

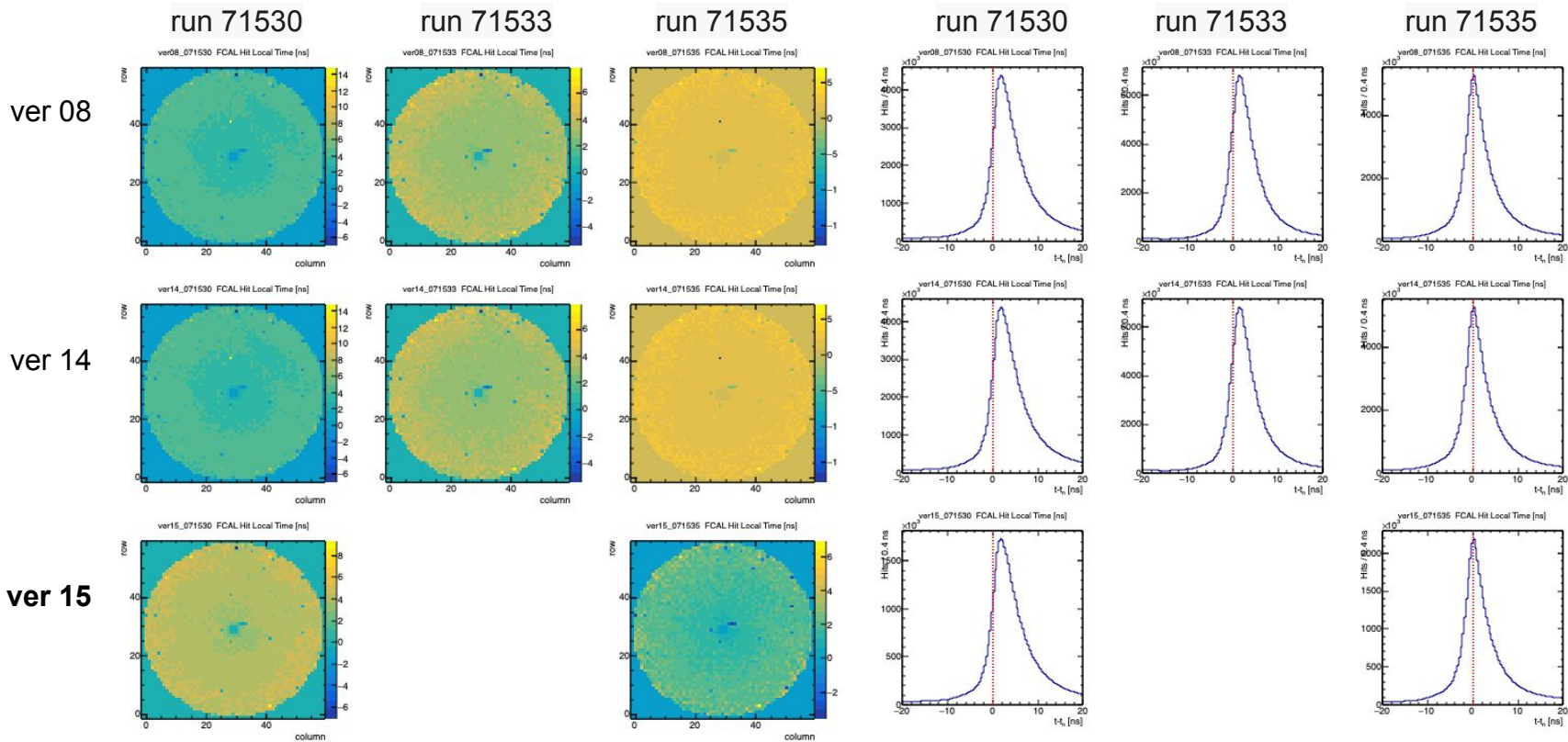
# FCAL monitoring IV

RunPeriod-2019-11 ver15/16 - Batch 1-6

- **Batch 1 (ver08):**
  - timing shift in fcal hits 2 before incl. run 71533
- **Batch 2 (ver08):**
  - run 71598
    - FCAL Hits 1: rel more low-energy background,
    - FCAL Hits 2: time distribution sharper
  - run 71672
    - FCAL Hits 1: rel more low-energy background
    - FCAL Hits 2: time distribution sharper
    - Recon FCAL Matching: track distance vs theta island less pronounced
  - run 71692
    - FCAL Hits 1: rel more low-energy background
    - FCAL Hits 2: time distribution sharper
    - Recon FCAL Matching: track distance vs theta island less pronounced
- **Batch 3 and 4 (ver08):** no FCAL comments
- **Batch 5 (ver12):** no FCAL comments
- **Batch 6 (ver12):** see below

# FCAL monitoring RunPeriod-2019-11 Batch 1 (runs 71350 - 71591)

in ver08: timing shift in fcal hits 2 before incl. run 71533 (empty target run) , Colin: due to LEDs ? physics events look ok.

