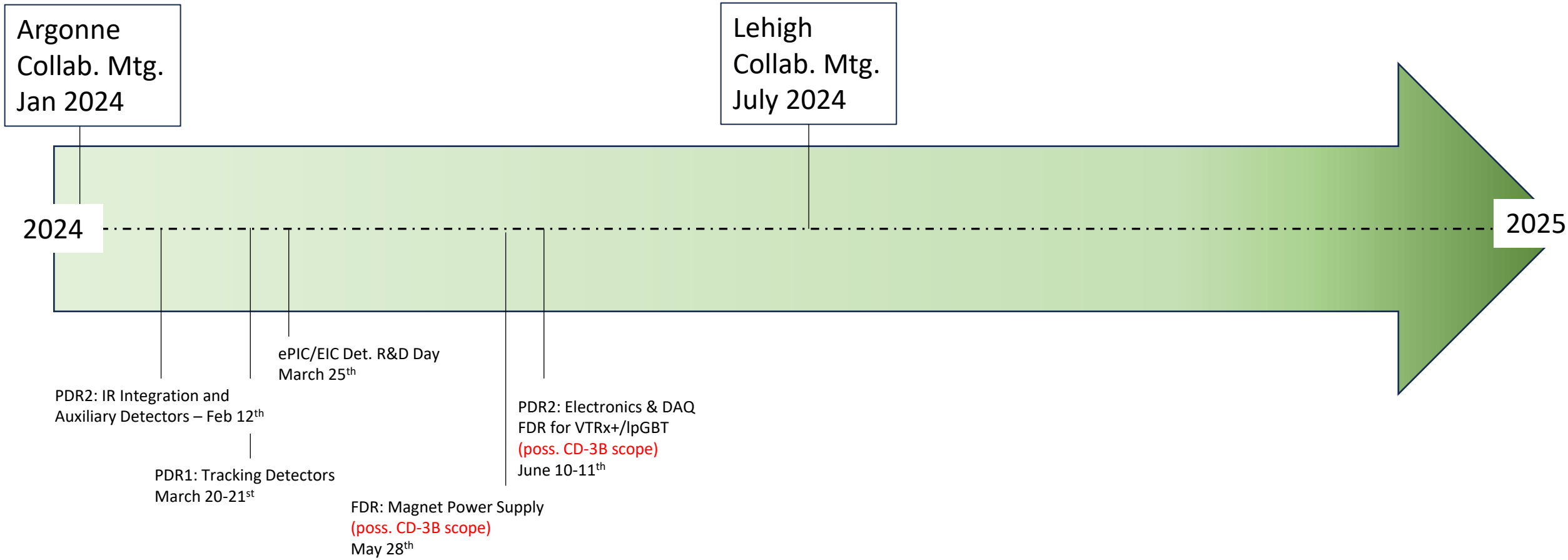

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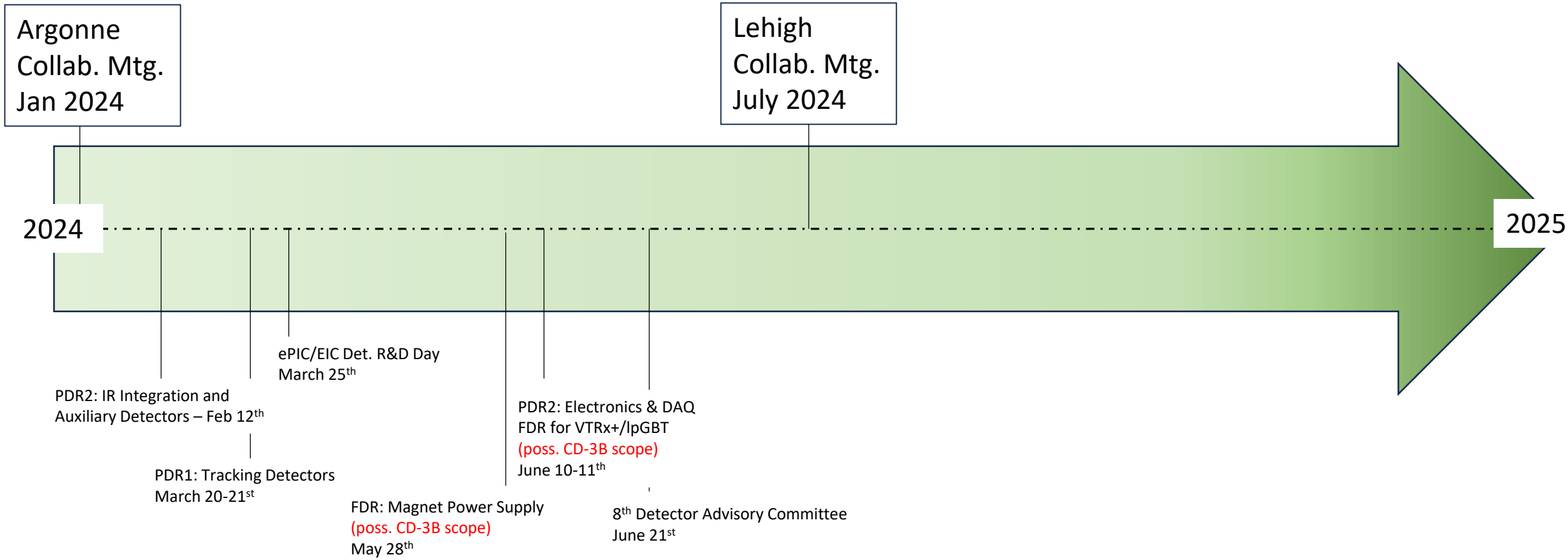

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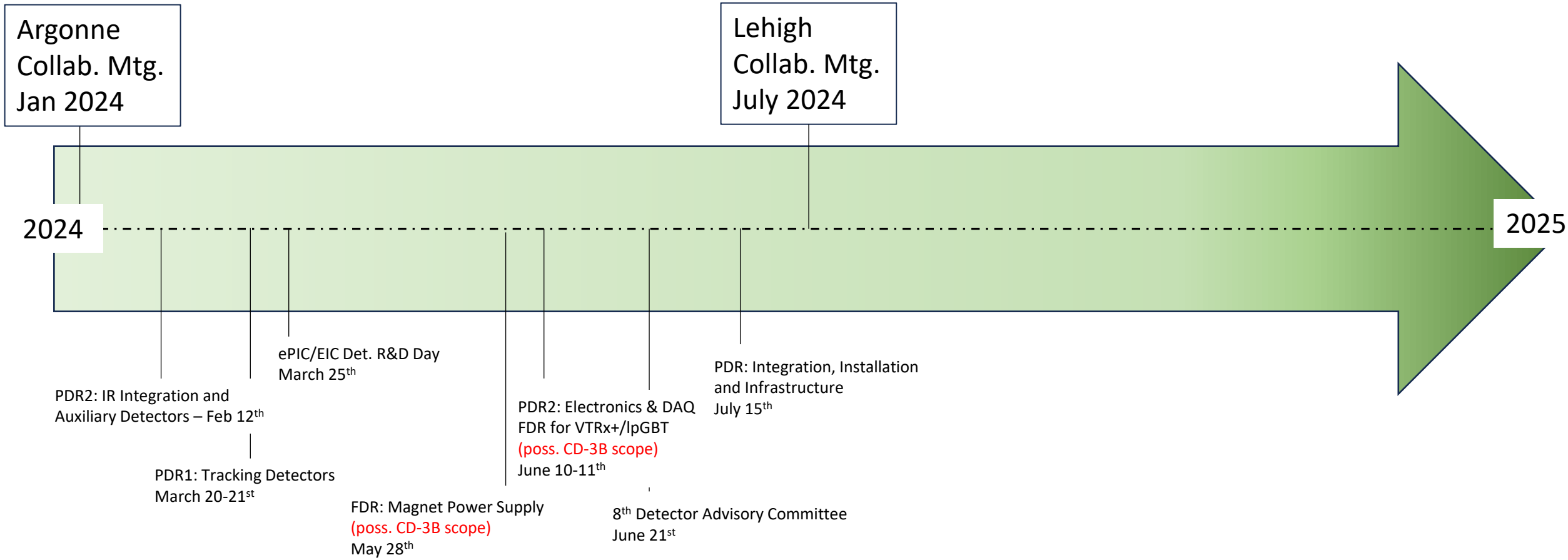

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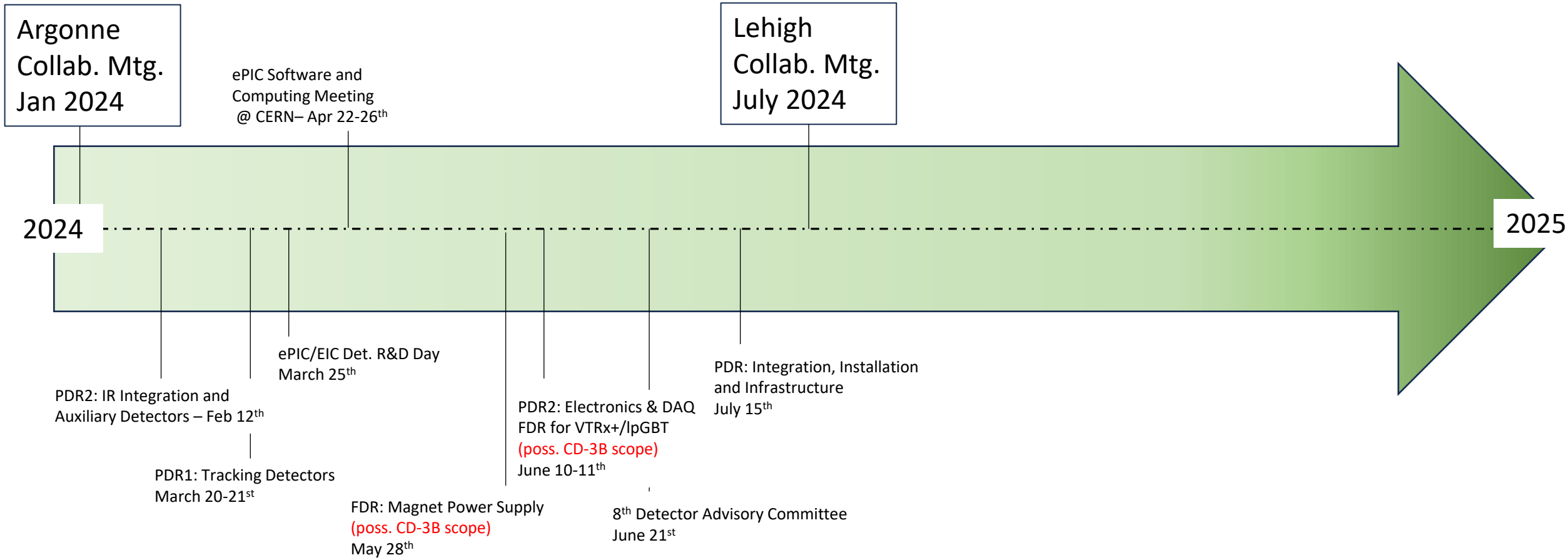

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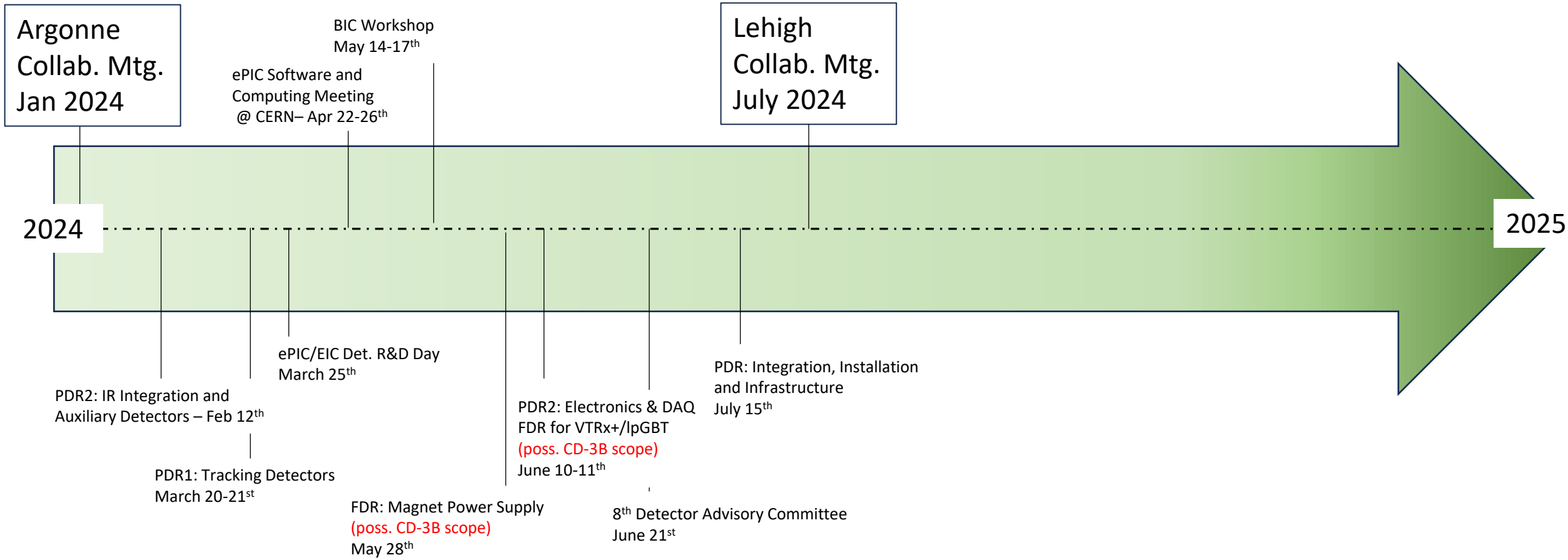

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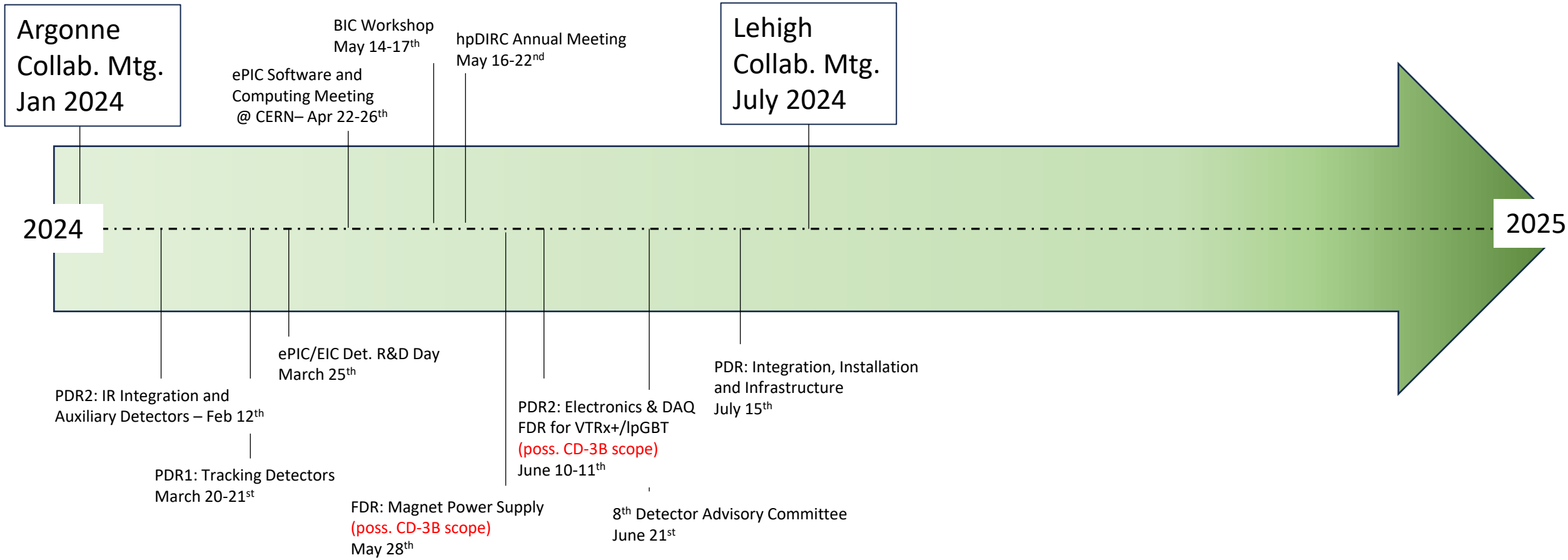

