

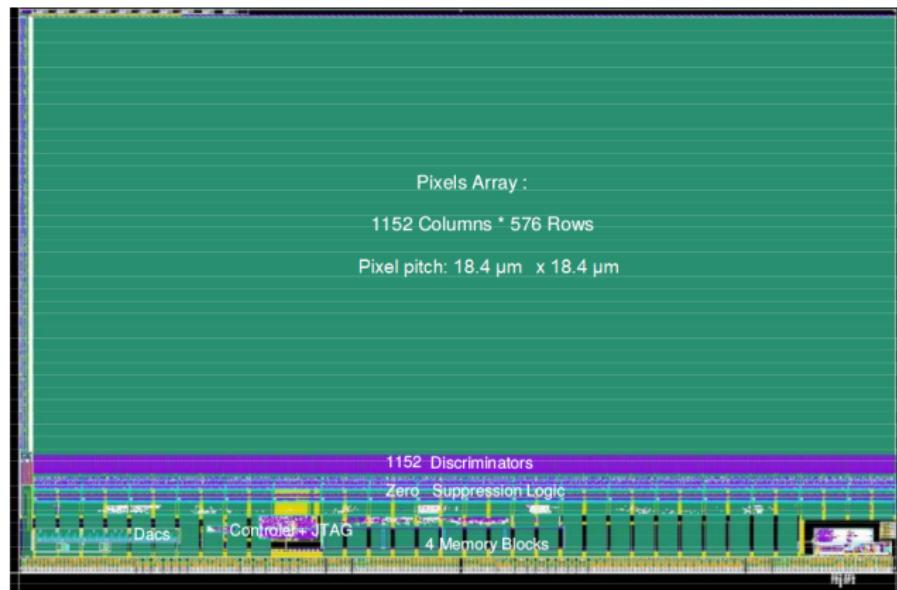
Update on reconstruction of tracks from mimosa telescope

Kees Ligtenberg

Nikhef lepcol meeting

19 June 2017

Mimosa telescope



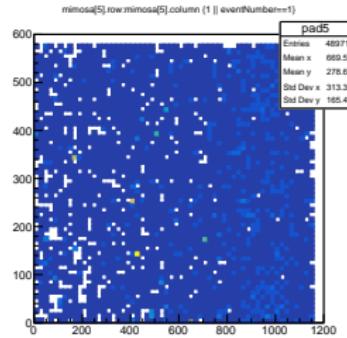
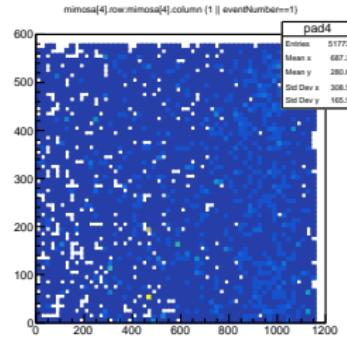
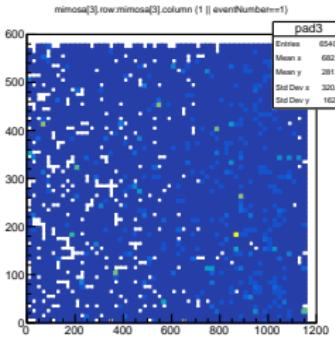
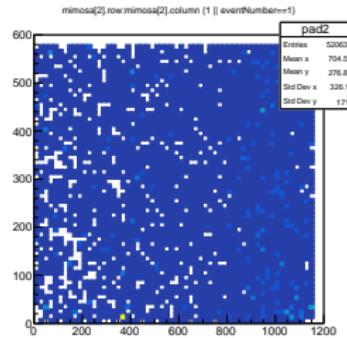
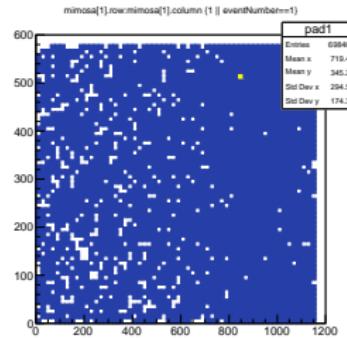
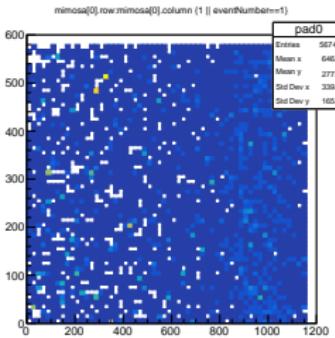
6 planes with sensors

