updating wire geometries for 1x8x14

- Thanks to Laura and Slavic for updating the gdmls
- do we need to update 1x6x6 and 1x8x6?

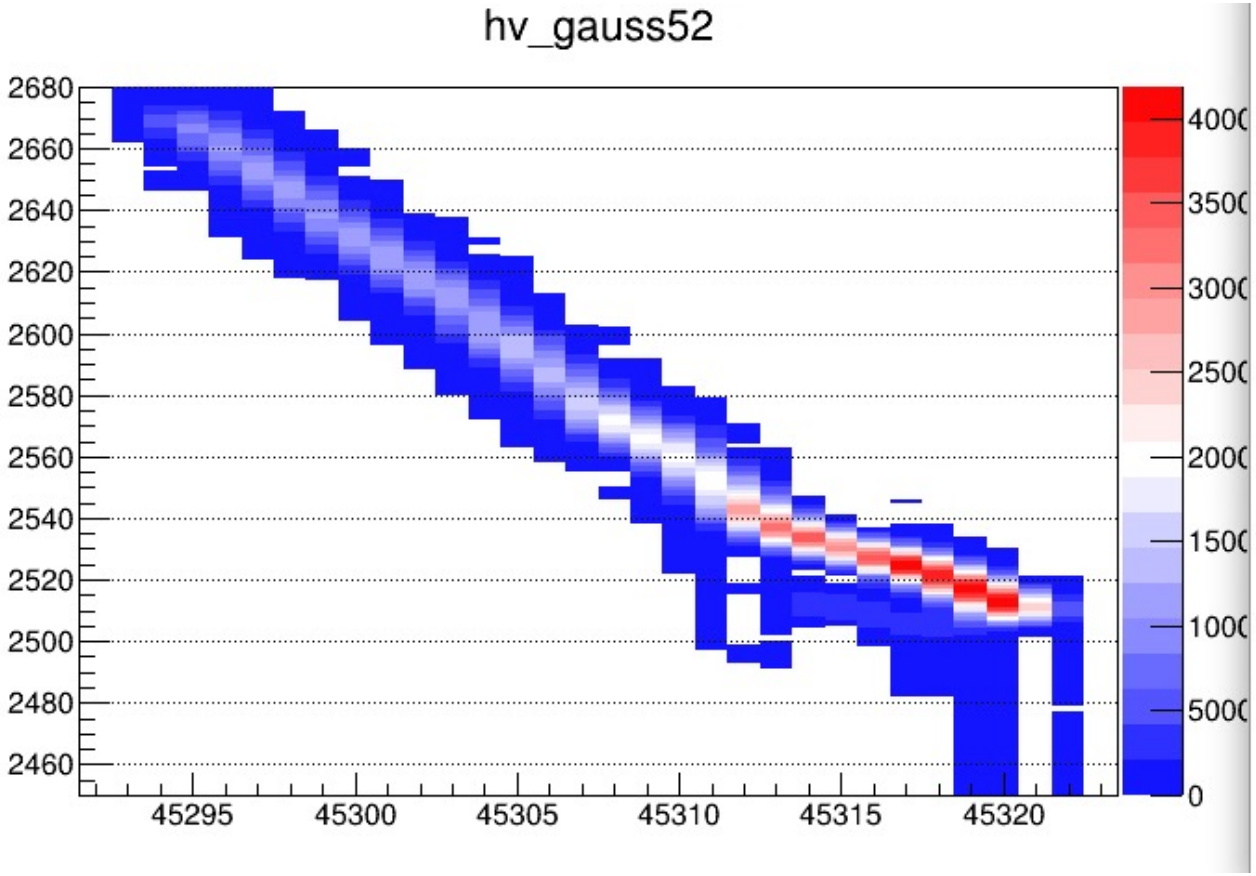
	old	new
3view (-48, 0, 90)	256 + 320 + 288 = 864	256 + 320 + 288 = 864
3view_30deg (-30, 30, 90)	298 + 298 + 304 = 900	286 + 286 + 292 = 864

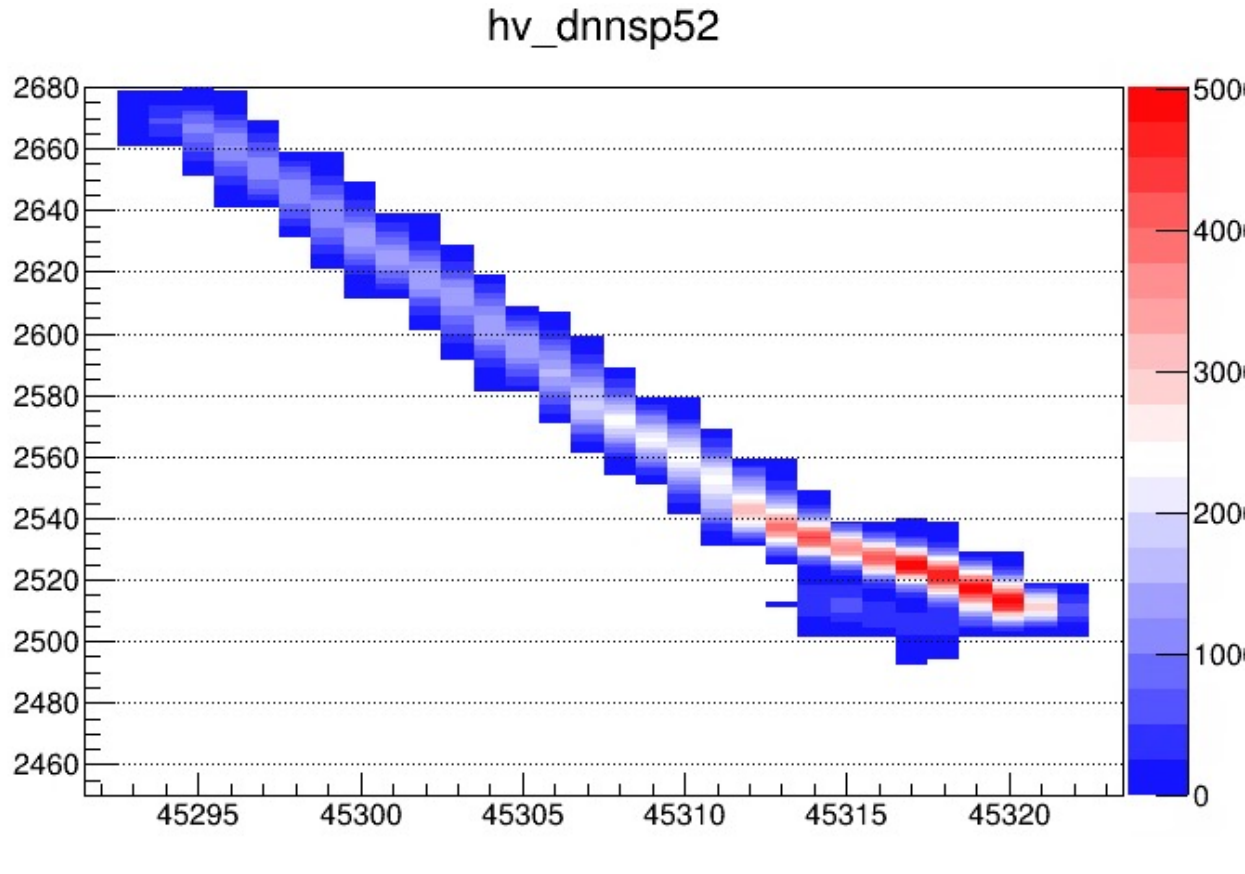
gdml:
3view: dunevd10kt_3view_v2_refactored_1x8x14ref_nowires.gdml
3view_30deg: dunevd10kt_3view_30deg_v3_refactored_1x8x14ref_nowires.gdml

