

# Forward Ecal Software Status

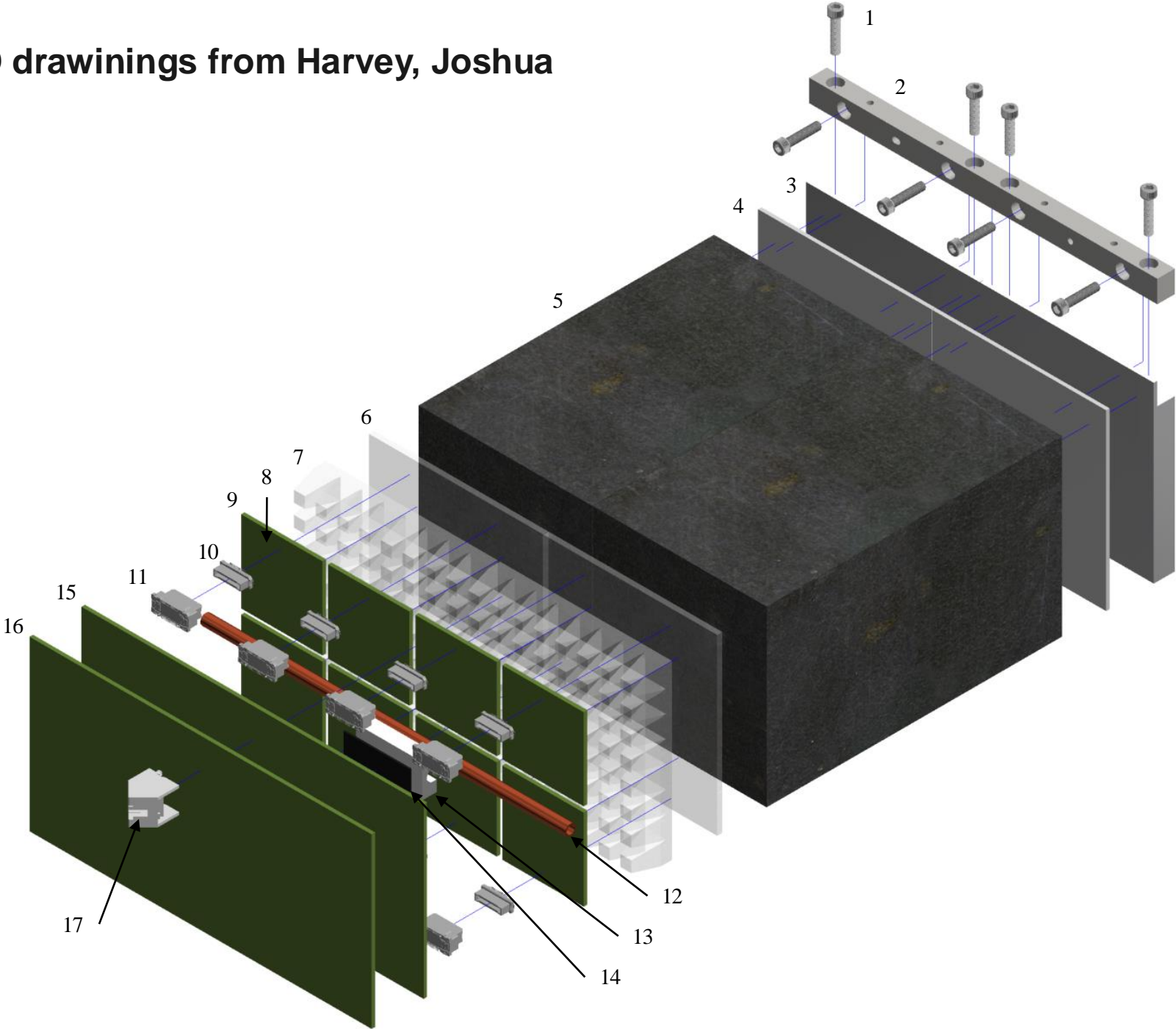
