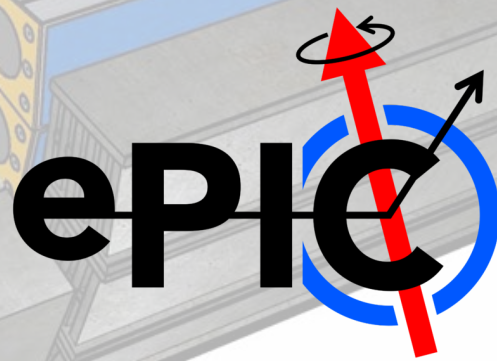


A detailed 3D cutaway diagram of the ePIC detector. The diagram shows a complex cylindrical structure with multiple layers of components. The outermost layer is a blue, segmented ring. Inside this is a green layer, followed by a yellow layer. The central part of the detector is a large, cylindrical volume filled with a grid of green and white elements, likely representing the calorimeter or tracking system. The entire structure is housed within a grey, multi-layered support structure. The diagram is oriented diagonally, providing a perspective view of the detector's internal components.

# ePIC Collaboration News

*J. Lajoie, S. Dalla Torre*

September 12<sup>th</sup>, 2025



# Agenda

## ePIC General Meeting

Friday 12 Sept 2025, 10:30 → 12:55 US/Eastern

**Description** Connection Information: <https://cern.zoom.us/j/9374314394?pwd=YTFjZjFGcXptMG13cGFQYWwvZz09>

Recording:

10:30 → 12:15

### General Status and Updates

Conveners: John Lajoie (Oak Ridge National Laboratory), Silvia Dalla Torre (INFN, Trieste)

10:30

#### ePIC Collaboration News

Speakers: John Lajoie (Oak Ridge National Laboratory), Silvia Dalla Torre (INFN, Trieste)

20m

10:50

#### EIC Project News

Speakers: E. C. Aschenauer (BNL), Rolf Ent (Jefferson Lab)

20m

11:10

#### Summary of Electronics, Readout and DAQ PDR

Speakers: David Abbott (Jefferson Lab), Fernando Barbosa (JLab), Jeff Landgraf (Brookhaven National Laboratory)

20m

11:30

#### Discussion

Speakers: John Lajoie (Iowa State University), Silvia Dalla Torre (INFN, Trieste)

10m

# Major coming events

- **EIC RRB**, BNL, November 4-5, 2025
- **Detector Directors' Review**, BNL, November 12-14, 2025
- **EIC OPA Review**, BNL, March 9-12, 2026
- **2026 ePIC Collaboration meetings**

See PM report





# Jan 2026 ePIC Collaboration Meeting



(logo shamelessly stolen from Estudiar en Canada)

The next ePIC Collaboration meeting will be January 2026 in Vancouver BC, hosted by EIC Canada and TRIUMF.

Stay tuned for more details coming soon!



# Summer 2026 Joint EICUG/ePIC Meeting



After discussions with the EICUG SC, the ePIC CC Chair/Vice-Chair, and the ePIC Spokespersons and coordinators, we have accepted a bid by the UK to host the Summer 2026 joint EICUG/ePIC meeting at the University of Glasgow in July 2026.

More information coming soon!





# Progress on the preTDR

- Version 2.2 of the preTDR posted in [Zenodo](#)
- [Google Form](#) to collect comments from the whole Collaboration
- **Editorial Board** met four times:
  - Kick-off: Organizational mtg. Aug 6<sup>th</sup>
  - Extensive EB meeting schedule through the rest of the year!
- **Context:** the Detector preTDR as a stand-alone document → new document layout

**DRAFT**  
EIC PDR  
August 4, 2025

Electron Ion Collider  
Preliminary Design Report

# The new layout of the Detector preTDR document

- **Executive Summary**
- **CHAPTER 1 – Introduction**
  - About the EIC project and the accelerator complex (high level approach)
- **CHAPTER 2 – Requirements**
  - Requirements resulting as an evolution of the YR ones
- **CHAPTER 3 – Experimental Systems**
  - **Past “chapter 8”**
  - Presenting the detector subsystems matching the requirements (mainly individual performance)
- **CHAPTER 4 – Detector Performance for the EIC physics program**
  - **Past “chapter 2”**
  - Presenting the holistic detector performance by the performance for key physics measurements
- **CHAPTER 5 – Detector-Accelerator interfaces**
  - INTEGRATION INTO THE FACILITY

