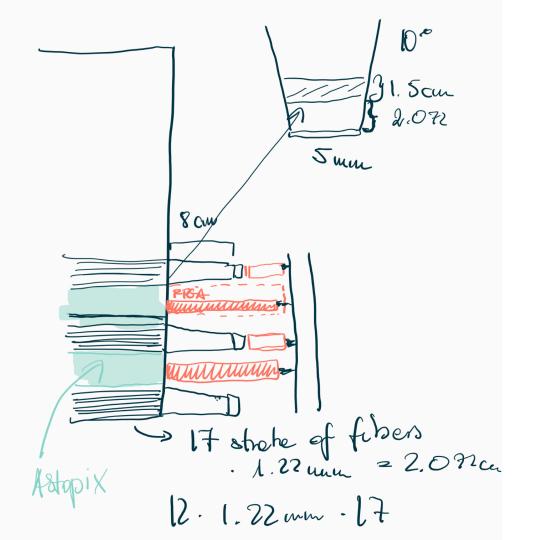
BIC End-of-Sector Boxes

Z. Papandreou, M. Żurek

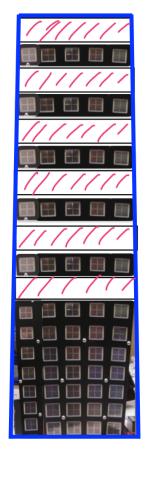
Barrel ECAL DSC, ePIC Collaboration Meeting, January 11, 2024

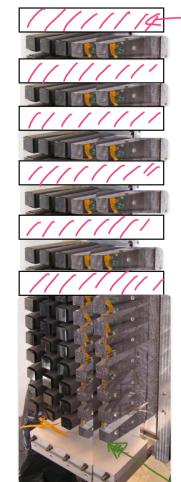
ESB: all encompassing

- Contents:
 - Light guides: length; acrylic vs non-imaging
 - LED Monitoring System (LMS): GlueX-method
 - SiPMs
 - SiPM Electronics Boards
 - AstroPix
 - Cooling
- Canadian NSERC Major Research Support (MRS)
 - Mechanical and Electronics design/construction
 - Canada Foundation for Innovation Grant: fall 2024, results May 2025
- Korean efforts



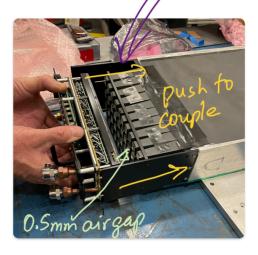
Cooling likely needed (water)







Gluex End-of-Sector
Box



The GlueX wedge; The BIC one is more complex with gaps for the Astropix

SiPMs & their windows

A sort of 3D view of light guides

Si optical cookie/no air gap

Summary

- Discussion
 - Sector board design: 1 or 11?
 - AstroPix: feedthrough or dedicated space
 - LED on light guides like GlueX?
 - Cooling provision
 - Connectors