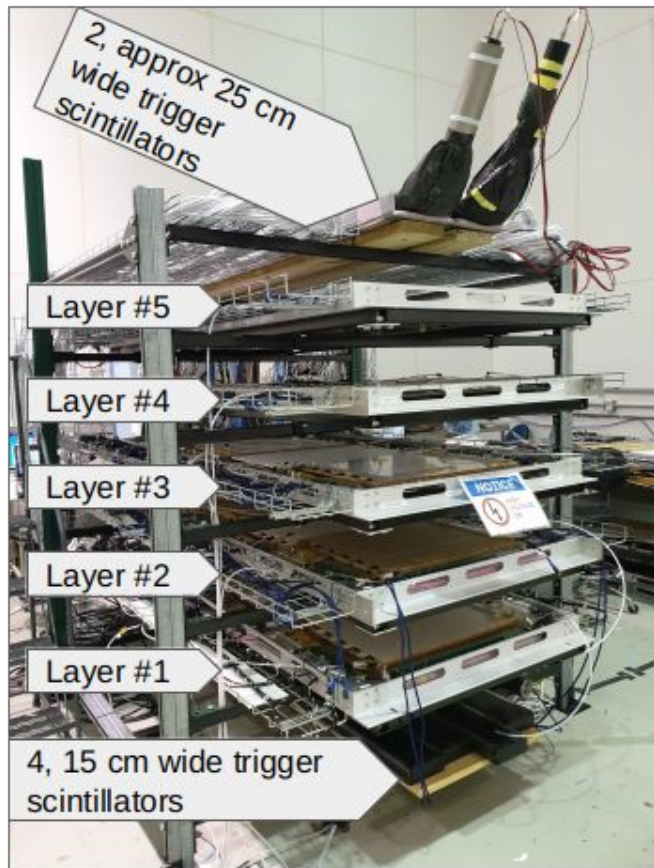


Update on cosmic data

EEL_124 UVa GEM

Thir,Malinga,Anuruddha,Sean

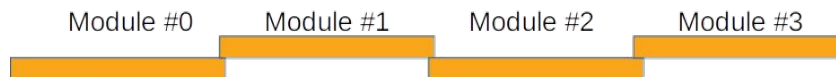
EEL_124 cosmic setup



- Layer#4 & 5 from the original setup
- Layer#1,2 and 3 replaced by newly assembled layers
- Layer 1,3 and 4 -Master Layers
Layer 2 &5 - Slave layers