# PreTDR Editorial Board meeting the document authors

**Goal: discuss the various sections/subsections, transmit comments and suggestions to converge versus a mature text version**

- **Already met**
  - PACs (twice) - *Chapter “2”*
  - Forward ECal - (Sec. 8.3.5.3)
  - Electronics/R-O/DAQ CC WG conveners
- **Already scheduled**
  - Far Forward detectors (Sec. 8.3.7)
  - HCals (Sec. 8.3.6)
  - BIC (Sec. 8.3.5.2)
  - Backward ECal (Sec. 8.3.5.1)
  - Cherenkov PID (Sec.s 8.3.4.2, 8.3.4.3, 8.3.4.4)
  - Tracking (Sec. 8.3.3)
- **All the other authors will be invited to meet the board**



# PreTDR, actions and dates


## The whole Cololaboration:

- Now-Sep 15: **Continue commenting on Version 2.2**

## The preTDR authors:

- Now-Sep 14: **Continue editing**, when needed
- Sep 15-21: **Overleaf closed** for document reorganization into the new detector only TDR
- Sep 22-30: **Overleaf open** for major new contributions **in contact with the Editorial Board**

# Upcoming Physics Readiness Workshop



ePIC and EIC Physics Readiness Workshop

17–18 Sept 2025  
Europe/London timezone

Enter your search term

**Overview**  
Accommodation  
Travel Info  
Timetable  
Contribution List  
My Conference  
My Contributions

The scope of this workshop includes preparation and readiness of EIC focussed physics analyses and related activities for the upcoming ePIC preTDR and Early Science documents. We will also have the opportunity to discuss contributed topics outside of this scope. Everyone interested is welcome to attend!

**Starts** 17 Sept 2025, 09:00  
**Ends** 18 Sept 2025, 17:00  
Europe/London

Institute of Physics, London, UK.  
(<https://www.iop.org/about/contact-us/visit-us>)  
[Go to map](#)

<https://indico.global/event/15249/>

17th and 18th September, London (UK)

Hybrid meeting!

We very much hope to see you there either in-person or remotely for lots of interesting EIC science-related discussions!

Please join us either in person or remotely via Zoom

Everyone is more than welcome, including remote participation

Zoom link will be circulated before the event

Preliminary timetable is on indico. Note that the timetable is in London timezone (currently GMT+1hr)

**We will discuss our readiness for upcoming preTDR and Early Science Documents, amongst other physics related topics**

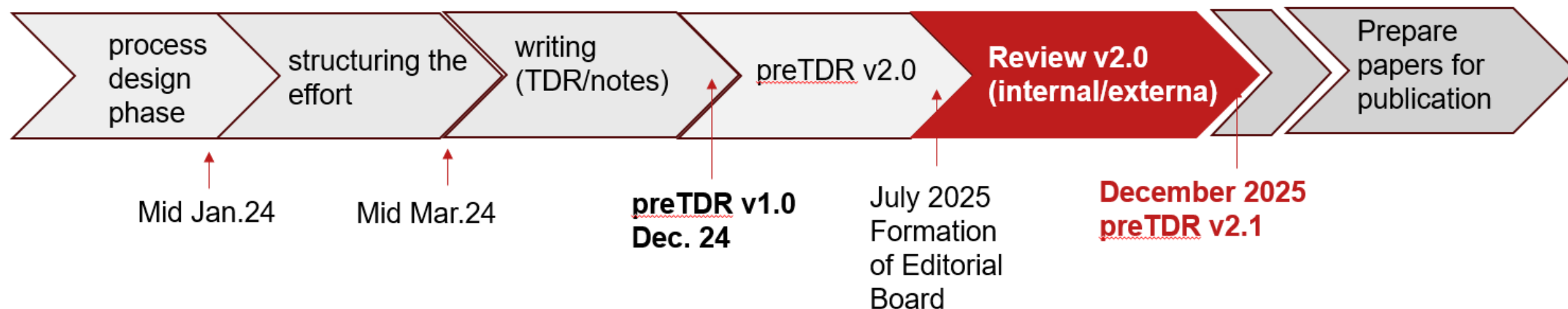
**Agenda includes: status reports from physics working groups, readiness updates from analysers, discussions on systematics and backgrounds, discussions on the paths forward towards the preTDR and Early Science documents**