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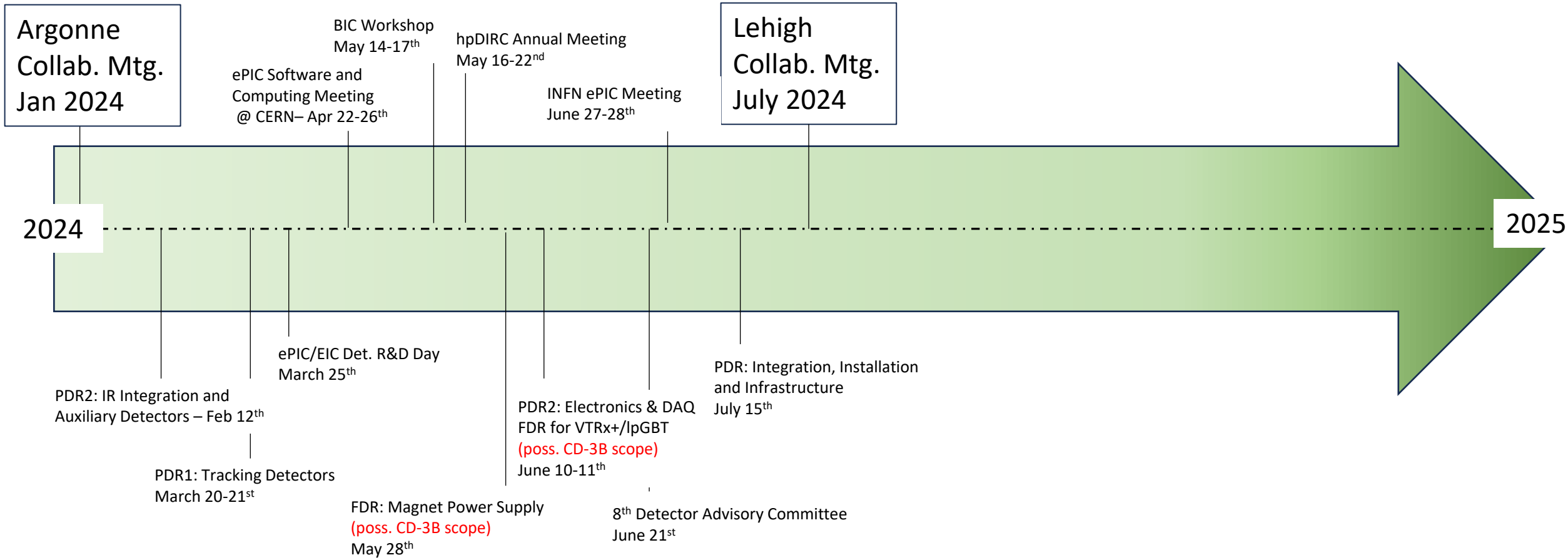

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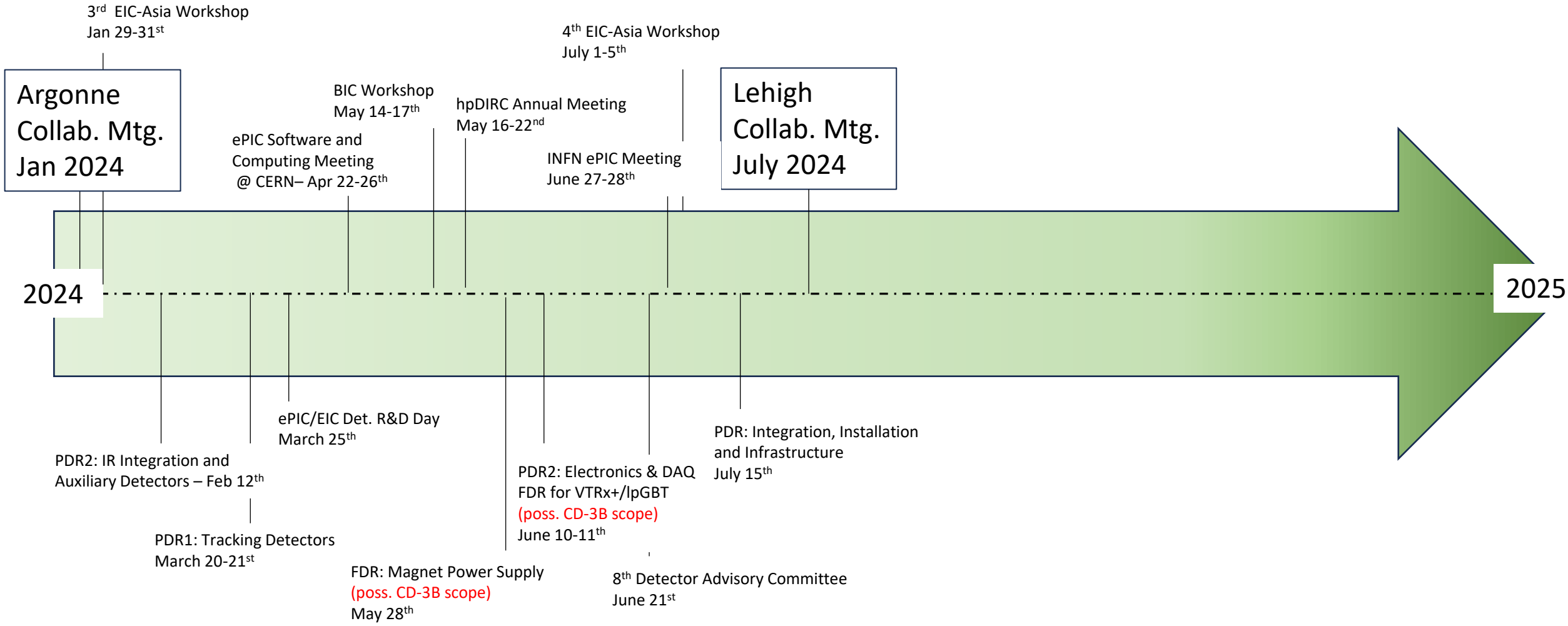

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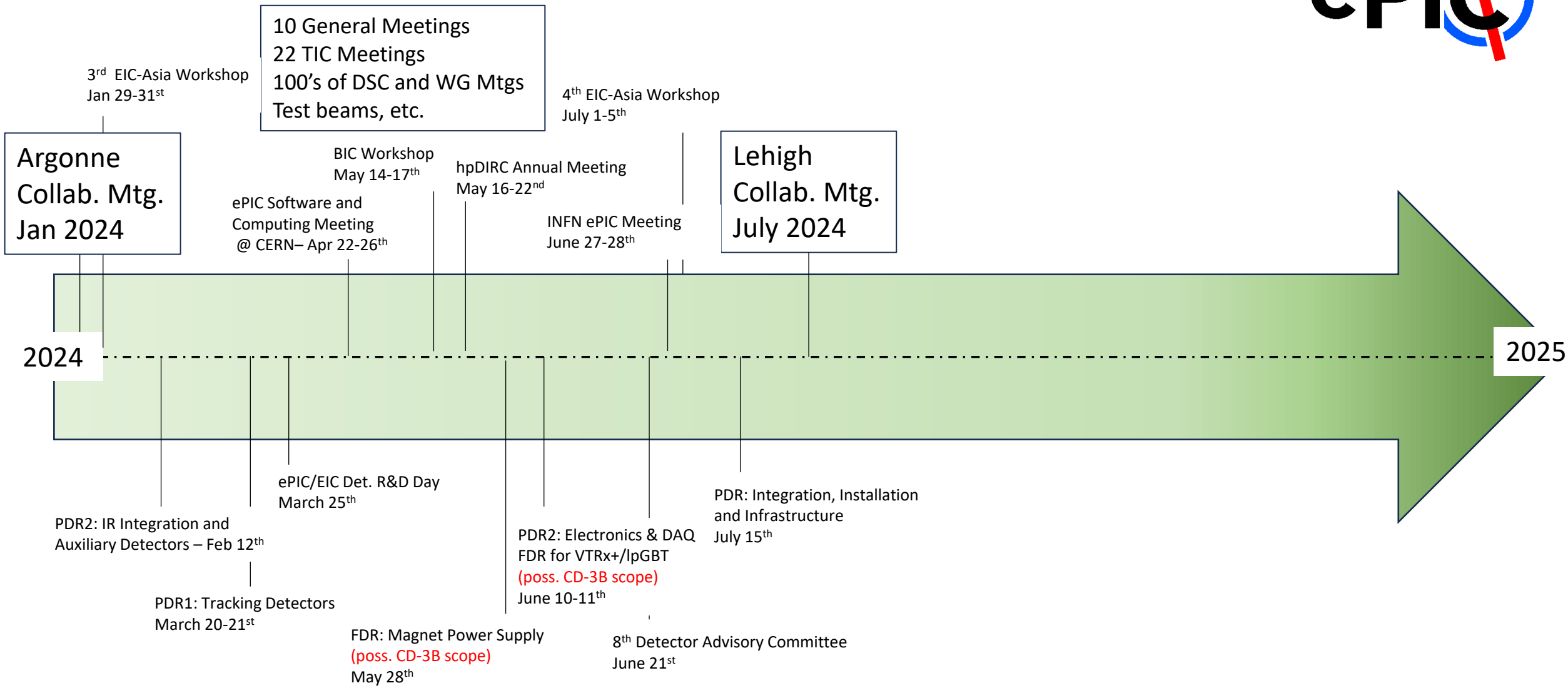

The ePIC Collaboration

The ePIC Collaboration

JLab, Jan. 2023

ePIC is a community of scientists dedicated to realizing the EIC science mission.

The ePIC Collaboration is as unique as the ePIC detector.

The ePIC Collaboration

Warsaw, July 2023

JLab, Jan. 2023

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The ePIC Collaboration

Warsaw, July 2023

JLab, Jan. 2023

ANL,
Jan. 2024

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The ePIC Collaboration

Warsaw, July 2023

JLab, Jan. 2023

EICUG/ePIC Meeting – Lehigh, July 2024

ePIC
scie
real
miss

The ePIC Collaboration is as unique as the ePIC detector.

By the numbers…

ePIC Initiated in July 2022

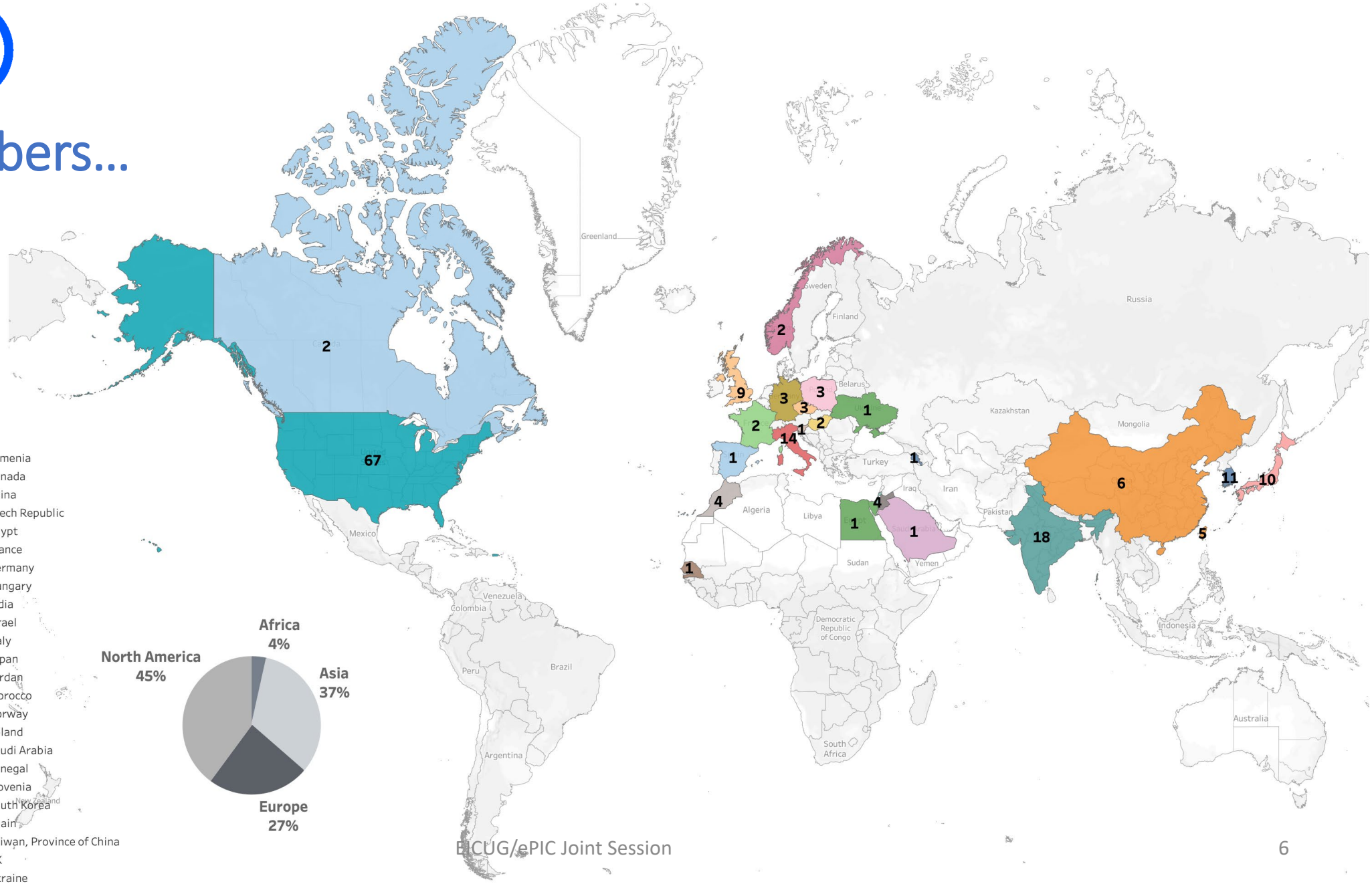
Currently:
>850 collaborators (from 2024 Institutional Survey)

>650 members active in ePIC activities

ePIC Institutions
173

ePIC Countries
25

ePIC World Region
4



- Armenia
- Canada
- China
- Czech Republic
- Egypt
- France
- Germany
- Hungary
- India
- Israel
- Italy
- Japan
- Jordan
- Morocco
- Norway
- Poland
- Saudi Arabia
- Senegal
- Slovenia
- South Korea
- Spain
- Taiwan, Province of China
- UK
- Ukraine

New Institutions Joining ePIC in 2024:

- Univ. of Texas at Austin
- Univ. Mohammed V in Rabat
- Univ. Ibn Tofail in Kénitra
- Univ. Mohammed Premier in Oujda
- Univ. Mohammed VI in Bengurir
- Kent State Univ.
- Laboratoire Leprince-Ringuet (LLR)
- American University in Cairo
- Central University of Haryana
- Indian Institute of Technology Mandi

Spain
Taiwan, Province of China
UK
Ukraine

New Institutions Joining ePIC in 2024:

- Univ. of Texas at Austin
- Kent State Univ.
- Univ. Mohammed VI in Bengurir
- Indian Institute of Technology Mandi

Two new petitions to join ePIC at Thursday's CC Meeting:

- University of Petroleum and Energy Studies (India)
- Tohoku University (Japan)

ePIC Collaboration Structure

Collaboration Council
Institutional R…t

Ernst Sichtermann: Past Chair
Bernd Surrow: Chair
Thomas Ullrich: Vice-Chair

Spokesperson's Office
Spokesperson (SP)
Deputies

EIC Project

Executive Board

Standing Committees
DE&I
Conferences and Talks
Membership
Elections
Publications

Te…rdinator

Softwa… Co… …nputing …SCC)

…s Coo… …r (AC)

Blue: New since last year

Technical Coordinator (Acting)
- Silvia Dalla Torre (INFN)

Deputy TC's:
Prakhar Garg (Yale)
Oskar Hartbrich (ORNL)
Matt Posik (Temple)

