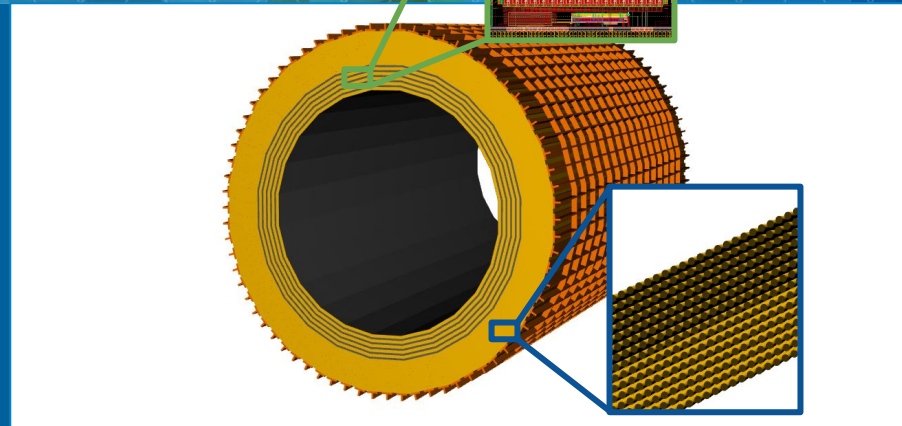


Barrel Imaging Calorimeter Meeting,  
September 19, 2023

# Barrel Imaging Calorimeter (BIC) Updates



**Sylvester Joosten**  
PHY, Argonne National Laboratory

# Updates

- Last week final design reviews for SciFi and SiPM
  - Reviews went well!
- Yesterday the Notice of Decision for the barrel calorimeter was formally signed and posted
  - Now officially in the Project!
- Next up:
  - Statements of Work for PED tasks (urgent)
  - Director's review for CD3a



# Timeline

## Reviews, Reviews, Reviews...

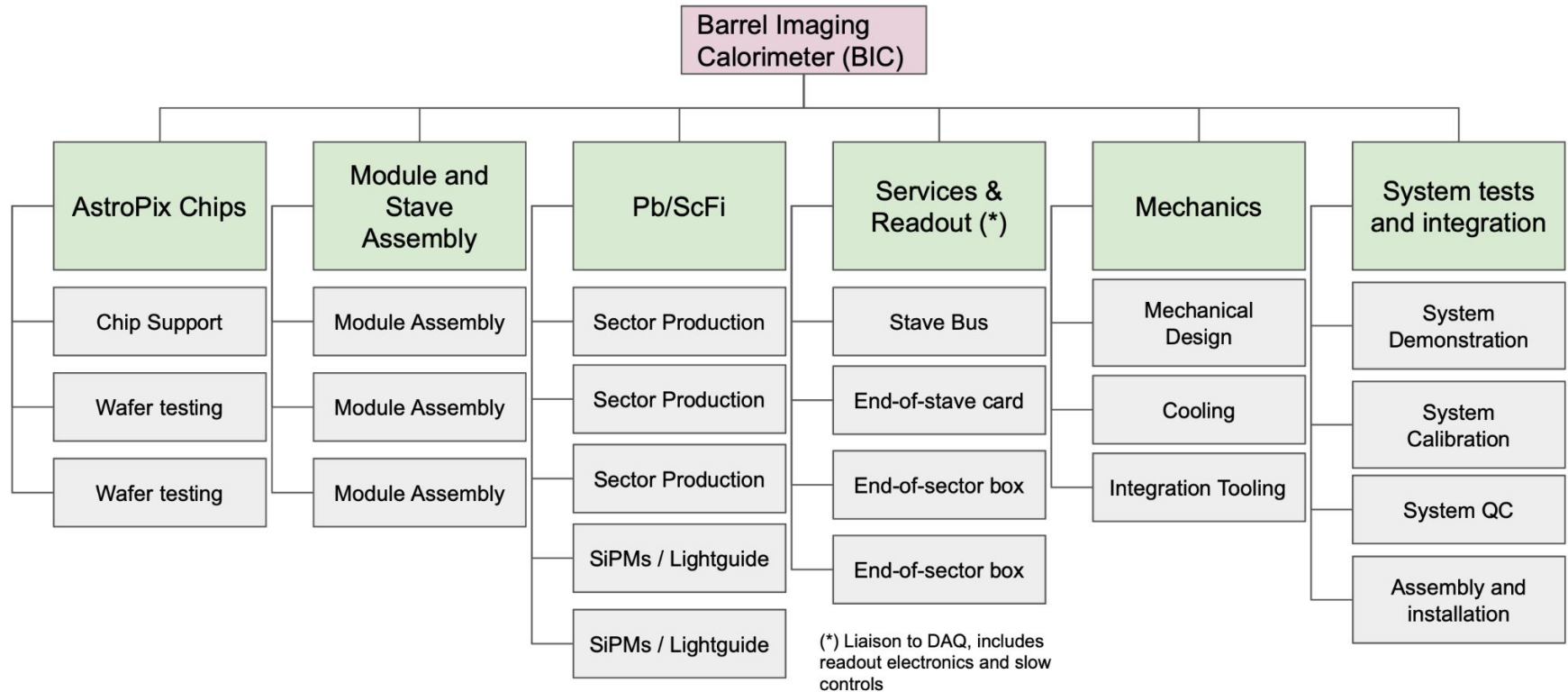
- ~~July 5 + 6: Particle Identification Detectors Interim Design Review~~
- ~~July 21: Final Design Review of the PbWO<sub>4</sub> Crystals for the ePIC Backward EM Calorimeter (LLP)~~
- ~~August 28 + 31: DAC Review of Detector R&D~~ ← 