New coordinator : Akio Ogawa

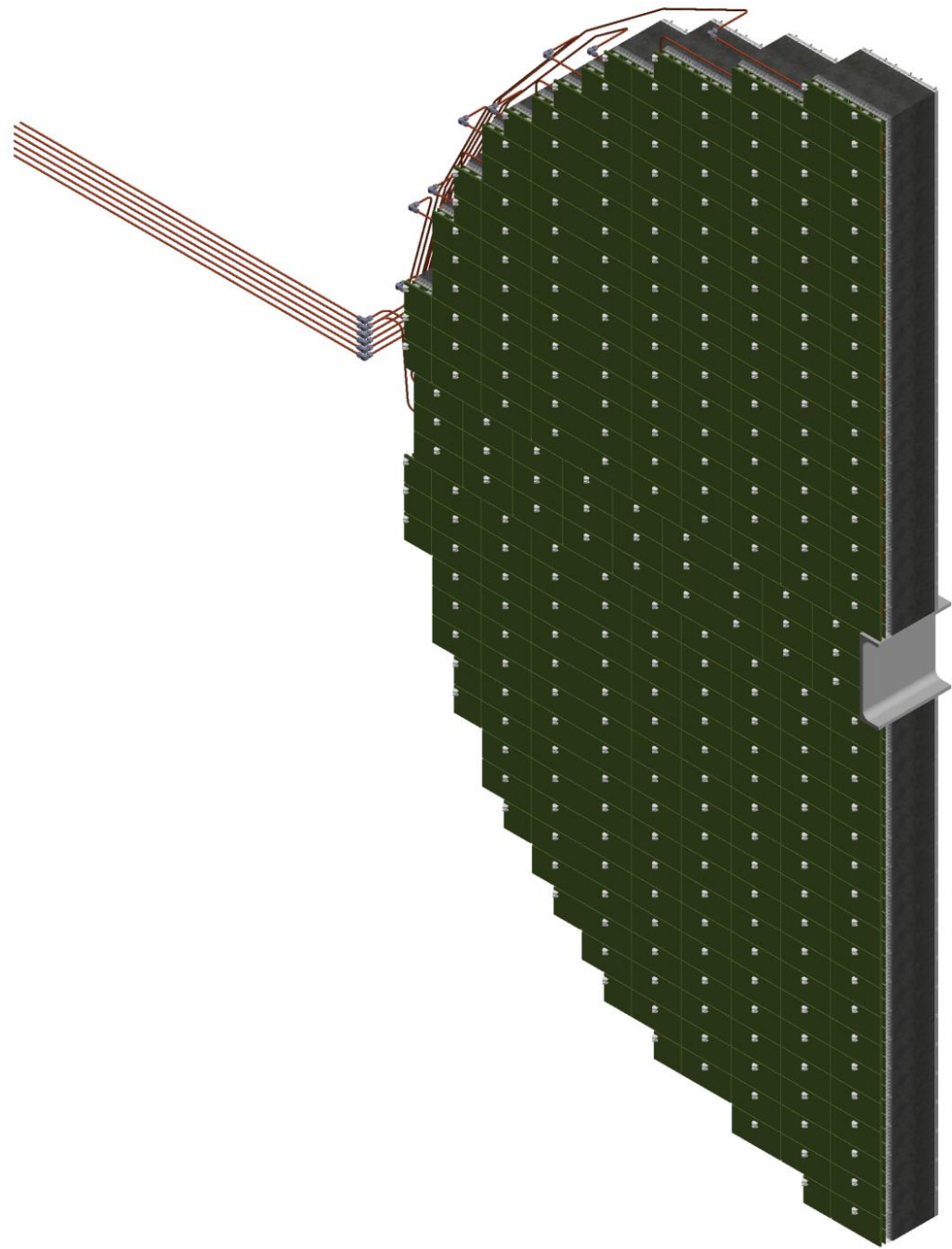
