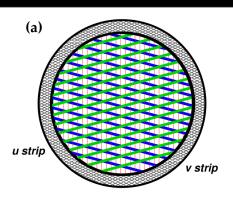


FDC Improvements

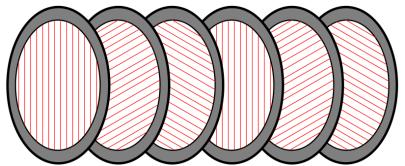
Alexander Austregesilo 08/09/2016



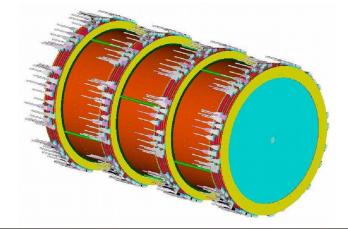
Detector Overview



Cell: Wires + 2 Cathode Layers



Package: 6 Cells



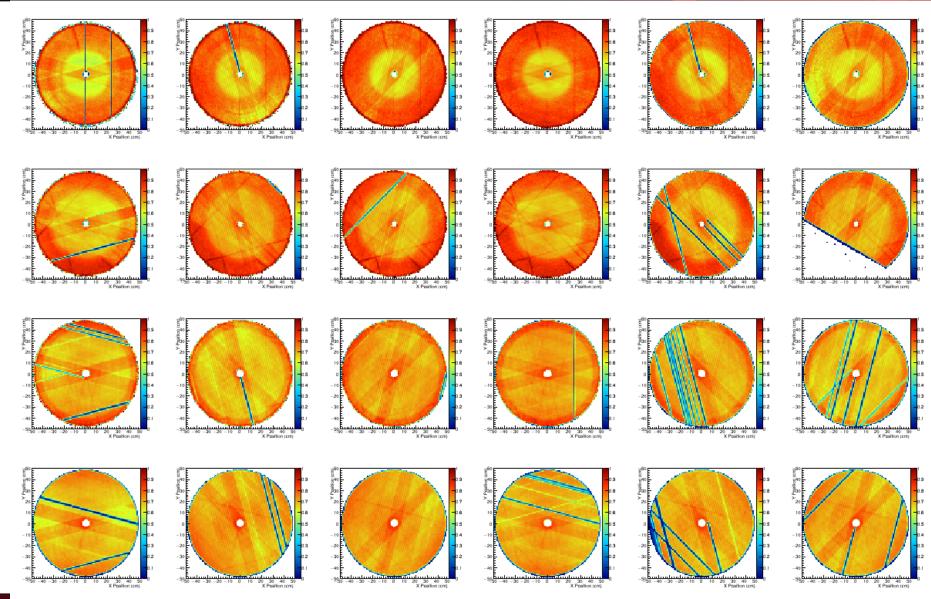
FDC: 4 Packages = 24 Cells

Reconstruction Performance

Comparison on full run #11553

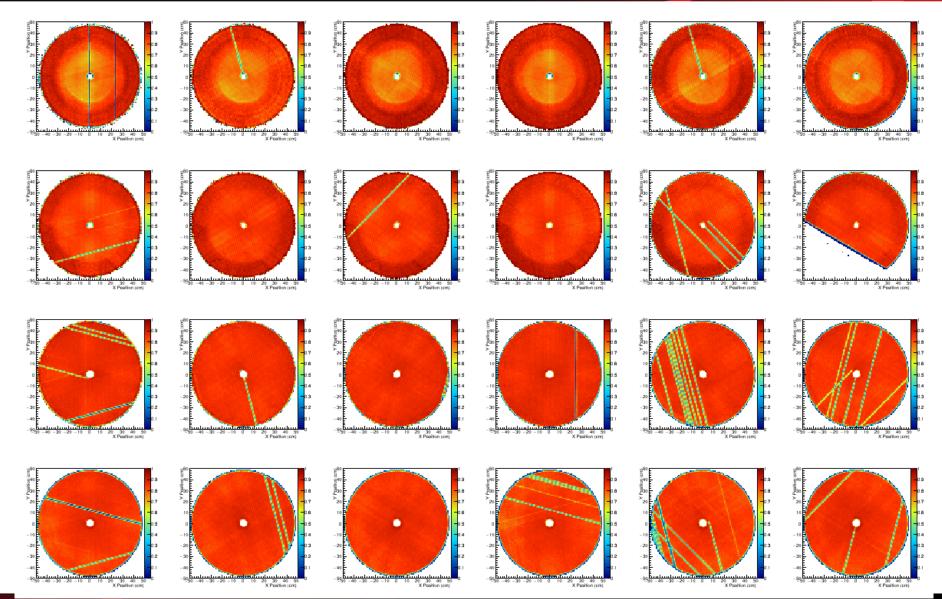
- (1) REST production
- (2) Improvements on clustering and rough time calibration
- (3) Current sim-recon with Simon's changes to tracking code

(DFDCPseudo) Efficiency (1)



