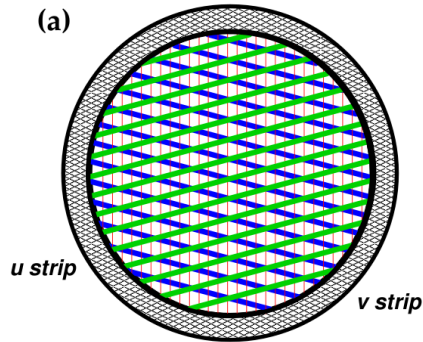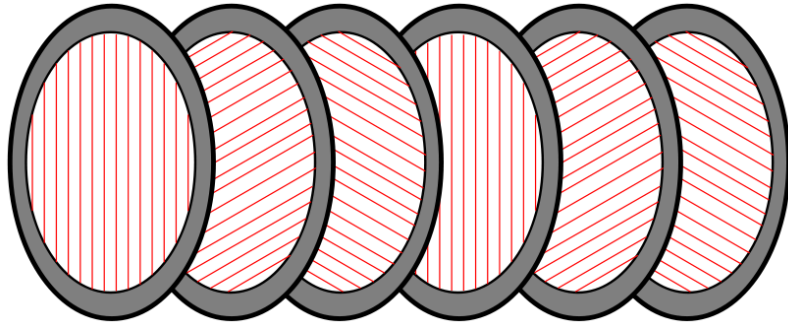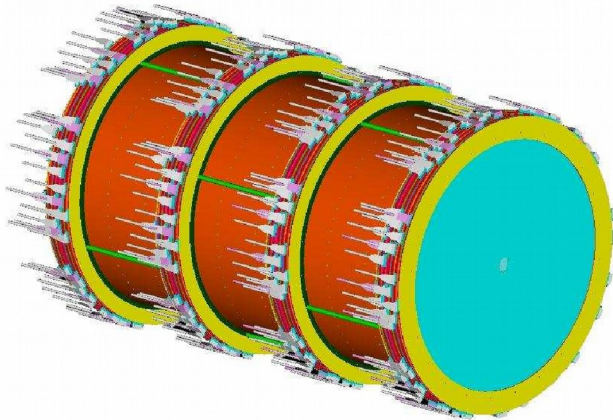# FDC Performance Plugin

Alexander Austregesilo

Detector Overview
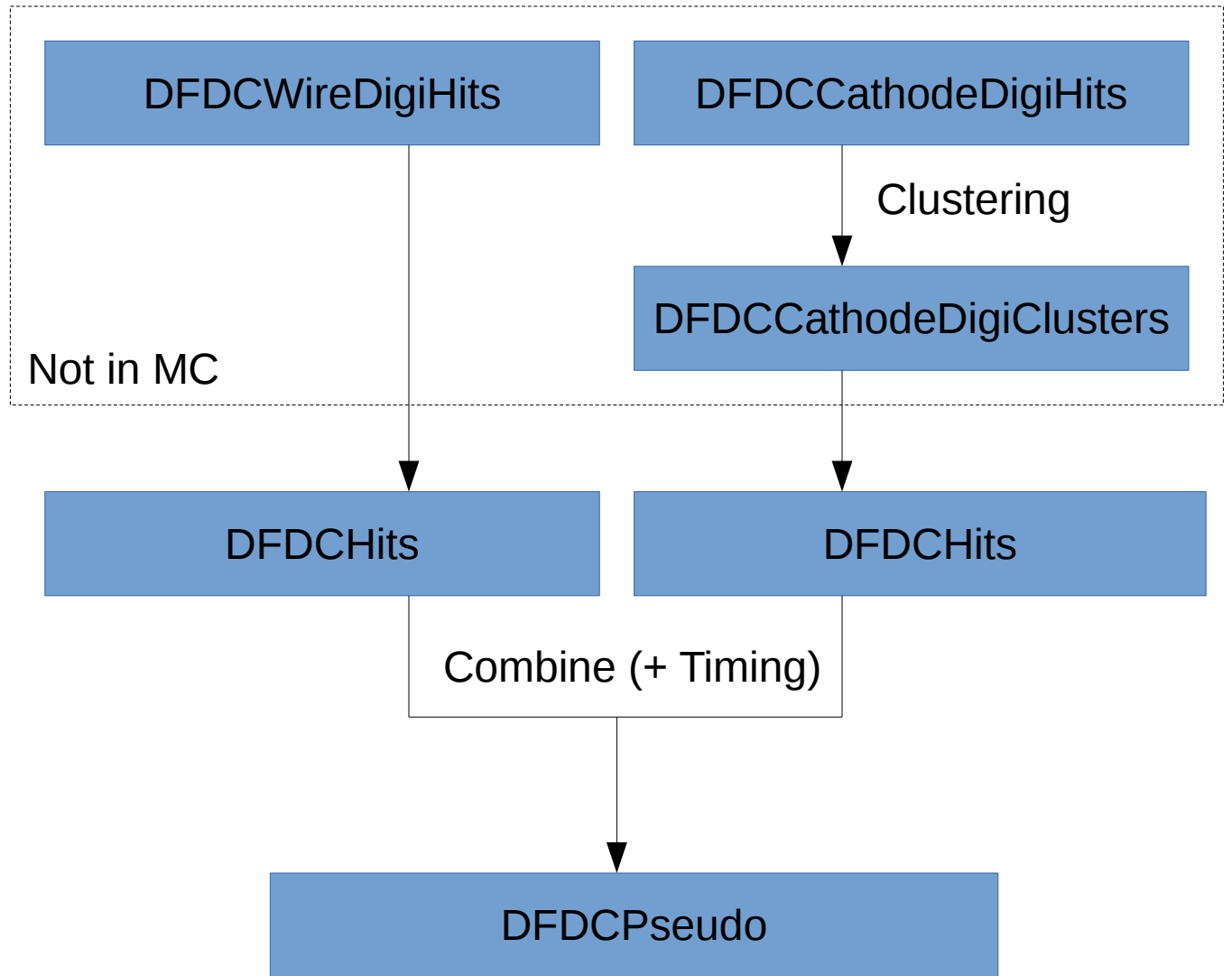
Cell: Wires + 2 Cathode Layers