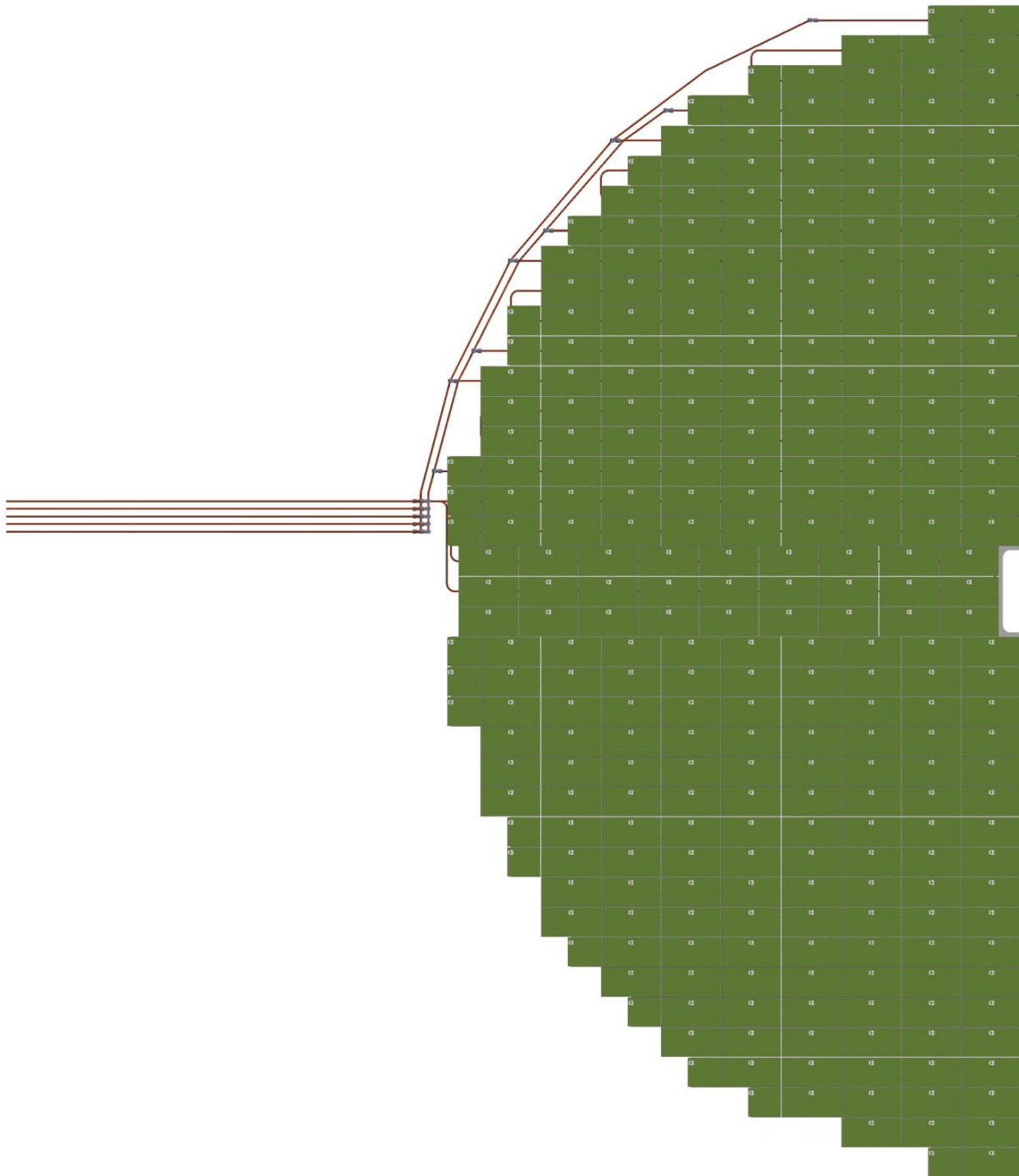
Coordinated : None