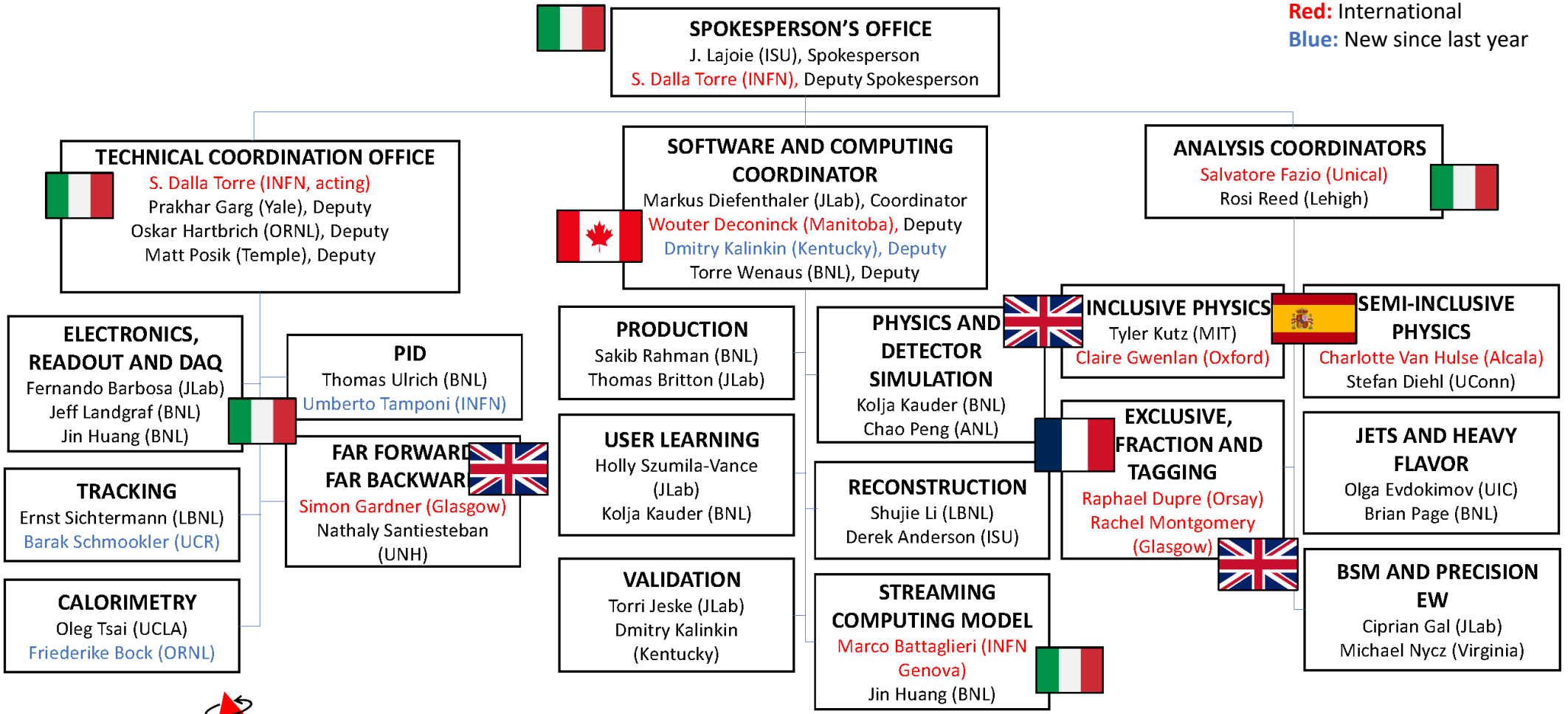
SCC Coordinator
- Markus Diefenthaler (JLab)

Dmitry Kalinkin
(Kentucky, Deputy SCC for Development)
Torre Wenaus
(BNL, Deputy SCC for Infrastructure)
Wouter Deconinck
(U. Manitoba, Deputy SCC for Operations)

Analysis Co-Coordinators
- Rosi Reed (Lehigh Univ.)
- Salvatore Fazio (Univ. Calabria)

ePIC Working Group Structure

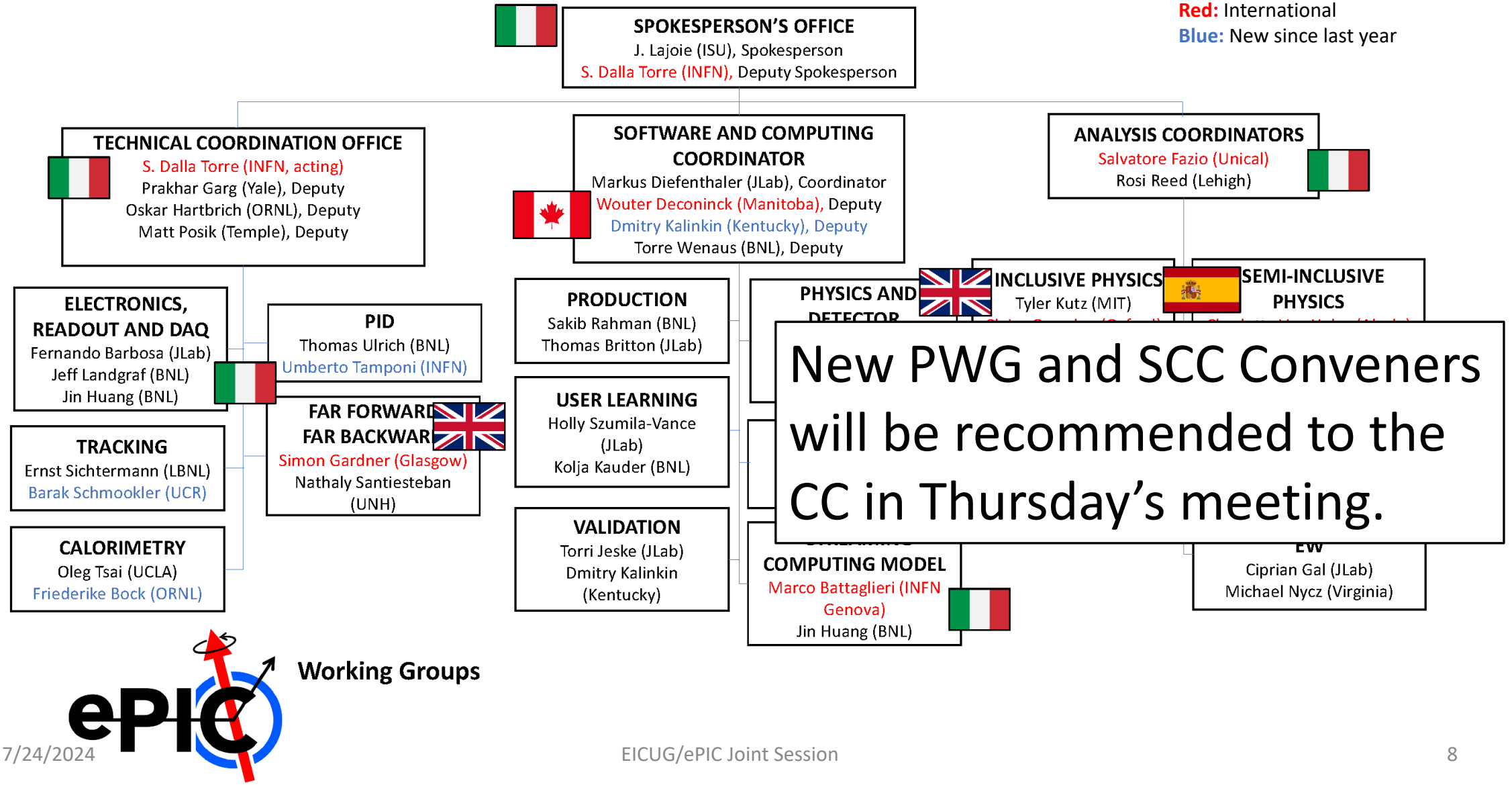
Red: International
Blue: New since last year



Working Groups

ePIC Working Group Structure

Red: International
Blue: New since last year



ePIC DSC Structure

Red: International
Blue: New since last year

SPOKESPERSON'S OFFICE
J. Lajoie (ORNL), Spokesperson
S. Dalla Torre (INFN), Deputy Spokesperson

TECHNICAL COORDINATION OFFICE
Silvia Dalla Torre (INFN, acting)
Prakhar Garg (Yale), Deputy
Oskar Hartbrich (ORNL), Deputy
Matt Posik (Temple), Deputy

Detector Subsystem Collaborations

Particle Identification

dRICH
DSL/DSTC: Marco Contalbrigo (INFN)

hpDIRC
DSL/DSTC: Greg Kalicy (CUA)

BACKWARD RICH
DSL/DSTC: Alexander Kiselev (BNL)
Deputy DSL: Brian Page (BNL)

AC-LGAD TOF
DSL: Zhangbu Xu (Kent State)
Deputy DSL: Satoshi Yano (Hiroshima)

Calorimetry

BARREL ECAL
Co-DSL: Sylvester Joosten (ANL)
Co-DSL: Hwidong Yoo (Yonsei)
Deputy DSL: Maria Zurek (ANL)
DSTC (Si): Jessica Metcalfe (ANL)
DSTC (SciFi/Pb): Zisis Papandreou (Regina)

BACKWARDS HCAL
DSL/DSTC: Leszek Kosarzewski (OSU)

FORWARD HCAL
DSL/DSTC: Friederike Bock (ORNL)
Deputy DSL/DSTC: Miguel Arratia (UCR)

BACKWARDS ECAL
DSL: Tanja Horn (CUA)
DSTC: Carlos Munhoz Camacho (IJCLab)

BARREL HCAL
Co-DSL: Stefan Bathe (Baruch)
Co-DSL: Megan Connors (GSU)

FORWARD ECAL
Co-DSL/DSTC: Oleg Tsai (UCLA)
Co-DSL: Huan Huang (UCLA)

Far-Forward Far-Backward

FAR FORWARD
DSL: Alex Jentsch (BNL)
DSTC (B0): Zvi Citron (Ben-Gurion)
DSTC (Roman Pots/OMD): Alex Jentsch (BNL)
Co-DSTC (ZDC): Yuji Goto (RIKEN)
Co-DSTC (ZDC): Miguel Arratia (UCR)

FAR BACKWARD HIGH RATE TRACKER
DSL: Jaroslav Adam (CTU)
DSTC: Simon Gardner (Glasgow)

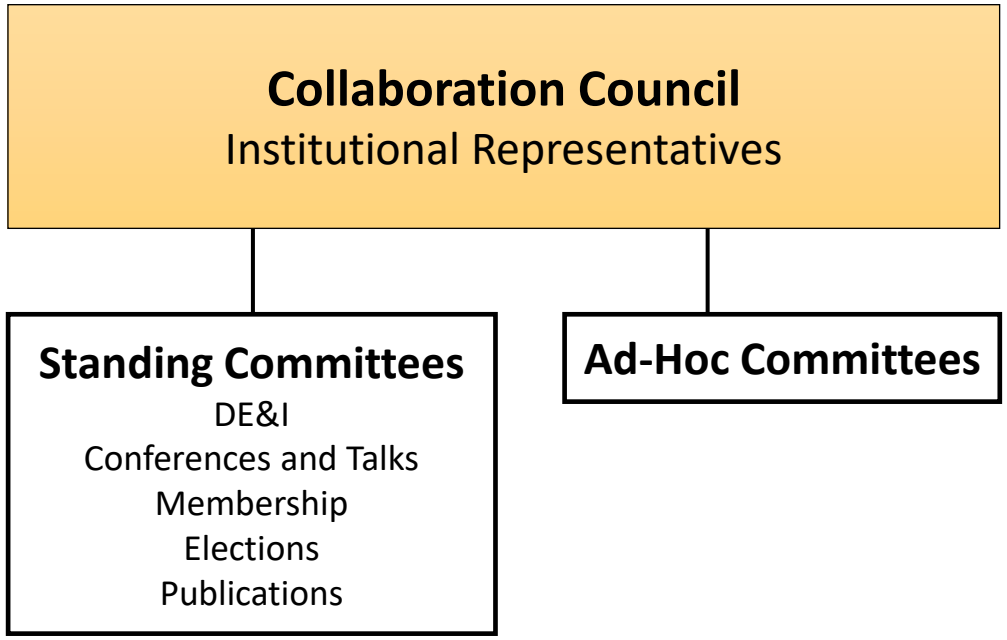
LUMINOSITY
Co-DSL: Nick Zachariou (York)
Co-DSL: Krzysztof Piotrzkowski (AGH Krakow)
DSTC (Pair Spectr.): Dhevan Gangadharan (Houston)

Tracking

Si TRACKERS
DSL: Ernst Sichtermann (LBL)
DSTC: Laura Gonella (Birmingham)

GASEOUS TRACKERS
DSL: Kondo Gnanvo (JLab)
DSTC: Maxence Vendenbroucke (Saclay)

ePIC Committees



ePIC Committees

Collaboration Council
Institutional Representatives

Standing Committees
DE&I
Conferences and Talks
Membership
Elections
Publications

Ad-Hoc Committees

DE&I Committee:
Chair: Megan Connors (GSU)
Vice-Chair: Christine Nattrass (UTK)
Francesco Bossù (CEA-Saclay), Wouter Deconinck (University of Manitoba), Narbe Kalantarians (Virginia Union University) , Iris Ponce Pinto (Yale University) , Maya Shimomura (Nara Women's University) , Allison Zec (University of New Hampshire)

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Maya
(Unive

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Vice-Chair: Brian Page (BNL)
Barbara Jacak (Berkeley), Daniel Brandenburg (OSU), Dmitry Kalinkin (Kentucky), Nick Zachariou (York), Xuan Li (LANL), Nicola Rubini (Bologna), Wouter Deconinck (Manitoba)

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Barba
Kalink
Nicola

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Niccola

Elections Committee:
Chair: Helen Caines (Yale)
Vice-Chair: Ken Barish (UCR)
Past-Chair: John Arrington (LBNL)
Maria Stefaniak (OSU), Domenico Elia (INFN)

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Vice-C
Past-C
Maria S

Publications Committee:
Chair: Rene Bellwied (U. Houston)
Vice –Chair: Annalisa Mastroserio (INFN Bari)
Lokesh Kumar (Panjab U.), Michela Chiosso (Torino), Prithwish Tribedy (BNL), Markus Diefenthaler (JLab), Sevil Salur (Rutgers),
ex-officio w. Conferences and Talks Committee:
Daniel Brandenburg (OSU)

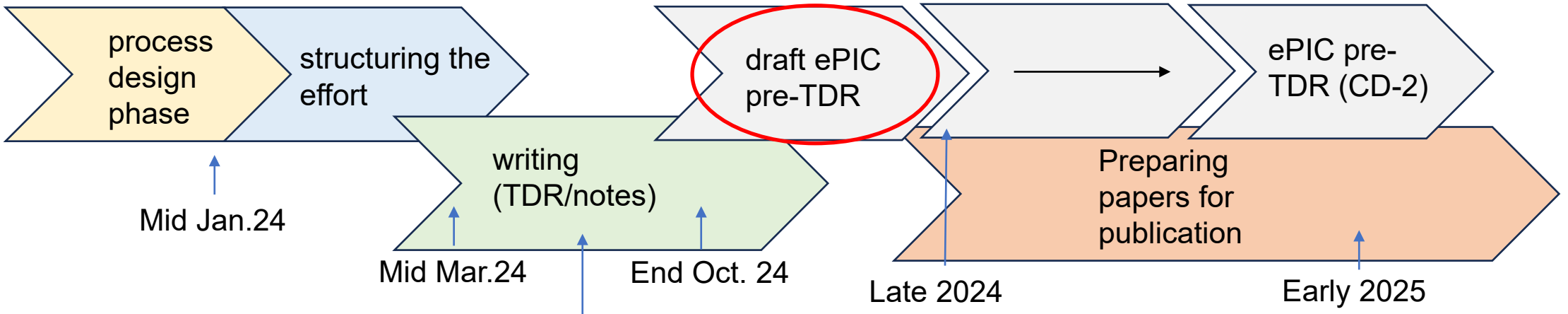
All ePIC Standing Committees now formed and at work.

Voting underway to ratify ePIC Membership policy.
Drafting of Conf. and Talks, Code of Conduct, and Publication Policy underway.

Reports in Thursday's CC Meeting.