Package: 6 Cells

FDC: 4 Packages = 24 Cells
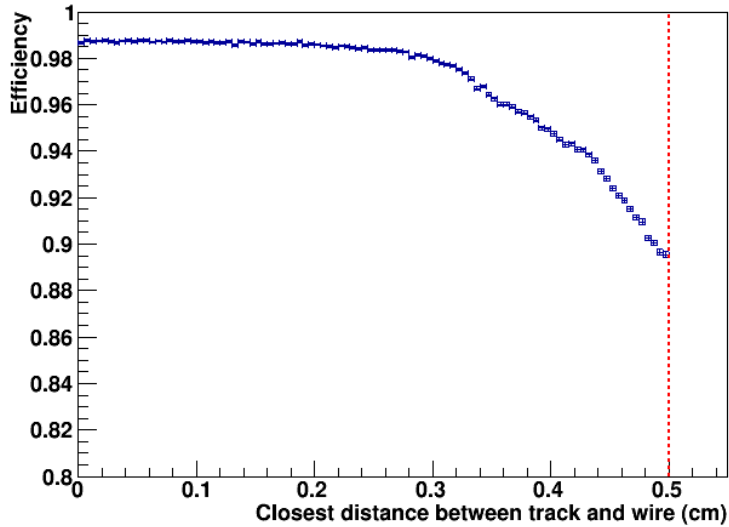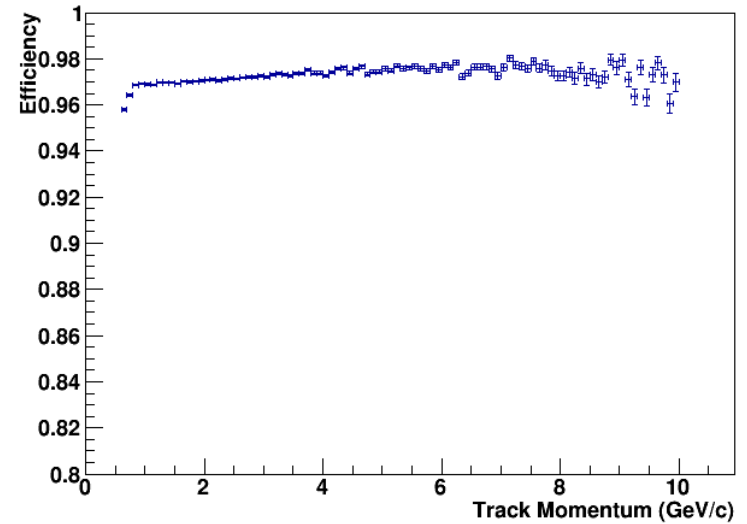
Reconstruction Overview