debug plot:
3view: https://www.phy.bnl.gov/~yuhw/wire-cell-data/dunevd10kt_3view_v2_refactored_1x8x14ref.pdf
3view_30deg: https://www.phy.bnl.gov/~yuhw/wire-cell-data/dunevd10kt_3view_30deg_v3_refactored_1x8x14ref.pdf

DNN-SP for single muon using 3view cfg.

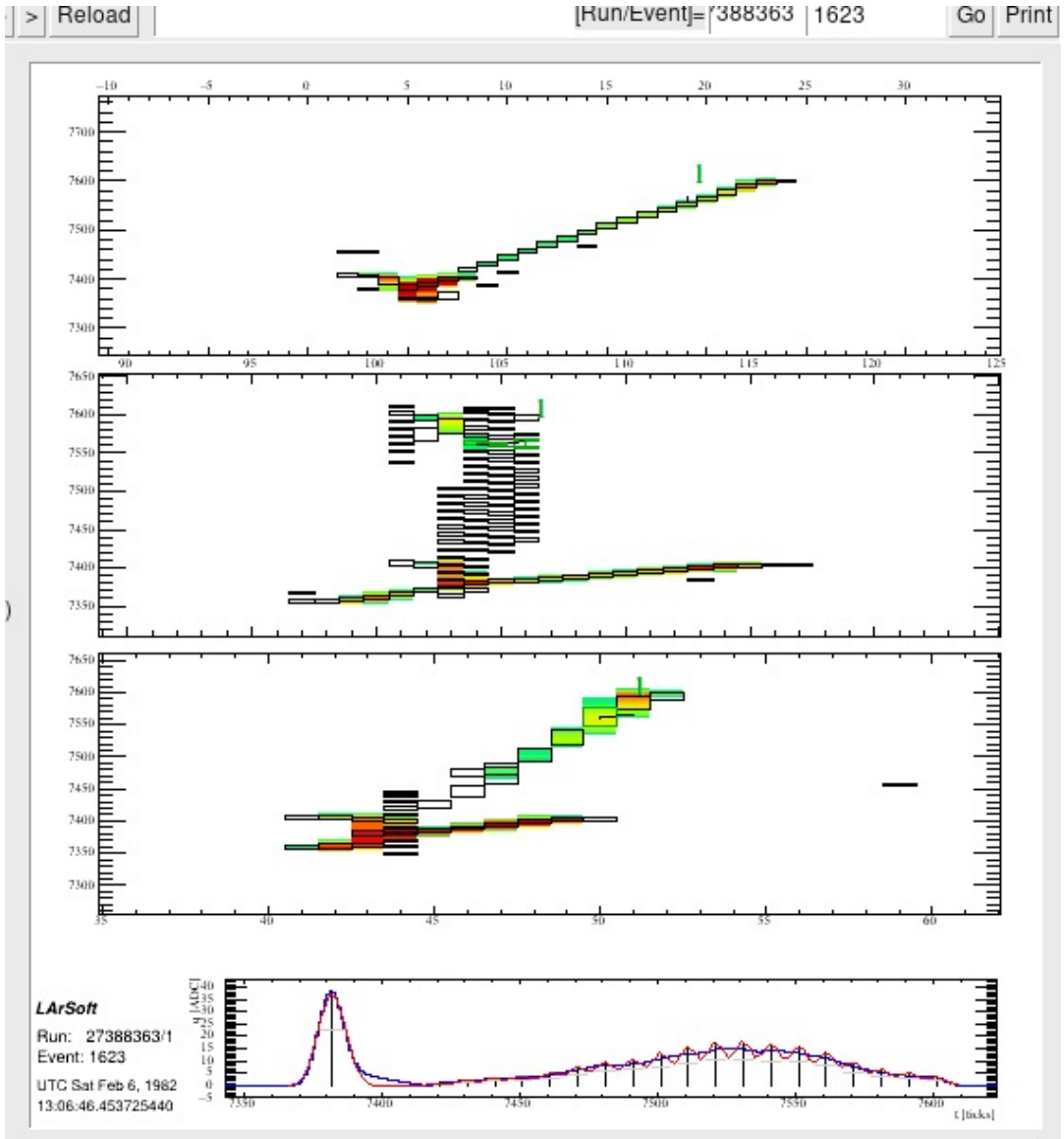
