

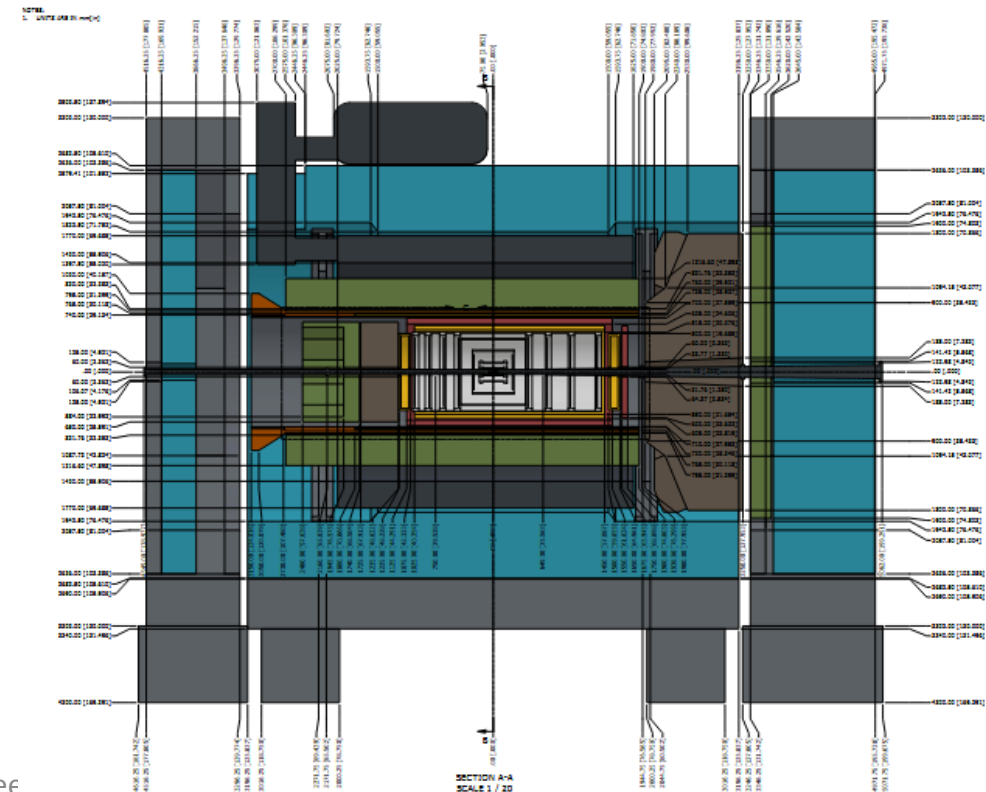
TC-Office News

Silvia Dalla Torre, Prakhar Garg,
John Haggerty, Oskar Hartbrich, Matt Posik

ePIC General Meeting, June 20th, 2025

Addressing needs crosscutting many/all subsystems

- The attention to information of general interest about **mechanics and integration** is continued:
 - Monthly reports on integration updates from the Project Engineers at the TIC meetings
 - most recently: on June 2nd
 - Next one planned: on July 7th



Addressing needs crosscutting many/all subsystems

- Need of a software tool for storage/signature procedure of **technical documents**
 - SVT has selected a CERN tool: EDMS (presented at the TIC mtg on March 31st)
 - A reasonable option for SVT (ITS3 cooperation with CERN), not extendable to the whole detector
 - **PM is proposing Vault**, already used by the engineer team
 - A report about scheduled at the coming TIC meeting on July 7th
 - Please, NOTE: this is in no way a replacement of the ePIC document repository presently by ZENODO; this is a tool fully different from the Detector DB for which no option is available yet

Addressing needs crosscutting many/all subsystems

Testbeam: planning, coordination and results

- An update of the 2025 testbeam agenda at the TIC meeting on June 30th
 - Following the 2025 preventive on November 11th, 2024

Testbeams test of the intense detector activities

- Everywhere thanks to the engagement and initiative of the ePIC collaborators:
 - FNAL (BIC, BabyMOSS for SVT)
 - CERN (LFHCAL, dRICH, disk mRWELL, BIC)
 - JLAB (low Q^2 taggers, AC-LGADs, CyMBaL, Backward ECal)
 - MAMI (low Q^2 taggers, luminosity calorimeters)
 - KEK (AC-LGADs, BIC)
 - DESY (Backward ECal)
 - Base – Berkley (BabyMOSS for SVT)
 - Parasitically at STAR (ZDC)
 - Parasitically at the NASA BNL beamline (ZDC)
 - Irradiation at UC Davis (Calo SiPMs)
 - Irradiation in LHC tunnel (Lumi Calo)

