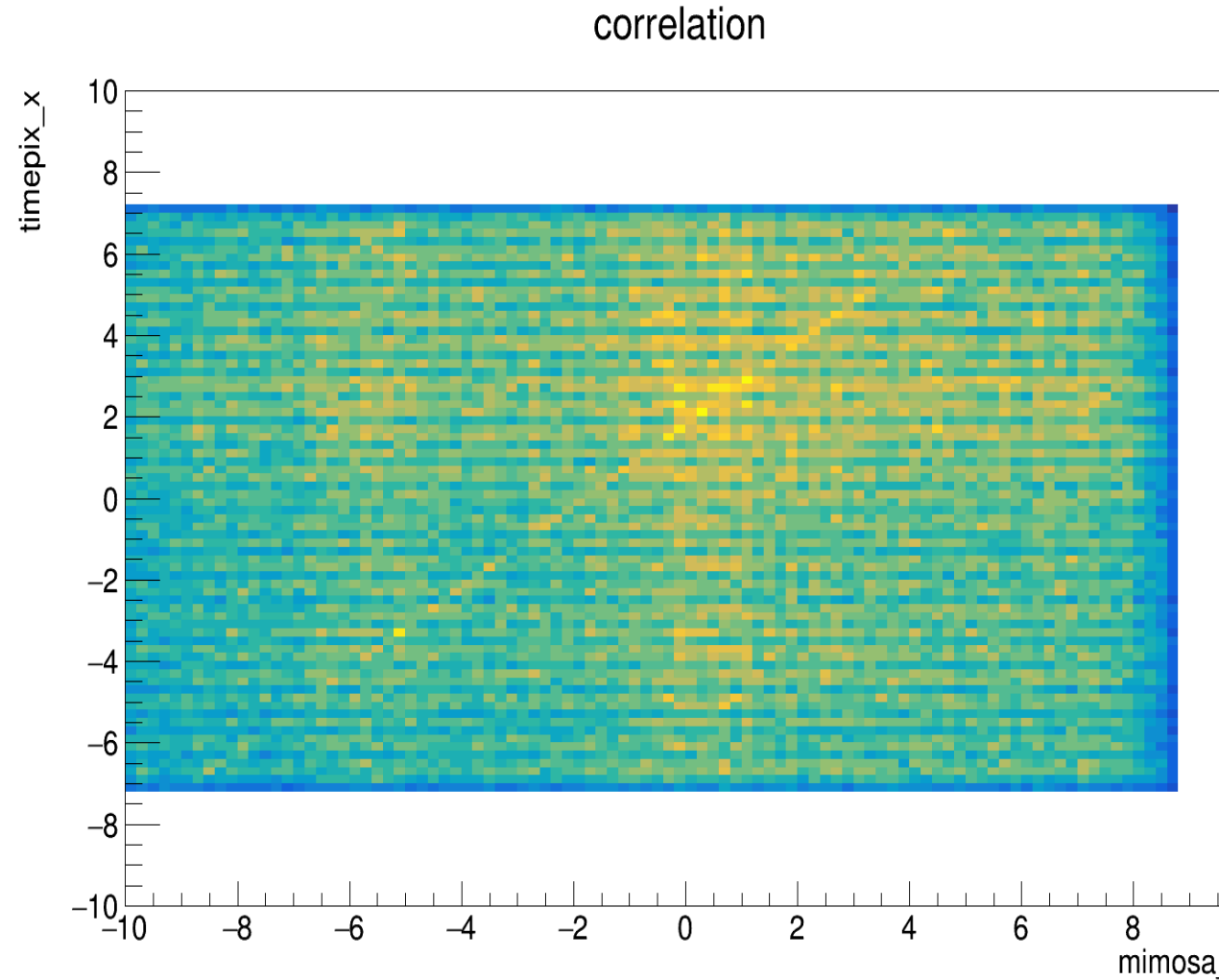


Testbeam update

- Found a hint of a correlation between Timepix and Mimosa tracks

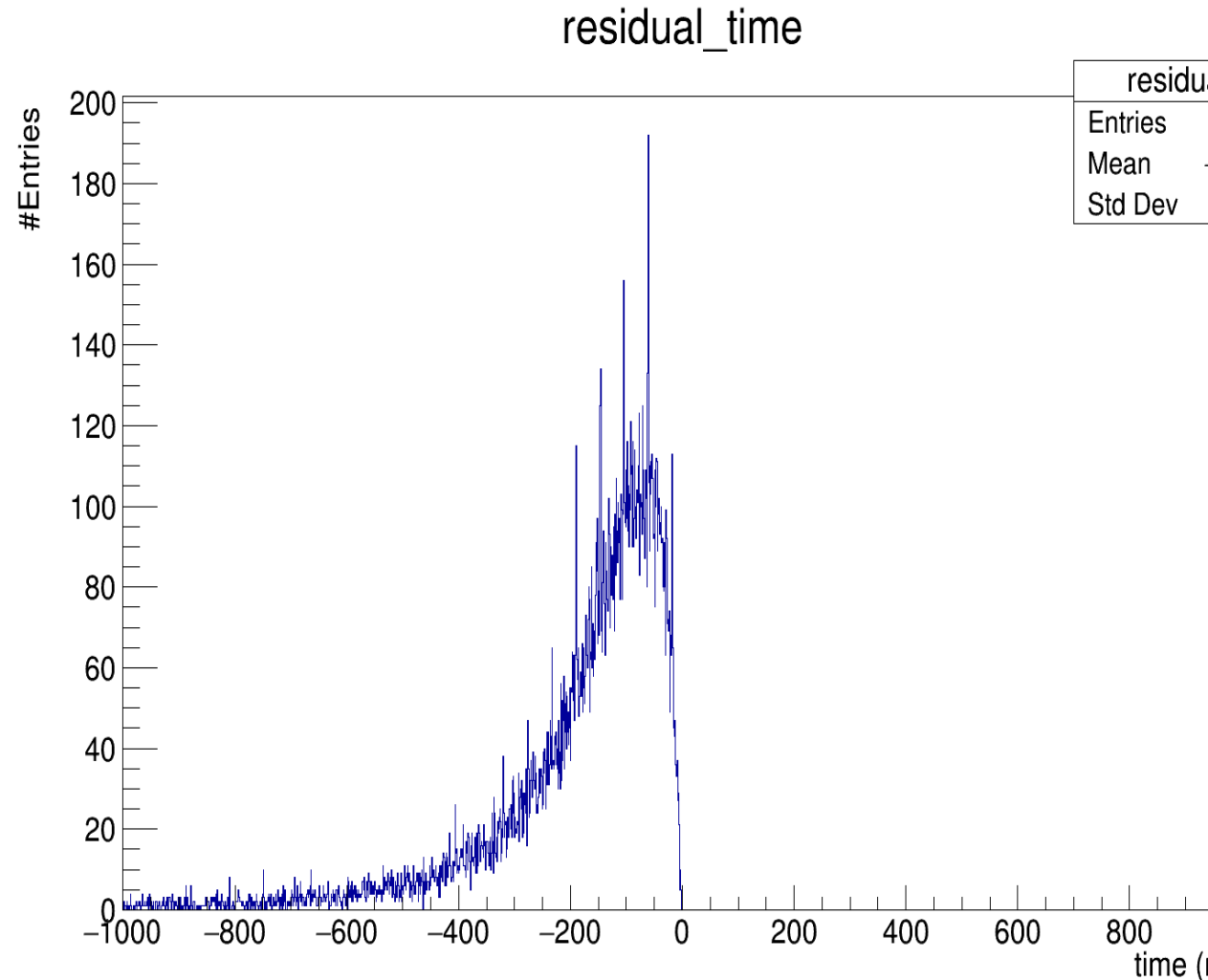


Testbeam update

- Found a hint of a correlation between Timepix and Mimosa tracks
- Could find a corresponding timepix hit in 50% of all mimosa tracks after some more alignment
- Currently checking the time matching with Kpix.
- Question: The runtime value we print out is coming from where? DAQ? KPIX?

