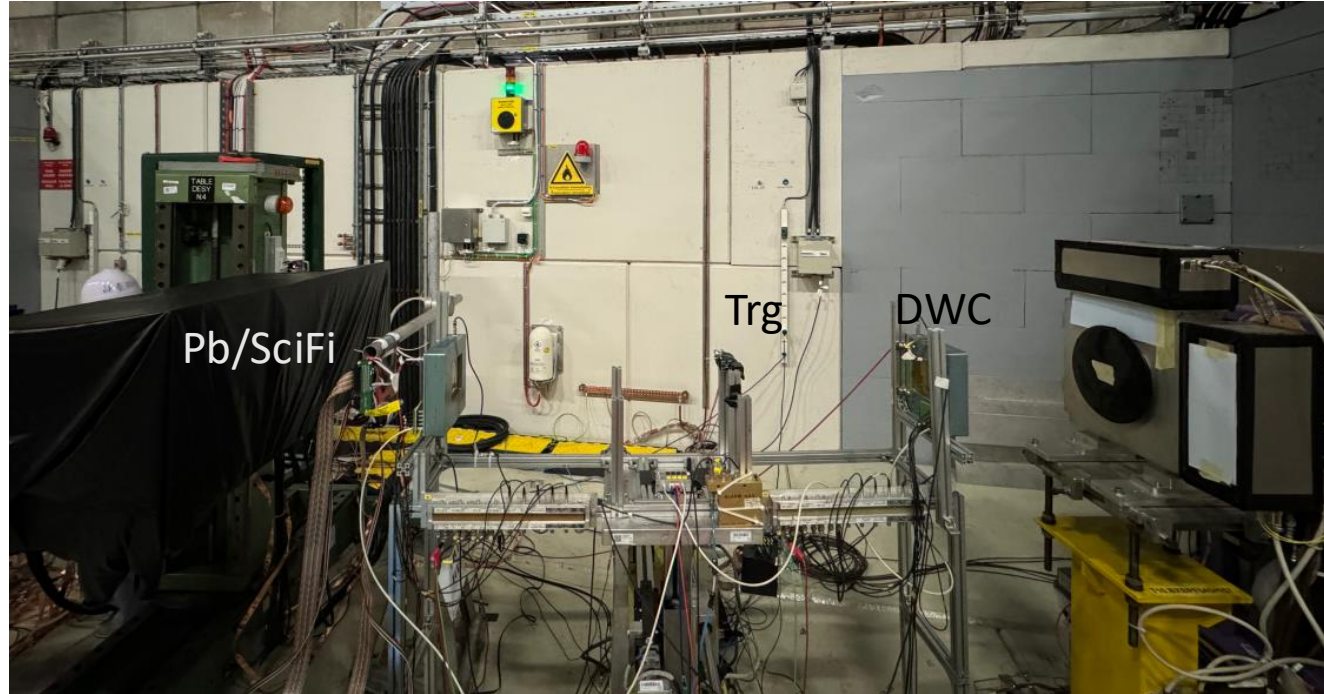
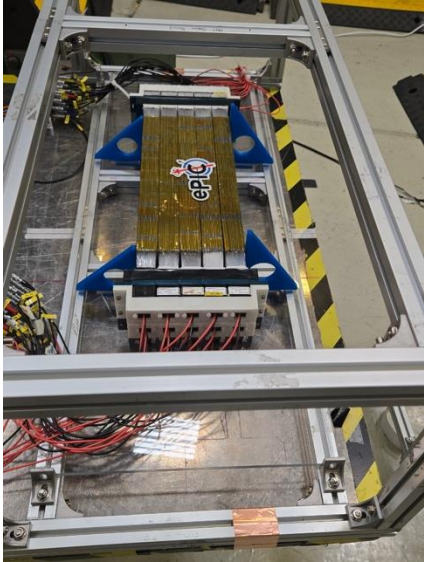


T10 Outgoing: EIC BARREL ECAL (Week 32)

14th/Aug/2024 PS/SPS User Meeting
Jeongsu Bok (Pusan National University)

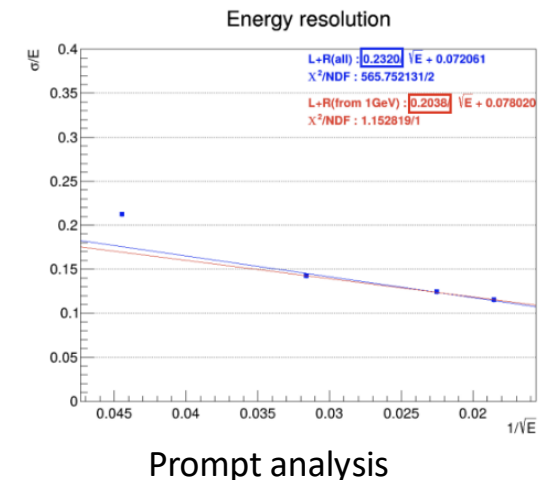
Test Beam Setup



- DWC, Trigger, Pb/SciFi(MCPPMT, SiPM), and others (AstroPix, SciFi Hodoscope)

Status: Program

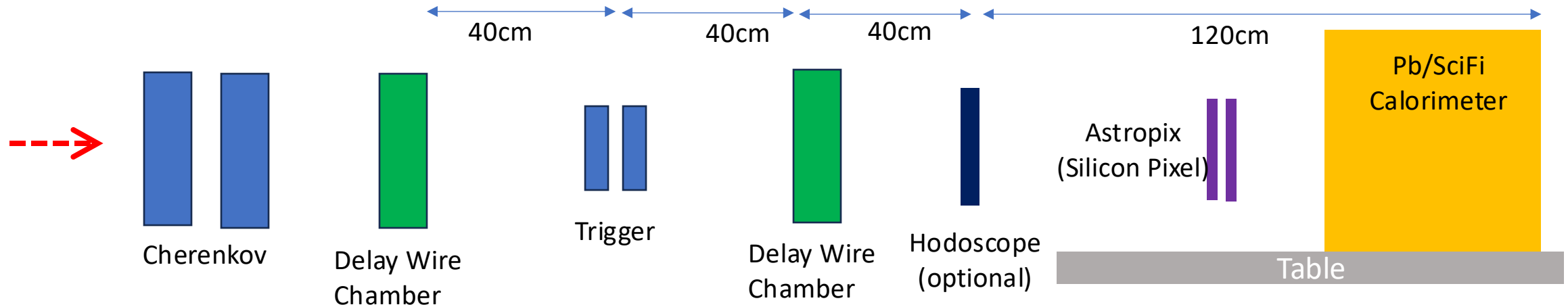
- Calibration study for prototype modules
 - Equalization of calorimeter modules using muon beam
 - Tuning HV for each module to get similar response
- Energy resolution and linearity study using electron beam 0.5~5GeV
 - effect of shower leakage on PMT
- Study a module with SiPM
- Test of Astropix Silicon pixel
- We achieved our main goal for this beam test



Summary

- Successful Beamtest
- We appreciate for support

Backup: Detector Configuration



- Auxiliary Detectors from us:
 - Trigger: ((finger) Scintillator + PMT) x2
 - Optional: SciFi Hodoscope: (1.6x1.6cm active area, 15x15cm size)
- Auxiliary detector request:
 - 2 Cherenkov Counters + 2 Delay Wire Chambers
- Setup: Pb/SciFi only → + AstroPix → + Hodoscope(optional)
- Table over 80cm is better to put AstroPix board and Pb/SciFi together
- DAQ, power supply will be installed in the side of detectors



DAQ from Dual Readout Calorimeter team



Example of other team