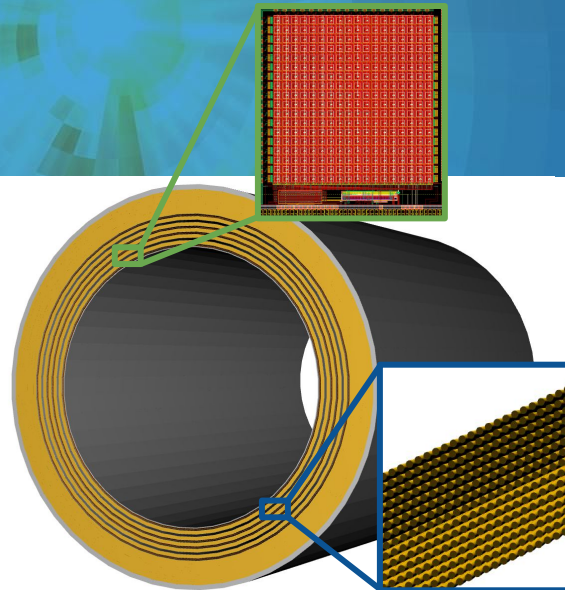


*The ePIC Barrel Imaging Calorimeter*

# BIC Sectors and Mechanics Update

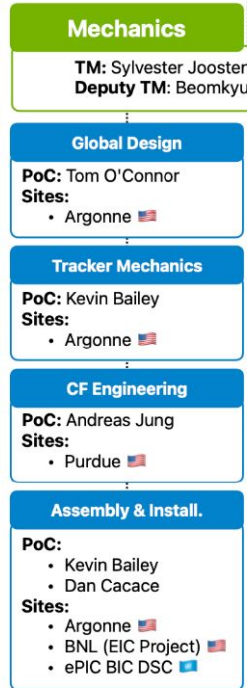


**Sylvester Joosten**  
Argonne National Laboratory

**BIC General Meeting**  
November 22, 2024



# Mechanics update



## Global Design

- Communicated envelopes with Project, will be propagated to next official ePIC envelope drawings

## Tracker Mechanics

- Assigned new engineer to tracker mechanics, making good progress to more realistic design

## CF Engineering

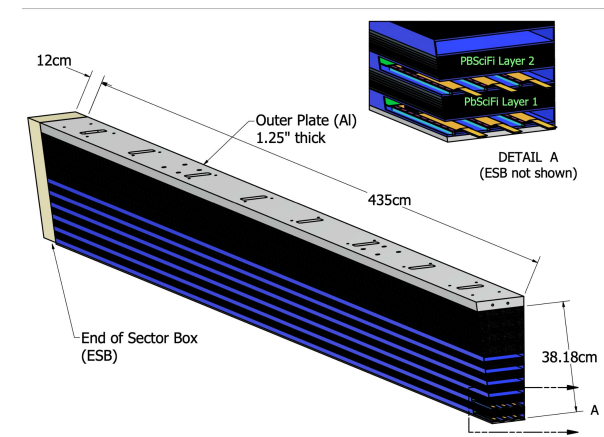
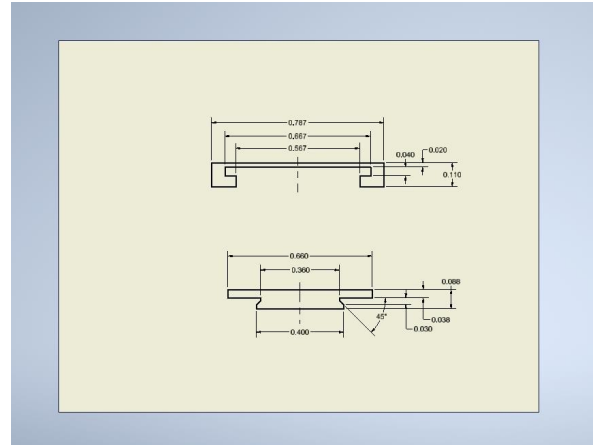
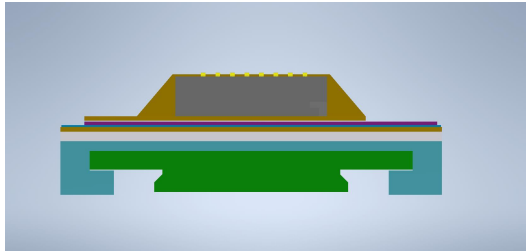
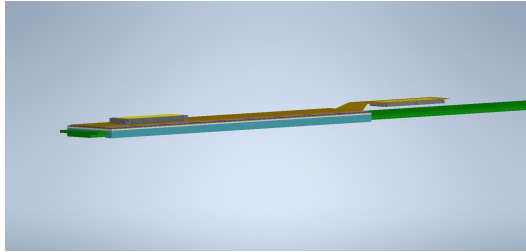
- Working on subcontract with Purdue
- Initial FEA calculations for September review promising
- Planning for destructive testing of test articles

## Assembly & Installation

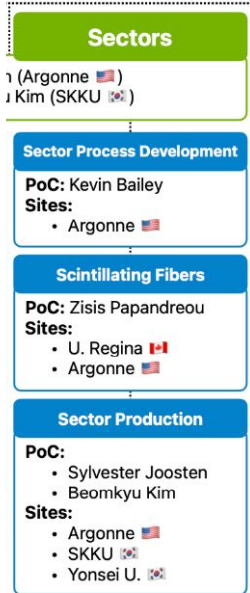
- Re-evaluation of labor requirements during install ongoing

# Highlight

## Updated tracker mechanical design concept (work in progress)



# Sector update



## Sector Process Development

- Sector test article manufacturing setup close to completion (tentatively before Thanksgiving next week)
- EH&S considerations mostly addressed
- On track to build first small Pb/ScFi test article at Argonne before the ePIC Collaboration Meeting

## Scintillating Fibers

- Main focus long-lead procurement of ScFi and QC testing procedures
- Expect official posting for ScFi to go out December-January

## Sector Production

- About to occupy 5500 sq ft warehouse production space at Argonne
- Work with Argonne machine shop to evaluate in-house sector machining