

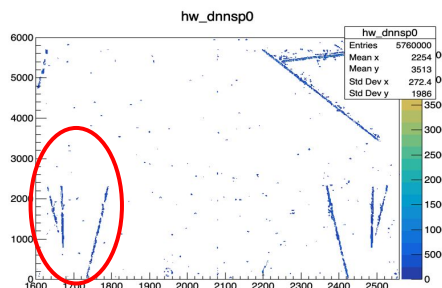
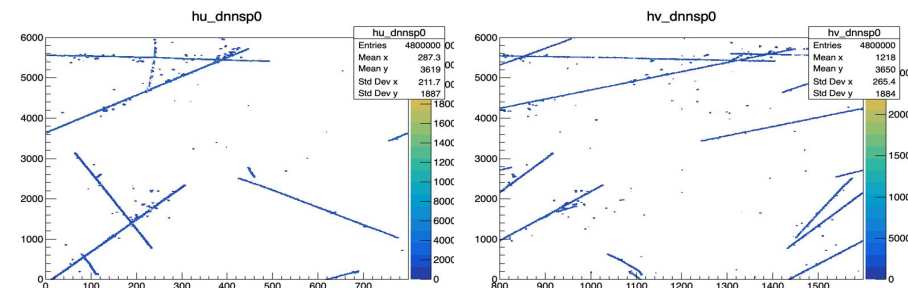
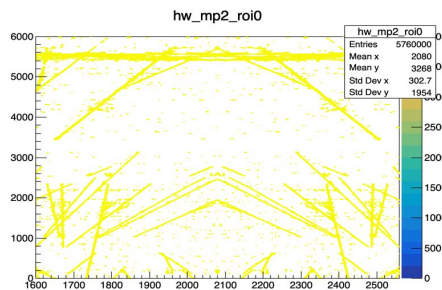
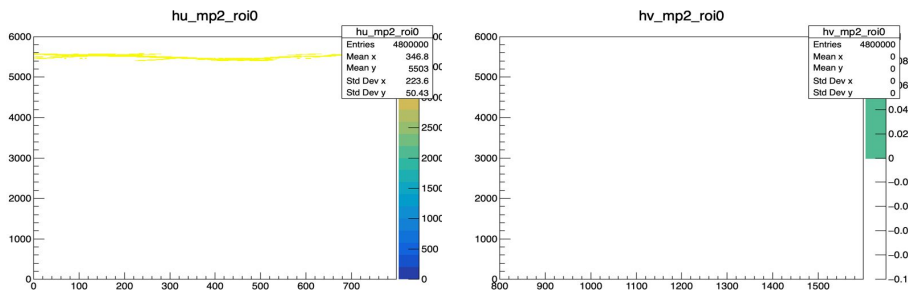
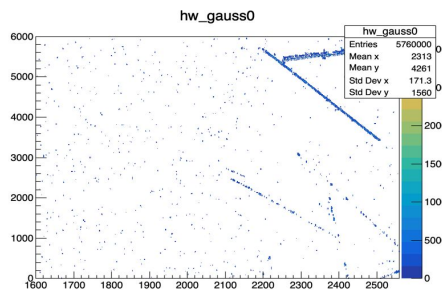
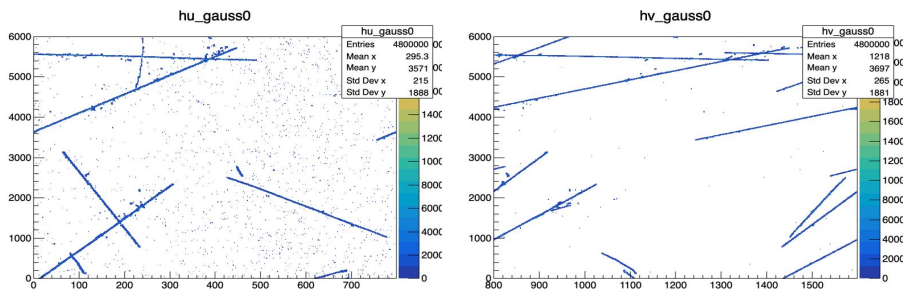