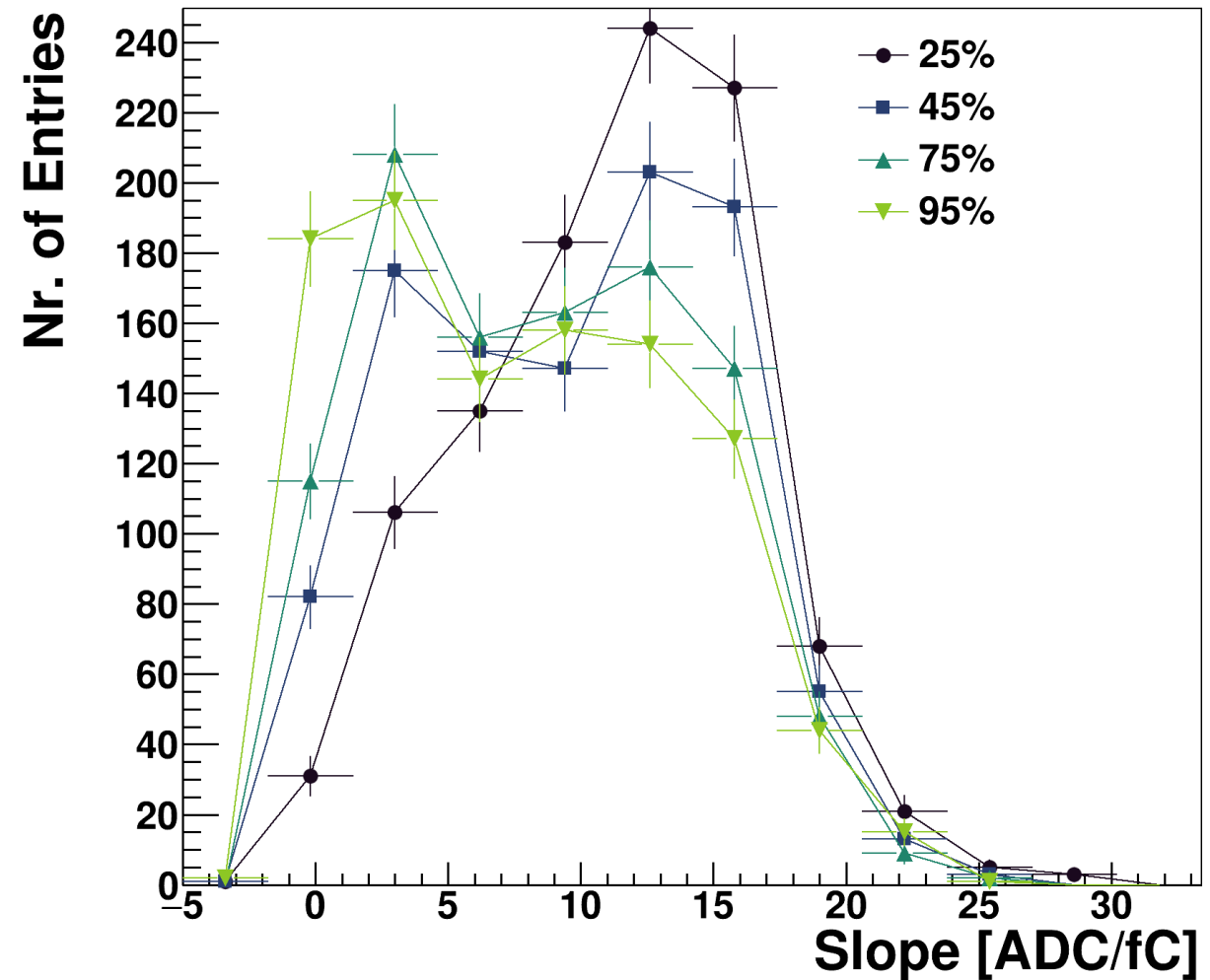
```
runtime =  
sample → getSampleRuntime64(framertime);
```

Does it get reset to 0 when a new kpix run starts?