(DFDCHit) Wire Efficiency
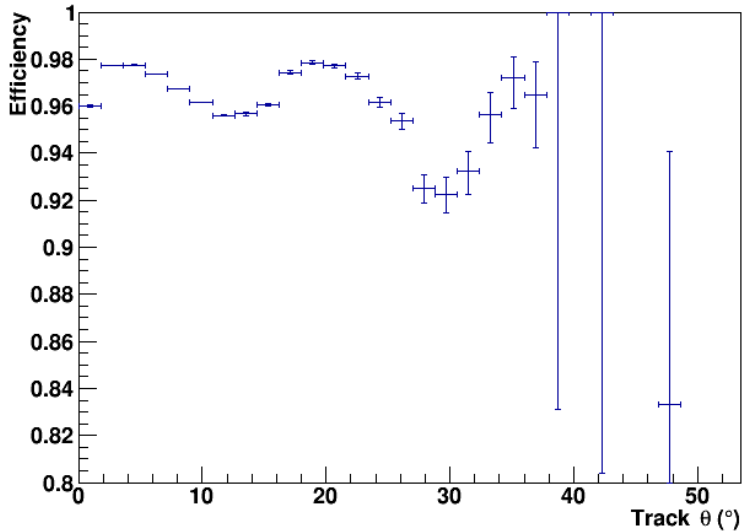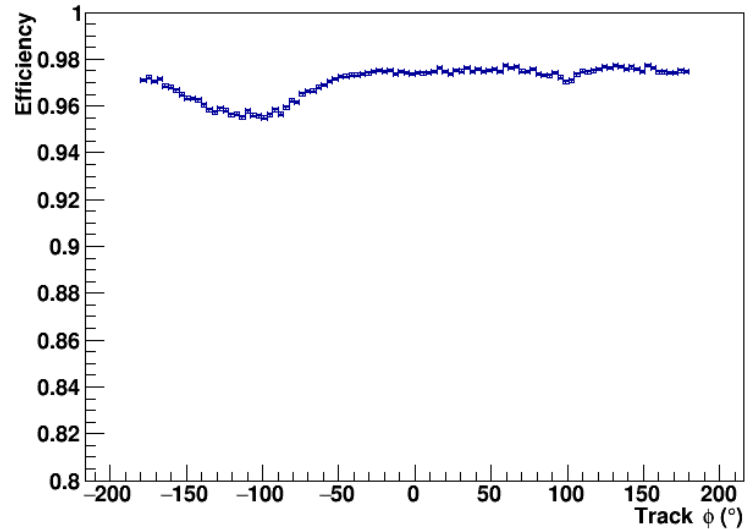