- Update Geometry with the current design
  - Currently geometry in MC code is totally symmetric and not updated with current design
  - Block & FeeBd & cooling pipe placements are being finalized
    - Gap tolerance between blocks
    - Gap between north and south halves
  - CAD model is being refined
  - We'll update Geant geometry according to the current design
- Fiber geometry vs Mixture + resolution smearing
  - Study is done and mixture model is sufficient
- Studies on response to low energy hadrons
  - MC showing possibly too much energy loss in Ecal?
  - Need to be checked against test beam
- SiPM Noise ~10MeV @ highest luminosity
  - Against current plan to have ~15MeV digitization threshold
  - This may be insignificant for fEcal
- Pulse Shape Simulator & Fitting algo?
- Clustering, Ecal-Hcal correlations, pi0/photon analysis, etc?

CAD drawings from Harvey, Joshua

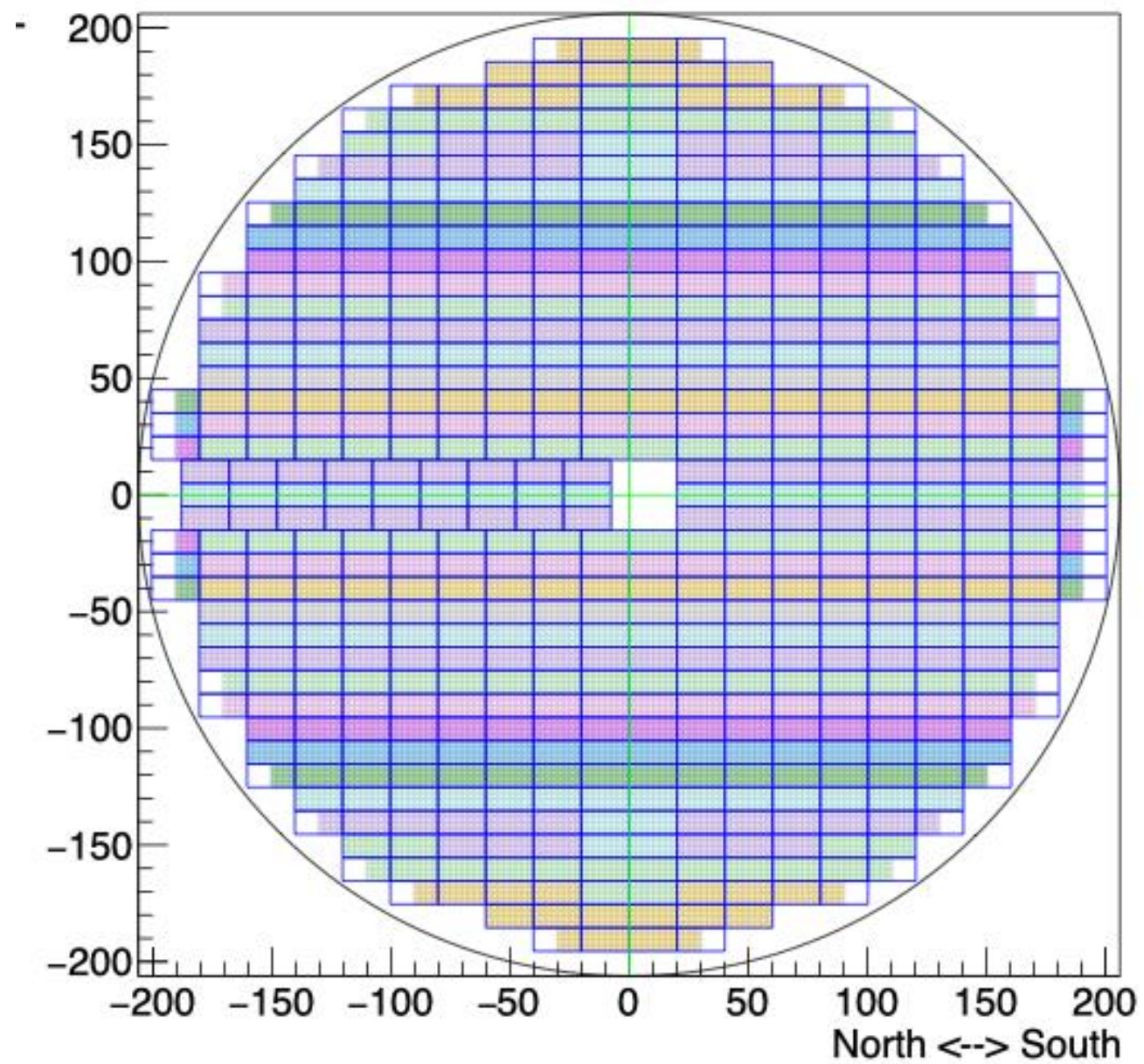
Part Number	Component
1	8-36 Screws
2	Mounting Plate – Top
3	Mounting Plate – Bottom
4	Titanium Dioxide Epoxy
5	Tungsten Sci-Fi Block
6	Light Guide Face
7	Light Guide
8	SiPM (Hidden behind SiPM Board)
9	SiPM PCB
10	Connector MA01R030VABBR600
11	Connector MA01F030VABBR300
12	¼” Copper Tube
13	Aluminum Heat Sink
14	Thermal Pad
15	Pre-Amp PCB
16	Bia PCB
17	Ethernet 615008145121



