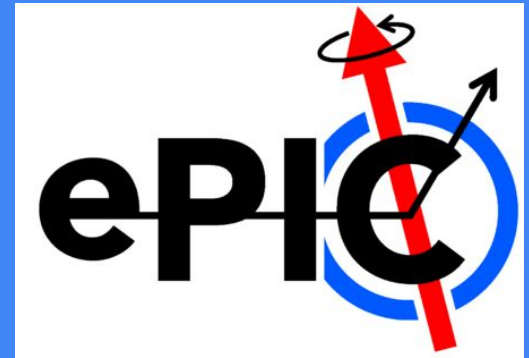
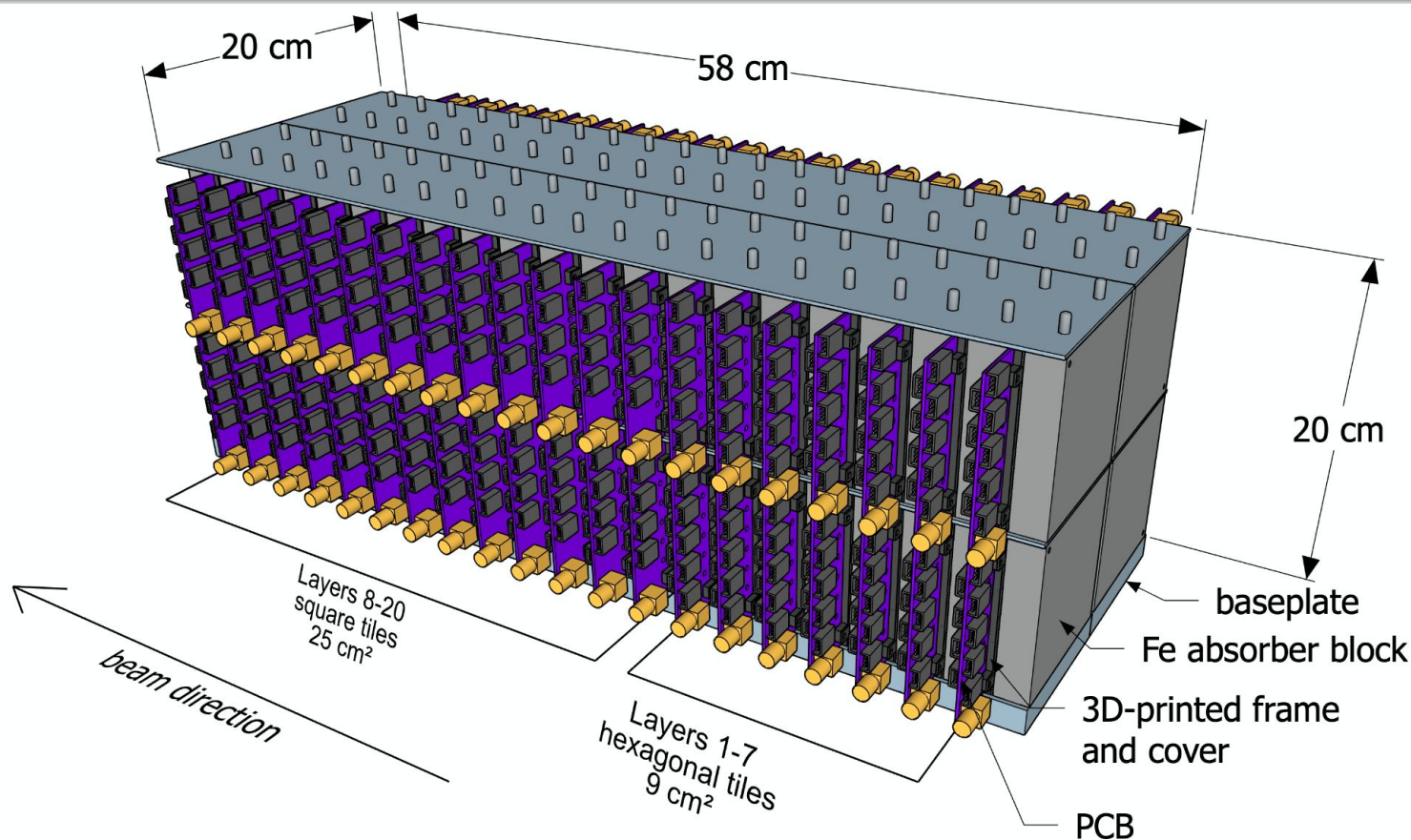


