# TIC meeting

## October 28th

# TIC meeting - preTDR news; nHCal update; DSCs and project contact, highlights - pfRICH

Monday 28 Oct 2024, 09:00 → 11:10 US/Eastern

Silvia Dalla Torre (INFN, Trieste)

**Description** Technical and Integration Council Meeting

Join Zoom Meeting

https://cern.zoom.us/j/9374314394?pwd=YTFjZjFGcXptMG13cGFQYWFQOWdrZz09

Recording:

**09:00** → 09:05 **Communications** 5m

**Speakers**: Prakhar Garg (Yale University), Silvia Dalla Torre (INFN, Trieste)

**09:10** → 09:20 **DSC communications** 10m

**Speakers**: Alexander Jentsch (Brookhaven National Laboratory), Alexander Kiselev (BNL), Brian Page (Brookhaven National Laboratory), Carlos Munoz Camacho (IJCLab, 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 Piotrzkowski (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)

**09:25** → 09:45 **preTDR draft, news** 20m

**Speakers**: Oskar Hartbrich (Oak Ridge National Lab), Silvia Dalla Torre (INFN, Trieste)

**09:50** → 10:10 **nHCal update** 20m

**Speakers**: Prof. Daniel Brandenburg (Ohio State University), Dr Leszek Kosarzewski (Ohio State University)

**10:15** → 10:25 **DSCs meeting the Project, highlights - pfRICH** 10m

**Speaker**: Alexander Kiselev (BNL)

# Chapter 8 “Experimental Systems”

pre-TDR status, Version0.1 - STATUS

| | | chapter | section | subsection | subsection | title | test inserted |
|---|---|---|---|---|---|---|---|
| ePIC | | 8 | | | | **Experimental Systems** | |
| responsibility | | | 8.1 | | | Experimental Equipment Requirements Summary | N |
| | | | 8.2 | | | General Detector Considerations and Operations Challenges | |
| Project | | | | 8.2.1 | | General Design Considerations | N |
| responsibility | | | | 8.2.2 | | Backgrounds and Rates | N |
| | | | | 8.2.3 | | Radiation Level | N |
| Joint | | | 8.3 | | | The ePIC Detector | |
| responsibility | | | | 8.3.1 | | Itroduction | Y |
| | | | | 8.3.2 | | Magnet | N |
| | | | | 8.3.3 | | Tracking | N |
| | | | | | 8.3.3.1 | The silicon trackers | Y |
| | | | | | 8.3.3.2 | The MPGD trackers | Y |
| | | | | 8.3.4 | | Particle identification | Y |
| | | | | | 8.3.4.1 | The time-of-flight layers | Y |
| | | | | | 8.3.4.2 | The proximity focusing RICH | Y |
| | | | | | 8.3.4.3 | The high performance DIRC | Y |
| | | | | | 8.3.4.4 | The dual radiator RICH | Y |
| | | | | 8.3.5 | | Electromagnetic Calorimetry | N |
| | | | | | 8.3.5.1 | The backward endcap electromagnetic calorimeter | Y |
| | | | | | 8.3.5.2 | The barrel electromagnetic calorimeter | Y |
| | | | | | 8.3.5.3 | The forward endcap electromagnetic calorimeter | Y |
| | | | | 8.3.6 | | Hadronic Calorimetry | N |
| | | | | | 8.3.6.1 | The backward endcap hadronic calorimeter | Y |
| | | | | | 8.3.6.2 | The barrel hadronic calorimeter | Y |
| | | | | | 8.3.6.3 | The forward endcap hadronic calorimeter | Y |
| | | | | 8.3.7 | | Far forward detectors | Y |
| | | | | | 8.3.7.1 | The detectors in the B0 bending magnet | Y |
| | | | | | 8.3.7.2 | The roman pots and the off-momentum detectors | Y |
| | | | | | 8.3.7.3 | The zero degree calorimeter | Y |
| | | | | 8.3.8 | | Far backward detectors | Y |
| | | | | | 8.3.8.1 | The luminosity system | Y |
| | | | | | 8.3.8.2 | The low Q2 taggers | Y |
| | | | | 8.3.9 | | Polarimeters | N |
| | | | | | 8.3.9.1 | The electron polarimeters | N |
| | | | | | 8.3.9.2 | The proton polarimeters | N |
| | | | | 8.3.10 | | Readout Electronics and Data Acquisition | Y |
| | | | | 8.3.11 | | Software and Computing | N |
| | | | 8.4 | | | Detector Integration | N |
| | | | | 8.4.1 | | Installation and Maintenance | N |
| | | | 8.5 | | | Detector Commissioning and Pre-Operations | N |

It requires ACs-TC-office coordination and chapter 2 in place

It requires 8.1, 8.2.2, 8.2.3

Project driven

On the way, also requiring that the sub-subsections are in place

Extended version available as a separate document

# preTDR draft, Version0.1  status of the text

**Reviewing process**

- Deadline yesterday, October 20th → October 27th

**Chapter 2 - Physics Goals and Requirements**

- No reviewers appointed
- **6** feedback received

**Chapter 8 - Experimental Systems**

- Individual reminders, when needed to the appointed reviewers on October 25th
  - Feedback from reviewers : **23** (over 27) , 1 more promised within today
  - Feedback from other collaborators : **11**

- The address of the google sheets where the reports are collected have been distributed to text editors

# preTDR draft, NEXT STEPS

**Next draft version due on December 1st → Version1**

**Integrating the review inputs**

- Each subsystem is requesting to analyze the inputs, to engage exchanges with reviewers, when needed, to integrate the recommendations in the text in preparation for Version1
- **At TIC meeting on November 18, DSCs will be request to shortly report on relevant inputs received (high-level, no details)**

**Strategy**

- As much as possible, please go on **updating the texts directly in the official overleaf project** to let us directly follow the progress

**Figures**

- So far, figures have not followed the "Guidelines for Reproducing TDR Plots" (https://www.overleaf.com/read/dynqqzsttkcm#28f8f7)
- following these guideline is a must for Version1

**Collaborators and their role, resources and workforce**

- Very different format in the texts by the various subsystems
- Guidelines requested, here they are (also following Project suggestions):
- **Costs and timelines are in P6, no need of duplication here**
- **Please indicate the collaborating institutions and their contributions (gross features)**
- **Please, for this information, use table format**