(DFDCPseudo) Efficiency
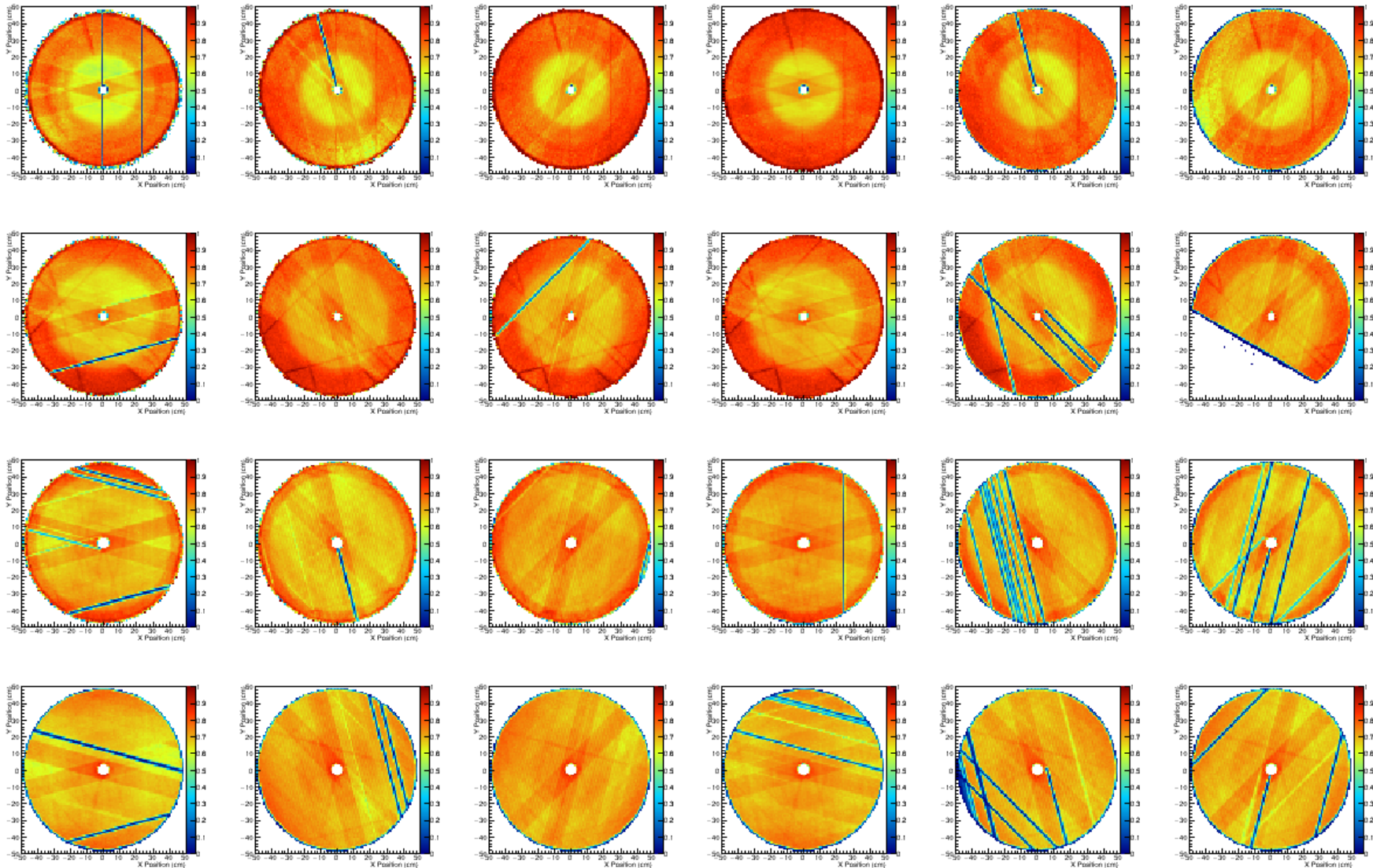
Pseudo Hit Factory