# Installation of Prototype in STAR Hall, and Hodoscope Tracking

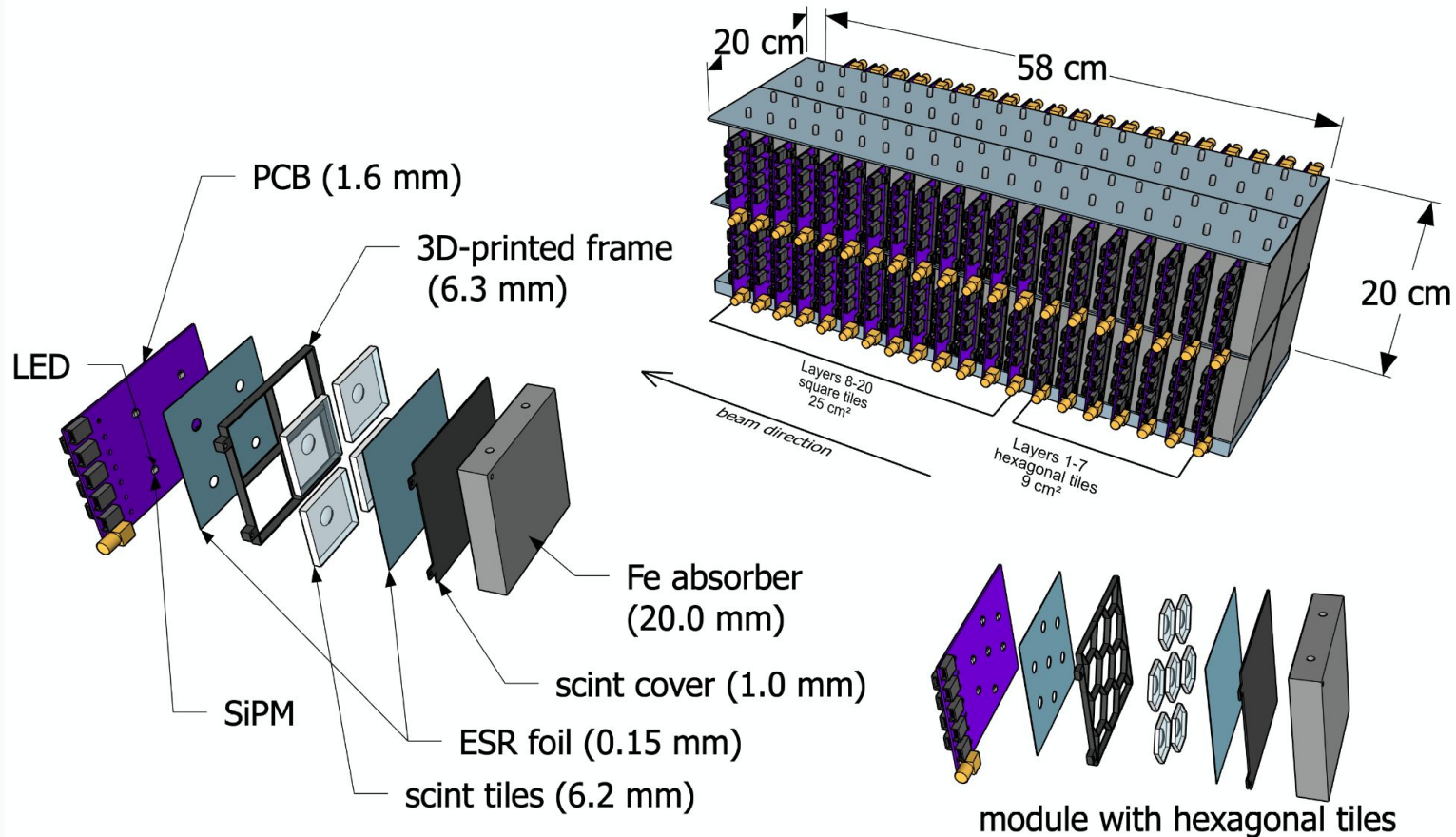
Peter Carney