Using model trained for PDSP

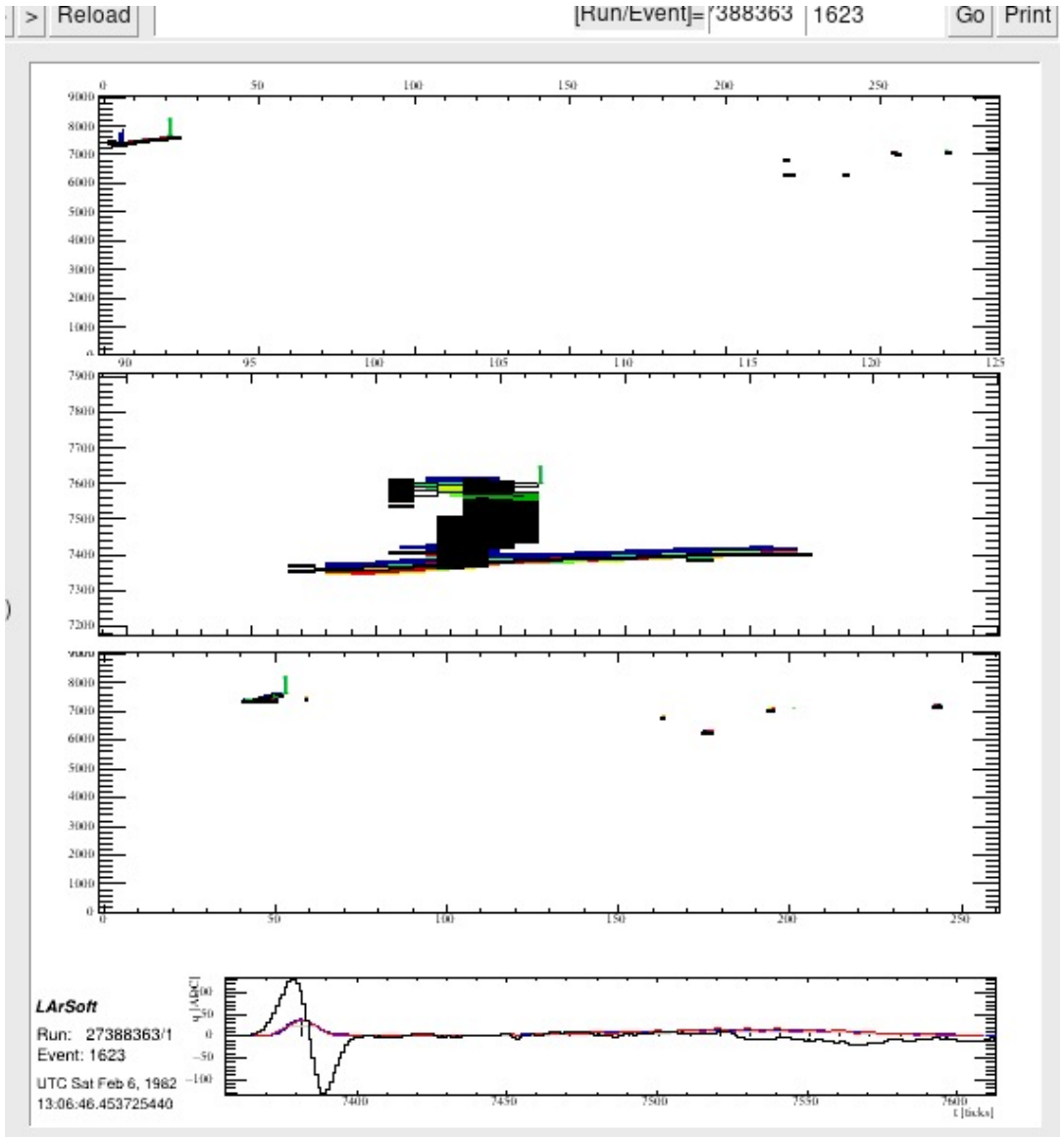




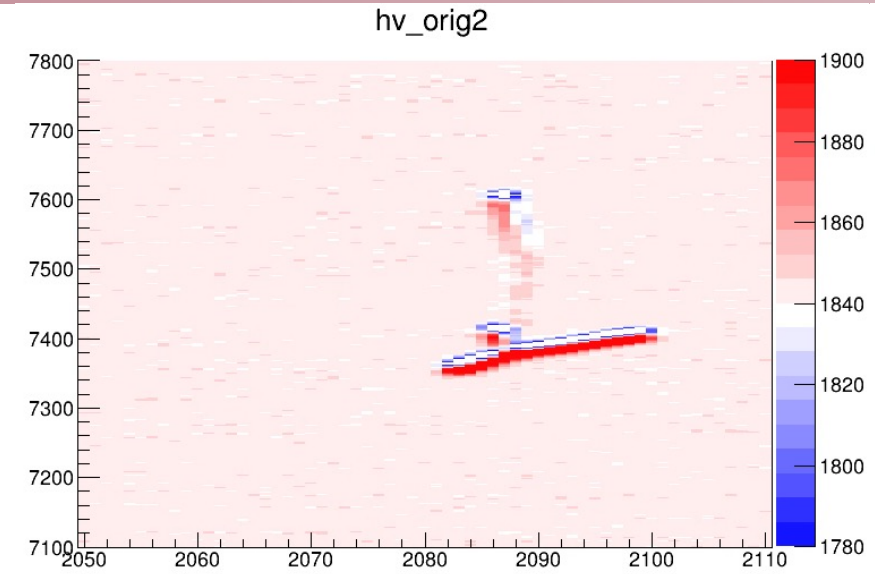
Issues with 3view 2nd induction plane

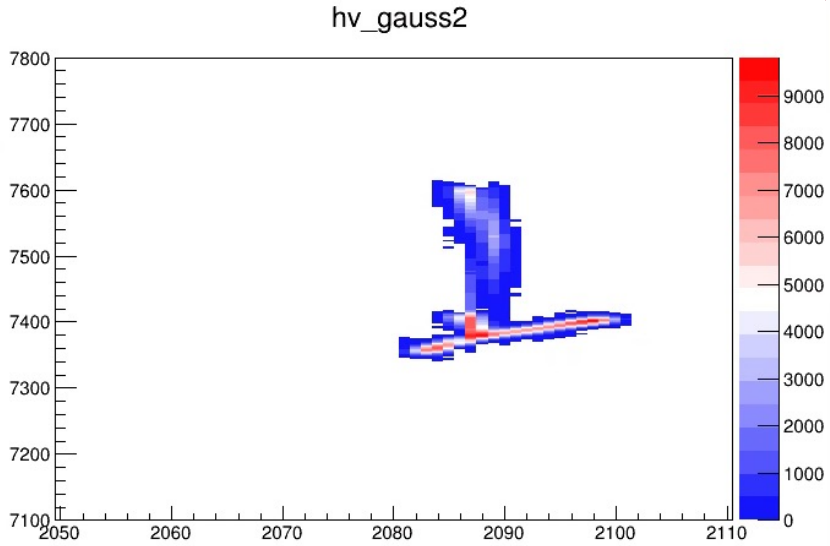
/pnfs/dune/tape_backed/dunepro/fardet-vd/full-reconstructed/2021/mc/out1/FDVDProd1/27/38/83/63/nu_dunevd10kt_1x8x6_3view_27388363_162_20211220T191833Z_gen_g4_detsim_reco.root
event: 1623, CRU 2

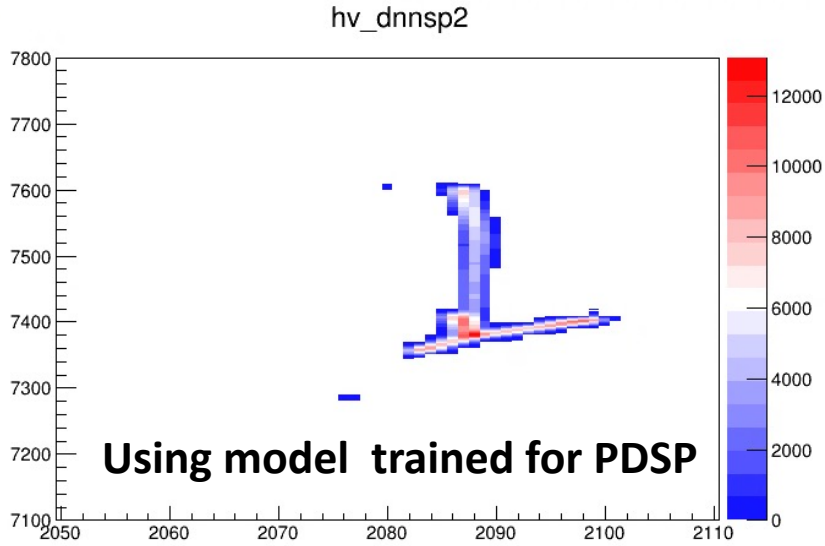


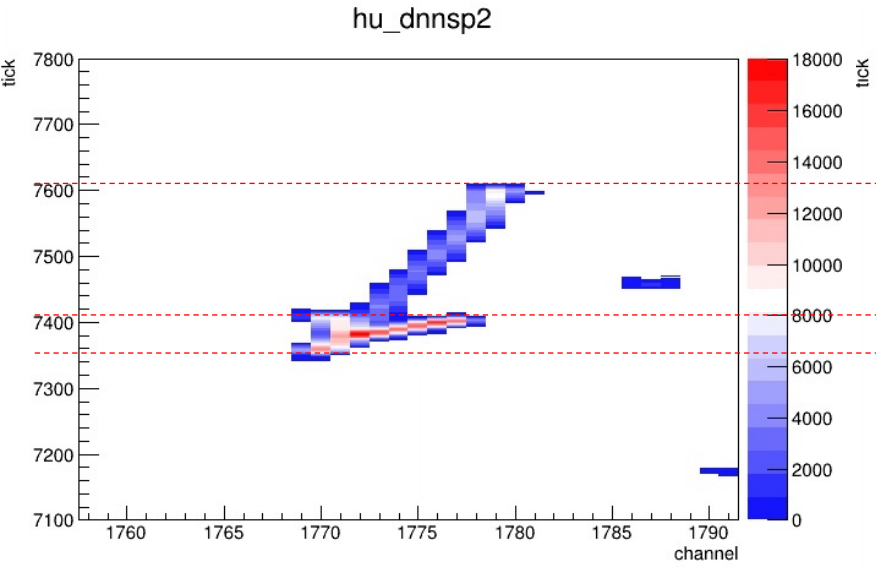


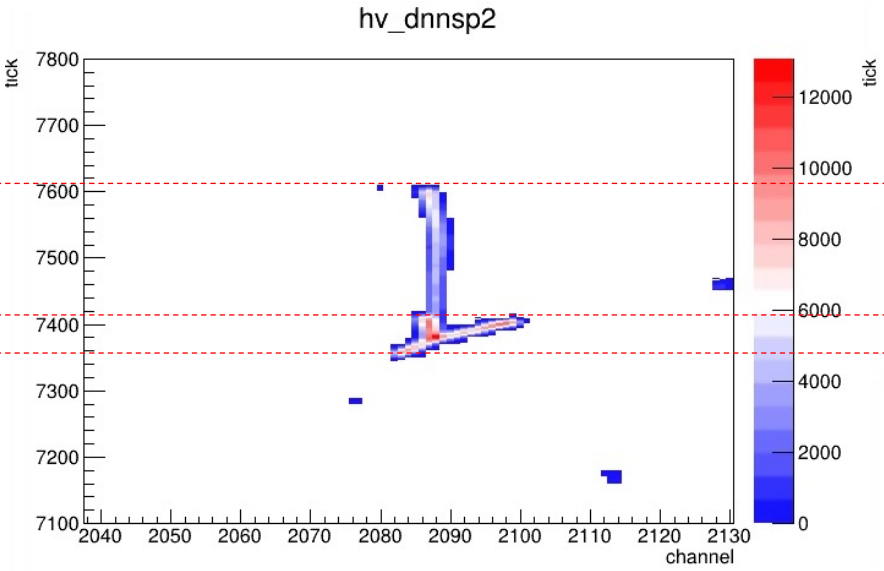
That seems to be an actual pro-longed track