TDR/Publication Timeline

Executing the plan from the Jan. 2024 Collaboration Meeting:



Putting the tools in place:

- ✓ Overleaf/Github for TDR
- ✓ zenodo.org selected as document database solution

Silvia's talk today/Thurs – many thanks to Doug Higinbotham, Anil Panta, and Rolf!

Discussed in June 14th GM

TDR/Publication Timeline

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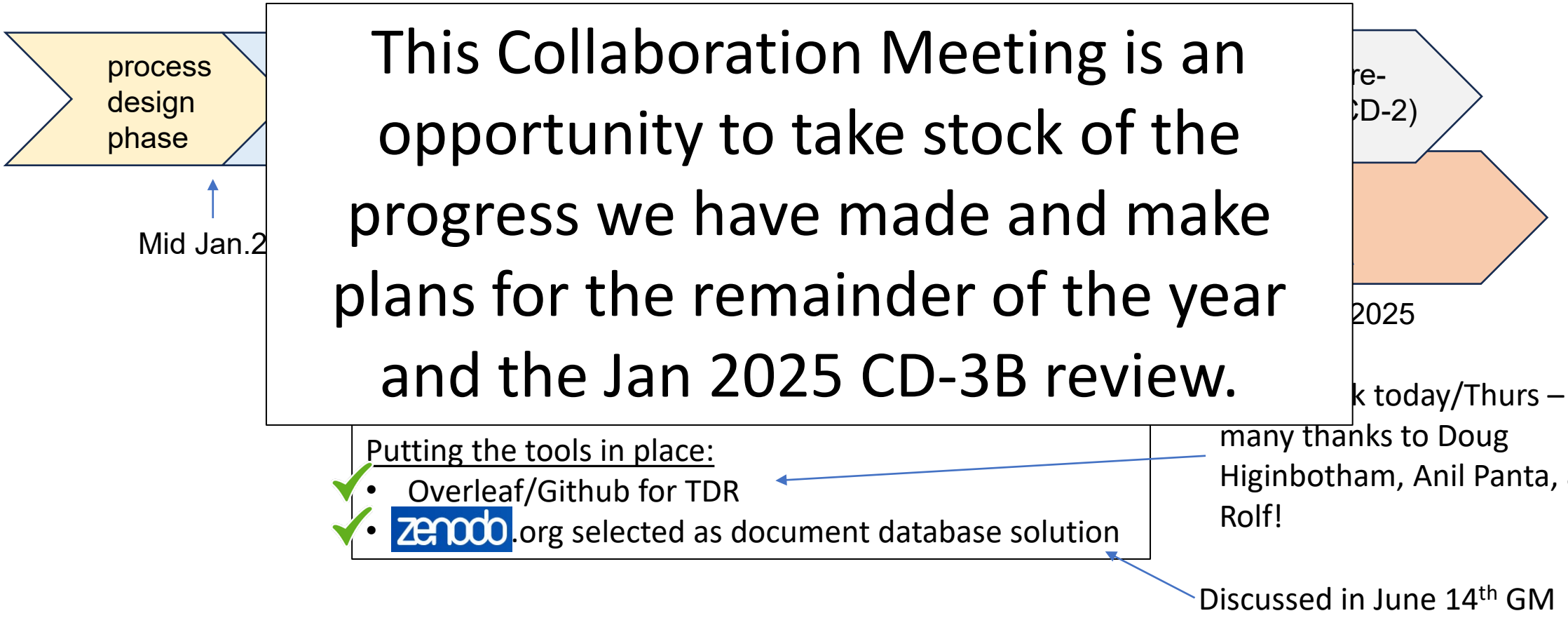
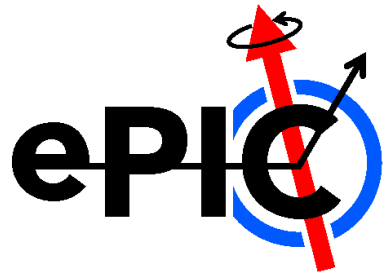


The Three Pillars of ePIC



- **Technical Coordination**
  - Develop technical design of ePIC
  - Support the ePIC TDR contributions
  - Facilitate technical communication with the EIC project

Silvia Dalla Torre
Prakhar Garg
Oskar Hartbrich
Matt Posik

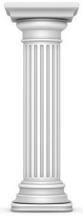
- **Software & Computing Coordination**
  - Software and simulation productions for TDR and beyond.
  - Onboarding via landing page and targeted tutorials.
  - Development of ePIC Streaming Computing Model.

Markus Diefenthaler
Wouter Deconinck
Dmitry Kalinkin
Torre Wenaus

- **Analysis Coordination**
  - Organizing physics “benchmark” plots for the TDR
  - Sets priorities for reconstruction development in conjunction with Software and Computing

Rosi Reed
Salvatore Fazio

The Three Pillars of ePIC



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See TC report immediately following this talk.

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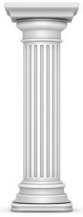
The Three Pillars of ePIC



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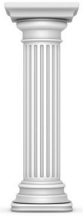

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Markus Diefenthaler
Wouter Deconinck
Dmitry Kalinkin
Torre Wenaus

See SCC report in Saturday's plenary session.

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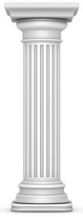
Rosi Reed
Salvatore Fazio

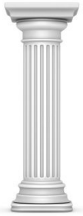
The Three Pillars of ePIC



- **Technical Coordination**
  - Develop technical design of ePIC
  - Support the ePIC TDR contributions
  - Facilitate technical communication with the EIC project

Silvia Dalla Torre
Prakhar Garg
Oskar Hartbrich
Matt Posik

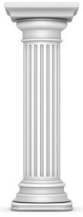
See TC report immediately following this talk.



- **Software & Computing Coordination**
  - Software and simulation productions for TDR and beyond.
  - Onboarding via landing page and targeted tutorials.
  - Development of ePIC Streaming Computing Model.

Markus Diefenthaler
Wouter Deconinck
Dmitry Kalinkin
Torre Wenaus

See SCC report in Saturday's plenary session.



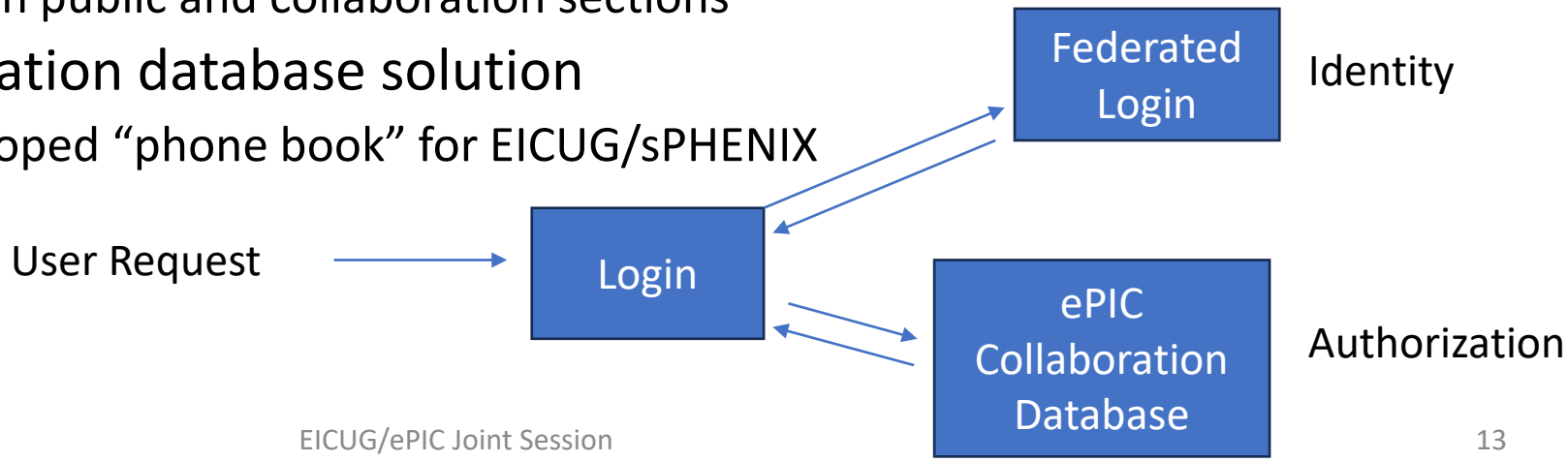
- **Analysis Coordination**
  - Organizing physics "benchmark" plots for the TDR
  - Sets priorities for reconstruction development in conjunction with Software and Computing

Rosi Reed
Salvatore Fazio

See AC report in Saturday's plenary session.

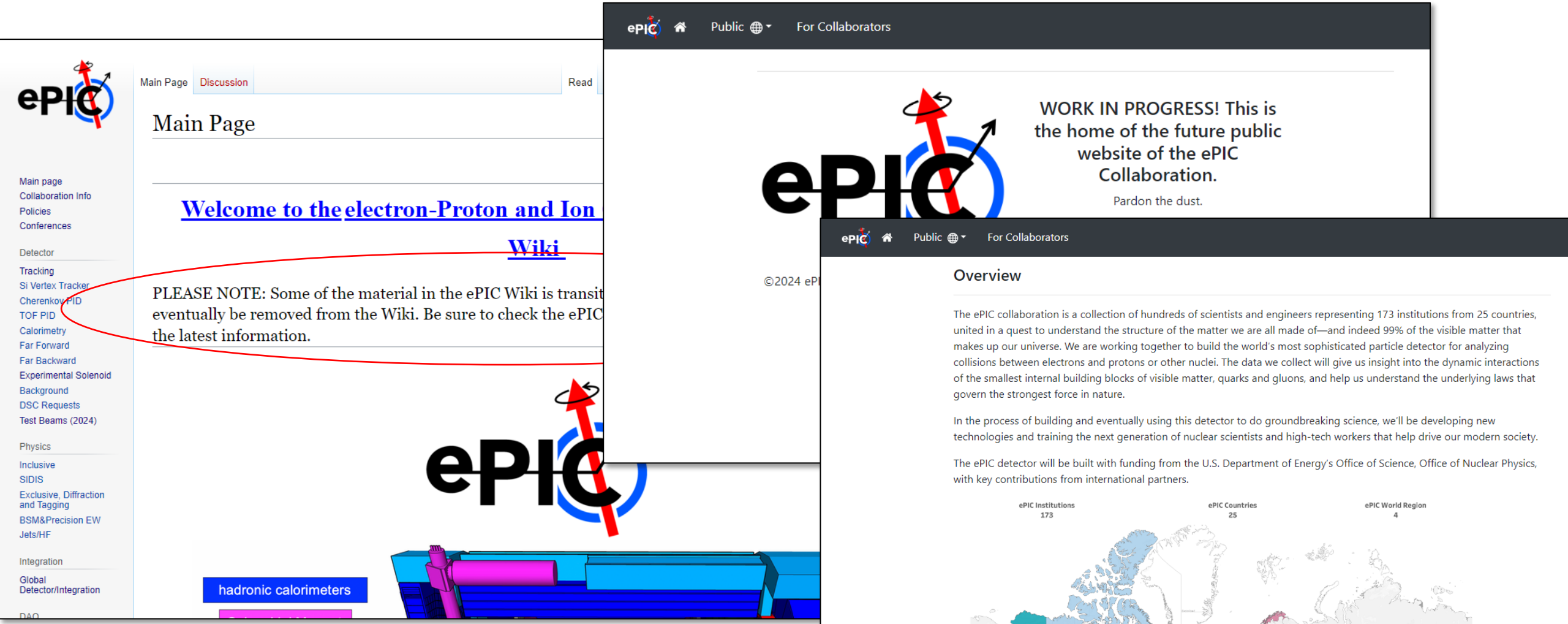
Collaborative Tools Development

- Ad-Hoc Committee working to put together the tools we will need to support the collaboration:
  - Mattermost and GitHub already in use
  - Overleaf available for TDR effort
  - Zenodo.org selected as document database solution
  - Website under development
    - ePIC has a page under the EIC Project BNL site
    - Push to develop both public and collaboration sections
  - Working on collaboration database solution
    - Based on BNL developed “phone book” for EICUG/sPHENIX