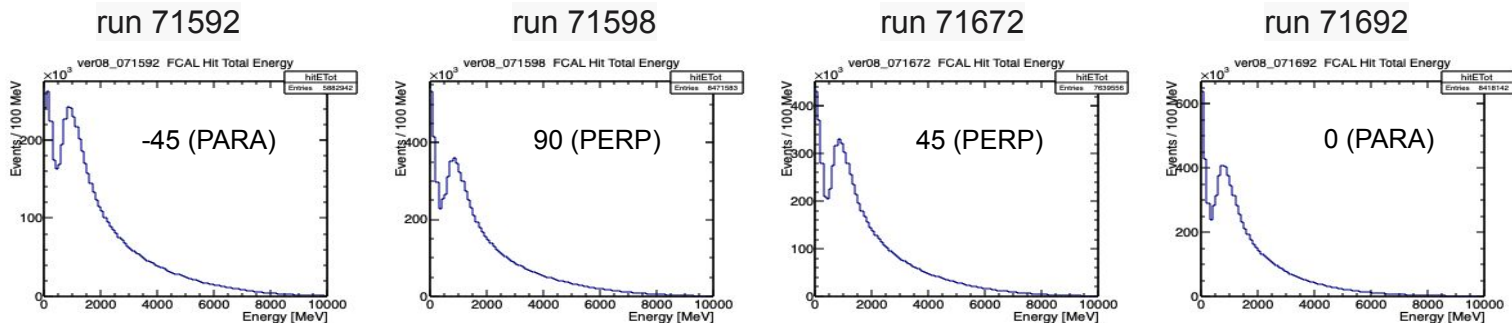


--> Colin suggested: include a plugin that makes these plots for only physics events ?

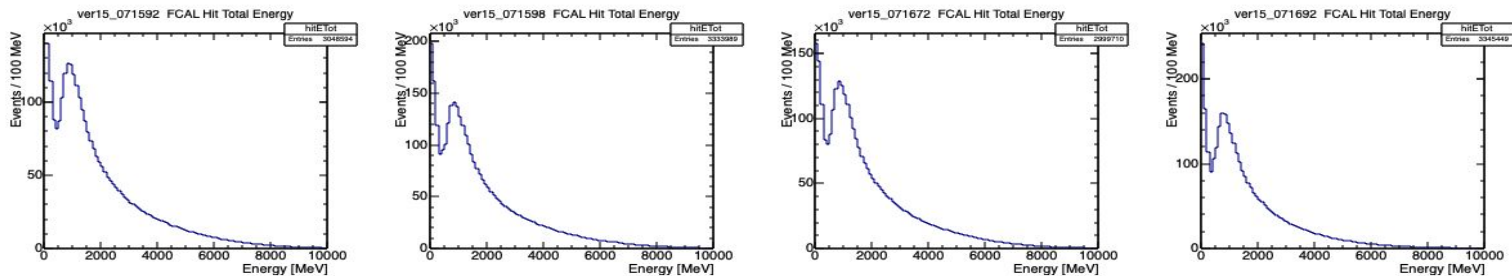
# FCAL monitoring RunPeriod-2019-11 Batch 2 (runs 71592 - 71727)

in ver08: FCAL Hits 1: rel more low-energy background, FCAL Hits 2: time distribution sharper

