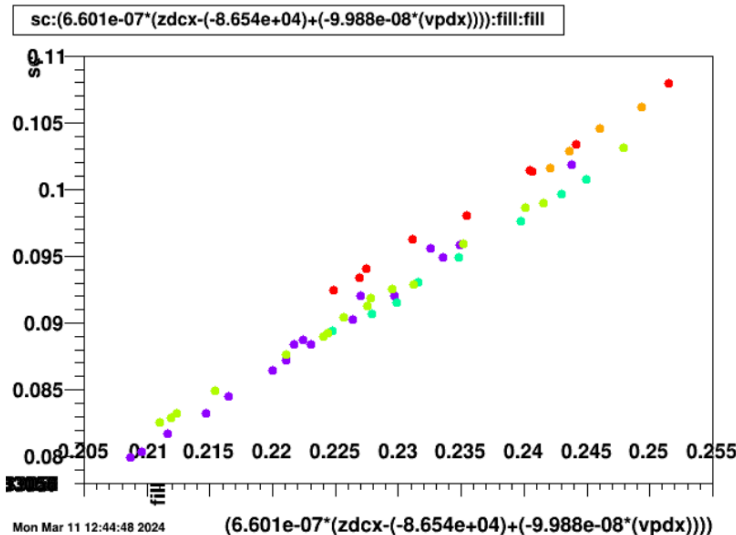
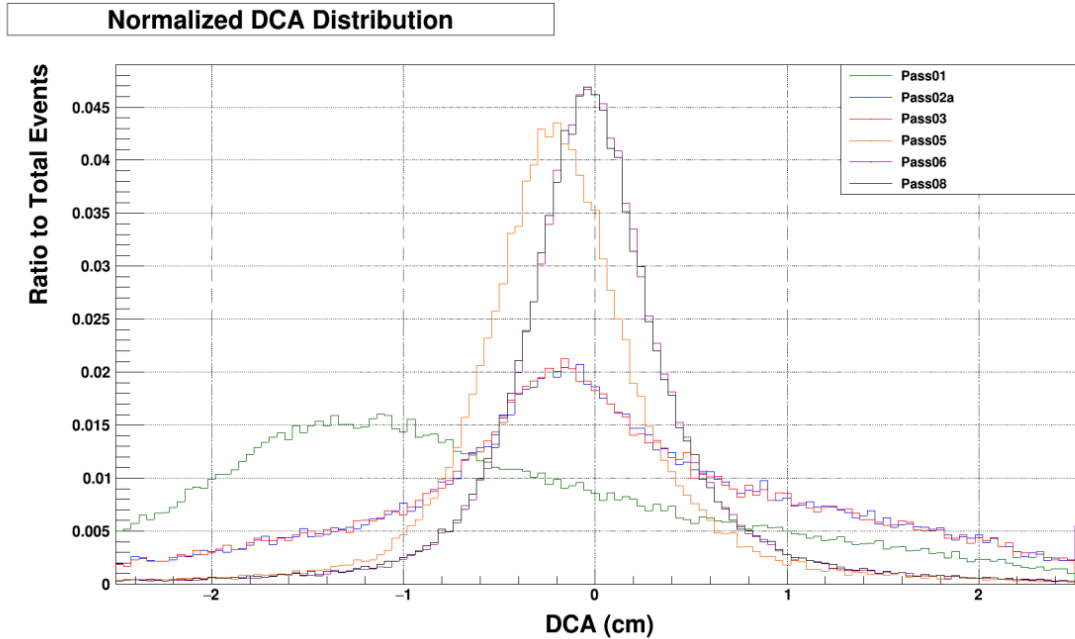