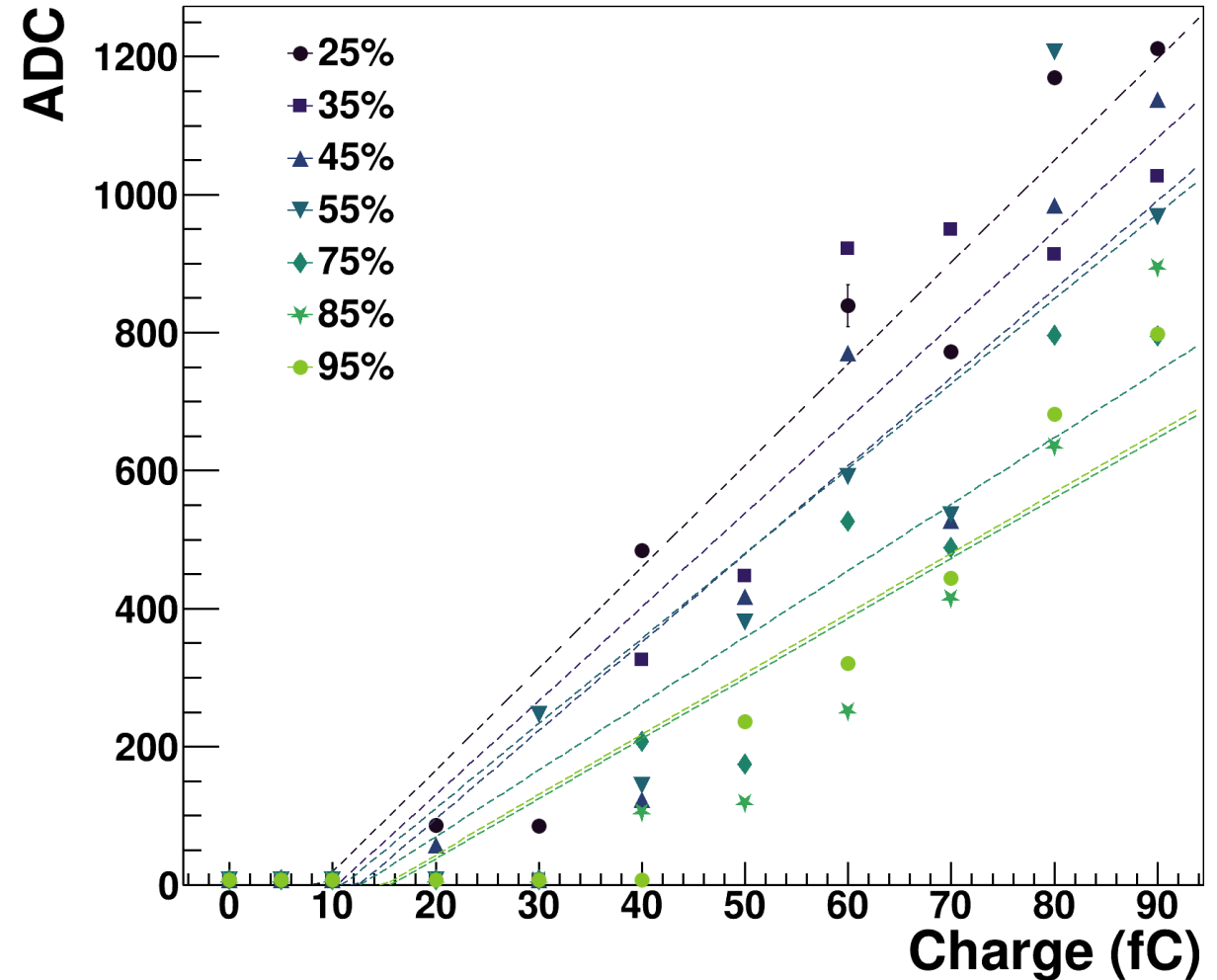
Humidity and Calibration

- About a year ago we performed measurements of the sensors calibration performance when exposed to different levels of humidity.
- The behavior was not the same for all KpiX.
 - Some showed large influence of humidity onto the slope