# Status report on **DNNROI sigproc**

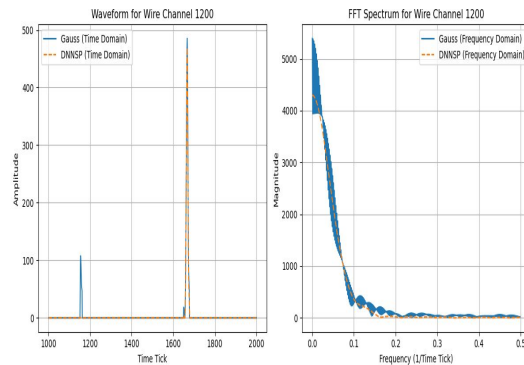
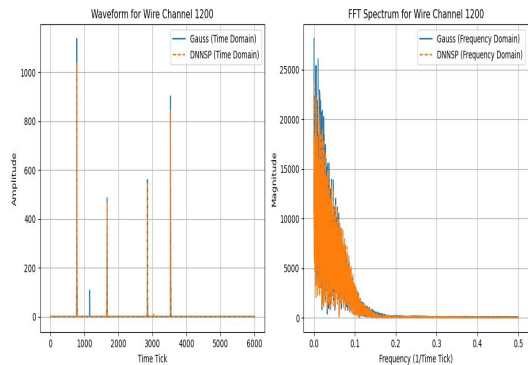
Hokyeong Nam  
Chung-Ang University

# Lar WCT sim - cosmic rays

- Updated field response is applied
- Problems in MP2 ROI
- Fake track appears in the w plane
- Reviewed “ROI\_refinement.cxx”, but this seems not the cause

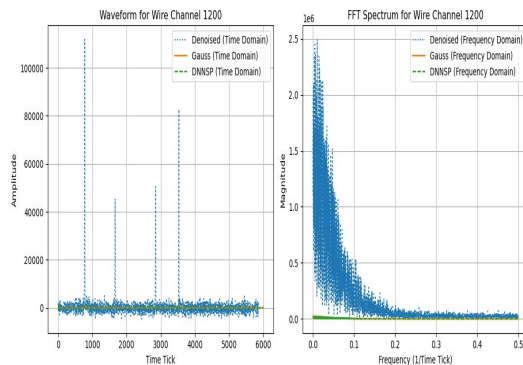
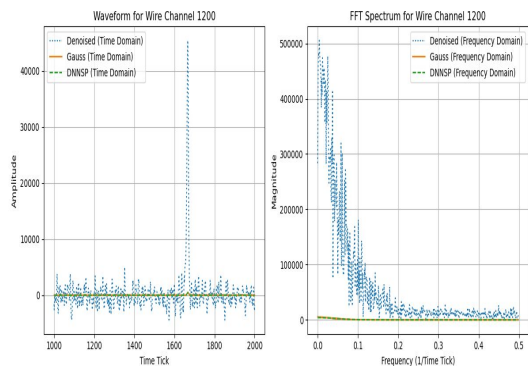