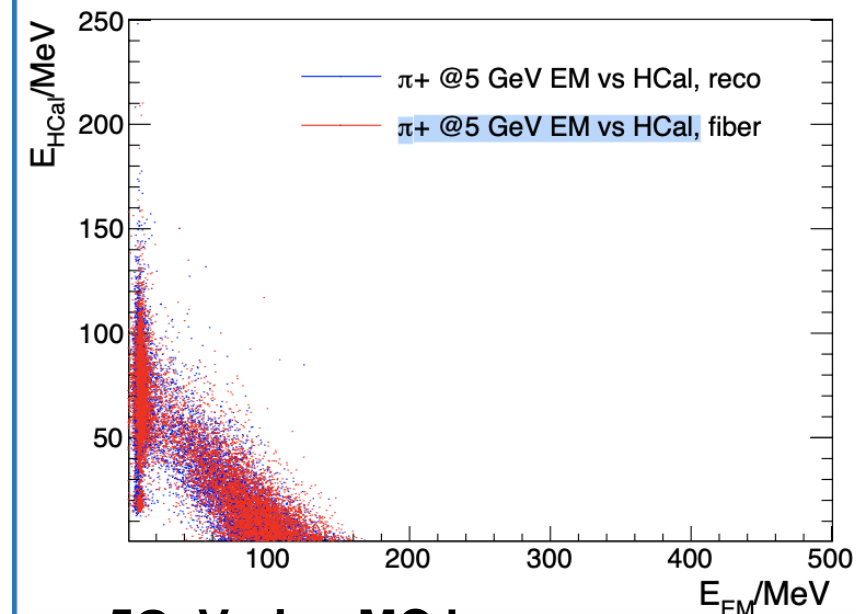




# EPIC fEcal View from IR

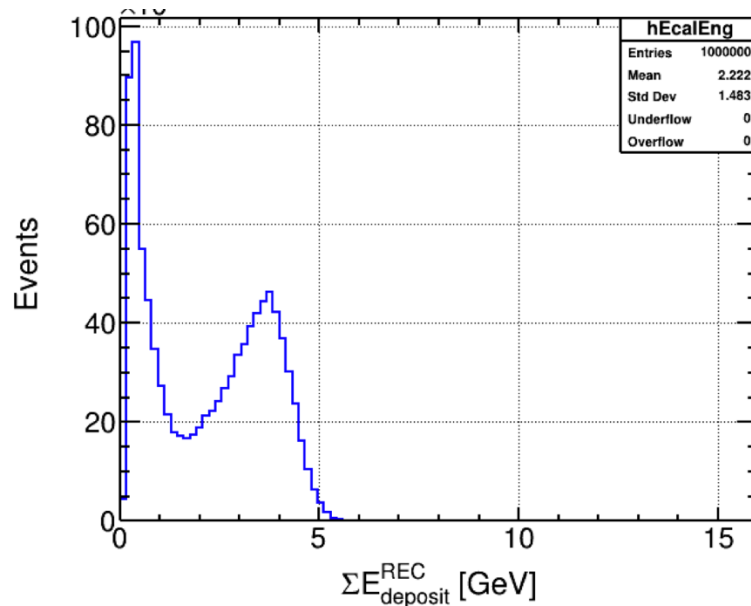
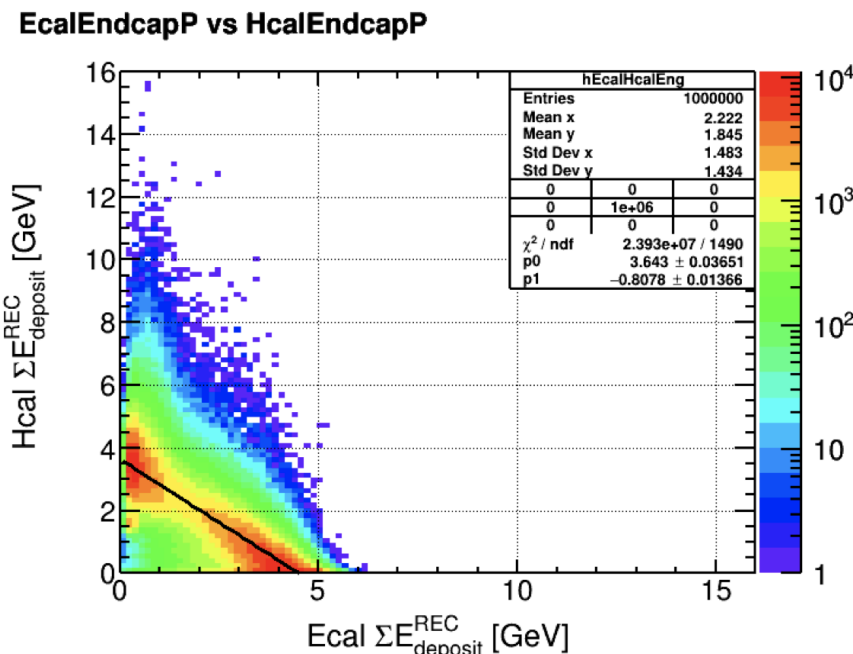


# Response to low energy hadron



5GeV pion MC by  
Zhiwan Xu, Ryan Milton

5GeV Pion MC  
by Jihee Kim



4GeV Pion Test Beam  
(Oleg)

ECuSum corrected on position of the hit