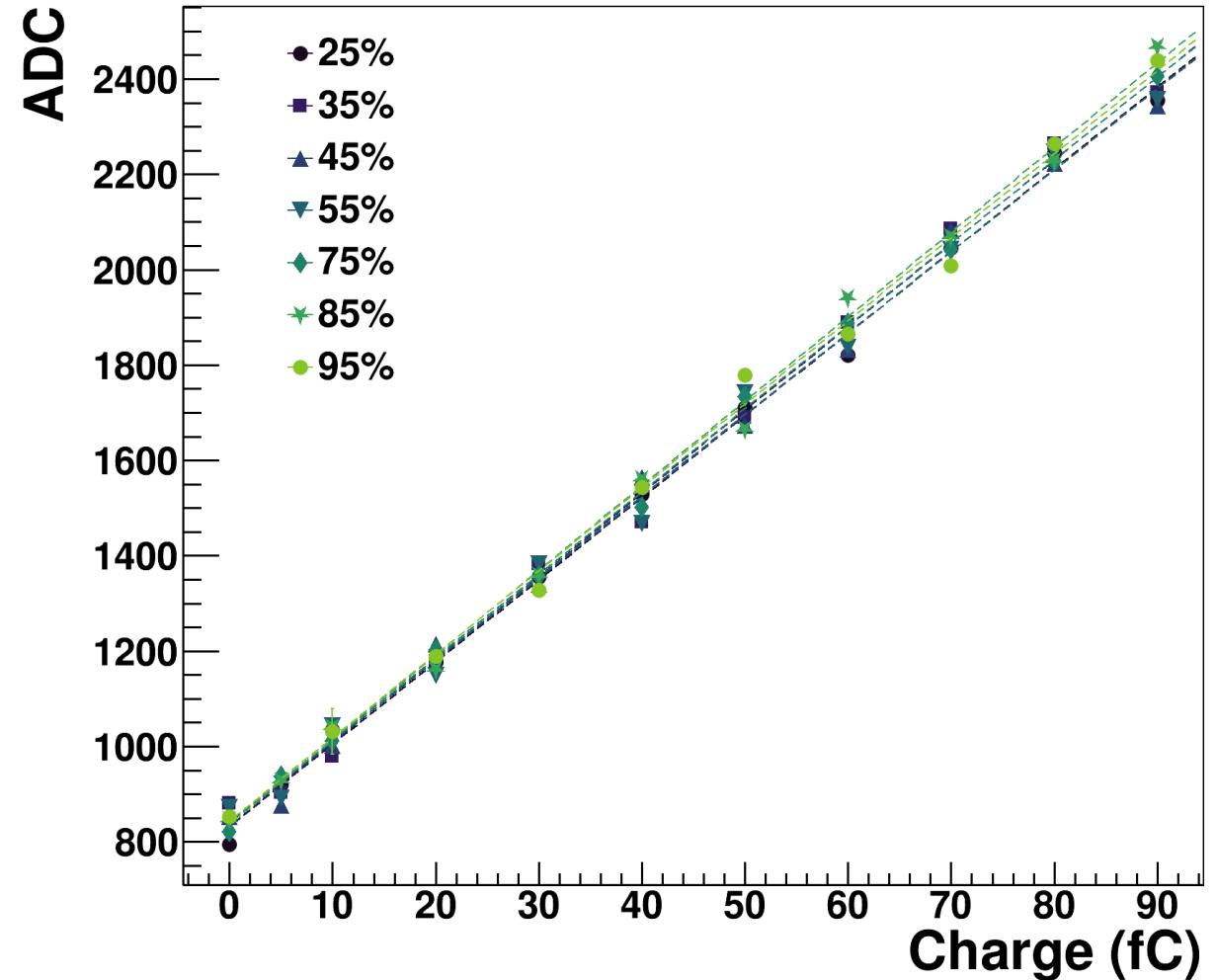
Humidity and Calibration

- About a year ago we performed measurements of the sensors calibration performance when exposed to different levels of humidity.
- The behavior was not the same for all KpiX and not for all channels.
 - Some showed large influence of humidity onto the slope