- Timing Cut between U and V strips too narrow

- Wire time not calibrated
  - → Wire time not used at all

- Only certain types of strip clusters

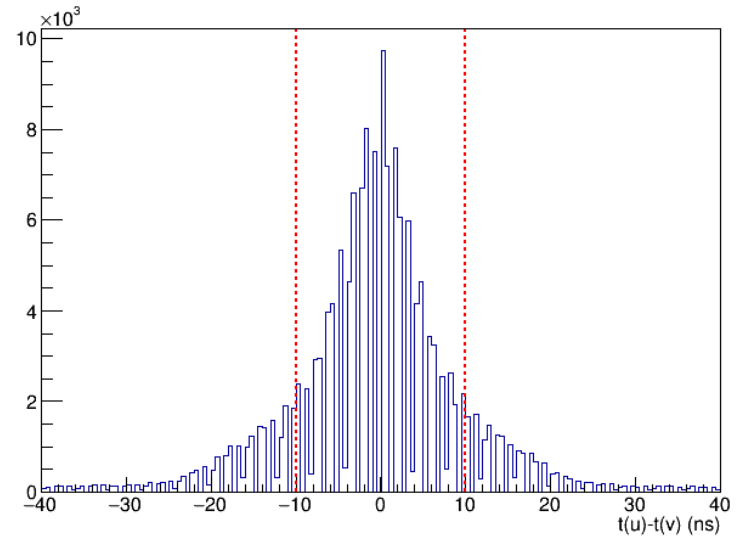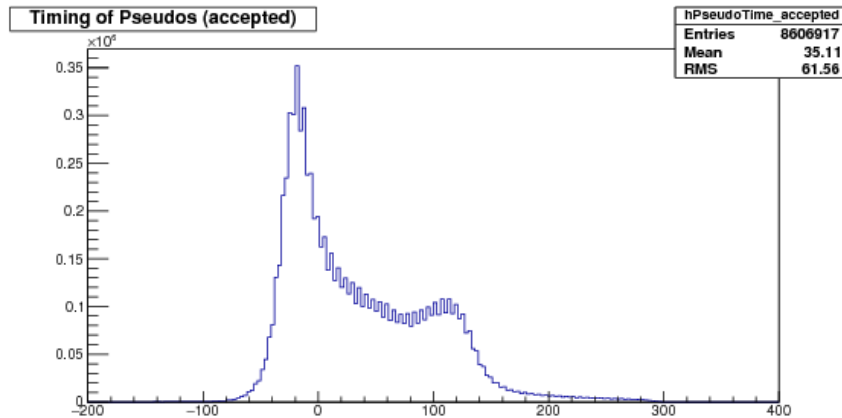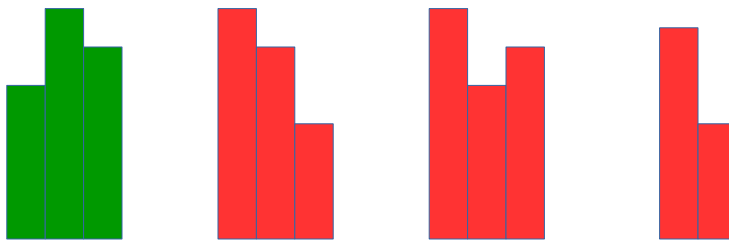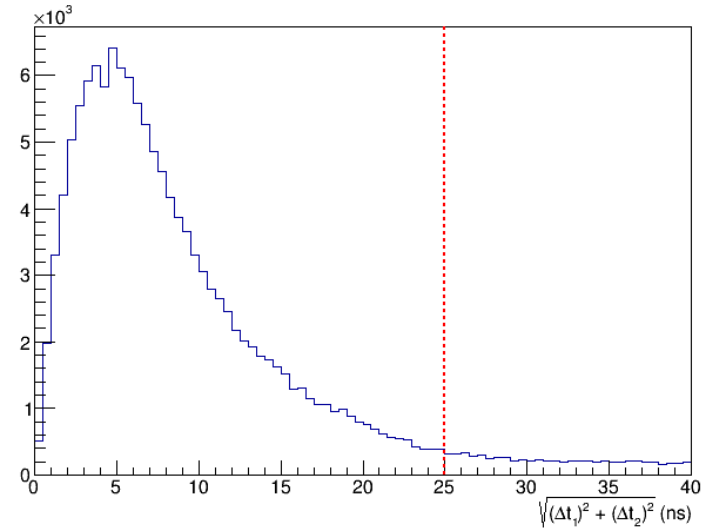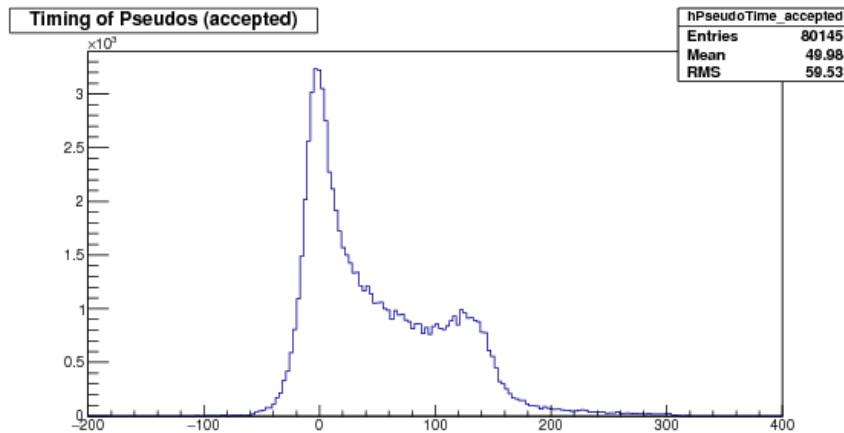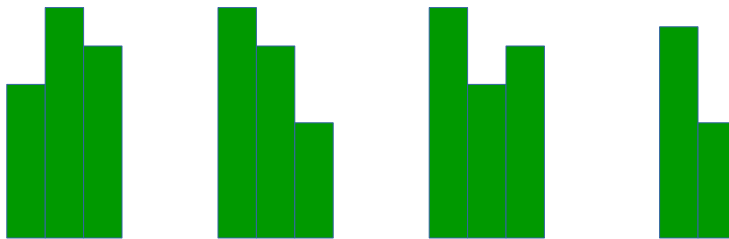# Pseudo Hit Factory