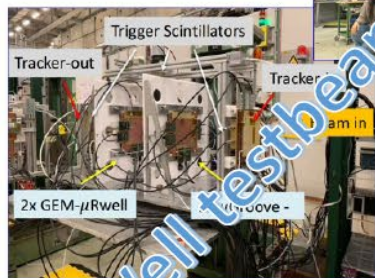
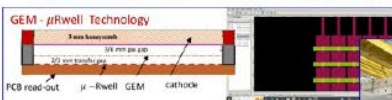
*Please, forgive me
if there is any missing entry !*

Testbeam at BASE (Berkley), May 2024



Test beam at FNAL, June-July 2024

November 11 – 28 Test beam @ PS-T10 - CERN



Further effort in 2025 in cross-cutting mode: all ePIC MPGD technologies

14



at UC Davis Cyclotron
64 MeV proton beam with mounted SiPM



Backward ECal testbeam

2024-2025



2025



2025

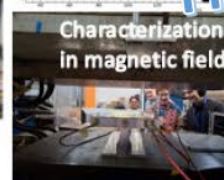


Baby BCal commissioned with proton, pion, and electron beams during a June 2024 FBTF test



Baby BCal testbeam

HRPPD characterization

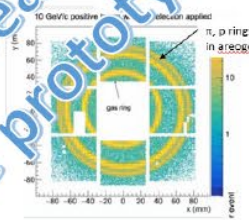


HRPPD testbeam and magnetic field studies

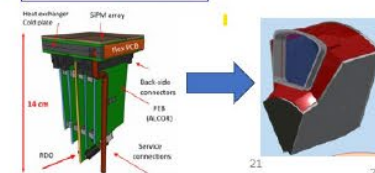
First module at test beam (Sept/Oct 2024)



LFCal module testbeam
DRICH testbeam and fullscale prototype



Building a full-scale prototype in 2025 to be validated in a testbeam in 2025



21

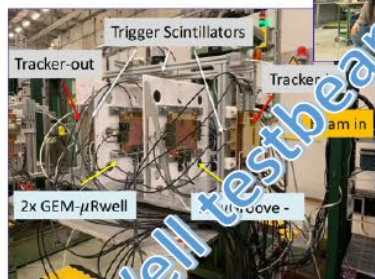
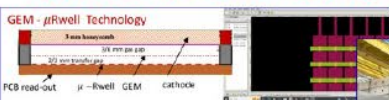
22

Testbeam at BASE (Berkley), May 2024

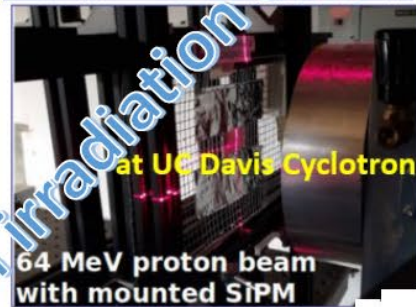


Test beam at FNAL, June-July 2024

November 11 – 28 Test beam @ PS-T10 - CERN



Further effort in 2025 in cross-cutting mode: all ePIC MPGD technologies



64 MeV proton beam with mounted SiPM

2024-2025



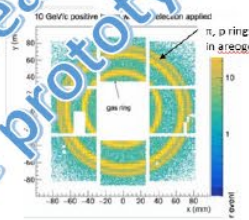
2025



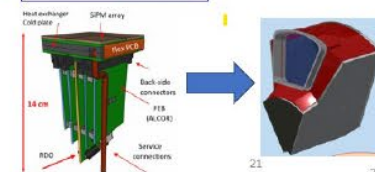
2025



First module at test beam (Sept/Oct 2024)



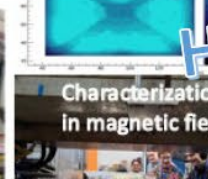
Building a full-scale prototype in 2025 to be validated in a testbeam in 2025