More contributions still welcome, so if you would like to contribute a flash talk on a physics related topic please reach out to PACs

Any questions, email: [rachel.montgomery@glasgow.ac.uk](mailto:rachel.montgomery@glasgow.ac.uk)  
and [salvatore.fazio@unical.it](mailto:salvatore.fazio@unical.it) and [rosijreed@lehigh.edu](mailto:rosijreed@lehigh.edu)



# ePIC preTDR and Publication Plan



## Scope and Purpose of Our Discussion:

- Alignment of software releases and simulation campaigns with the schedule for preTDR v2.x.

## Recommendation (shared on August 15):

- Use the 25.10 simulation campaign, available by the end of October, as the basis for detector and physics studies.
- Reviewed during the **ePIC Physics, Software, and Computing meeting** on September 3. Detailed meeting notes are available.

**Please note:** We will **NOT** freeze the software or simulation campaigns. There will be software releases and simulation campaigns in November and December, but they will not be available in time to support studies for preTDR-2.x.

# Use of the 25.10 Campaign for preTDR-2.x: Deadlines

## Cutoff Dates for Software Releases and Input for Simulation Production:

**Sept. 8** Allowed time for iteration. Now passed.

**Oct. 6** In about a month, but no chance for iteration or delay recovery.  
**Requires coordination now to mitigate risks.**

- All remaining changes to the detector geometry, as well as updates to the digitization and reconstruction software that are intended for inclusion in preTDR-2.x studies, must be completed by these dates.
- This also includes the validation of MC inputs for the simulation productions, as well as background files.

### Plans for October Software Release (25.10)

- **Geometry and Materials:** Updated silicon outer barrel geometry, revisions to MPGD geometry, and material map update for FTOF.
- **Reconstruction:** ACTS patches to undo regressions with new material map generation, reworked low- $Q^2$  tagger momentum reconstruction, and clustering in TOF.
- **Ongoing Discussions:** EEEMCal performance to be addressed; forward ECal geometry, random noise injection, and secondary vertexing under discussion.

More details will be provided in the ePIC Software & Computing Meeting on September 17.



# Other ongoing activities

## SP-Office:

- **Meeting the teams of the CC WG conveners**
  - Continuation in serving as Conveners/ need of replacement
  - Discuss with them focus charge for the coming 1-2 y term

## SCC-TC-Office:

- **Joint SCC-TIC meeting on PID simulation and reconstruction** (September 22<sup>nd</sup>)

## TC-Office:

- **A TIC meeting dedicated to CALOROC layout** (September 29<sup>th</sup>)
  - Consolidate the choice of the number of channel together with Cal DSCs → *moving towards a recommendation*
  - An opportunity to discuss other open aspects (if any) concerning CALOROC

### Agenda:

**Introduction** : Clarify the timelines for PID software developments and define what is needed for the preTDR, the TDR, and beyond the TDR.

- **Status of preTDR Studies**

preTDR

- **Status and Plans for PID Reconstruction:**

- dRICH and pfRICH
- hpDIRC
- TOF

TDR

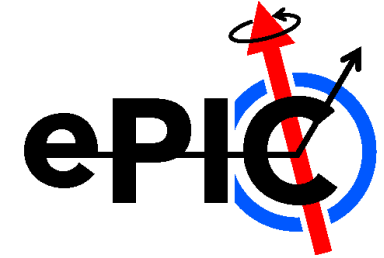
- **Data Model** : Present the status of the data model for the dRICH, hpDIRC, pfRICH, and TOF that will facilitate a common data that will be needed for a global PID scheme.

Beyond TDR





# 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>