# PDHD data - waveform (NF, Gauss, and dnnsnp) APA0

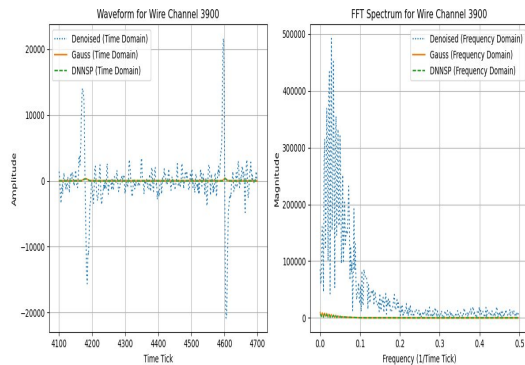
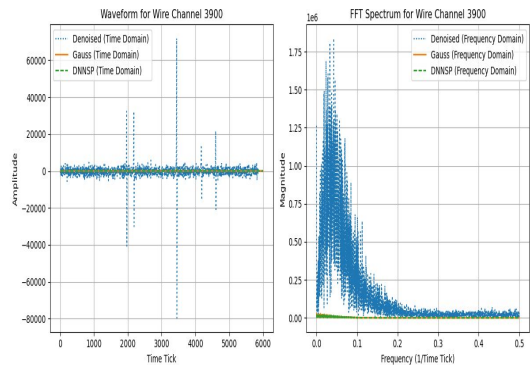
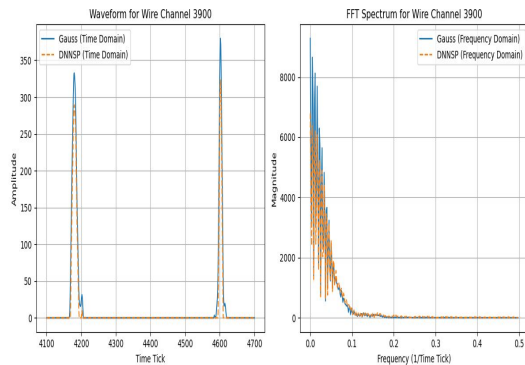
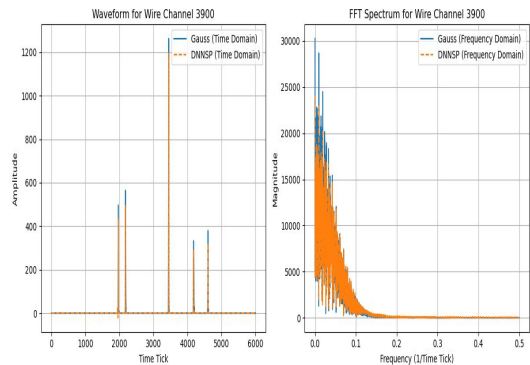


➤ Can I use after NF info. for evaluation?

➤ Amplitude should be fixed



# PDHD data - waveform (NF, Gauss, and dnnsnp) APA1

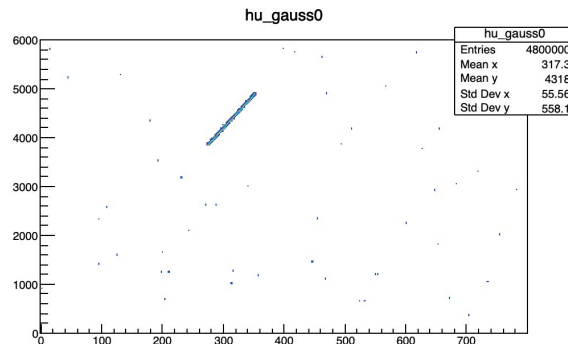


# WCT standalone sim - errors in wire channels and time ticks for truth file

```
channels_deposplat0      Dataset {282287}  
frame_deposplat0         Dataset {282287, 1090}  
tickinfo_deposplat0      Dataset {3}
```