HRPPD characterization



Scans of HRPPD OE



Characterization in magnetic field

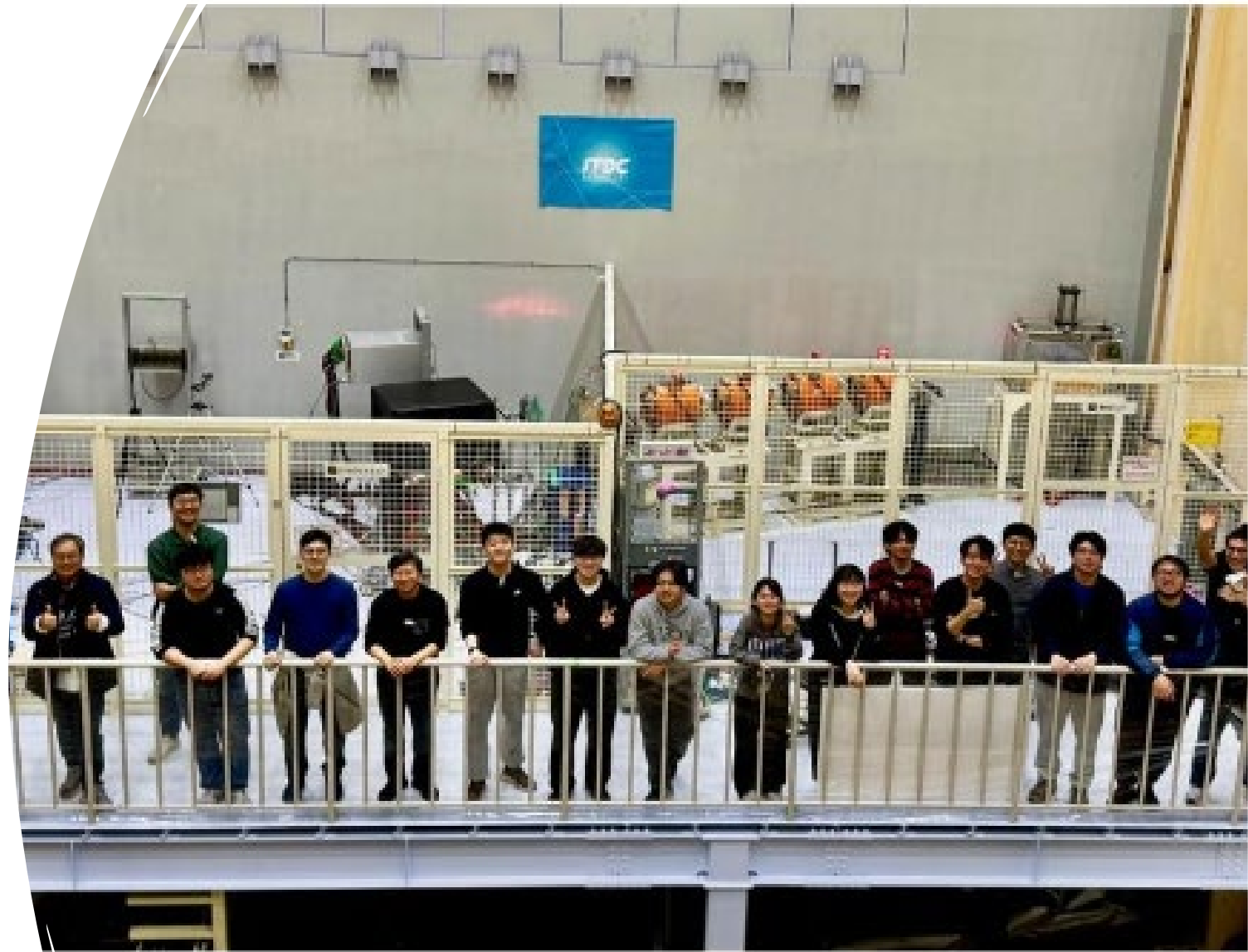


HRPPD testbeam and magnetic field studies

Quasi real-time information about detector activities

- Recent **BIC testbeams** and further plans at TIC meeting on June 2nd
- Results from Spring 2025 **backward ECal testbeams** on June 30th
- Summary of the **Paris ASIC meeting** (June 2025) at TIC meeting on June 23rd
- Summary of the **ePIC Calorimetry Workfest** at ORNL (June 2025) at TIC meeting on June 23rd
- **QC of the first batch of crystals** for the backward ECal at TIC meeting on July 7th, TBC

June 20th, 2025



participants from 6 institutions in
March 2025 at KEK PF-AR Testbeam

Detector status reviewed at the DAC meeting

DAC meeting, June 11-13

- 3 intense days
- Close-out not yet provided (scheduled at the end of this GM)
- **Feeling** : the tone of the DAC questions and comments indicate that the present status of the detector is regarded as sound and adequate to the present Project phase

The image displays three screenshots of the DAC meeting agenda for Wednesday, Thursday, and Friday, June 11-13, 2025. The agenda is organized by time slots and includes various sessions, speakers, and topics.

