# TPC Sim/SigProc Update for 3view\_30deg production

## Configuration update:

- <u>https://github.com/DUNE/dunereco/pull/21</u>
- Combined Sim/SigProc configuration
- Updated wire geom in wire-cell format

wire-cell ups product update (0.20.0)

- Fixed a but in IDFT introduced in wire-cell 0.18.0
- <u>https://github.com/WireCell/wire-cell-</u> toolkit/releases/tag/0.20.0

## wirecell 0.20.0 release

make a release with SciSoft team - larsoft v09\_53\_00

### gdml, wire geom

#### based on 00b6d81

- 1x8x6 3view\_v2, 256+320+288=864
- 1x8x14 3view\_v2, 256+320+288=864
- 1x8x6 3view\_30deg\_v3, 286+286+292=864
- 1x8x14 3view\_30deg\_v3, 286+286+292=864

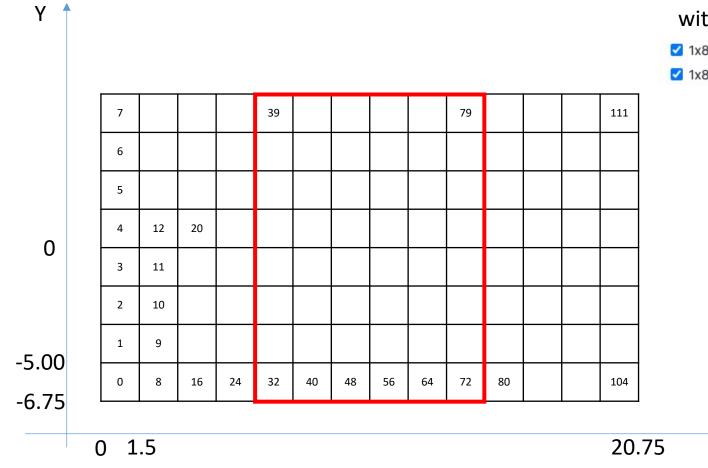
#### jsonnet

nf-sp.jsonnet, correct trace tags

## wirecell\_dune.fcl

#### combined workflow:

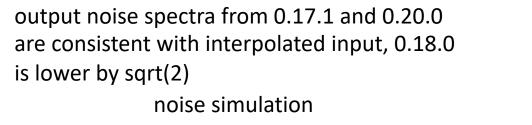
- 1x8x6 3view, dune10kt\_dunefd\_vertdrift\_1x8x6\_3view\_sim\_nfsp
- 1x8x6 3view\_30deg, dune10kt\_dunefd\_vertdrift\_1x8x6\_3view\_30deg\_sim\_nfsp
- 1x8x14 3view, dune10kt\_dunefd\_vertdrift\_1x8x14\_3view\_sim\_nfsp
- 1x8x14 3view\_30deg, dune10kt\_dunefd\_vertdrift\_1x8x14\_3view\_30deg\_sim\_nfsp

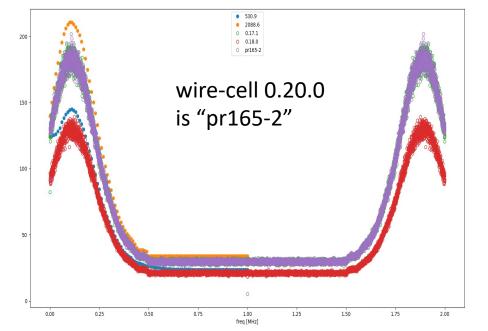


- Currently configured to process central 6 columns
- Only the two combined configurations are updated with this "partial" processing
  - 1x8x14 3view, dune10kt\_dunefd\_vertdrift\_1x8x14\_3view\_sim\_nfsp

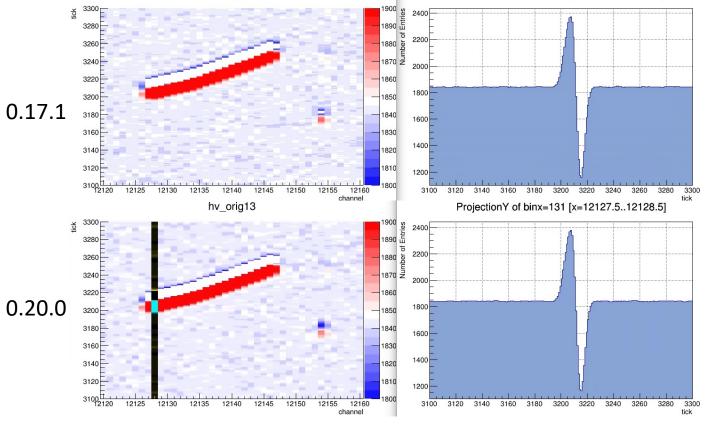
Ζ

1x8x14 3view\_30deg, dune10kt\_dunefd\_vertdrift\_1x8x14\_3view\_30deg\_sim\_nfsp





## signal simulation



hv\_orig13

ProjectionY of binx=131 [x=12127.5..12128.5]