# Discussion: Run 22 production status



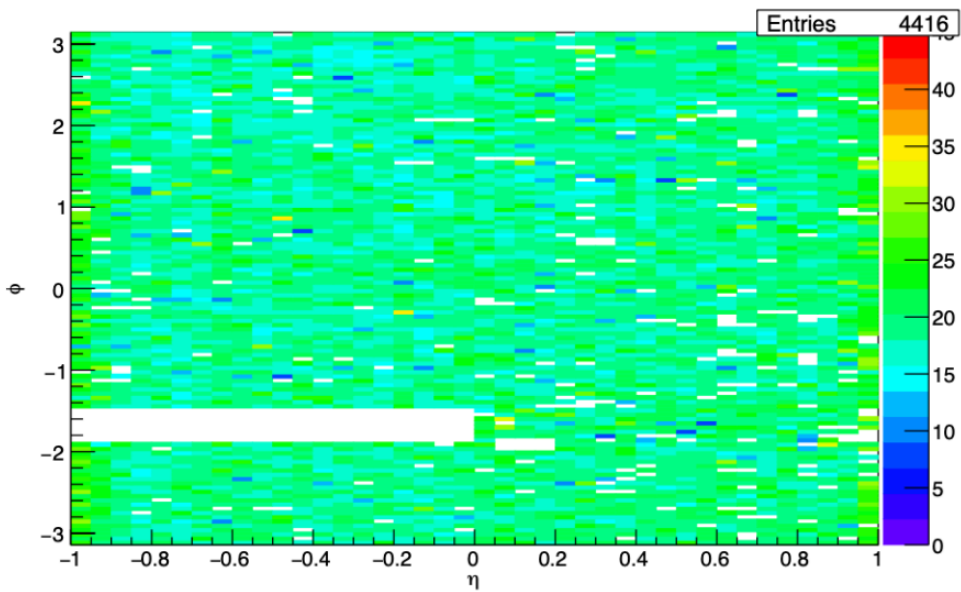
# TPC Space Charge Calibration



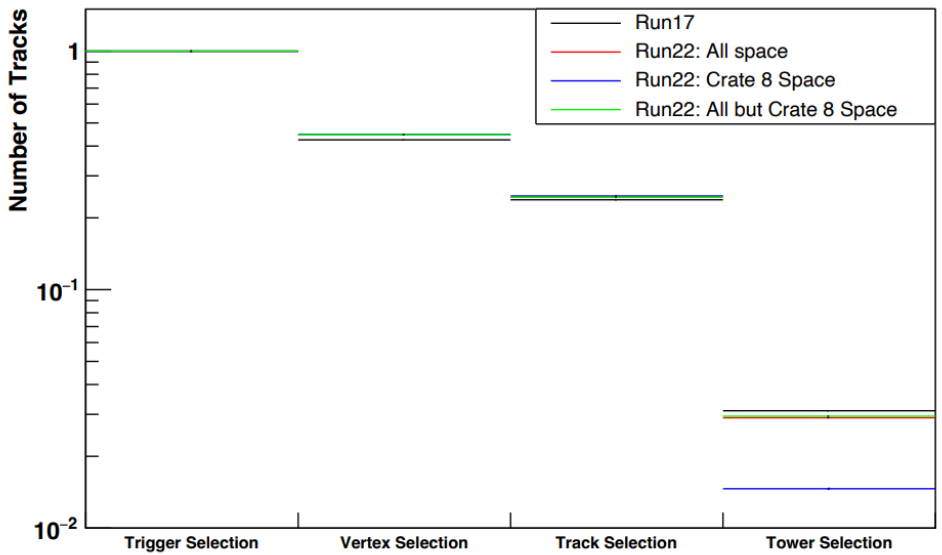
- SC calibration with a small sample (5 consecutive fills) stable after 6<sup>th</sup> iteration (Pass6→8)
- Fill dependence in SC identified → fill-by-fill SC calibration
- The current SC will be used as initial seed
- Fill-by-fill calibration will require 4-8 DAQ files per run → ~150 TB disk space (Gene)
- Rich anticipates full calibration to be completed by late Jun or early July

# BEMC Calibration

$\eta$  vs.  $\phi$  : ADC Means Run22



- Current effort based on preview sample with TPC SC Pass 3
- Towers located at crate 8 with significantly low number of selected MIP signal
- Associated towers in this region are largely rejected at tower-level selection (ADC, Pedestal related)
- Charles has begun looking into unusual characteristics of pedestals in this region



jam



# FCS calibration

- David requested Run 22 st\_fwd production **without** TPC, forward tracking
- Aim is HCAL/ECAL calibration, forward tracking software QA, along with pi0-TSSA

PWGC meeting Apr 12, 2024

### 3) Data production priorities

- Request from coldQCD to produce Run 22 st\_fwd stream with only the raw data from FCS, sTGC and FST – no TPC, no forward tracking
  - Gene informs it will take 3 – 6 weeks to finish the production for this request
  - **Current Priorities: Reproduction of FXT datasets from Run20 with SL24a (fix for tracking acceptance issue + ETOF update for status flag and partial readout) > Run 22 st\_fwd stream (?) > FXT datasets from Run21 [Run21 3.85 FXT I (3.0) > 3.85 FXT II (3.0) > (Run20+21) 26.5 FXT (7.2) > 44.5 FXT (9.2) > 70 FXT (11.5) > 100 FXT (13.7)] with SL24a (fix for tracking acceptance issue, no ETOF calibration) > FXT datasets from Run21 with ETOF calibration**
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- Production request received by Sooraj, DAQ retrieval will commence ASAP alongside Run 20 FXT
- Gene anticipates ~6 weeks for full reproduction

# Summary

- TPC SC calibration
  - Significant progresses have been made with the initial sample
  - Full fill-by-fill calibration is planned
  - Estimate: late June – early July until completion
- BEMC calibration
  - Current effort focuses on relative gain calibration with preview sample
  - Suggestion:  
TPC SC calibration on the horizon → formation of BEMC task force
  - Any help with people power always welcome
- FCS calibration
  - St\_fwd production requested
  - ~6 weeks for production