

ePIC Barrel ECal Meeting - 06/12-16/23

Prototype and Beam Test Plans

Discussion Kick-off

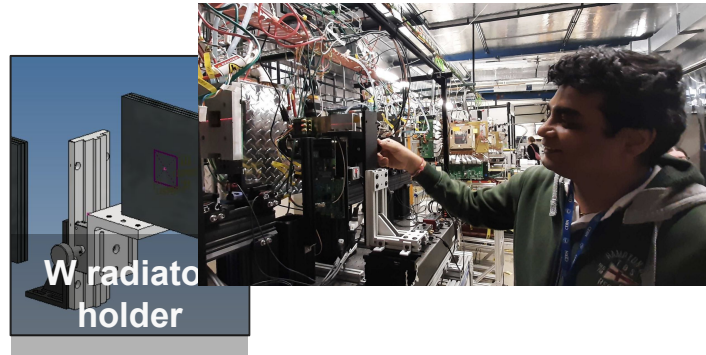
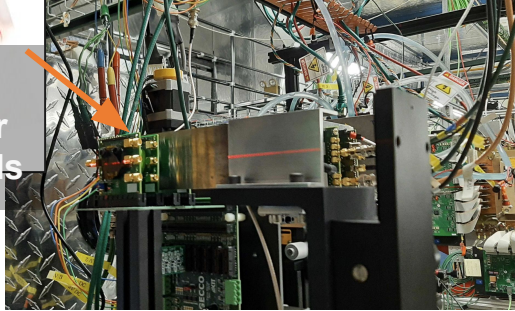
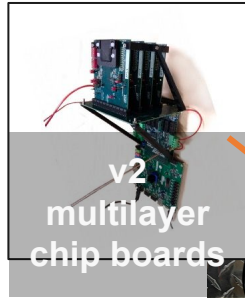
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Prototyping Strategy for the Barrel ECal

1. Small-scale prototype with baby ECal and SciFi/Pb layers and AstroPix chips/layers
 - a. FY24/FY25 (Fermilab MTest goes into shutdown in FY26)
2. Large scale prototyping/first articles:
 - a. AstroPix tracker stave
 - b. Full length prototype for SciFi/Pb (not full depth sector, to test mechanical stresses, integration with tracker staves, etc.)

Small Scale Prototype



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Small Scale Prototype

Goals for the discussion:

- Plan for the next FNAL beamtest: Proposal submission this summer

Shall we have a common SciFi/Pb + ATLAS Telescope/AstroPix proposal?

- Mechanical integration of Pb/ScFi layers and AstroPix boards/layers

Both setups on the same table?

How we mount SciFi/Pb layers? How do we slide in AstroPix layers/chip carrier boards?

- Readout

How do we read out SciFi? Help from JLab?

How do we integrate both?

- Timeline of tasks

What would be the goals for the first run?

- Orders and Resources