- Timing Cut between U and V strips too narrow ✓

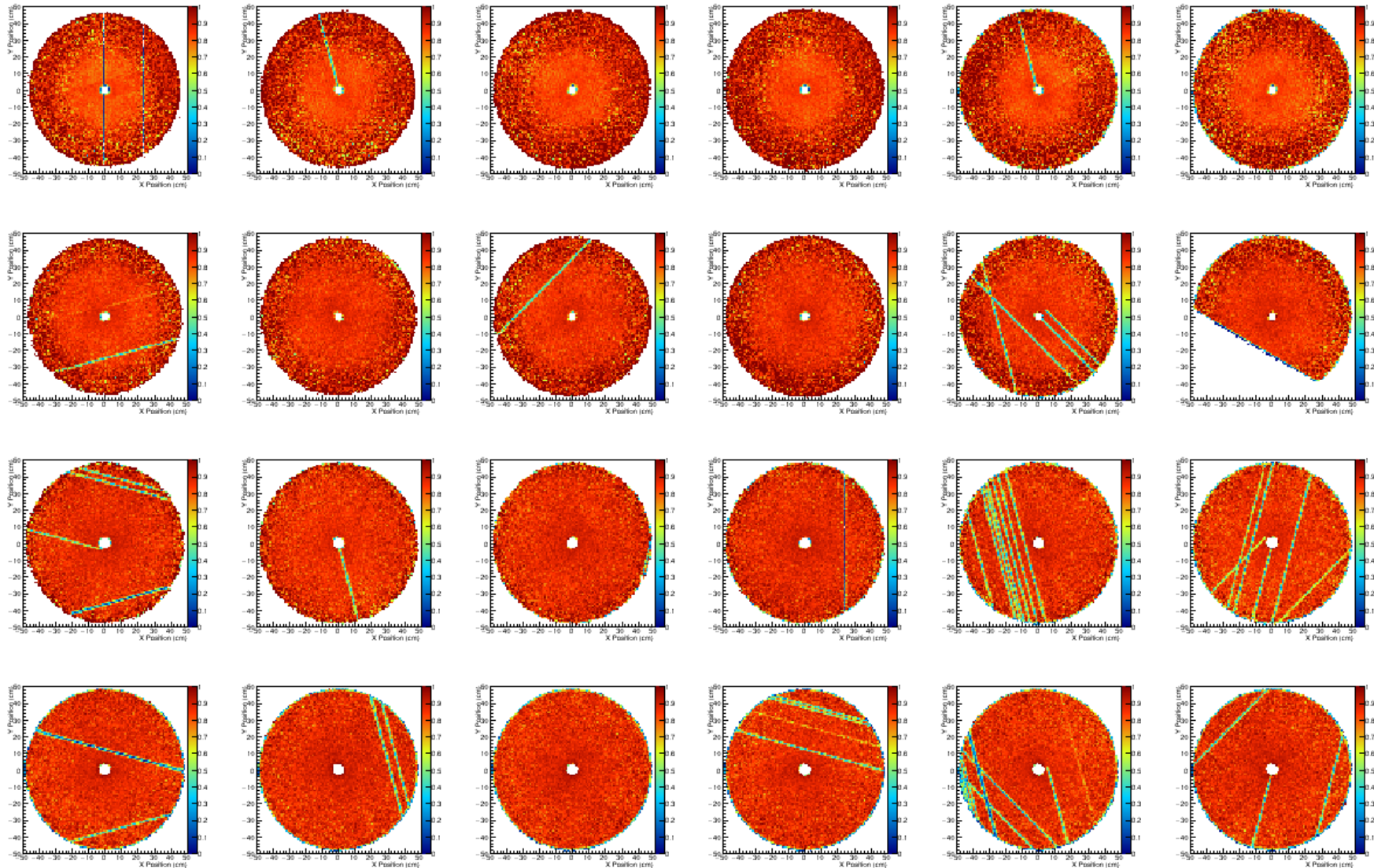- Wire time not calibrated ✓ (almost)
  - → Wire time not used at all ✓

- Only certain types of strip clusters ✓

Efficiency 69.1% -> 84.3%
Increase of # of Pseudos: 16%

(DFDCPseudo) Efficiency

Summary

Conclusion:

- Performance study included in REST production
- Histograms used to calibrate timing of cathodes and wires
- Improved Pseudo_factory
  => Higher and more uniform Efficiency

Next steps:

- Timing info in tracking (done?)
- Comparison with MC
- Run-dependent performance study