# Overview of Calorimeter Structure

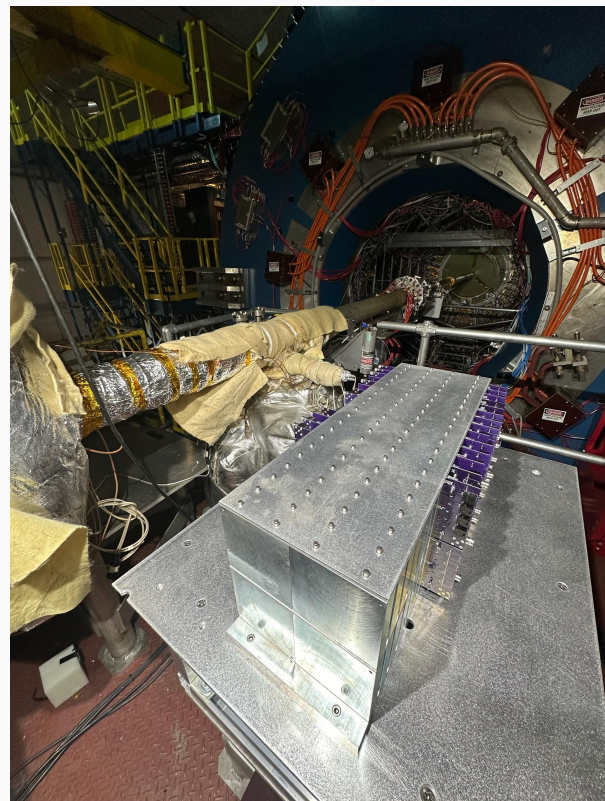
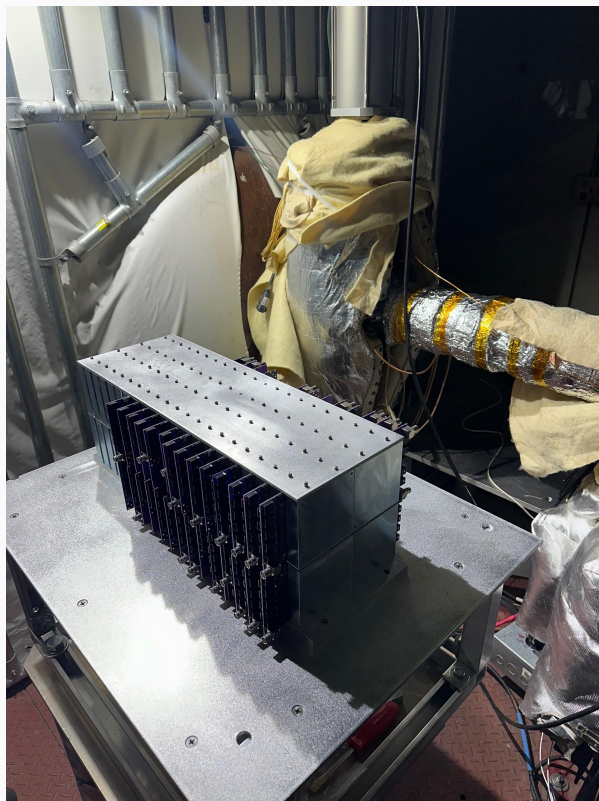
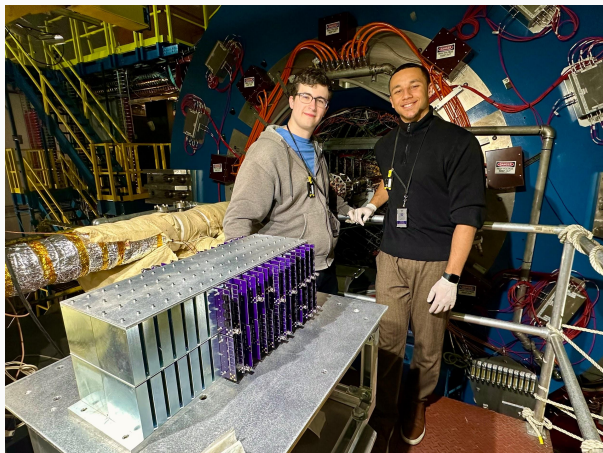