Master layer side view



Slave layer side view

Cosmic runs with new setup

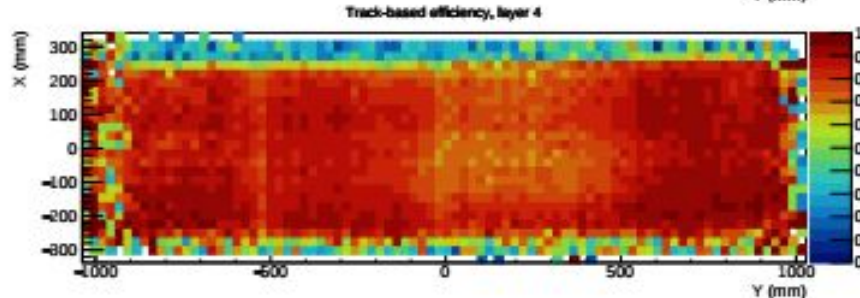
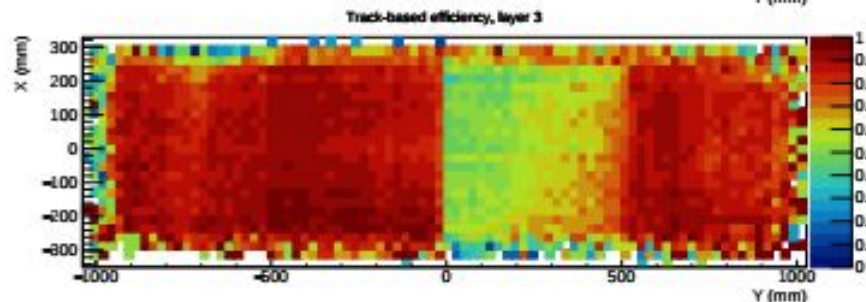
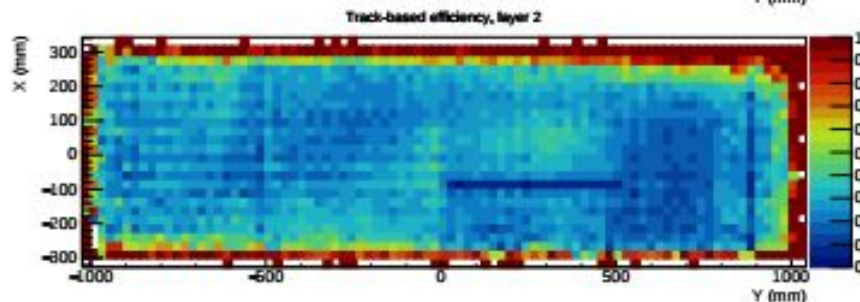
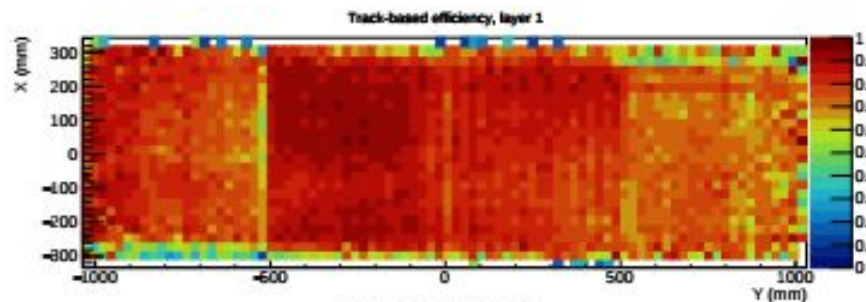
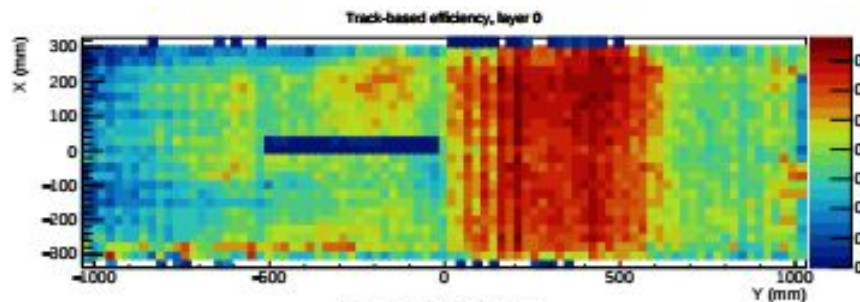
Three sets of long cosmic runs (~1M events).

- Run #2806 (815K) and 2808 (124K).
crate1MPD12 readout error, trigger rate down to zero
- RUN # 2811 (599K) and 2812 (587K)
crate1MPD12 readout error
- Run #2817 (1.15 M)
Coda crashed because of HV trip issue in L5_G2