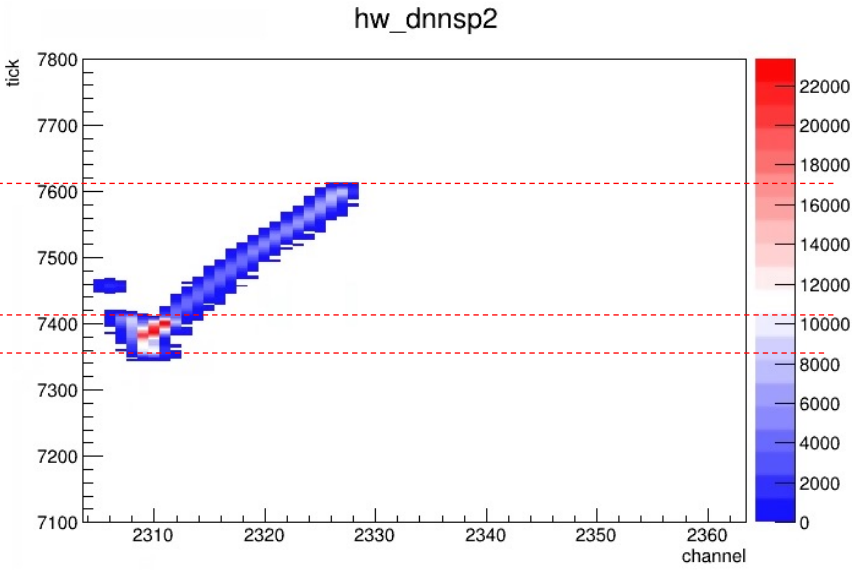




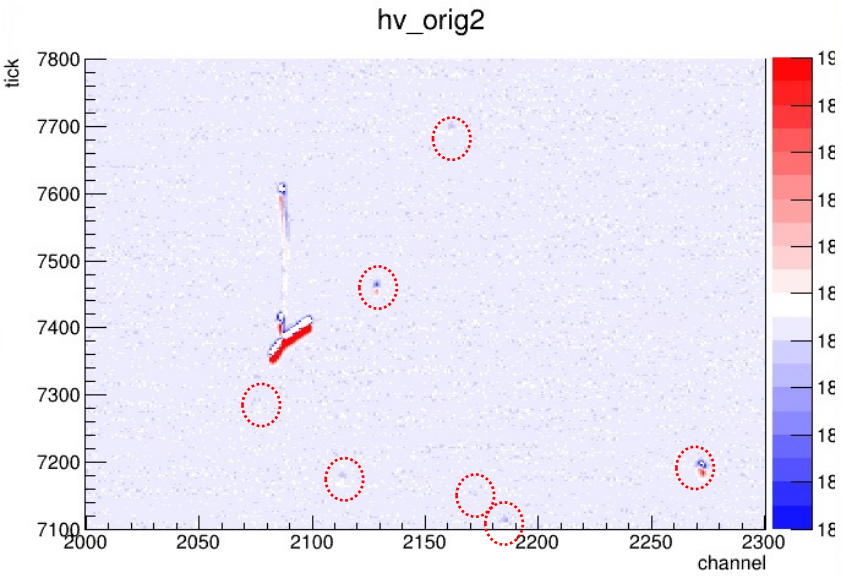


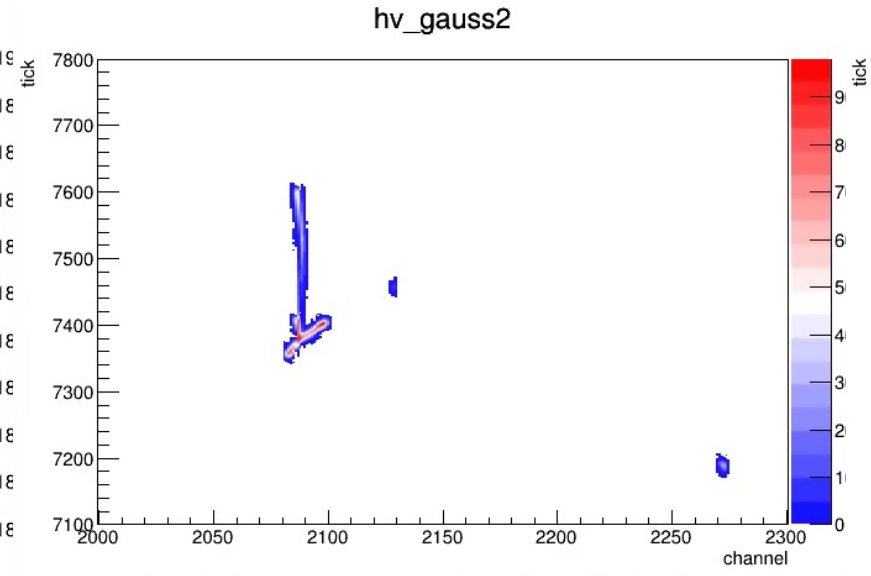


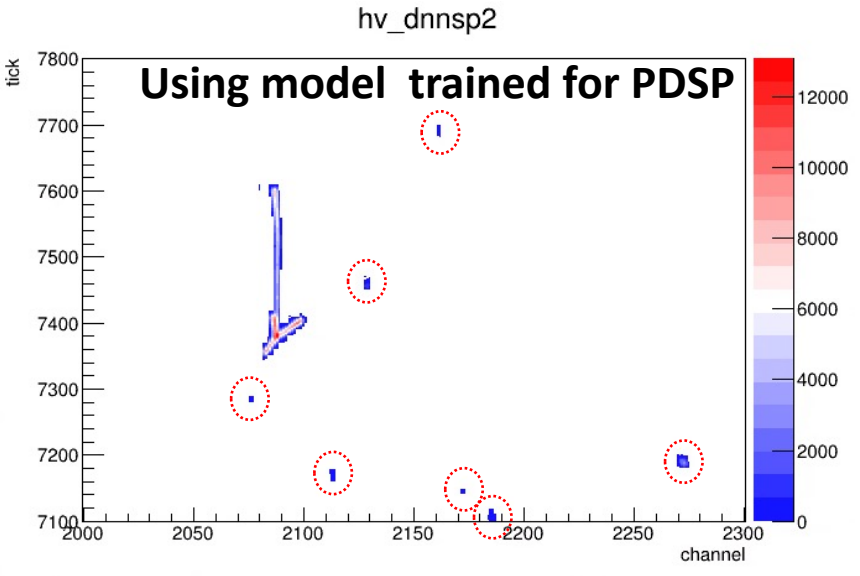


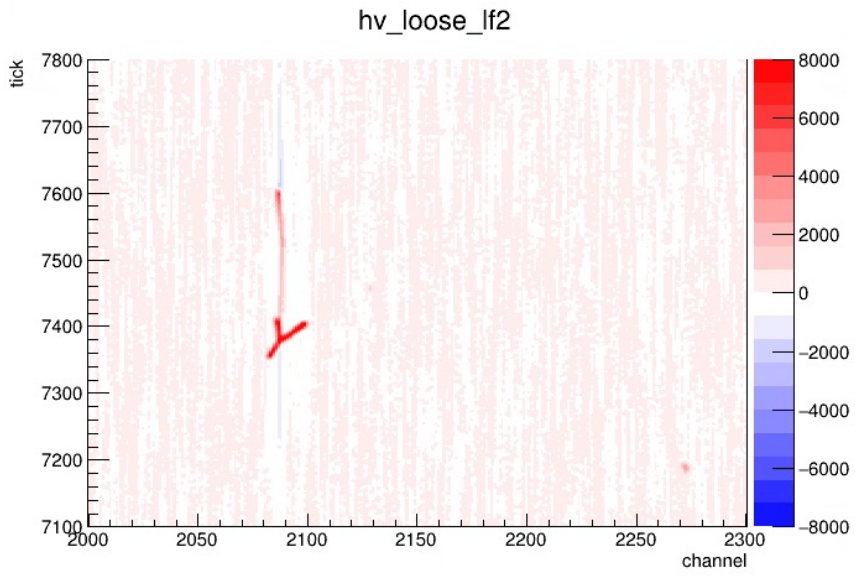


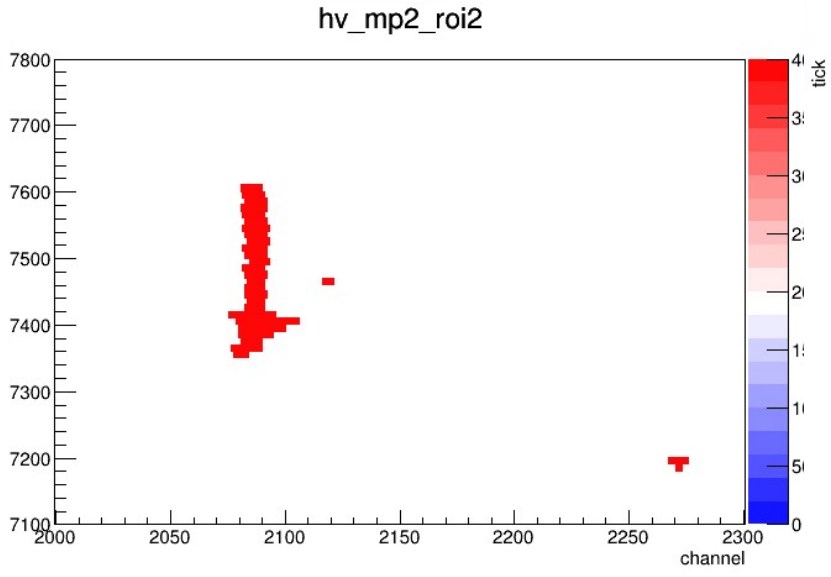