ePIC Website Progress

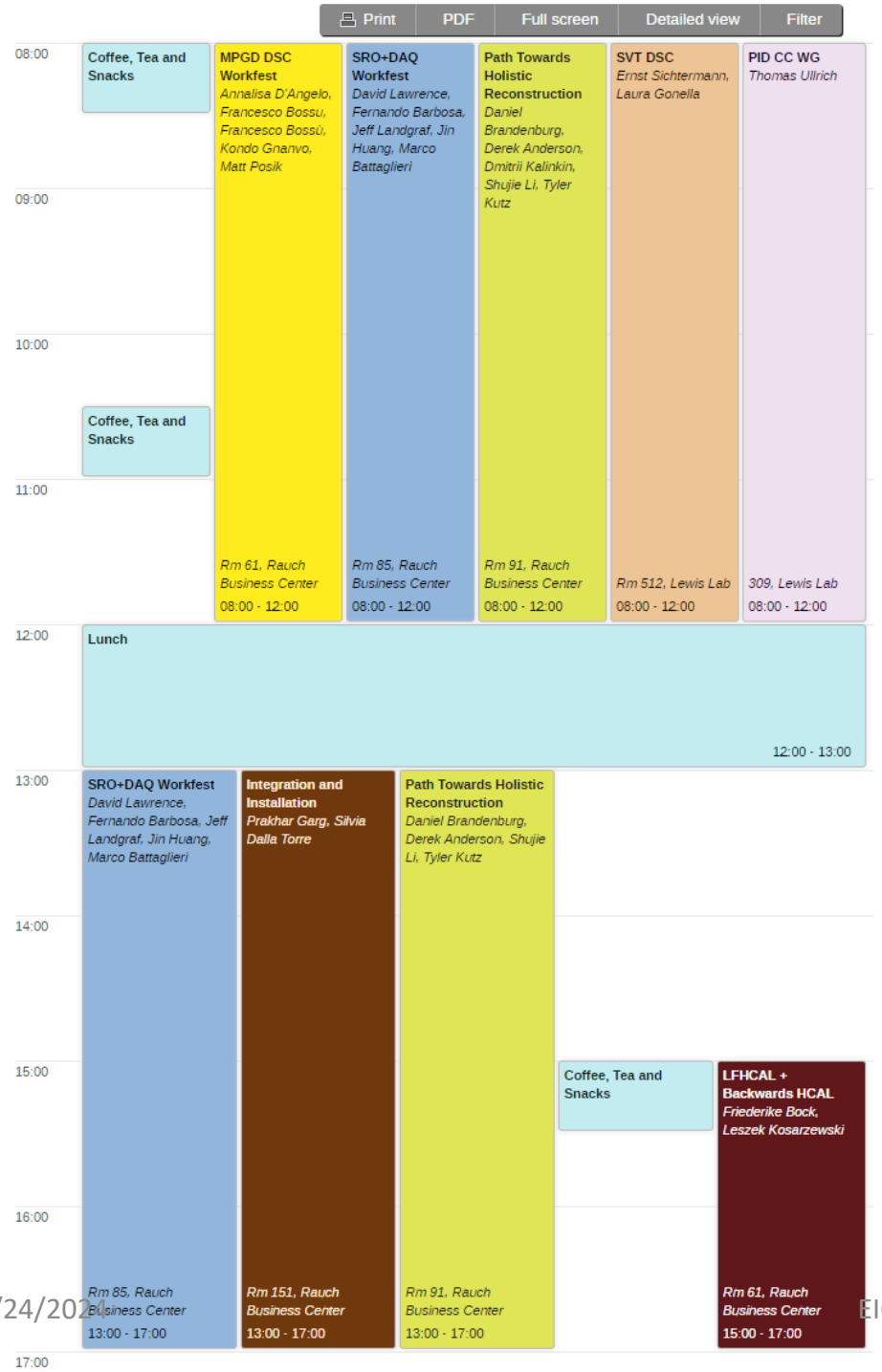
https://www.epic-eic.org/



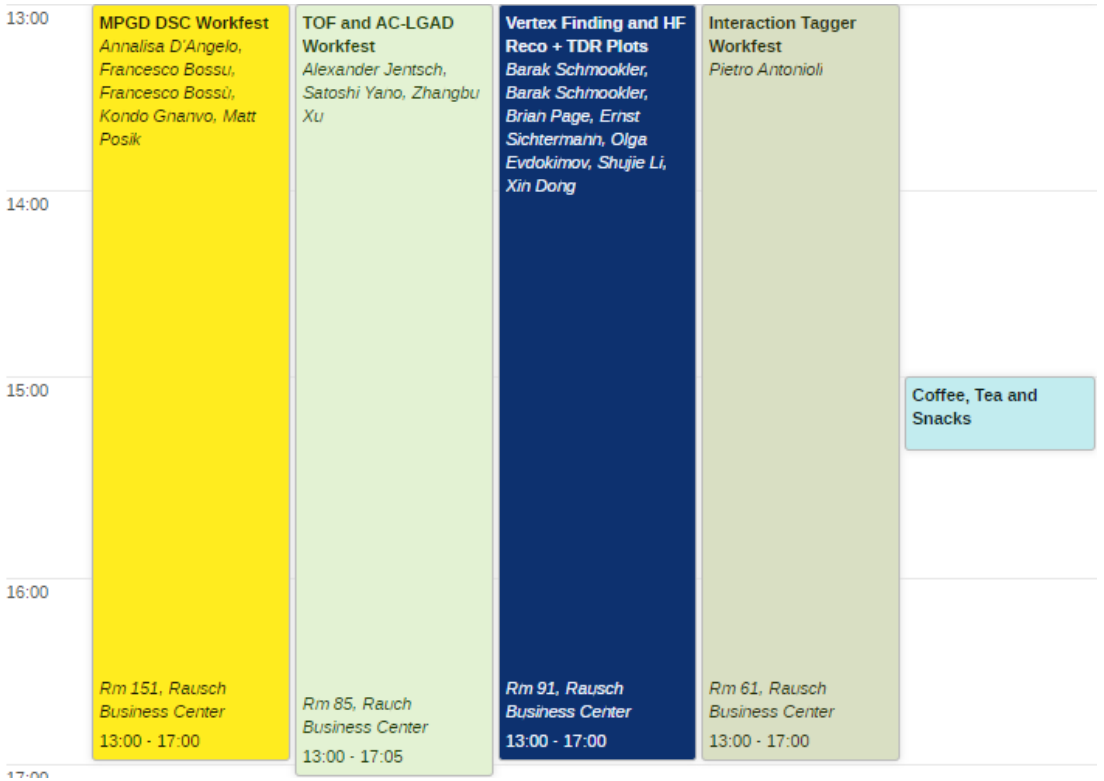
This Collaboration Meeting… Workfests!

Parallel session with summaries and strategy Sat. July 27th

Thursday, July 25th



Friday, July 26th

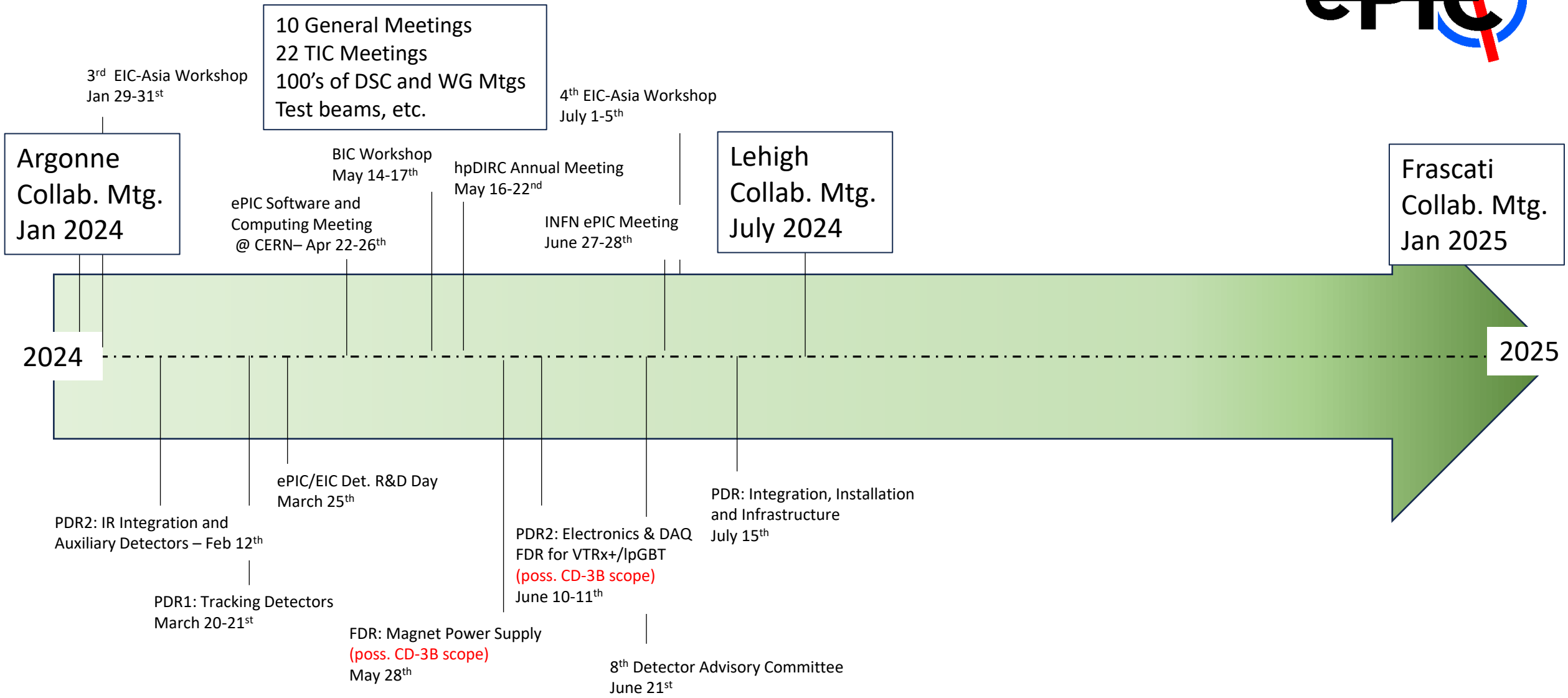


Saturday Plenary Session

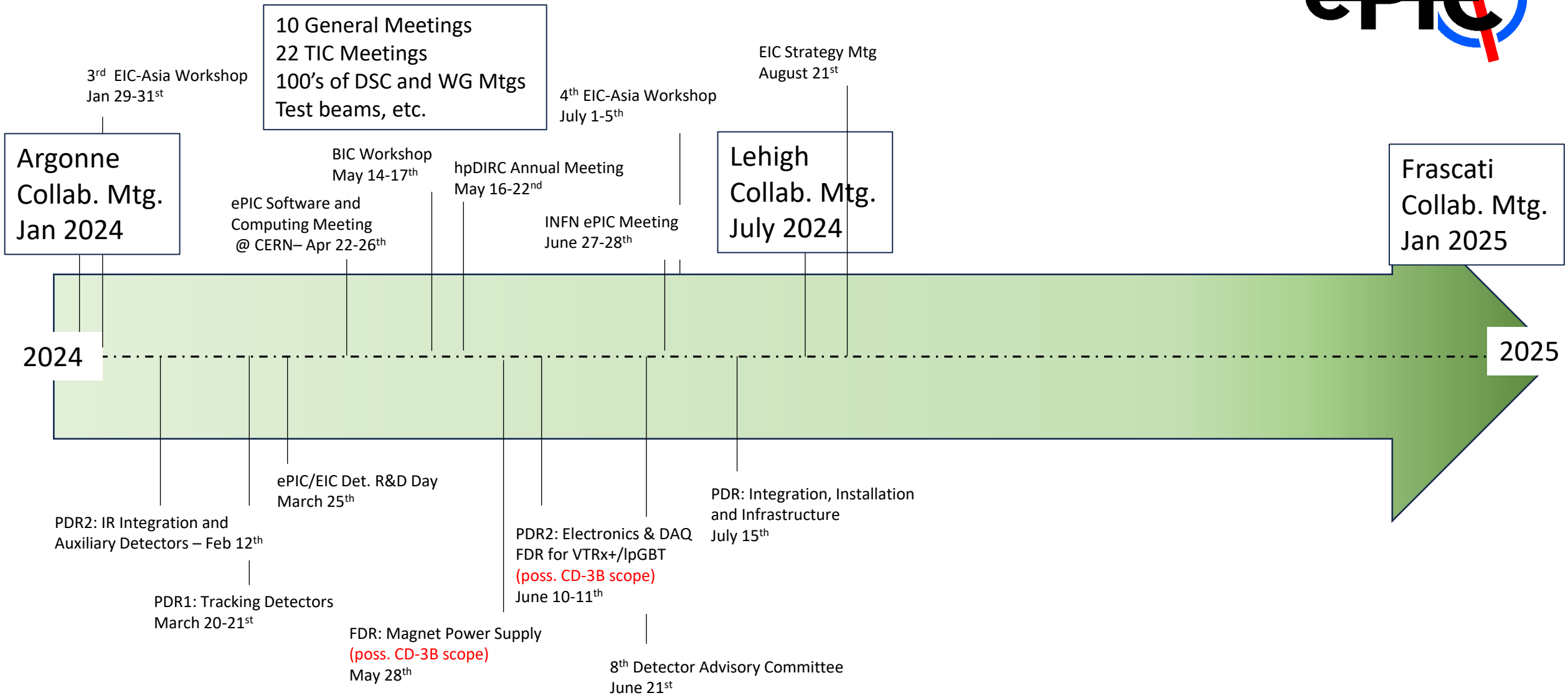
08:00	**Draft pre-TDR Progress Report and Technical Publication Strategy**	*Silvia Dalla Torre* 08:00 - 08:30
	Software and Computing Coordinator Report and Publication Strategy	*Markus Diefenthaler* 08:30 - 09:00
09:00	**Analysis Coordinators Report and Physics Publication Strategy**	09:00 - 09:30
	Discussion - ePIC preTDR and Publication Strategy	09:30 - 10:00
10:00	**Coffee Break**	10:00 - 10:20
	SRO+DAQ Workfest Report + CC WG Report	*David Lawrence et al.* 10:20 - 11:00
11:00	**Self-Proposed Contributions**	11:00 - 12:00

13:00	**Integration and Installation Workfest Report**	*Prakhar Garg* 13:00 - 13:20
	MPGD DSC Workfest Report	*Annalisa D'Angelo et al.* 13:20 - 13:40
	TOF & AC-LGAD Workfest Report	*Alexander Jentsch et al.* 13:40 - 14:00
14:00	**SVT DSC Workfest Report**	*Ernst Sichtermann et al.* 14:00 - 14:20
	LFHCAL + Backwards HCAL Workfest Report	*Friederike Bock et al.* 14:20 - 14:40
	Coffee Break	14:40 - 15:10
15:00	**ePIC Early Career Activities**	*Aranya Giri et al.* 15:10 - 15:30
	PID CC WG Workfest Report	*Thomas Ullrich* 15:30 - 15:50
	Electron ID & Reconstruction + Path Towards Holistic Reco. Workfest Report	*Daniel Brandenburg et al.* 15:50 - 16:10
16:00	**Interaction Tagger Workfest Report**	*Pietro Antonioli* 16:10 - 16:30
	Vertex Finding and HF Reco. + TDR Plots for Vertex and Reco. Workfest Report	*Barak Schmookler et al.* 16:30 - 16:50
	Closing Remarks	*John Lajoie* 16:50 - 17:10
17:00		