Tracking Analysis

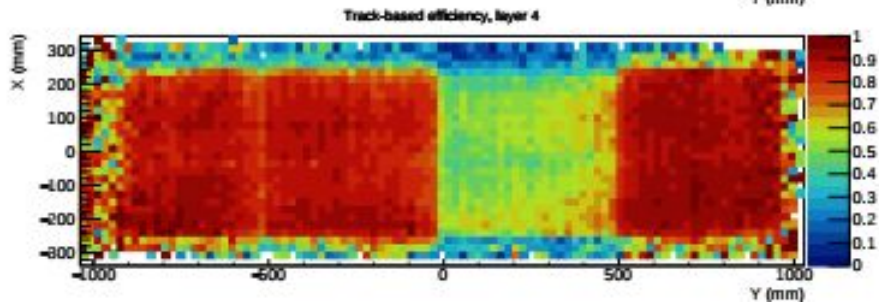
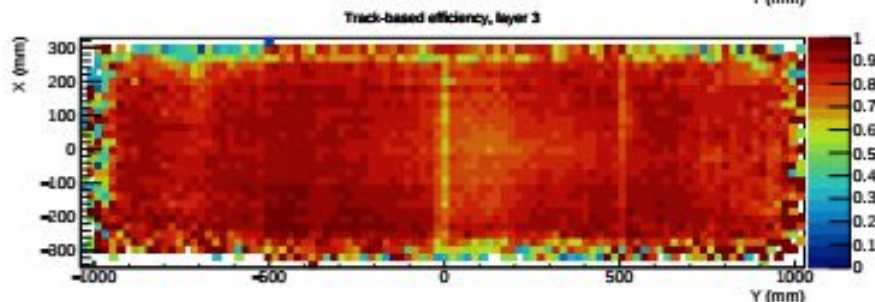
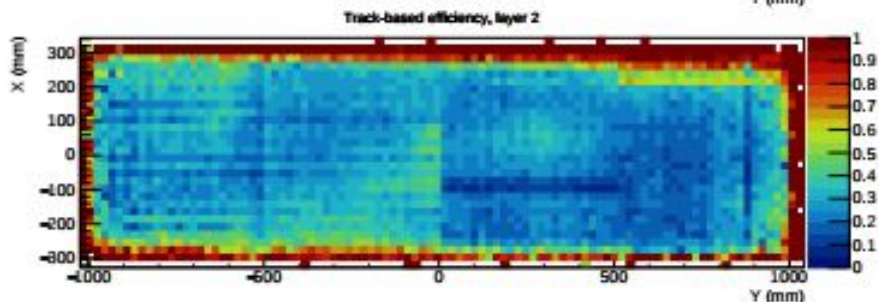
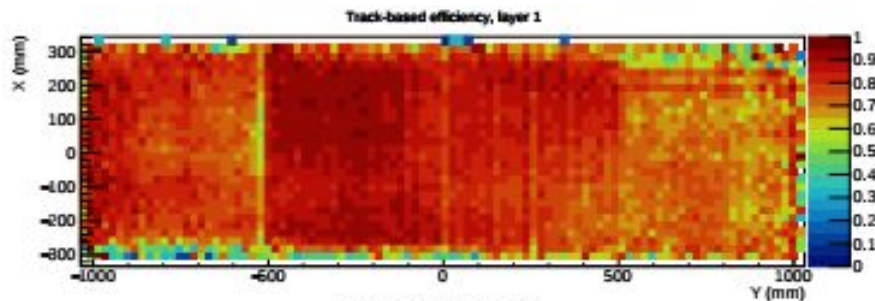
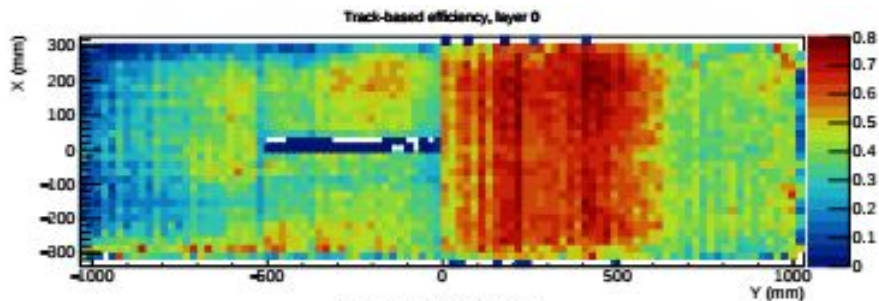
- GEM_reconstruct_standalone_consolidated.C code with original configuration file (config_UVA_EEL_5layer.txt)
- Align using GEM_align.C
- Repeat the first step using aligned configuration.

Run#2806 & 2808



- First 4 layers ->85% divider (4100V equivalent)
- Fifth layer ->std divider (4100V) module #0 -4150V

Run#2811 & 2812



- First 4 layers ->85% divider (4100V equivalent)
- Fifth layer ->std divider (4100V) module #0 -4150V