Wednesday, 11 June

- 06:30 → 09:00 DAC Executive Session
- 09:00 → 09:20 EIC Status and Plans
- 09:30 → 09:55 ePIC Collaboration: Status, Plans, Responsibilities, Capabilities
- 10:05 → 10:25 Coffee Break
- 10:25 → 10:55 ePIC Technical Baseline and Agreements Status
- 11:05 → 11:25 Beam design and integration
- 11:30 → 11:50 ePIC Electronics
- 12:00 → 12:30 Lunch Break
- 12:30 → 12:50 ePIC DAQ/Computing
- 13:00 → 13:20 ePIC Magnet Status
- 13:30 → 14:00 ePIC Detector integration, infrastructure and installation
- 14:10 → 14:35 Electron and Hadron Polarimetry
- 14:45 → 15:10 Accelerator and Detector Commissioning Plan
- 15:15 → 15:30 Coffee Break
- 15:30 → 17:00 DAC Executive Session

Thursday, 12 June

- 08:30 → 09:00 Follow-up on DAC Questions - CANCELLED
- 09:00 → 09:25 EIC Tracking and Particle Identification Requirements
- 09:30 → 09:45 MOSAIX and EIC-LAS sensors
- 09:50 → 10:05 Status of Ancillary ASIC Design
- 10:10 → 10:25 SVT Design Status
- 10:30 → 10:50 Coffee Break
- 10:50 → 11:20 ePIC MPGD Tracker Status
- 11:30 → 11:55 ePIC high-performance DIRC Status
- 12:00 → 12:30 Lunch Break
- 12:30 → 12:55 ePIC proximity-focusing RICH Status
- 13:05 → 13:30 ePIC dual RICH Status
- 13:40 → 13:50 ePIC AC-LGAD/TOF Detector Overview
- 13:55 → 14:15 Status Barrel ToF
- 14:25 → 14:45 Status Forward ToF
- 14:55 → 15:25 Coffee Break
- 15:25 → 17:25 DAC Executive Session

Friday, 13 June

- 08:30 → 09:00 Follow-up on DAC Questions - CANCELLED
- 09:00 → 09:20 EIC Calorimetry and Ancillary Detectors Requirements
- 09:30 → 10:30 ePIC Ancillary Detectors
- 10:30 → 11:00 Coffee Break
- 11:00 → 11:20 ePIC Backward EM calorimeter (EEMCAL) status
- 11:30 → 11:50 ePIC Forward EM calorimeter status
- 12:00 → 12:30 Lunch Break
- 12:30 → 12:50 ePIC Barrel EM calorimeter (BIC) status
- 13:00 → 13:25 ePIC Forward Hadron Calorimeter & Insert
- 13:35 → 13:55 ePIC Barrel Hadron Calorimeter
- 14:05 → 14:25 ePIC Backward Hadron Calorimeter
- 14:30 → 15:00 Coffee Break
- 15:00 → 17:00 DAC Executive Session

TC-Office support for preTDR, chapter 8

- **Version 1.1 revised by TC-Office**
 - Feedback available at : [pre-TDR TC Comments - Google Drive](#)
 - Please add the answer to the questions/comments together with the new text by July 11th
- **General prescriptions available at:** [General Prescriptions - Google Drive](#)
- **QA and QC policy presented at TIC meeting on May 19th**
- **Common scenarios for luminosity, radiation doses and background presented at TIC meeting on May 19th and updated on June 16th**

June 20th, 2025

R,

TIC meeting - PreTDR draft Version2; QA, common scenariors (luminosity, doses, background)

Monday 19 May 2025, 09:00 → 11:05 US/Eastern

Silvia Dalla Torre (INFN, Trieste)

Description Technical and Integration Council Meeting

Join Zoom Meeting

<https://cern.zoom.us/j/9374314394?pwd=YTFjZjF6cXptMG13cGFQYWwvZz09>

Recording: <https://youtu.be/9QIF26JkZP4>

Re.. [[Eic-projet-tic-

09:00 → 09:05 Communications

Speakers: Matt Posik (Temple University), Oskar Hartbrich (Oak Ridge National Lab), Prakharg Garg (Yale University), Silvia Dalla Torre (INFN, Trieste)