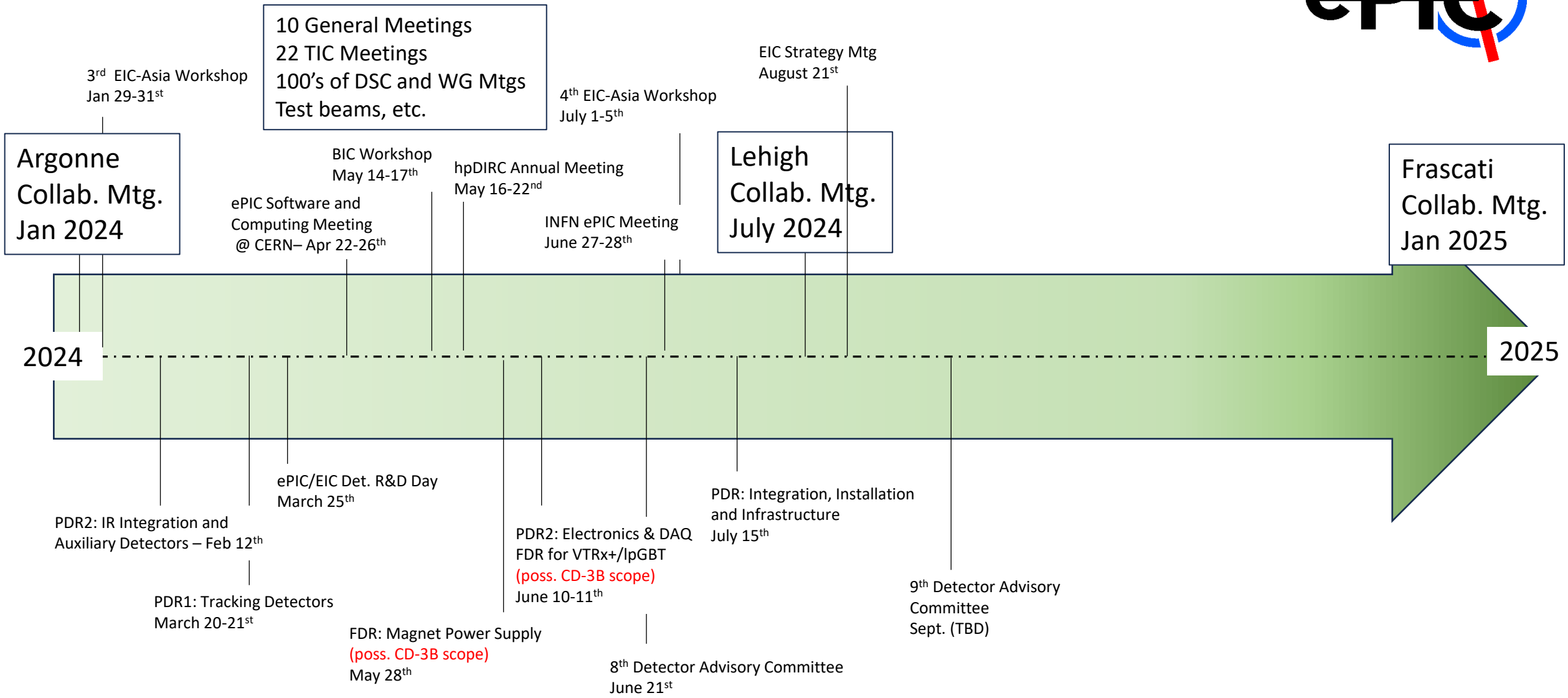
From there to here 2024…to 2025



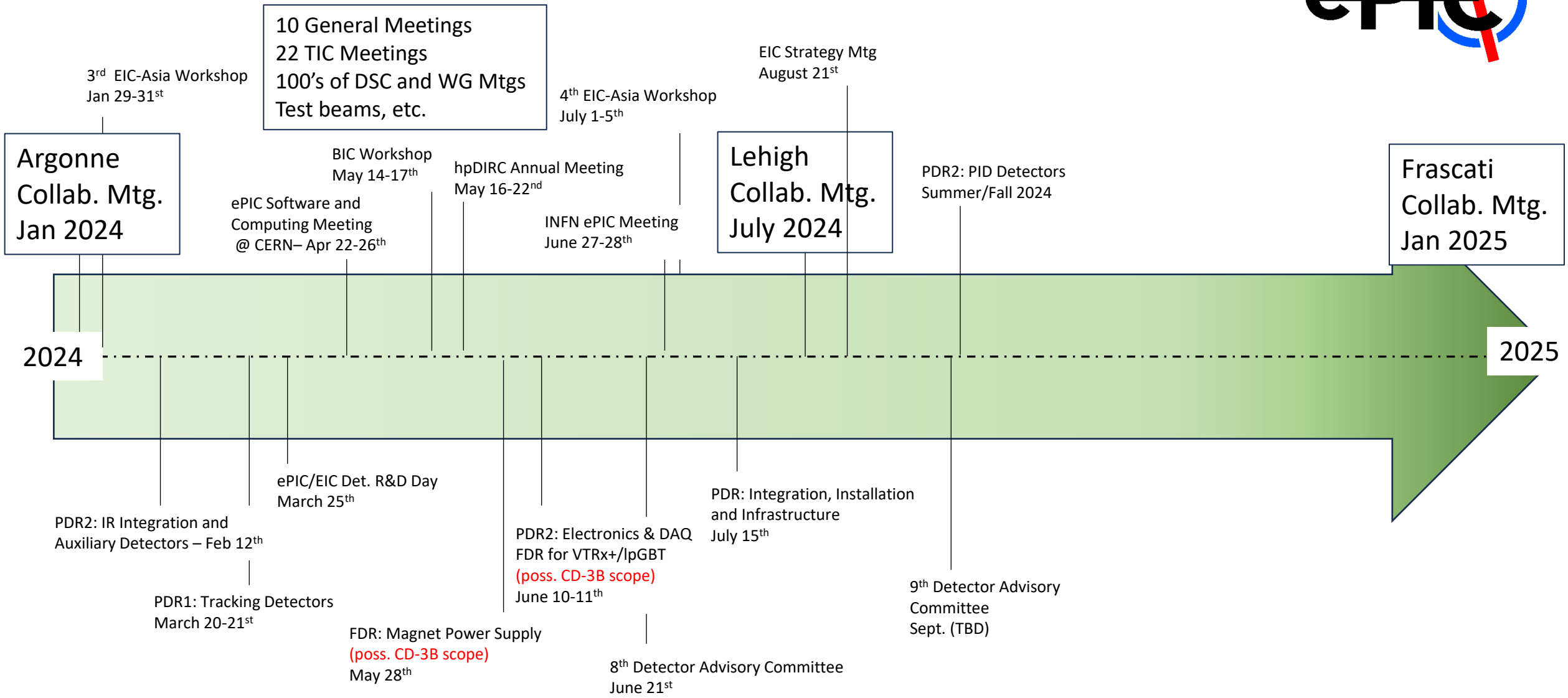
From there to here 2024…to 2025



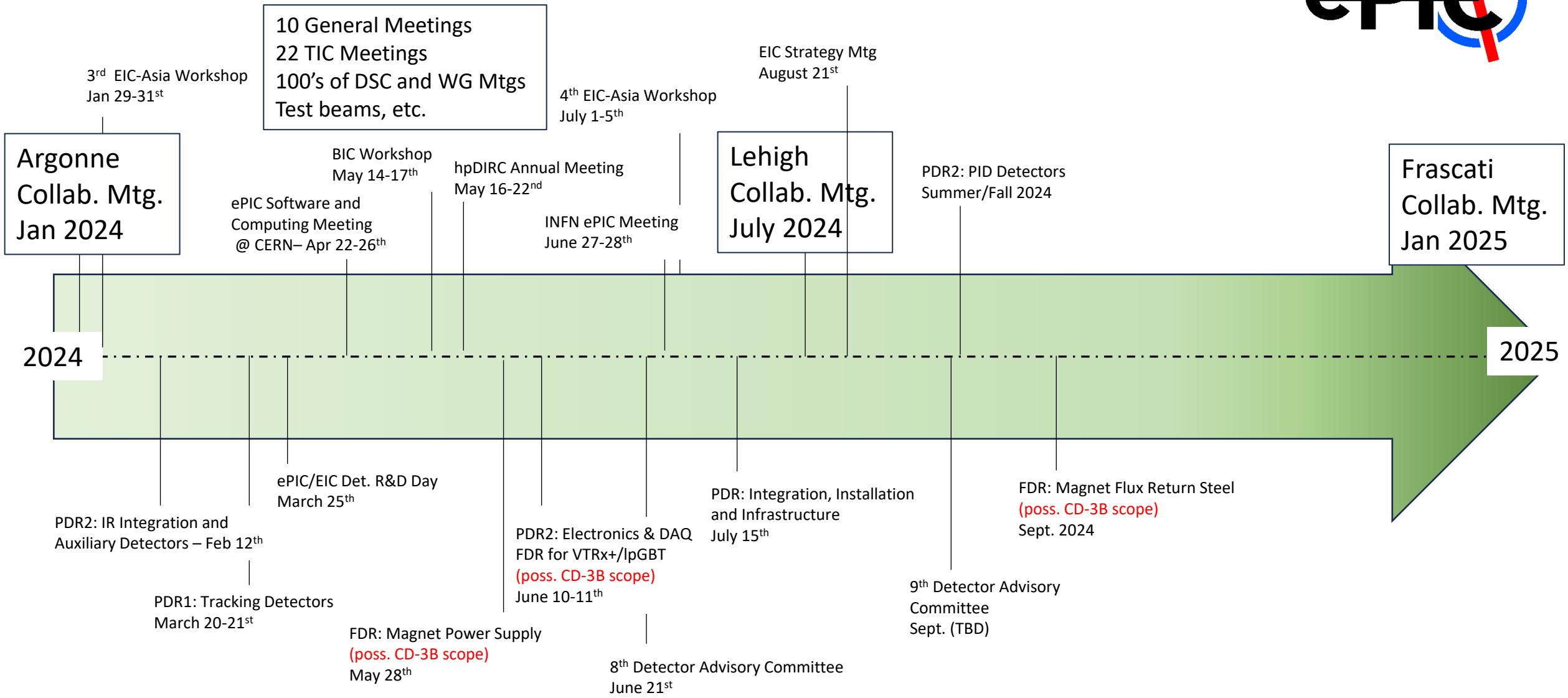
From there to here 2024…to 2025



From there to here 2024…to 2025



From there to here 2024…to 2025



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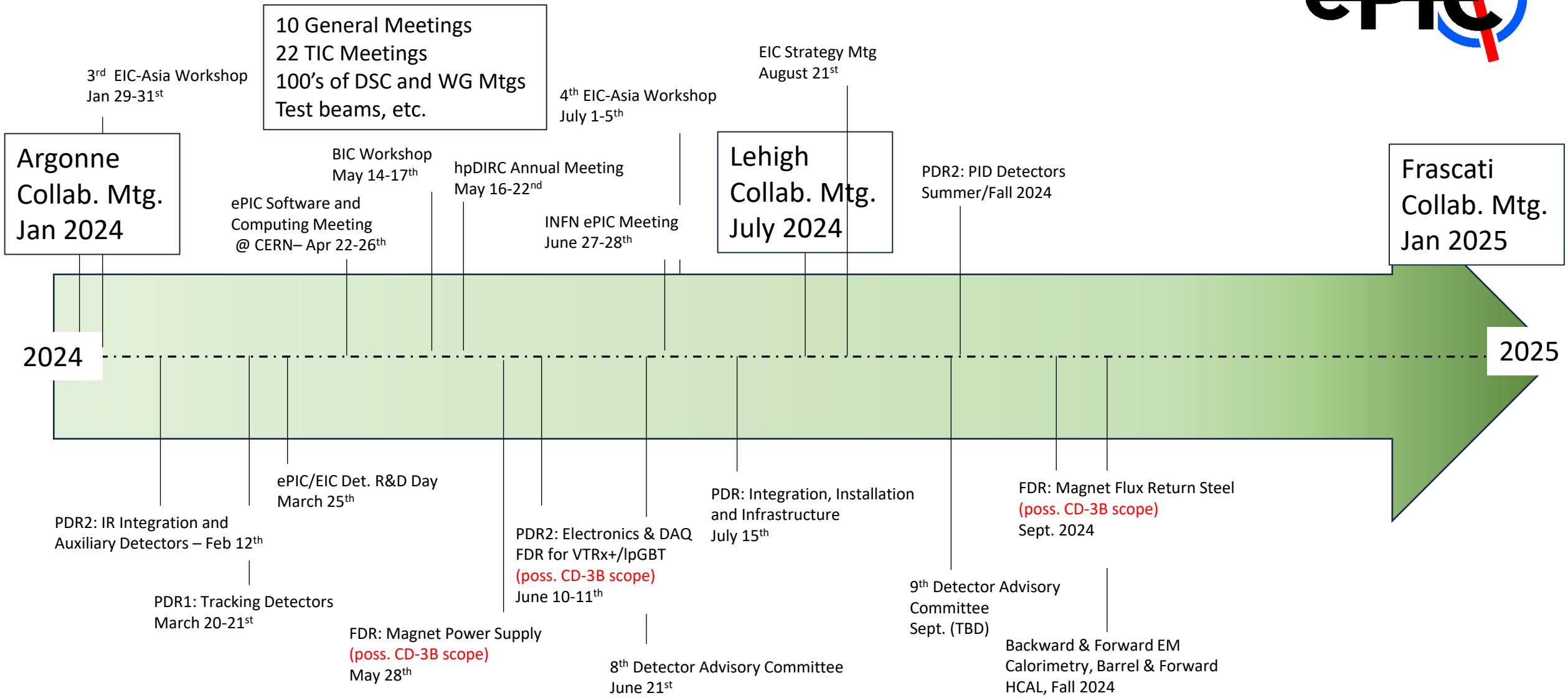

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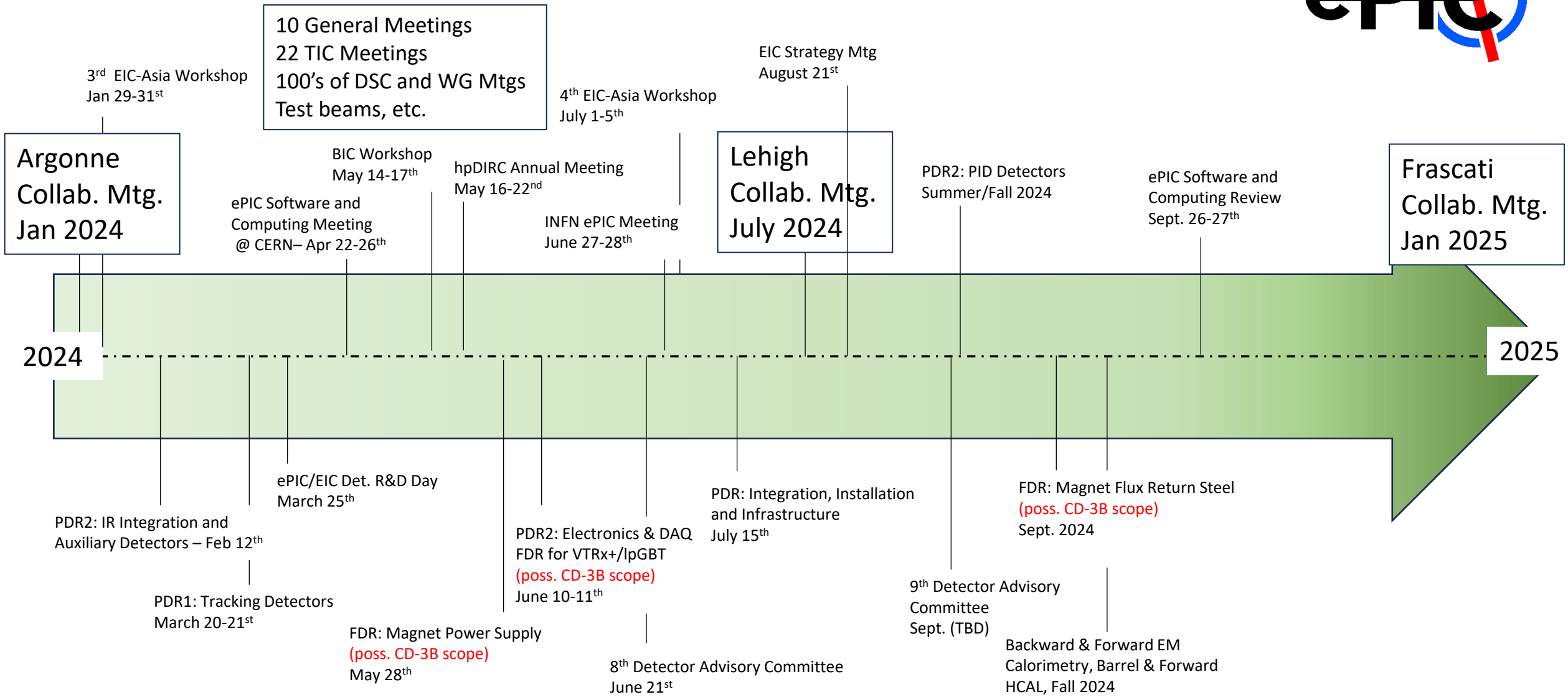