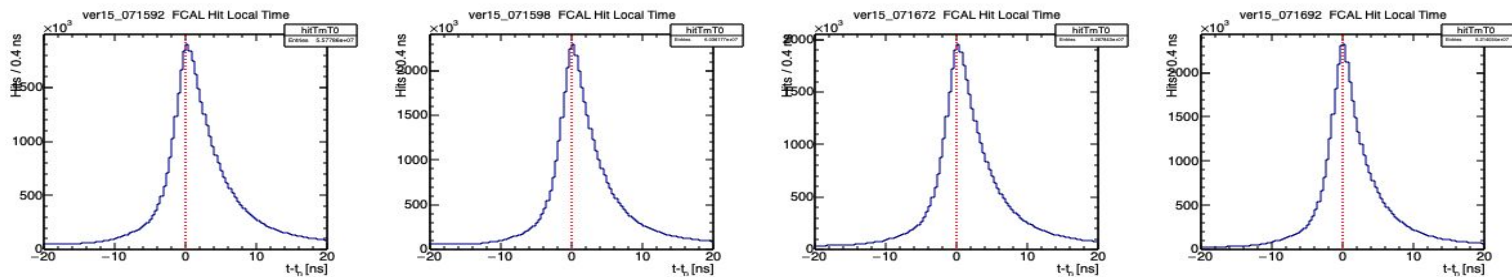
ver 08



ver 15



ver 15



# FCAL monitoring RunPeriod-2019-11 Batch 2 (runs 71592 - 71727)

in ver08: FCAL Hits 1: rel more low-energy background,  
FCAL Hits 2: time distribution sharper,  
Recon FCAL Matching: track distance vs theta island less pronounced

ver 15:

-45 (PARA)

90 (PERP)

45 (PERP)

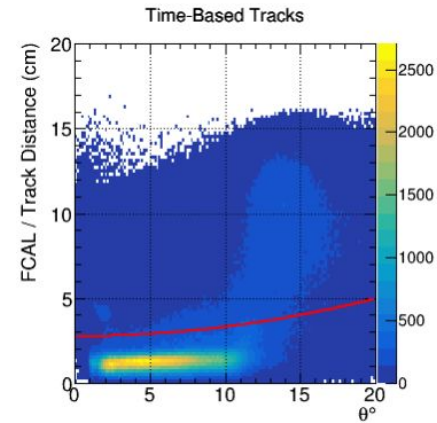
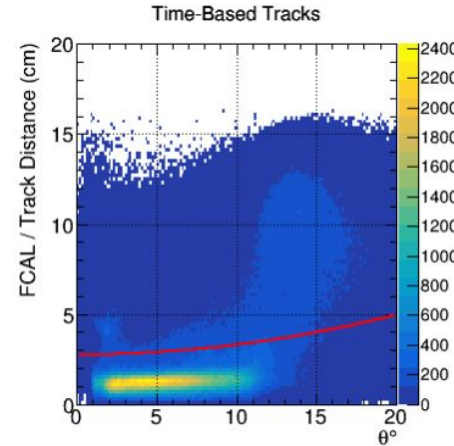
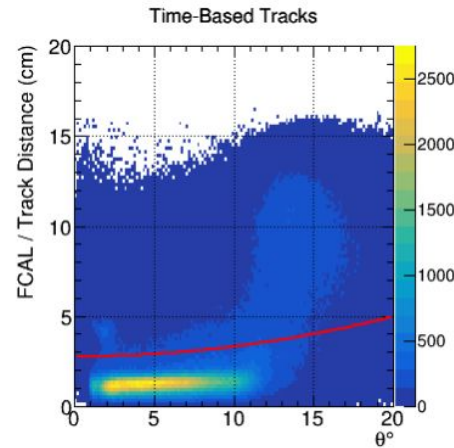
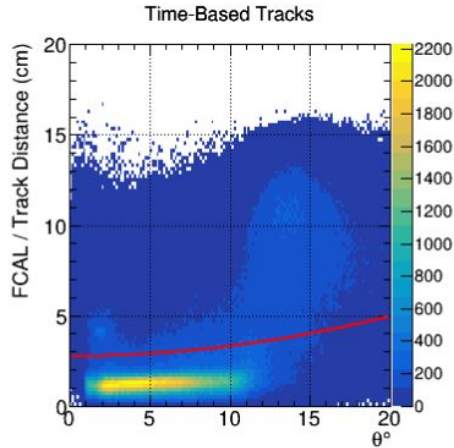
0 (PARA)