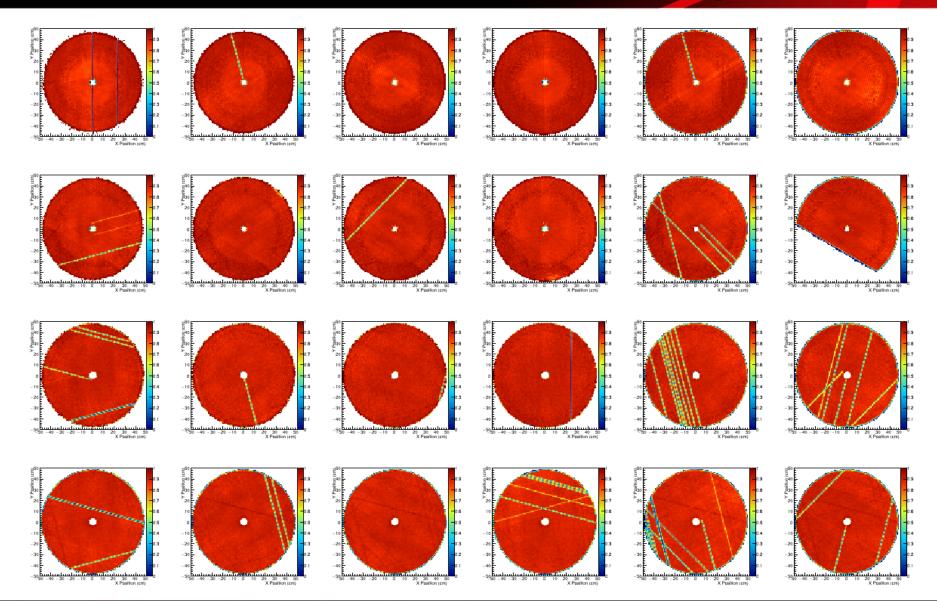


(DFDCPseudo) Efficiency (2)





(DFDCPseudo) Efficiency (3)

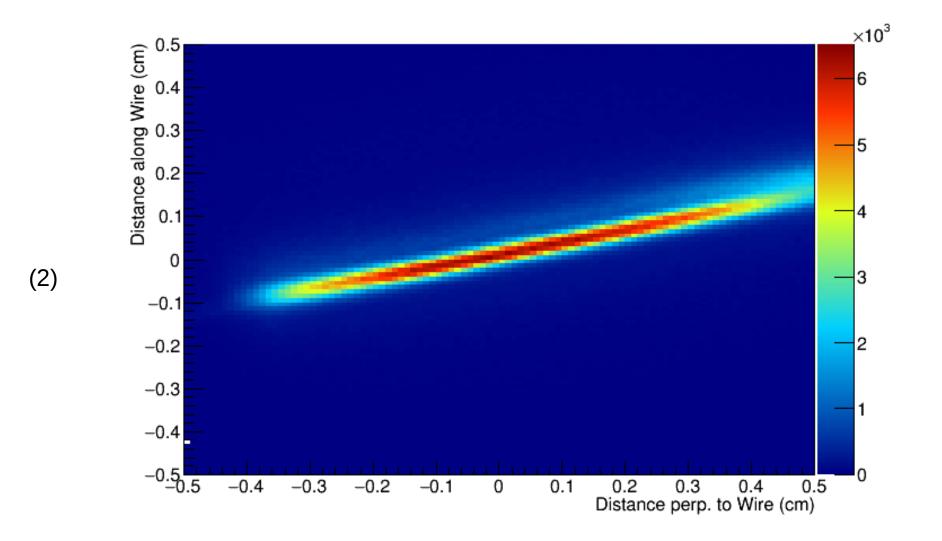




In Numbers

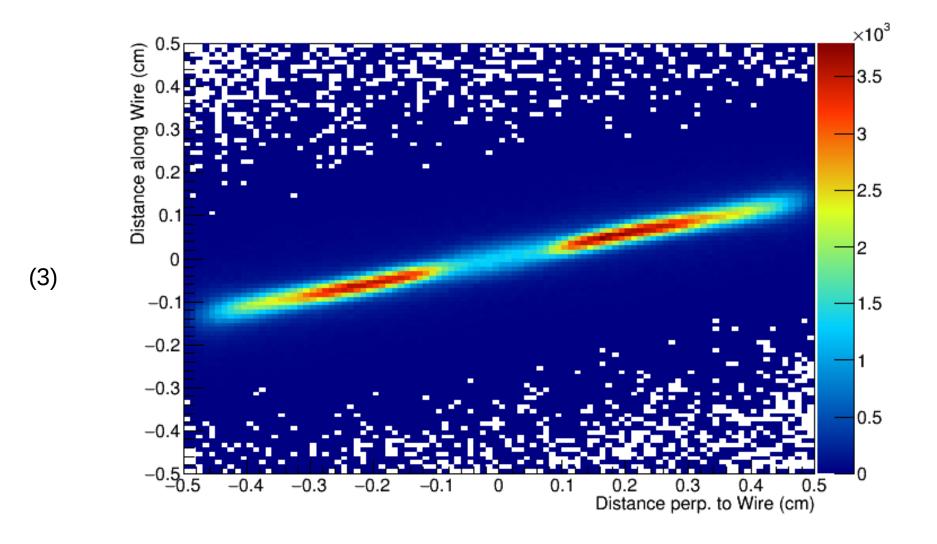
11553	FDC Efficiency	# Tracks / Ev.
(1)	68.8%	2.55
(2)	81.5%	2.75
(3)	88.3%	2.72

Remaining Issues





Remaining Issues





Summary

Conclusion:

- Much progress since REST production
 Higher and more uniform Efficiency
- Room for improvement, but redundancy saves tracking efficiency

Other projects:

- Comparison with MC
- Run-dependent performance study