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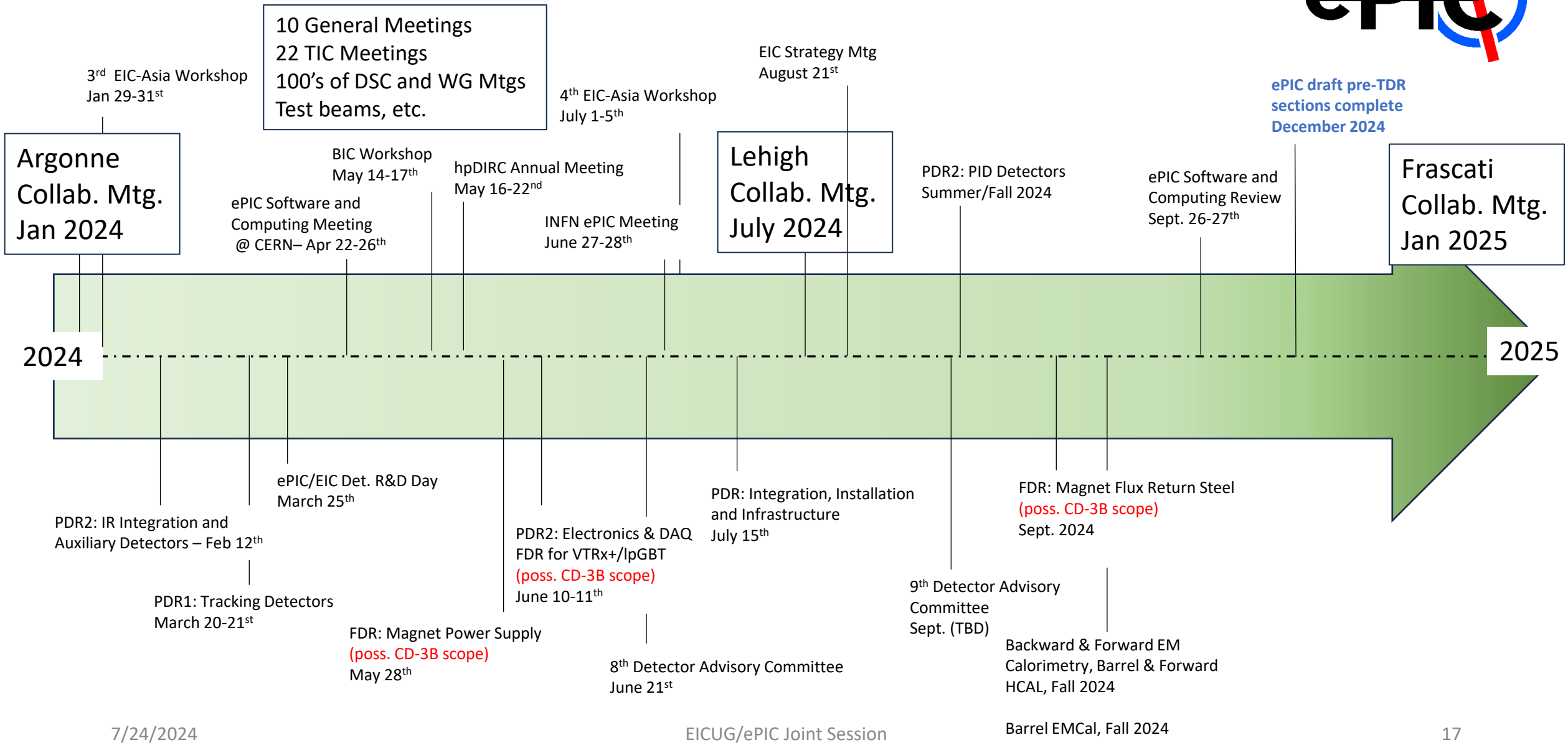
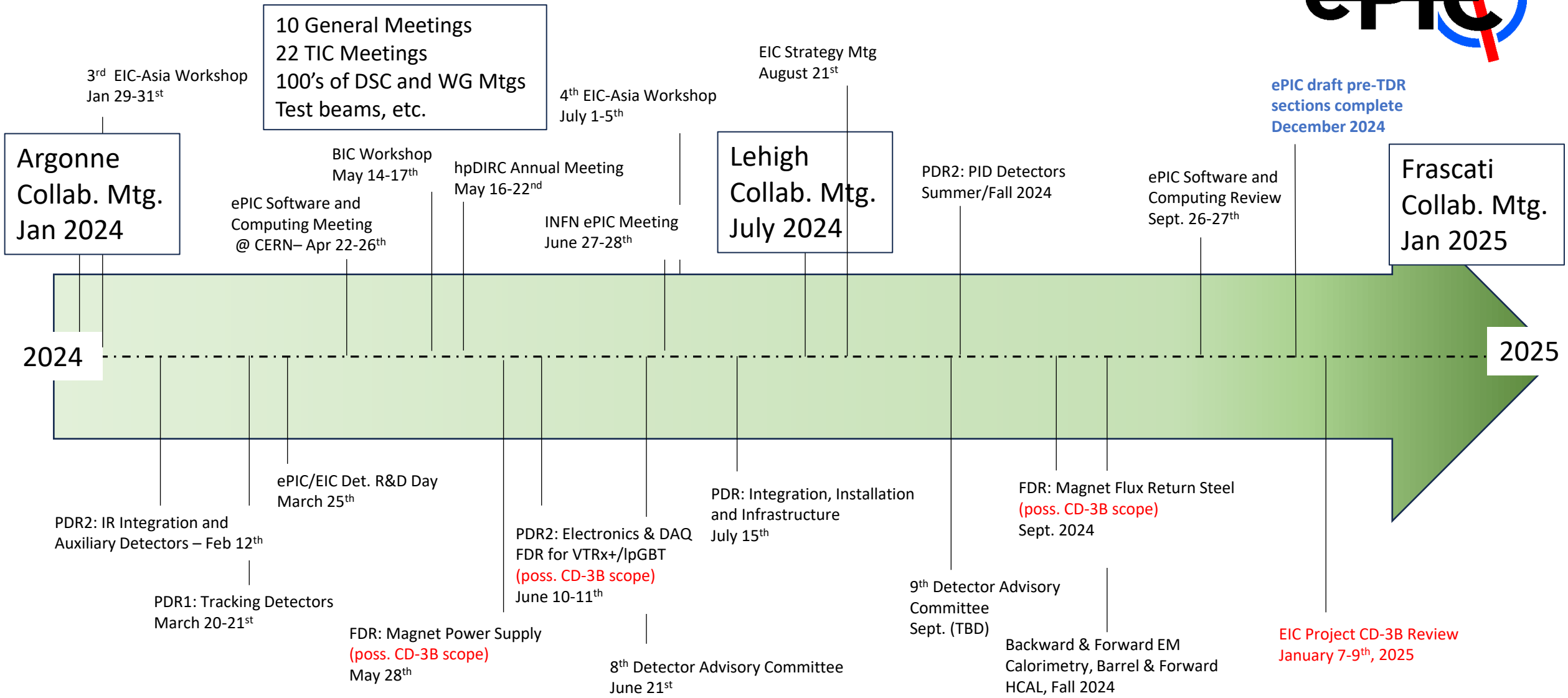
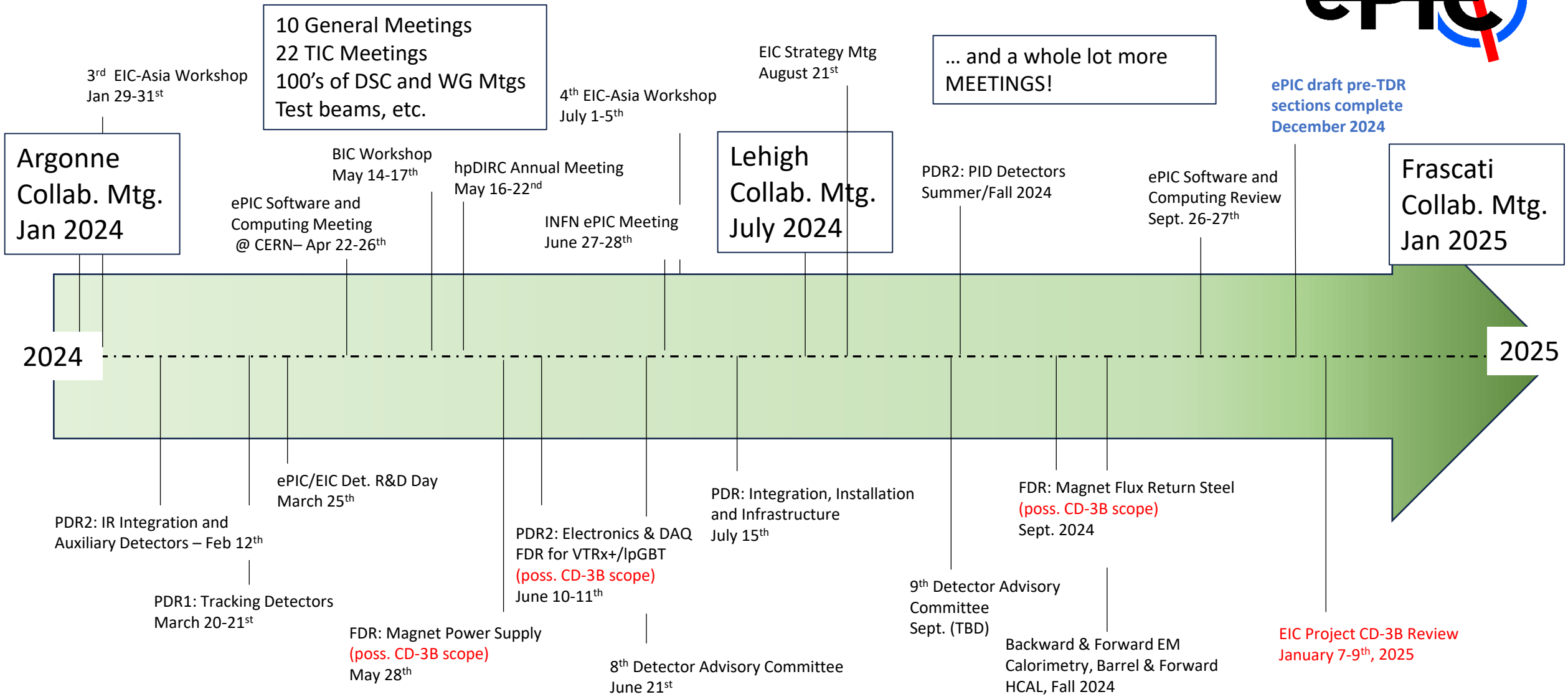


From there to here 2024…to 2025



From there to here 2024…to 2025



From there to here 2024…to 2025

10 General Meetings
22 TIC Meetings
100's of DSC and WG Mtgs
Test beams, etc.

… and a whole lot more MEETINGS!

3rd EIC-Asia Workshop
Jan 29-31st

Argonne Collab. Mtg. Jan 2024

BIC
May

ePIC Software and
Computing Meetin
@ CERN– Apr 22-2

4th EIC-Asia Workshop
July 1-5th

EIC Strategy Mtg
August 21st

ePIC draft pre-TDR sections complete December 2024

ePIC Software and Computing Review
Sept. 26-27th

Frascati Collab. Mtg. Jan 2025

2024

2025

ePIC/EIC De
March 25th

PDR2: IR Integration and Auxiliary Detectors – Feb 12th

PDR1: Tracking Detectors
March 20-21st

Return Steel
e)

FD
(poss. CD-3B scope)
May 28th

8th Detector Advisory Committee
June 21st

d EM
Calorimetry, Barrel & Forward HCAL, Fall 2024

Barrel EMCal, Fall 2024

EIC Project CD-3B Review
January 7-9th, 2025

Challenges

- The ePIC Collaboration needs to continue to engage more of its membership in ePIC activities.

- The ePIC Collaboration needs to engage more of the NP community both in the US and internationally.

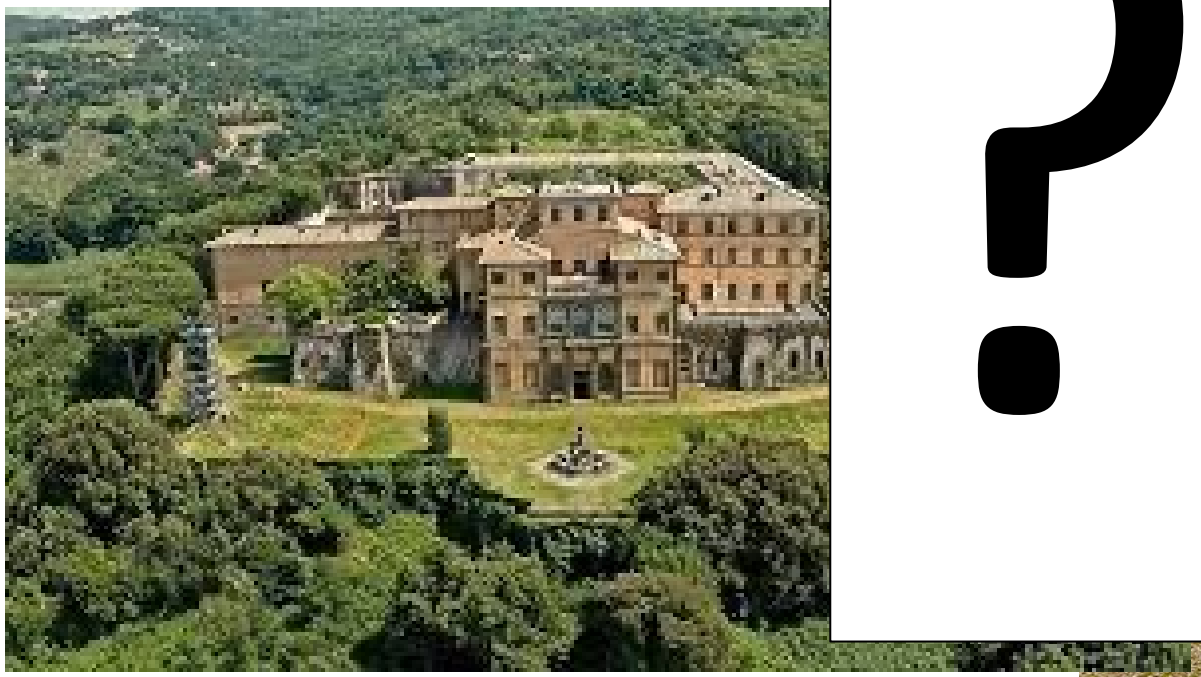
- The availability of EIC research support for university and lab groups is a major concern
  - Will continue to work with the EICUG to communicate this to funding agencies

Jan 2025 Collaboration Meeting

- University of Rome Tor Vergata & INFN
  - January 20-24th, 2025
  - Via Frascati (Roman Hills)

Jan 2025 Collaboration Meeting

- University of Rome Tor Ve
  - January 20-24th, 2025
  - Via Frascati (Roman Hills)



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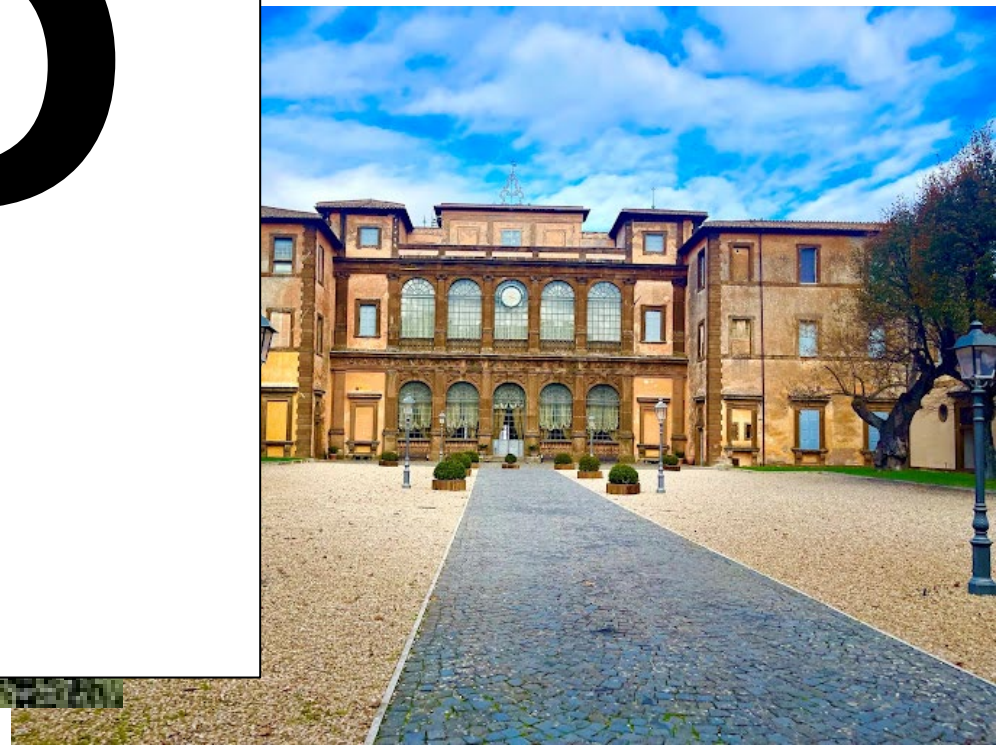
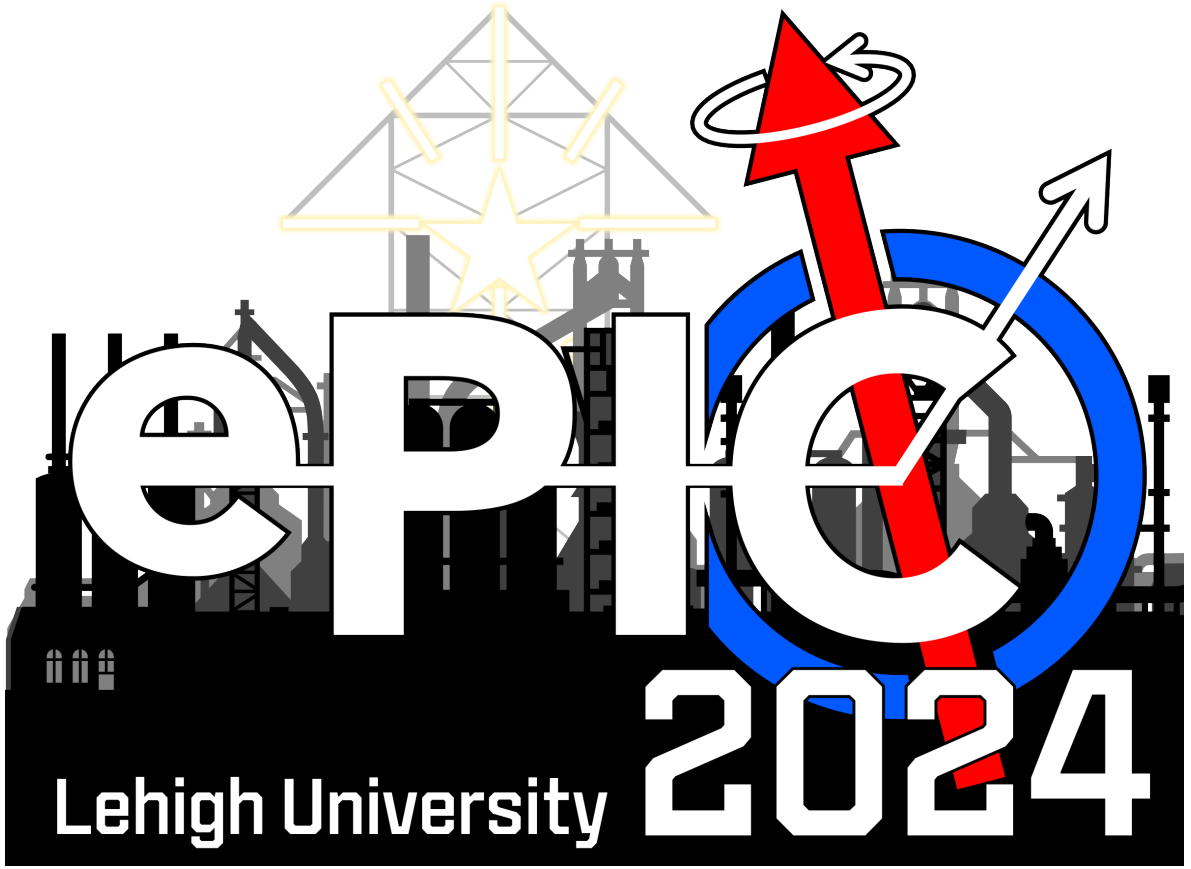


Stickers!