Run071592 info

Run071598 info

Run071672 info

Run071692 info



# FCAL monitoring

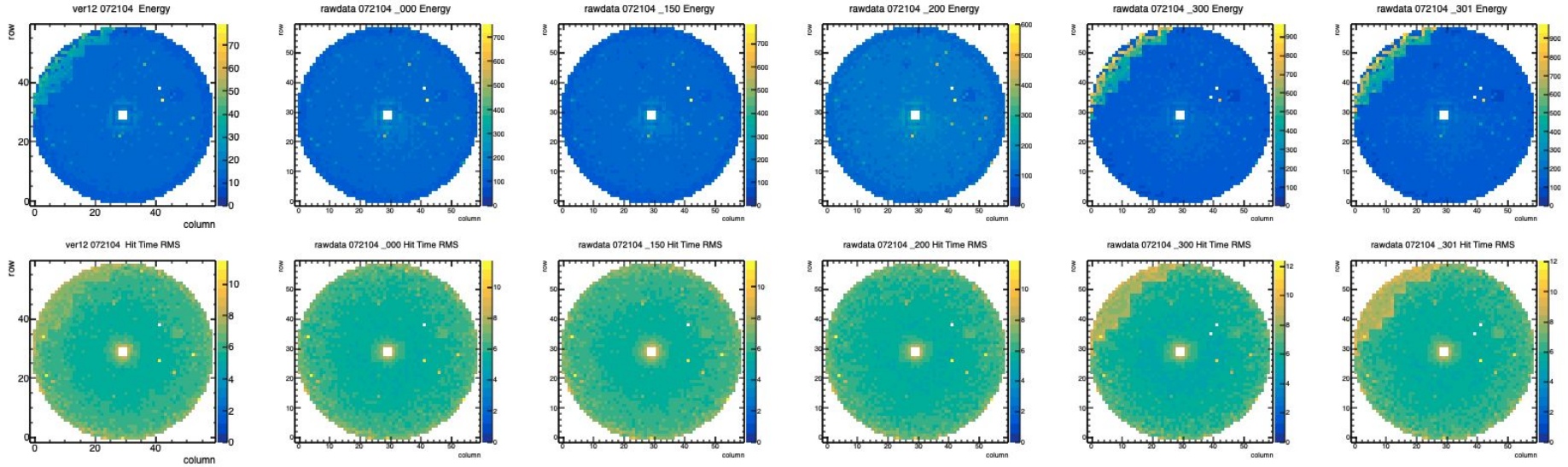
RunPeriod-2019-11 ver12 - Batch 6 (runs 72068 - 72163)  
ver16

	72068 (used as ref)	72094	72099 (AMO)	72104*	72113*	72123* (AMO)	72124 (AMO)	72125 - 72162	72163*
FCAL Local Hit Time RMS: wider for outer 'rings'		ver12	ver12				ver12		
FCAL Local Hit Time RMS: structure upper left quadrant egde				ver12	ver12	ver12			ver12
FCAL Hit Average Energy: structure upper left quadrant egde				ver12	ver12	ver12			ver12
FCAL Neutral Shower dt vs Energy: vertical bands				ver12	ver12				
FCAL Neutral Shower dt vs Energy: horizontal bands						ver12		ver12	ver12

\*overall quality: no

not yet  
checked  
for ver16

# Suggestion: Check on history within run



## Owl shift summary 03/07/2020

Lognumber 3798927. Submitted by dlersch on Sat, 03/07/2020 - 00:11.

Last updated on Sat, 03/07/2020 - 08:00

## Logbook

Logbooks: HDLOG  
Entry Makers: dlersch  
Backlinks: Hall D Shift Leader Log 2020-03-07 DAY

0:00 - Daniel takes over the shift from Sebastian, currently running 350nA @ JD70-105 47um 0/90 PARA

1:14 - Kevin noticed that counts in the upstream beam profiler are missing, please see entry: <https://logbooks.jlab.org/entry/3798964>

1:21 - Restarted the troubling beam profiler hv channel (hvx 1) --> Problem seems to be fixed, see: <https://logbooks.jlab.org/entry/3798968>

1:33 - Stopped run 72104, switching rotation from PARA to PERP for next run

1:39 - Started run 72105, had to nudge coherent peak a bit -> screenshots of coherent peak edge are attached

3:45 - Stopped run 72105, start next run with same configuration

3:55 - Antonio arrives to replace Kevin as a worker

5:47 - Stopped run 72106, switch radiator to: JD70-105 47um 45/135 PARA

6:03 - Start run 72107, lost few minutes due to adjustment of coherent peak edge (+ beam was gone a few times) -> see attachment

7:42 - Mark arrives, to take over the day shift

last check on spectra:

## Hall-D Monitoring Plots Run 72104

Hall-D Monitoring Plots for Sat Mar 7

00:23:57 2020 33/33 pages generated

