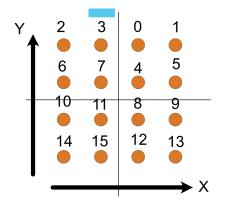
News

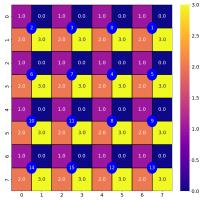
Reminder: Conventions



- X-Y convention derived from the drift chambers
- Propagated to the Xm-Ym variables
- Blue square is the drift chamber blind zone

Some news

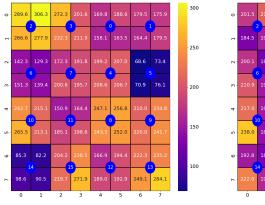
- I found a bug in my code for determining the homogenisation coefficients
- In the last step of the processing quadrant have been choose by their index instead of the fibre number
- Not a game changer but need to be corrected



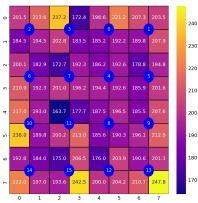
Correct quadrant and fibre numbering

Homogenisation 1/2

Fit performed on a quadrant basis (1 fibre). Only the Landau MPV is reported.



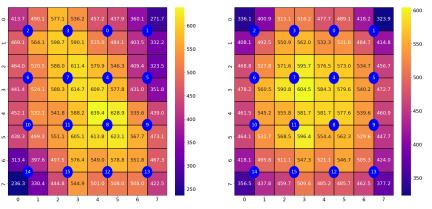
Before homogenisation



After homogenisation

Homogenisation 2/2

Fit performed on a quadrant basis (All fibres). Only the Landau MPV is reported.



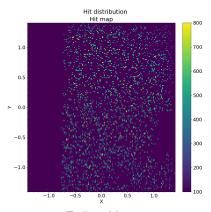
Before homogenisation

After homogenisation

New maps have to be produced for next meeting

First look at muons data (Troll1 with water)

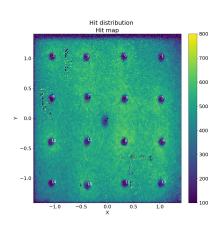
- ► Run 34
- Statistic not large enough to do something
- ► Move to pions runs



Troll 1 - Muons

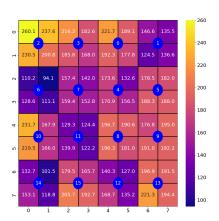
First look at pions data (Troll1 with water)

- ► Run 51
- ► First step : determine the fibre position (V2 processing)



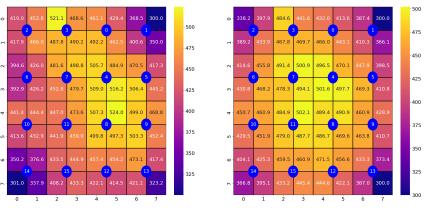
First look at pions data (Troll1 with water)

- Run 51
- Second step : find the homogenisation coefficients
- Use the mean value of the distribution instead of the Laudau MPV



Homogenisation

- Fit performed on a quadrant basis (All fibres). Only the Landau MPV is reported.
- Opportunistic model using the parameters found in the muons/pions heavy liquid study (crystal ball):
 - $ightharpoonup \sigma_{CB} = \sigma_{gauss}, \, \mu_{CB} = \sqrt{2} MPV_{Landau}$
 - $\sim \alpha_{CB} = -0.134$, fraction of signal = 0.80, $n_{CB} = 5$



Homogenisation

 Warning: The map can not be compared straightforwardly, not the same homogenisation procedure