TIC_20250519.pdf

09:10 → 09:25 DSC communications

Speakers: Alexander Jentsch (Brookhaven National Laboratory), Alexander Kiselev (BNL), Brian Page (Brookhaven National Laboratory), Carlos Munoz Camacho (JCLab, CNRS-IN2P3), Ernst Sichtermann (Lawrence Berkeley National Laboratory), Friederike Bock (ORNL), Grzegorz Kalicy (CUA), Hwidong Yoo (Yonsei University), Jaroslav Adam, Kondo Gnanvo (Jefferson Lab), Krzysztof Piotrkowski (AGH UST), Laura Gonella (University of Birmingham), Dr Leszek Kosarzewski (Ohio State University), Marco Contalbrigo (INFN Ferrara), Maria Zurek (Argonne National Laboratory), Megan Connors (Georgia State University), Miguel Arratia (University of California, Riverside), Nicholas Zachariou (University of York), Oleg Tsai, Satoshi Yano (Hiroshima University), Dr Simon Gardner (University of Glasgow), Stefan Bathe (Baruch College, CUNY, & RBRC), Sylvester Joosten (Argonne National Laboratory), Tanja Horn (Cath), Zhangbu Xu (Kent State University)

09:30 → 09:50 EIC Detector Quality Control Plan

Speaker: Walt Akers (Thomas Jefferson National Accelerator Facility)

Documents referen... QualityAssurancePL... Sample.xism

09:55 → 10:25 Common scenarios for preTDR: Luminosity, doses, background

Speaker: Dr E. C. Aschenauer (BNL)

TIC.ECA.pptx

10:30 → 10:50 preTDR draft Version2; Q&A

TIC meeting - PreTDR (luminosity, backgrou

Monday 16 Jun 2025, 09:00 → 11:05 US/Eastern

Silvia Dalla Torre (INFN, Trieste)

Description Technical and Integration Council Meeting

Join Zoom Meeting

<https://yale.zoom.us/j/98351531019>

09:00 → 09:05 Communications

Speakers: Matt Posik (Temple University), Oskar Hartbrich (Oak Ridge National Lab), Prakharg Garg (Yale University), Silvia Dalla Torre (INFN, Trieste)

09:10 → 09:25 DSC communications

Speakers: Alexander Jentsch (Brookhaven National Laboratory), Alexander Kiselev (BNL), Brian Page (Brookhaven National Laboratory), Carlos Munoz Camacho (JCLab, CNRS-IN2P3), Ernst Sichtermann (Lawrence Berkeley National Laboratory), Friederike Bock (ORNL), Grzegorz Kalicy (CUA), Hwidong Yoo (Yonsei University), Jaroslav Adam, Kondo Gnanvo (Jefferson Lab), Krzysztof Piotrkowski (AGH UST), Laura Gonella (University of Birmingham), Dr Leszek Kosarzewski (Ohio State University), Marco Contalbrigo (INFN Ferrara), Maria Zurek (Argonne National Laboratory), Megan Connors (Georgia State University), Miguel Arratia (University of California, Riverside), Nicholas Zachariou (University of York), Oleg Tsai, Satoshi Yano (Hiroshima University), Dr Simon Gardner (University of Glasgow), Stefan Bathe (Baruch College, CUNY, & RBRC), Sylvester Joosten (Argonne National Laboratory), Tanja Horn (Cath), Zhangbu Xu (Kent State University)

09:30 → 10:00 Common scenarios for preTDR: an update for luminosity

Speaker: Dr E. C. Aschenauer (BNL)

10:05 → 10:25 common scenarios on preTDR: an update for backgrand

Speaker: Dr Andrii Natochii (Brookhaven National Laboratory)

NEWS

- ***In response to a corresponding European Call, a new project like STRONG-2020 is being organized; expected to start in 2026 and last ~4 y***
- *Present status of the new project: internal collection of proposals*
- *Next step: Town Hall meeting at Nantes (France) in July*
- ***LOI for Trans-national Access of European Colleagues at BNL for the EIC has been submitted:***
 - ***If successful, it will offer subsistence for European visiting BNL and, therefore, support the detector activities***

**Trans-National Access to Brookhaven National Laboratory | Infrastructures for the
Electron-Ion Collider**

E.C. Aschenauer¹, S. Dalla Torre², R. Dupre³, R. Montgomery⁴, and T. Ullrich¹

¹Brookhaven National Laboratory, Upton, NY, United States

²INFN, Sezione di Trieste, Trieste, Italy

³Univ. Paris-Saclay, CNRS, IJCLab, Orsay, France

⁴School of Physics & Astronomy, University of Glasgow, Scotland, UK