current DNN-SP seems noisier

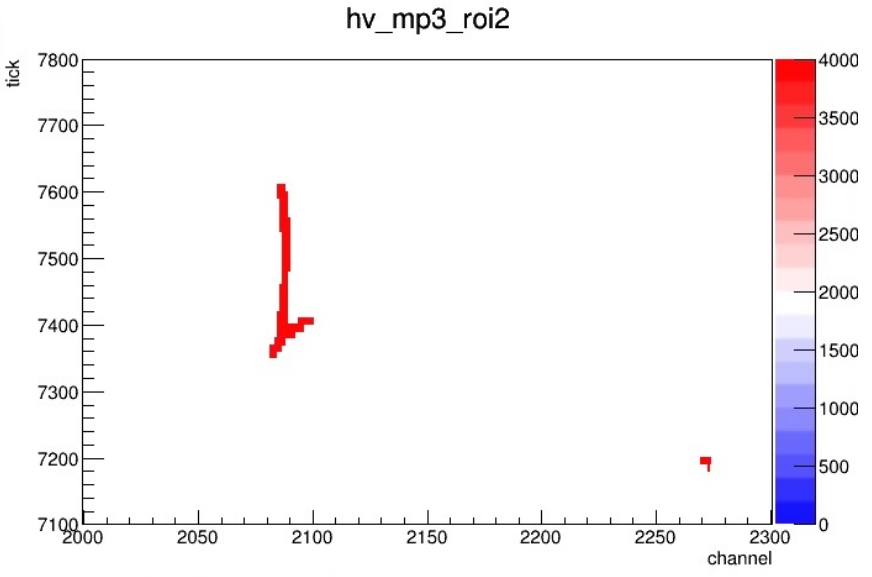




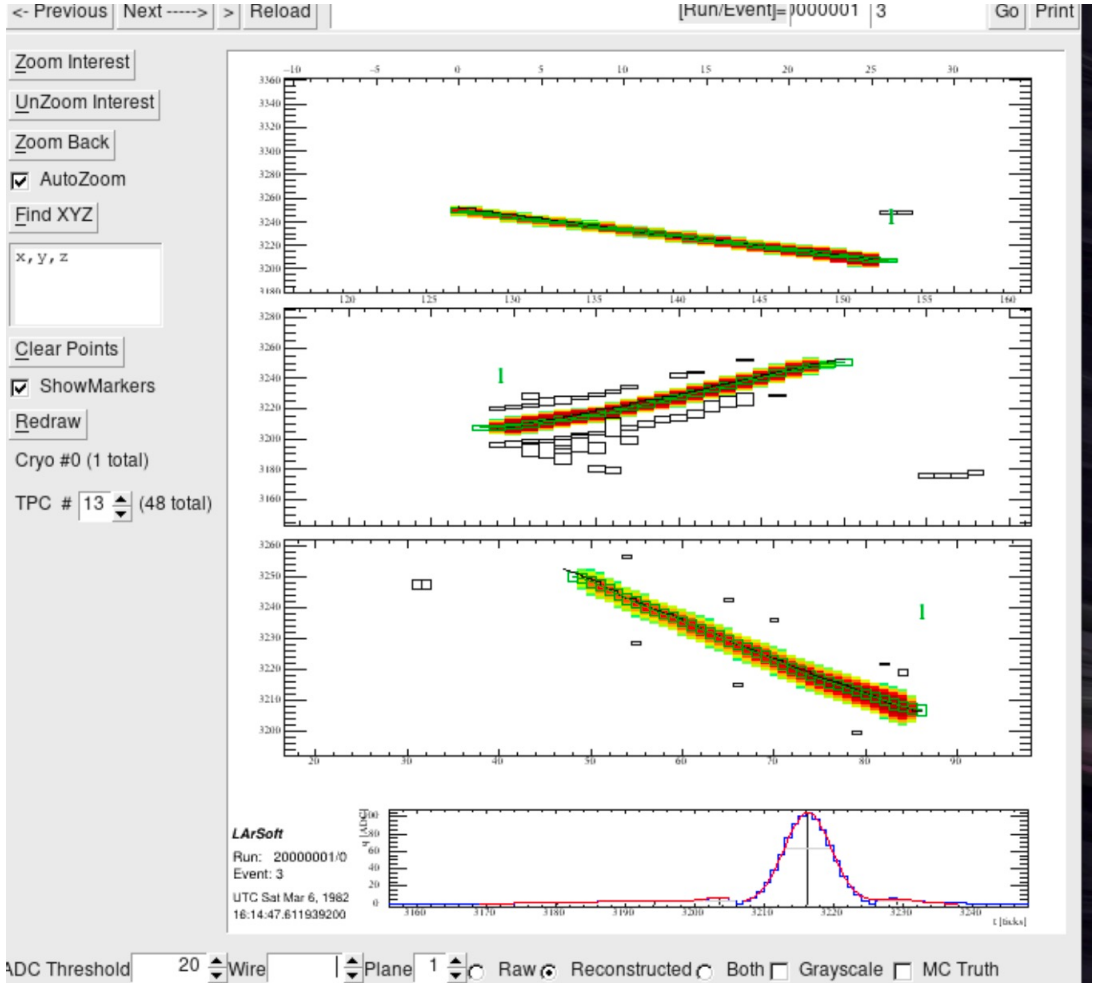


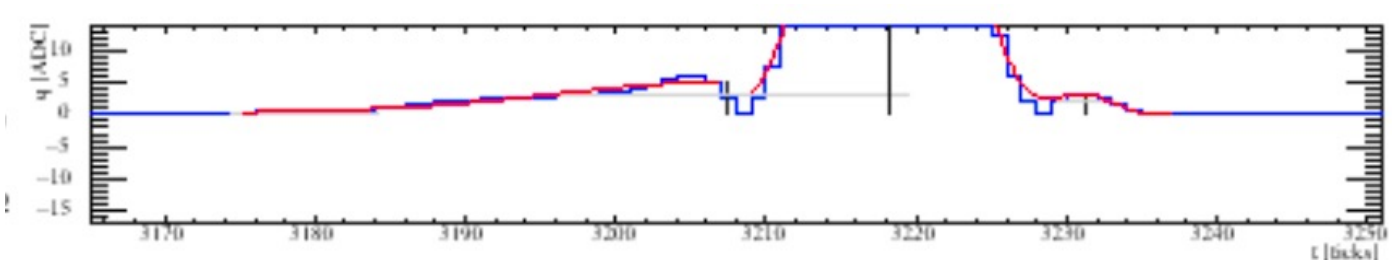






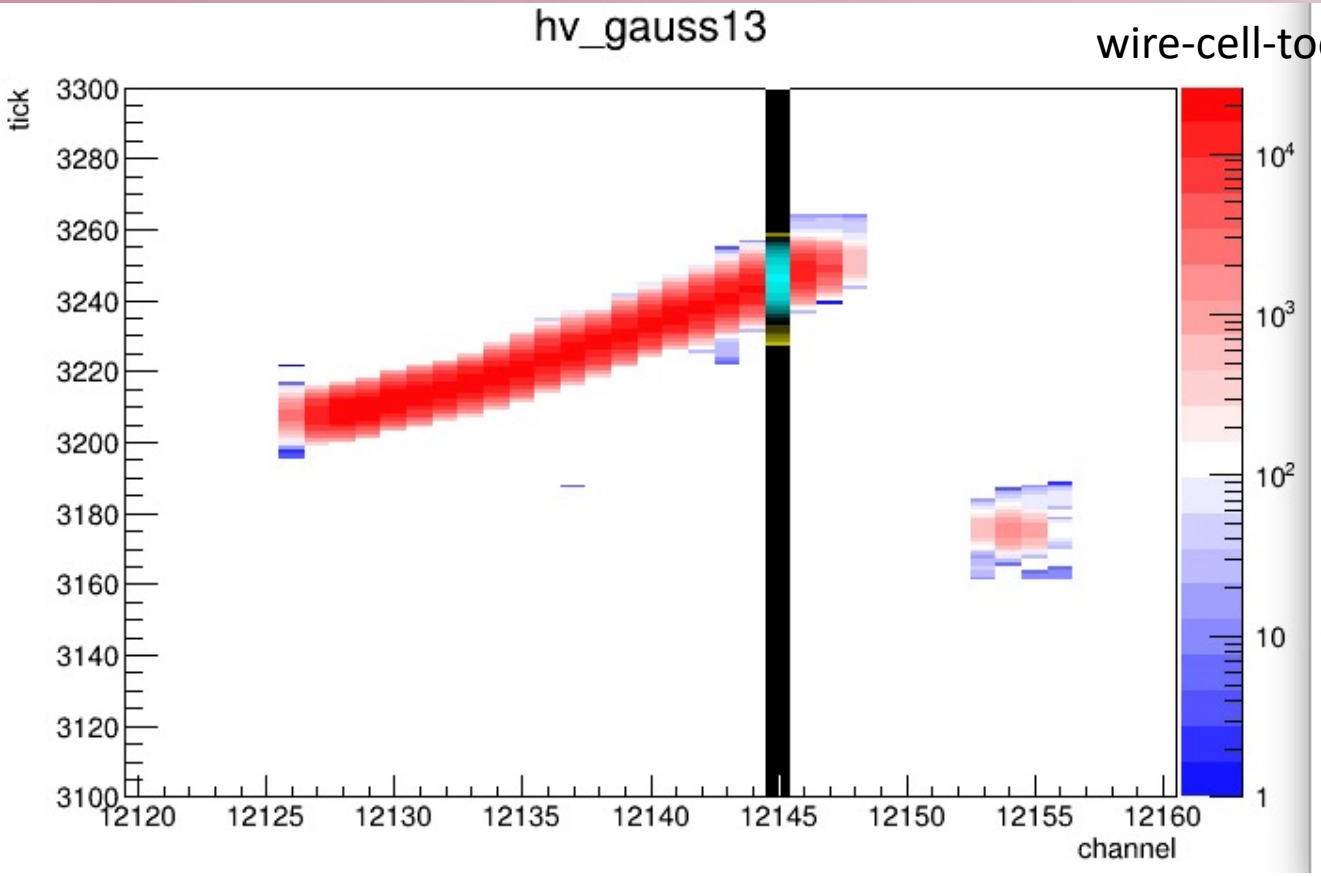
issues with 3view-30deg, second induction plane