More details in Project Update talk
- ~~August 29 + 30: ePIC Comprehensive Design Review by DAC~~
- ~~September 13: SciFi Applications Final Design Review (LLP)~~
- ~~September 14: SiPM Applications Final Design Review (LLP)~~
- September 25: Final Design Review Forward HCAL W & Steel (LLP)
- October 5 + 6: Final Design Review of Magnet (MARCO)
- October 10-12: DOE CD-3A Director's Review ←
- October 19-20: ePIC Computing Model Review
- ~~TBD : DOE CD-3A Independent Cost Review (Not needed)~~
- November 14-16: DOE CD-3A Independent Project Review ←
- December 7 + 8: 2<sup>nd</sup> Resource Review Board meeting @ Washington DC
- December (TBD): Preliminary Design Review of Far-Forward/Far-Backward Detectors

# PED Tasks

| Skill                       | Institution | FTE  | Task                                      |
|-----------------------------|-------------|------|---|
| Mechanical Engineer         | Argonne     | 1    | Global mechanical design                  |
| Mechanical Engineer         | Argonne     | 1    | Sector design and test article production |
| Mechanical Engineer         | Argonne     | 0.5  | Stave design and cooling                  |
| Machinist                   | Argonne     | 0.2  | Mechanics support (machining)             |
| Electrical Engineer         | Argonne     | 0.1  | Electrical support                        |
| Postdoc                     | Argonne     | 0.50 | Support test article production           |
| FPGA Senior                 | Argonne     | 0.1  | System test                               |
| FPGA Postdoc                | Argonne     | 1    | System test                               |
| <CF subcontract>            | Argonne     | 0.25 | CF fabrication                            |
| Scientist                   | Argonne     | 0.16 | Oversight                                 |
| <NASA Engineers>            | NASA        | 1    | AstroPix end-of-stave card design         |
| Electrical Engineering Team | Oklahoma S  | 1    | AstroPix Bus tape design                  |
| Electrical Engineer         | UCSC        | 0.5  | AstroPix module design                    |
| Scientist                   | UCSC        | 0.2  | AstroPix module design                    |
| Mechanical Engineer         | Regina      | 0.33 | End-of-sector design and test article     |
| Electrical Engineer         | Regina      | 0.4  | End-of-sector electrical design           |
| Postdoc                     | Regina      | 1    | QC test design and test article           |
| Scientist                   | Regina      | 0.16 | Oversight                                 |
| <Project Engineers>         | BNL         | 0    | Integration                               |

# Draft ORG-chart for discussion



# Possible topics for 10-2 TIC meeting

1. Intro/status update (including PED tasks and plans) → Sylvester
2. Engineering/integration update → Dan?
3. SciFi and SiPM FDR summary - team Zisis
4. AstroPix v3 test update + next steps → Amanda
5. R&D plans at FNAL → Henry
6. Integration with and relation to other subsystems → Maria
7. Simulation/reconstruction needs and status - Wouter?
8. ~~Readout strategy?~~ → later, need to meet with DAQ WG first