

Status report - Thursday

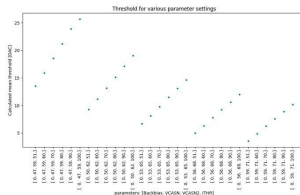
Timeline for Bachelor Studies

Maurice Donner David Schledewitz

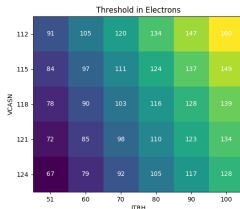
September 10th, 2020

- Starting to work together with Bogdan and Pascal on the ALPIDE Telescope.
- Main Operation of the Telescope
- What is a Threshold Scan?

- Plotting first results of threshold scans

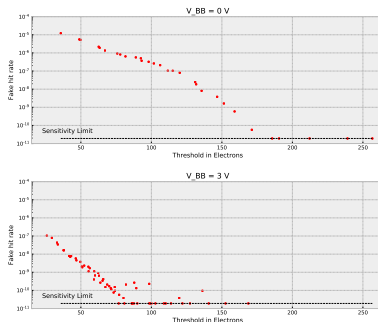


- Later that month: Automising the procedure and plotting the first Threshold "Heatmaps"



April

- Also finishing the First Google Document
- Looking at first Noiseoccupancy Scans

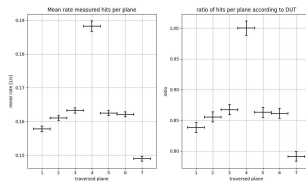
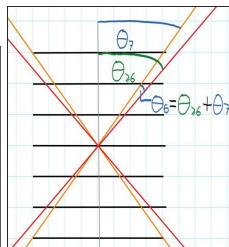
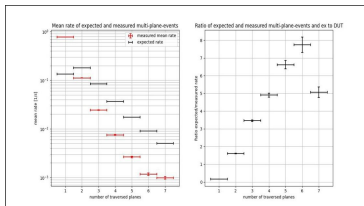


- Deciding to take Cosmic data due to the Health restrictions
- Finishing the second Google Document

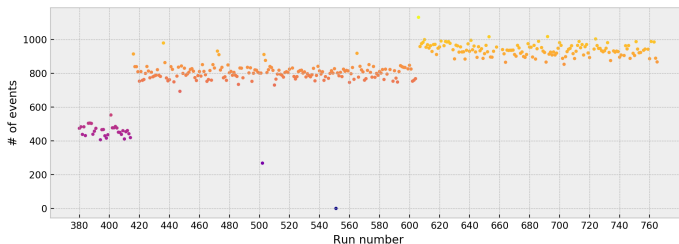
- Cosmics yield huge filesizes. Starting to work on a program that handles them...
- Meanwhile keep taking as much data as possible, and documenting the process in another Google Document

[illegible]

- Looking especially at Muon rates, chip effectiveness and making first calculations about angular distributions

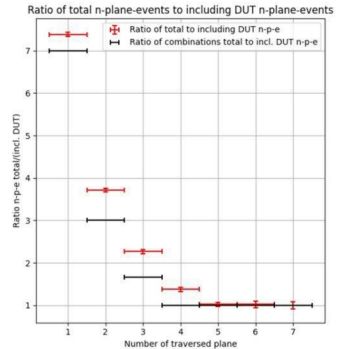
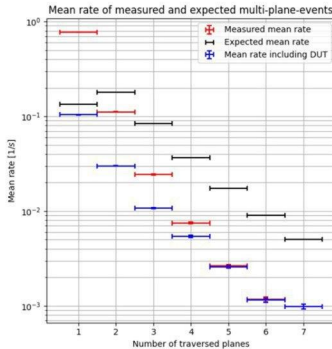


- Finishing the compression program, and taking first looks at the cosmic data as a whole

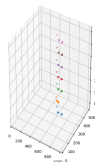
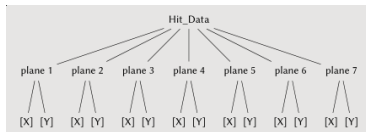


- Starting to work on a tracking algorithm, since the data per run is too small for corrvreckan

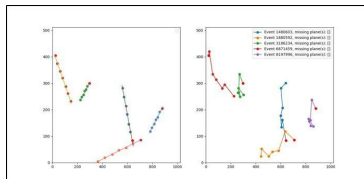
- Fixing muonrate calculations and looking at overestimation



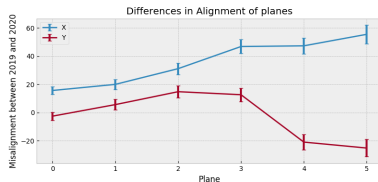
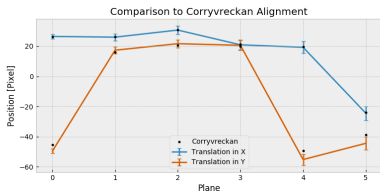
- Finishing Event organization and first align attempts (First with Testbeam Data)



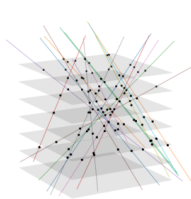
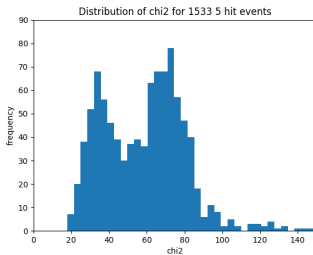
- Meanwhile visualizing the first Cosmics



- Finished Tracking algorithm and comparing alignment to DESY-Testbeam Data



- Found out, that transporting the telescope changes the alignment by up to 1.7mm.
- Looking at χ^2 and identifying further alignment issues



Only little hits on Plane 0 and 1