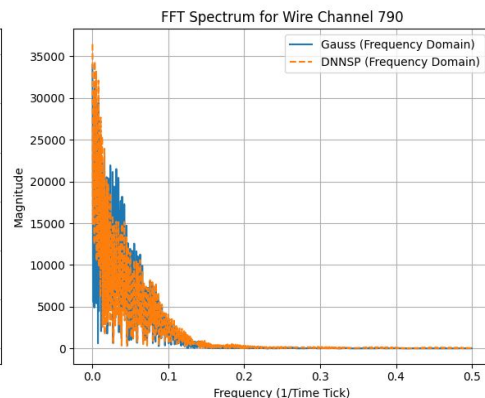
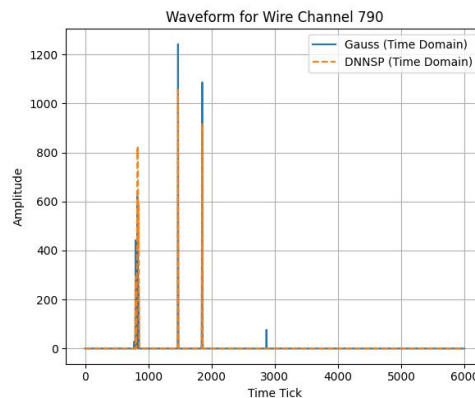
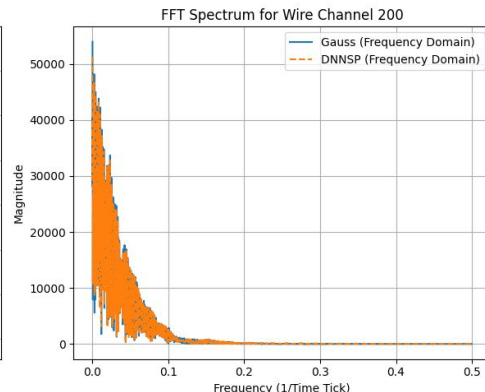
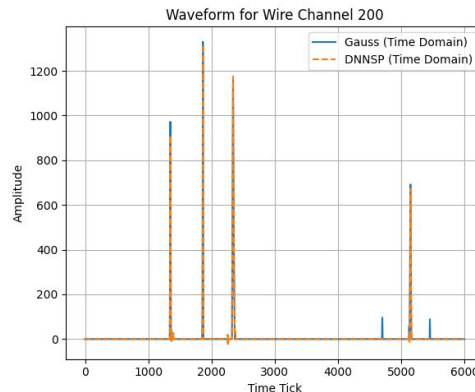
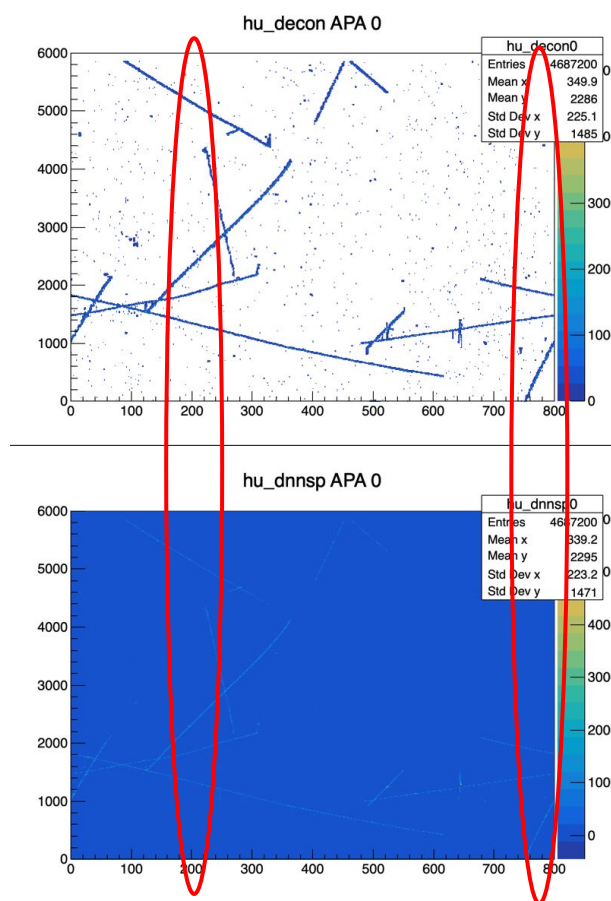
```
[05:04:50.648] D [ gen ] <DepoFluxSplat:0> splat 0 ndepos=17555/18461/[0] ntraces=282287  
[05:04:50.656] D [ hio ] <HDF5FrameTap:hio_truth0> HDF5FrameTap: see frame #0 with 282287 traces with frame tags: "deposplat0" and trace tags: looking for tags: "deposplat0"  
[05:04:50.902] D [ hio ] <HDF5FrameTap:hio_truth0> gzip:0 chunks:[0,0]  
[05:04:53.916] D [ hio ] <HDF5FrameTap:hio_truth0> saved /0/frame_deposplat0 with 282287 channels 1090 ticks @t=-0.3125 ms qtot=20811468  
[05:04:53.929] D [magnify] MagnifySink: opening for output: pdhd-sim-check-deposplat_hk_03262025_1track.root with mode UPDATE  
[05:04:53.949] D [magnify] MagnifySink: tag: "deposplat0" with 282287 traces
```

- Leading OOM error on dunegpvm machine
- Restricted generating multiple tracks



# Back Up

# DNNROI SP - PDHD data



- APA0 - u plane
- 1d wave form in time domain v.s. frequency domain