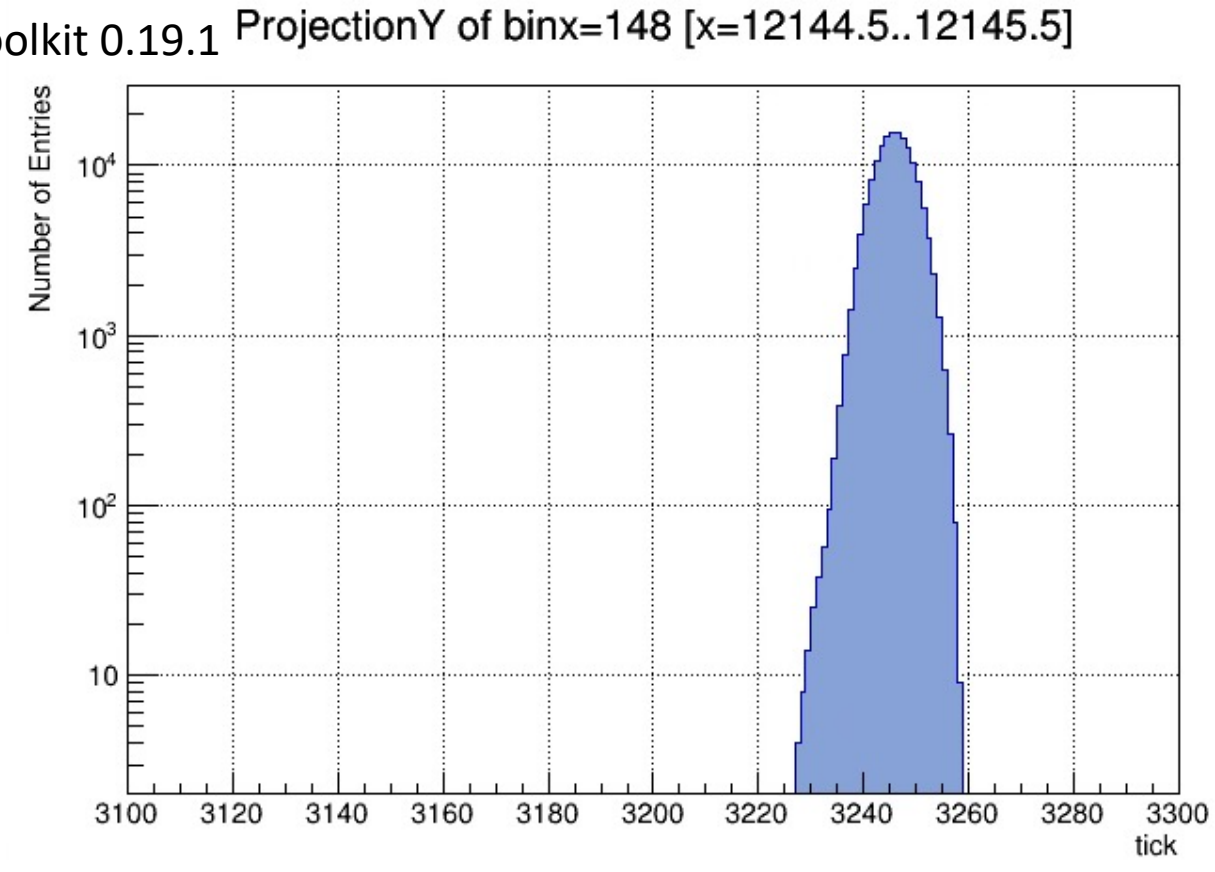


Hand scan from Dom.

wire-cell-toolkit 0.19.1



wire-cell-toolkit 0.19.1



Need to double check with wire-cell-toolkit before 0.18.0

Next

- Update configuration in dunereco and release new wire-cell-toolkit

- double check the noise spectra with wire-cell-toolkit 0.18.0 and after
  - the DFT interface may affect the noise simulation

- Save out both traditional and DNN SigProc?
- Train model for DUNE-VD?
- Tune DNN-SP?
- Computing optimizations for DNN-SP?