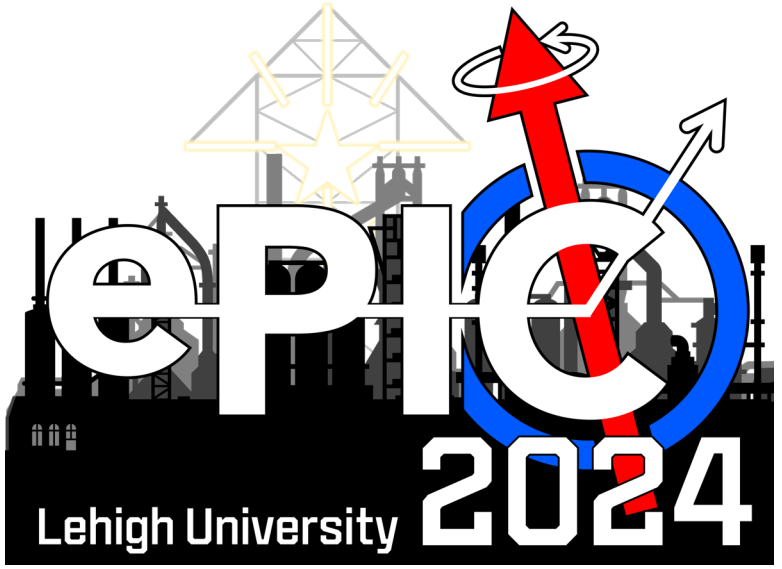


Once again, many thanks to Oskar Hartbrich!

Summary

- The ePIC Collaboration is strong and growing!
  - Mechanisms of collaboration are in place and being exercised
  - Establishing policies and procedures
  - Building the tools to support the collaboration
  - Working with the EIC Project to realize ePIC

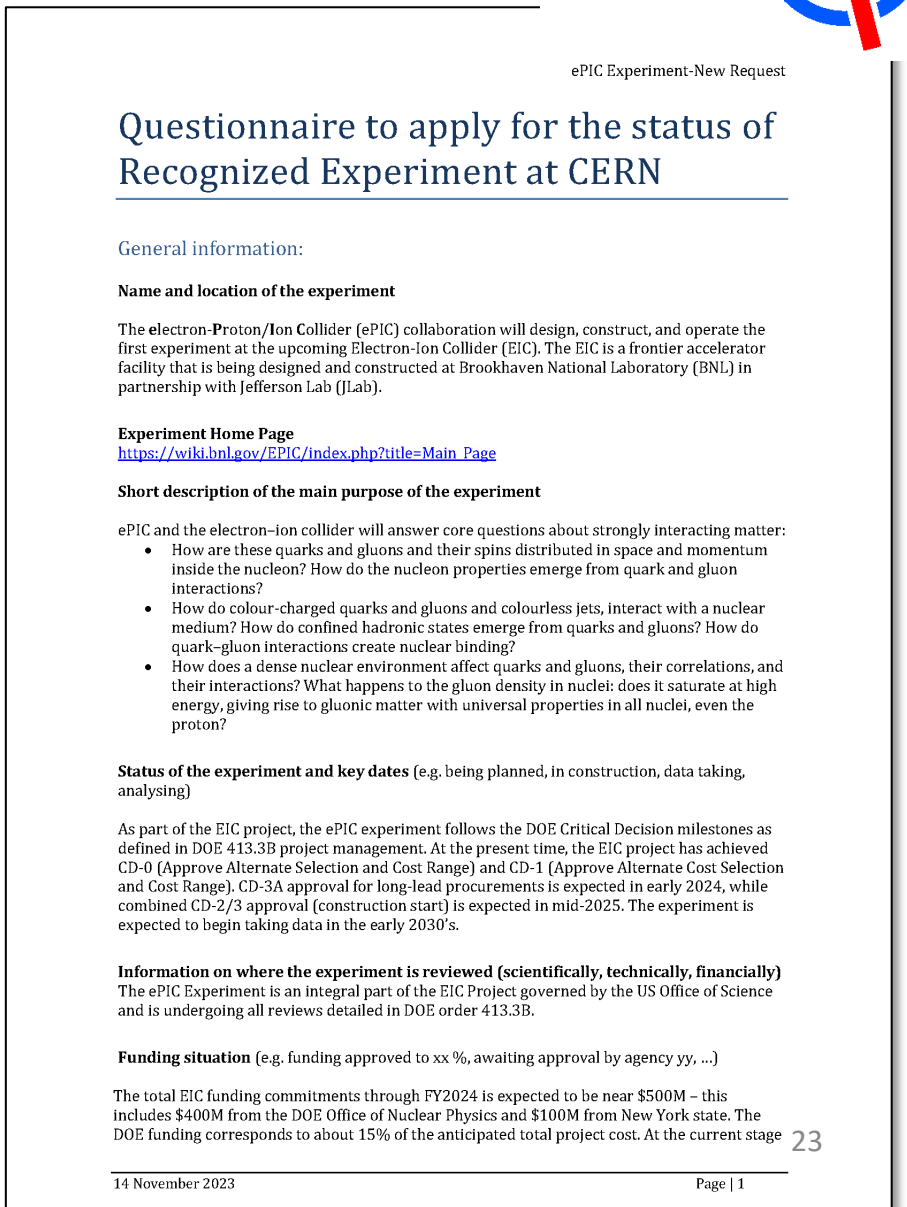
- ePIC is up to the challenges ahead:
  - Completing the technical design and TDR
  - Publishing first papers:
    - ePIC Design
    - Physics Performance
    - Software and Computing Model



BACK UP

CERN Recognized Experiment

- ePIC Application for CERN Recognized Experiment:
  - ePIC leadership has submitted an application to become a CERN Recognized Experiment
  - Strong synergies between CERN and EIC
  - Important for access to CERN resources (test beams, …)
  - Increase visibility in the European community
- ePIC presentation to CERN Recognized Experiments Committee (REC) Feb 8th
- Research Board confirmed the positive REC recommendation at CERN Council Meeting March 21-22nd
- Working with Helge Meinhard on next steps



ePIC Experiment-New Request

Questionnaire to apply for the status of Recognized Experiment at CERN

General information:

Name and location of the experiment

The **e**lectron-**P**roton/**I**on **C**ollider (ePIC) collaboration will design, construct, and operate the first experiment at the upcoming Electron-Ion Collider (EIC). The EIC is a frontier accelerator facility that is being designed and constructed at Brookhaven National Laboratory (BNL) in partnership with Jefferson Lab (JLab).

Experiment Home Page
https://wiki.bnl.gov/EPIC/index.php?title=Main_Page

Short description of the main purpose of the experiment

ePIC and the electron–ion collider will answer core questions about strongly interacting matter:

- How are these quarks and gluons and their spins distributed in space and momentum inside the nucleon? How do the nucleon properties emerge from quark and gluon interactions?
- How do colour-charged quarks and gluons and colourless jets, interact with a nuclear medium? How do confined hadronic states emerge from quarks and gluons? How do quark–gluon interactions create nuclear binding?
- How does a dense nuclear environment affect quarks and gluons, their correlations, and their interactions? What happens to the gluon density in nuclei: does it saturate at high energy, giving rise to gluonic matter with universal properties in all nuclei, even the proton?

Status of the experiment and key dates (e.g. being planned, in construction, data taking, analysing)

As part of the EIC project, the ePIC experiment follows the DOE Critical Decision milestones as defined in DOE 413.3B project management. At the present time, the EIC project has achieved CD-0 (Approve Alternate Selection and Cost Range) and CD-1 (Approve Alternate Cost Selection and Cost Range). CD-3A approval for long-lead procurements is expected in early 2024, while combined CD-2/3 approval (construction start) is expected in mid-2025. The experiment is expected to begin taking data in the early 2030's.

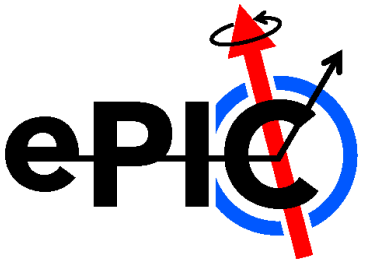
Information on where the experiment is reviewed (scientifically, technically, financially)
The ePIC Experiment is an integral part of the EIC Project governed by the US Office of Science and is undergoing all reviews detailed in DOE order 413.3B.

Funding situation (e.g. funding approved to xx %, awaiting approval by agency yy, …)

The total EIC funding commitments through FY2024 is expected to be near $500M – this includes $400M from the DOE Office of Nuclear Physics and $100M from New York state. The DOE funding corresponds to about 15% of the anticipated total project cost. At the current stage

14 November 2023 Page | 1

ePIC Resources



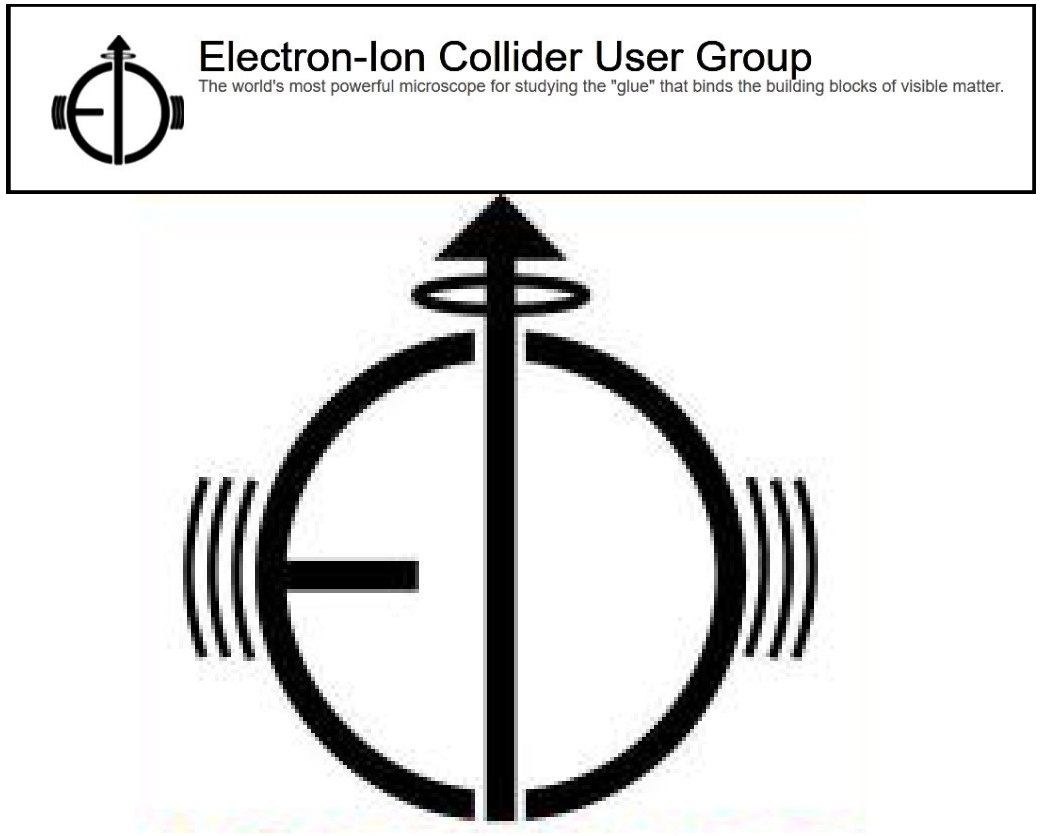
- Public Website - https://www.bnl.gov/eic/epic.php
- Mailing Lists – https://lists.bnl.gov/mailman/listinfo
- Indico Agenda - https://indico.bnl.gov/category/402/
  - ePIC Software and Computing: https://indico.bnl.gov/category/435/
- Wiki - https://wiki.bnl.gov/EPIC
- ePIC Software Training:
  - Landing Page: https://eic.github.io/documentation/landingpage.html
  - Tutorials: https://eic.github.io/documentation/tutorials.html
- Mattermost: https://chat.epic-eic.org
- ePIC Zenodo Community: https://zenodo.org/communities/epic

EICUG Membership

- The EICUG is a vital organization to promote the interests of the EIC community!
  - Without the EICUG we would never have gotten far enough to form ePIC!

- Please register your institution!
- Check with your EICUG IB representative to get registered as a member

- https://www.eicug.org/content/join.html

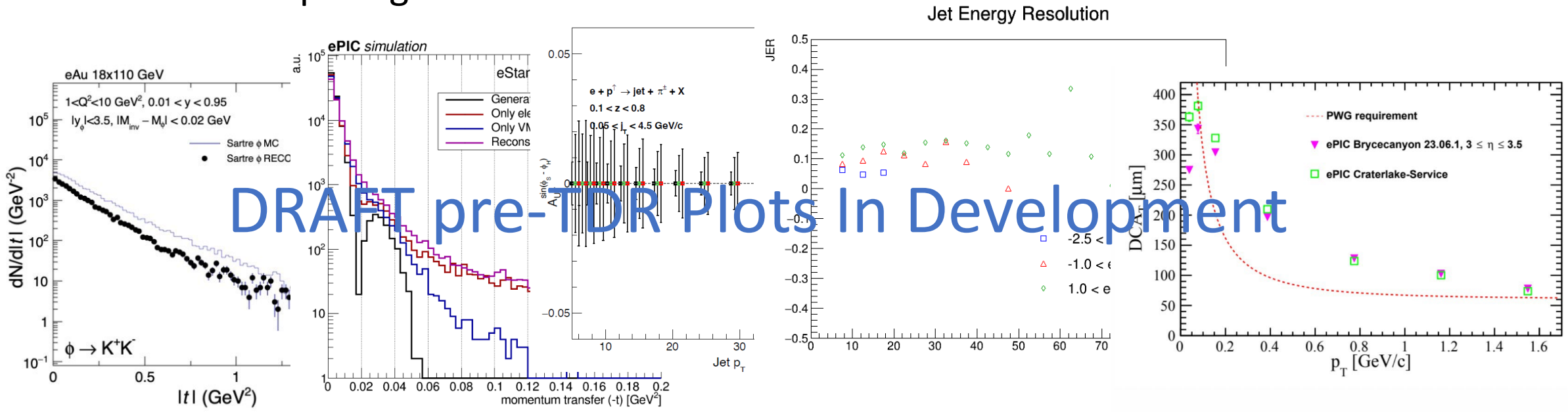


Workfest/Parallel Session Organizers

- MPGD DSC:
  - K. Gnanvo, F. Bossu, A. D'Angelo, M. Posik
- TOF and AC-LGAD:
  - Zhangbu Xu, Satoshi Yano and Alex Jentsch
- SRO + DAQ
  - Jeff, Marco, David, Fernando, Jin
- Integration and Installation:
  - TC Office (Prakhar Garg)
- Electron ID & Reconstruction + Path Towards Holistic Reco.
  - Daniel Brandenburg, Tyler Kutz, Derek Anderson, Dmitry Kalinkin, Shujie Li, Umberto Tamponi
- Vertex Finding and HF Reco.+ TDR Plots for Vertex and Reco.
  - Xin Dong, Olga Evdokimov, Brian Page, S. Li, B. Schmookler, E. Sichtermann
- SVT DSC:
  - E. Sichtermann
- PID CC WG:
  - Thomas Ullrich, Umberto Tamponi
- LFHCAL + Backwards HCAL/Hackathon
  - F. Bock, L. Kosarzewski

Analysis Coordination in ePIC

- Analysis Coordination is responsible for the simulations that demonstrate the ability of ePIC to do EIC science
  - A critical part of the TDR development process
  - Organizing physics “benchmark” plots for the TDR
  - Sets priorities for reconstruction development in conjunction with Software and Computing



DRAFT pre-TDR Plots In Development