

# ePIC Backward RICH DSC formation

## ➤ Current status: *on pause*

### ➤ mRICH -> pfRICH transition

- ePIC Collaboration decision is taken
- The ball is now in the EIC project court

### ➤ A draft **CDR** is available

### ➤ A sufficiently detailed detector design exists

### ➤ A detailed P6-friendly costing sheet is composed

### ➤ A **standalone** modeling / reconstruction suite exists

### ➤ Consolidation of the participating institutions essentially concluded:

➤ Brookhaven

➤ Chiba

➤ Duke

➤ Glasgow

➤ INFN Genova

➤ INFN Trieste

➤ JLAB

➤ Ljubljana

➤ MSU

➤ Stony Brook

➤ Temple

➤ Yale

## ➤ *We should try to maintain a welcoming & flexible environment, with*

(1) *a diverse institutional participation model, at least for the next ~2 years*

(2) *a well-defined group of institutions committed to the construction phase*

*It seems a gradual change in the decision making process should be anticipated*

# ePIC Backward RICH DSC formation

## Questions:

- Do we want a (Mini-)Charter? -> Charter may be an overkill, but can we live without an MoU at all?
  - ▶ Define how we operate and make decisions
- Do we need an IB Board? -> IB is perhaps too much, but then what is a practical way to make decisions?
  - ▶ to select DSCL and DSCTC -> So what is the process, to start with?
  - ▶ to admit new members
  - ▶ to resolve conflicts
- How are commitments expressed? -> They better be expressed in written, right?
  - ▶ Handshake, MOU, or not at all
- Do we want to stay flat or less flat structured?
  - ▶ DSCL and DSCTC -> DSCTC may not be needed, but what about deputy / topical deputies?
  - ▶ DSCL and DSCTC + Coordinators (Electronic, Software, Performance, ...)
- Name?
  - ▶ suggested to drop pfRICH in favor of <?>RICH -> may want to re-brand, even without GSU joining?

*As presented by Thomas in the last pfRICH meeting*

# Other news

- EIC – Incom contract will hopefully be finalized this week
  - Conclude the “remaining” R&D till September 2023
  - Produce five HRPPD tiles till March 2024
    - Expected to be “interfaceable” to an ASIC PCB
    - Expected to be used in a pfRICH test beam in late spring 2024
    - Assuming they look fine, proceed with a PED contract extension till CD-3 in April 2025
- This is all good, but we need a fallback strategy as well
  - Chandra cross-checked briefly pfRICH performance with the 2” Planacons
    - Playing with the mirror configuration (both conical and funneling pyramids) one should be able to achieve a *reasonable* level of performance, paying \$0.5M+ more for the sensors
- LAPPD Workshop #3 two weeks ago: <https://indico.bnl.gov/event/18642/>
- Techtra should be ready with a first 120 mm HRPPD anode base plate next week
  - If this effort fails, Incom is ready to order from Kyocera
  - A matching readout PCB order is in progress