Rolling shutter readout with 115.2 μs per frame

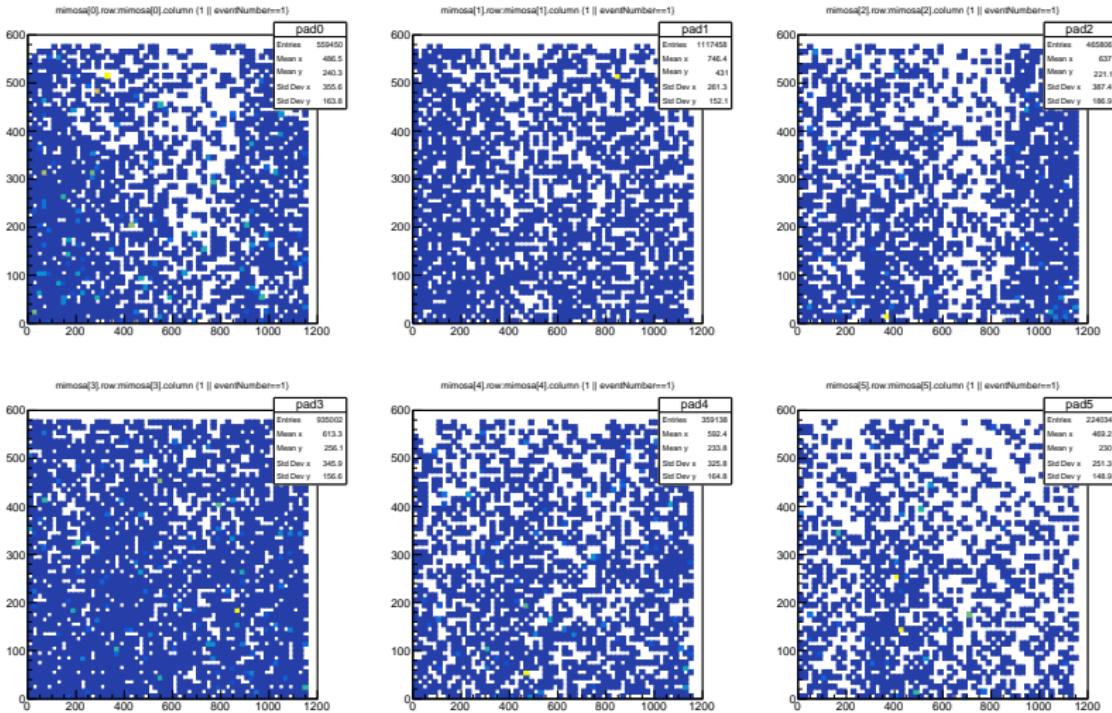
Data from telescope

- Data is received in h5 format
 - ▶ row, column, plane, frame, trigger number, timestamp, trigger status, event status
- All provided tools are in python for h5 files
- Converted to .root file-format in order to combine with data from time-pix

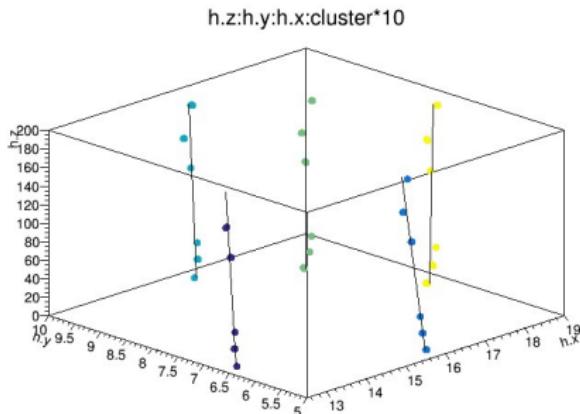
Occupancy from example data



Occupancy from our data



Linear regression fit



A linear regression fit on *example data*

No tracks found in our data so far

Work on alignment ongoing

Residuals in x-direction per plane