# Overview of Calorimeter and Board Structure



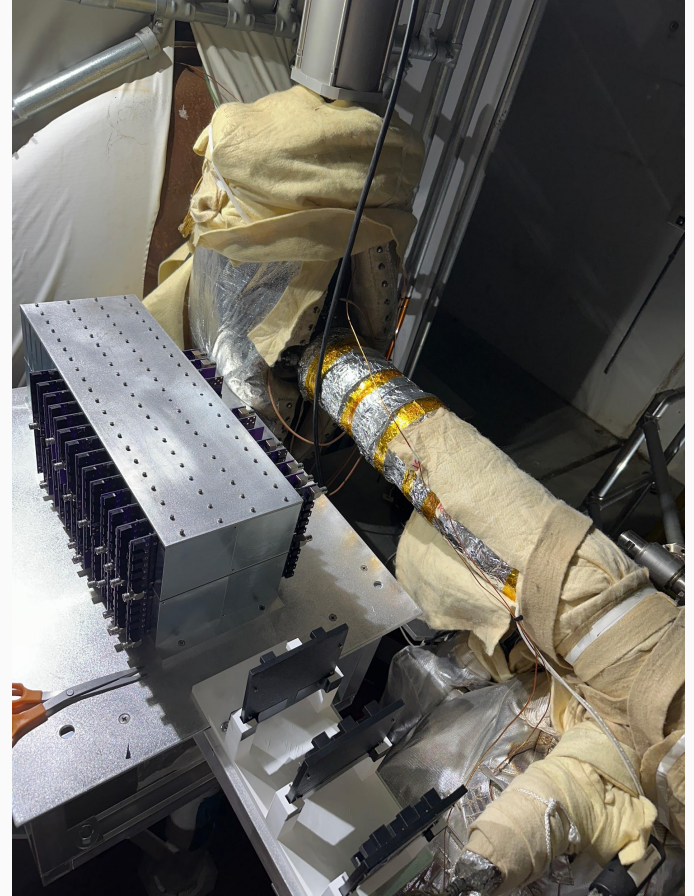
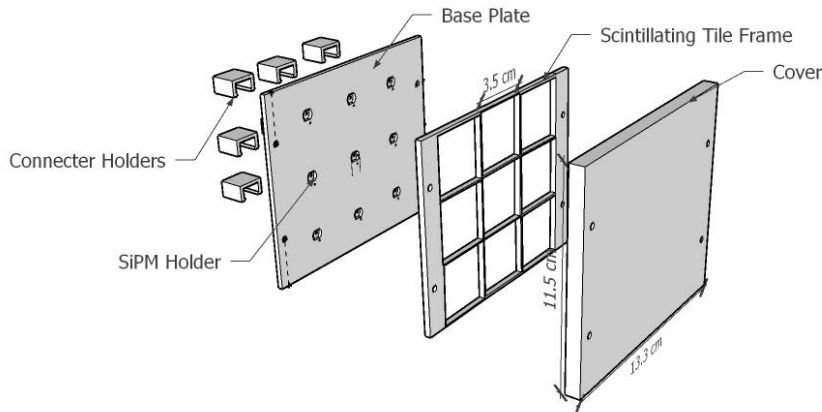
# Prototype Placement

- Center of Prototype  $\sim 45$  cm away from beampipe
- Prototype bolted into table



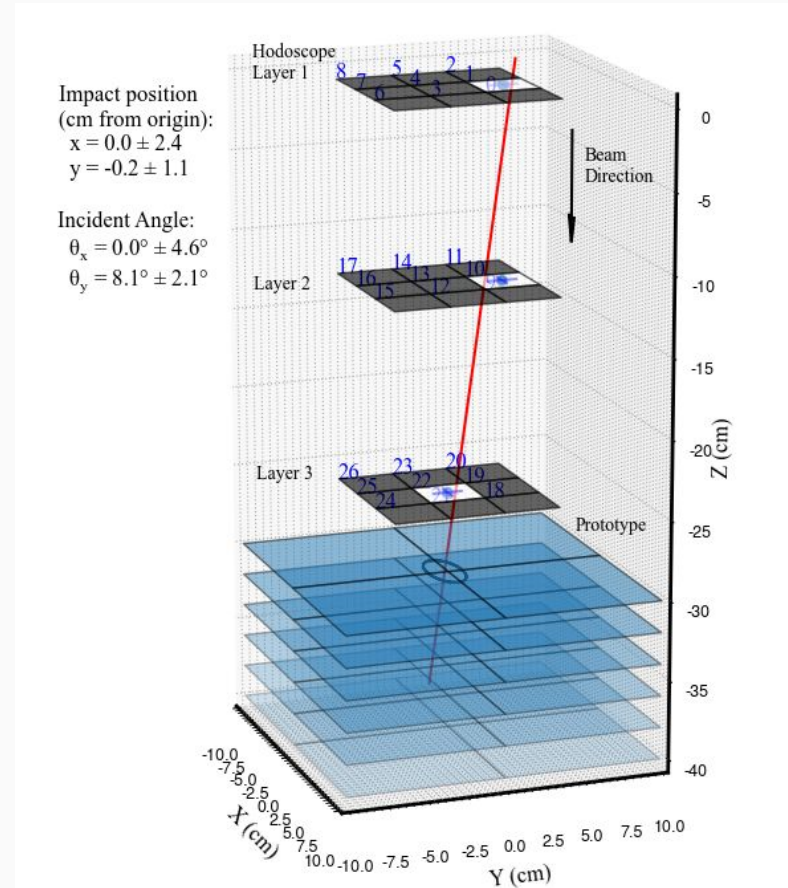
# Introduction of the Hodoscope

- Hodoscope platform added to long table.
- The hodoscope is three sets of 3x3 cell plates.
- Uses SiPM on tile approach. Scintillating tiles painted with reflective white paint.



# Hodoscope Performance with Cosmic Ray Analysis

- A linear vector fit is done through the cells with hits.
- Error is taken as cell size /sqrt(12), or ~1 cm.
- Trajectory mapped onto GEN II Prototype surface at arbitrary position



# Wiring + Dark Box

- Dark box encased around Prototype
- 25 cables used  $\rightarrow$  3 boards and 4 channels of the Hodoscope



Galaxy S22  
February 23, 2024 6:09 PM

# Acknowledgements

