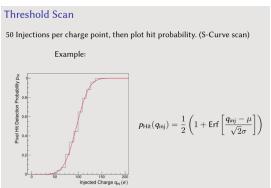
Status report - Wednesday, July 09th

Preview and Cosmic Analysis

Maurice Donner

09. July 2020

Preview of Presentation for July 21st



pdf can be found on indico \rightarrow

Problems

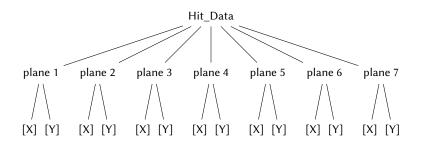
- (so far) unable to calculate residuals in Corry
- "Good" tracks spread out over 1.5 TB of raw data
 - \rightarrow Using Corry for tracking very difficult (not able to merge all data)

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Problems

- (so far) unable to calculate residuals in Corry
- Good" tracks spread out over 1.5 TB of raw data
 → Using Corry for tracking very difficult (not able to merge all data)

Workaround: Writing an Event organizer in python



Feed it with DESY Testbeam Data, to calculate the average offset of the planes:

```
Plane 1 position: X 13.74 Y -36.65

Plane 2 position: X 25.4 Y 16.19

Plane 3 position: X 30.15 Y 21.23

Plane 4 position: X 20.29 Y 20.06

Plane 5 position: X 20.65 Y -52.77

Plane 6 position: X -22.33 Y -41.59
```

Feed it with DESY Testbeam Data, to calculate the average offset of the planes:

```
Plane 1 position: X 13.74 Y -36.65

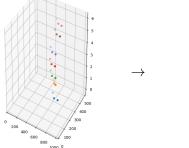
Plane 2 position: X 25.4 Y 16.19

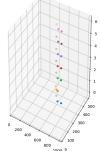
Plane 3 position: X 30.15 Y 21.23

Plane 4 position: X 20.29 Y 20.06

Plane 5 position: X 20.65 Y -52.77

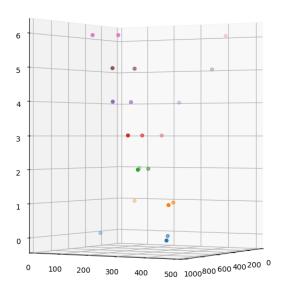
Plane 6 position: X -22.33 Y -41.59
```





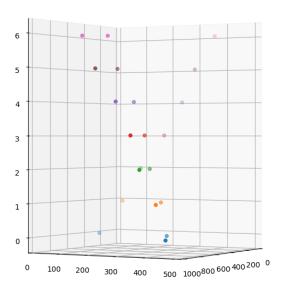
yes they're ugly, will produce some nicer plots soon!

Some actual cosmics: (Before Alignment)



Maurice Donner

Some actual cosmics: (After Alignment)



Next possible steps:

• Further improge alignment by adding rotation

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- fitting straight tracks through the data and calculate residuals

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- Do some actual tracking and alignment with Cosmics

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- Produce some nicer Plots ;)

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- fitting straight tracks through the data and calculate residuals
- Do some actual tracking and alignment with Cosmics
- Produce some nicer Plots ;)