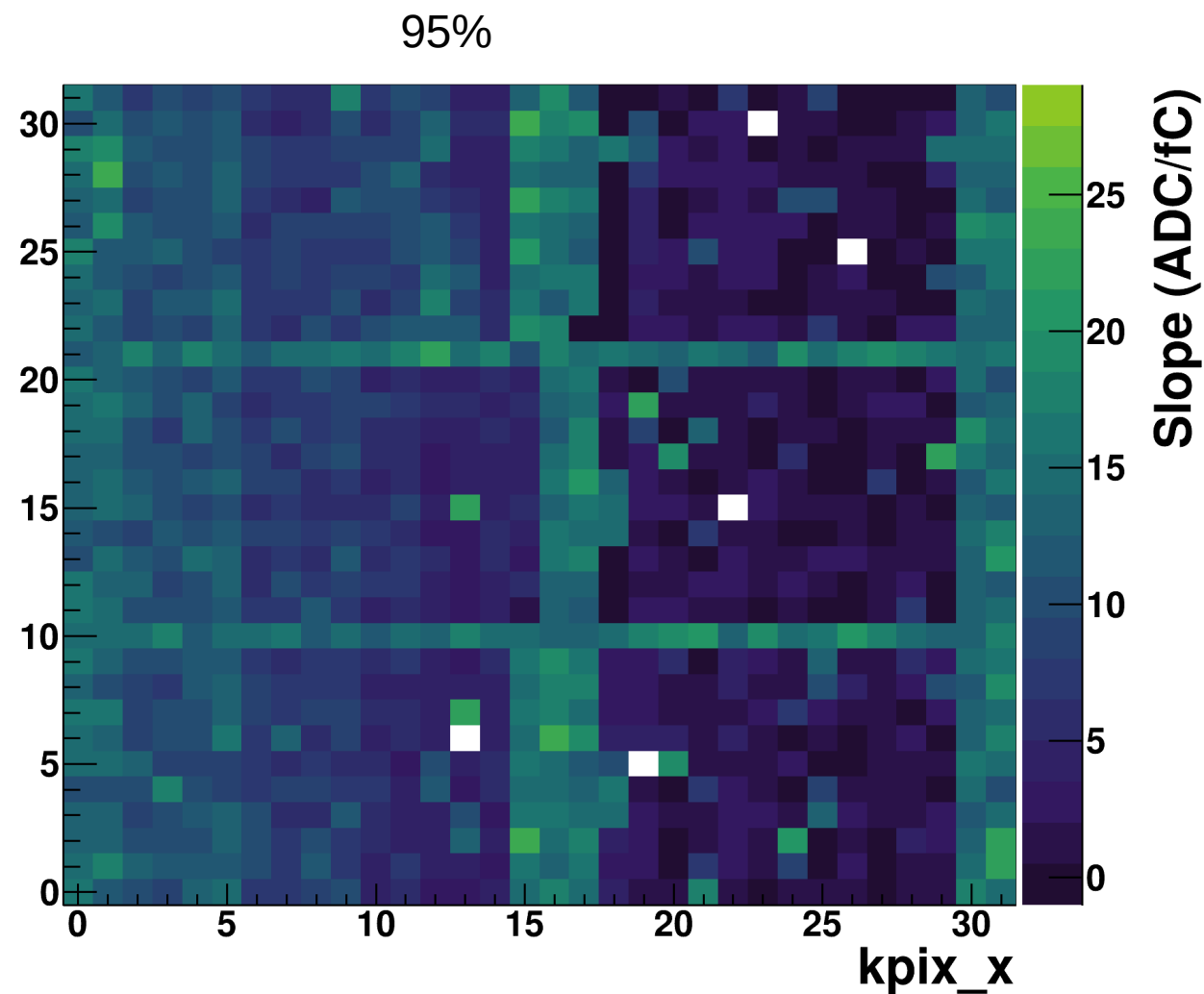
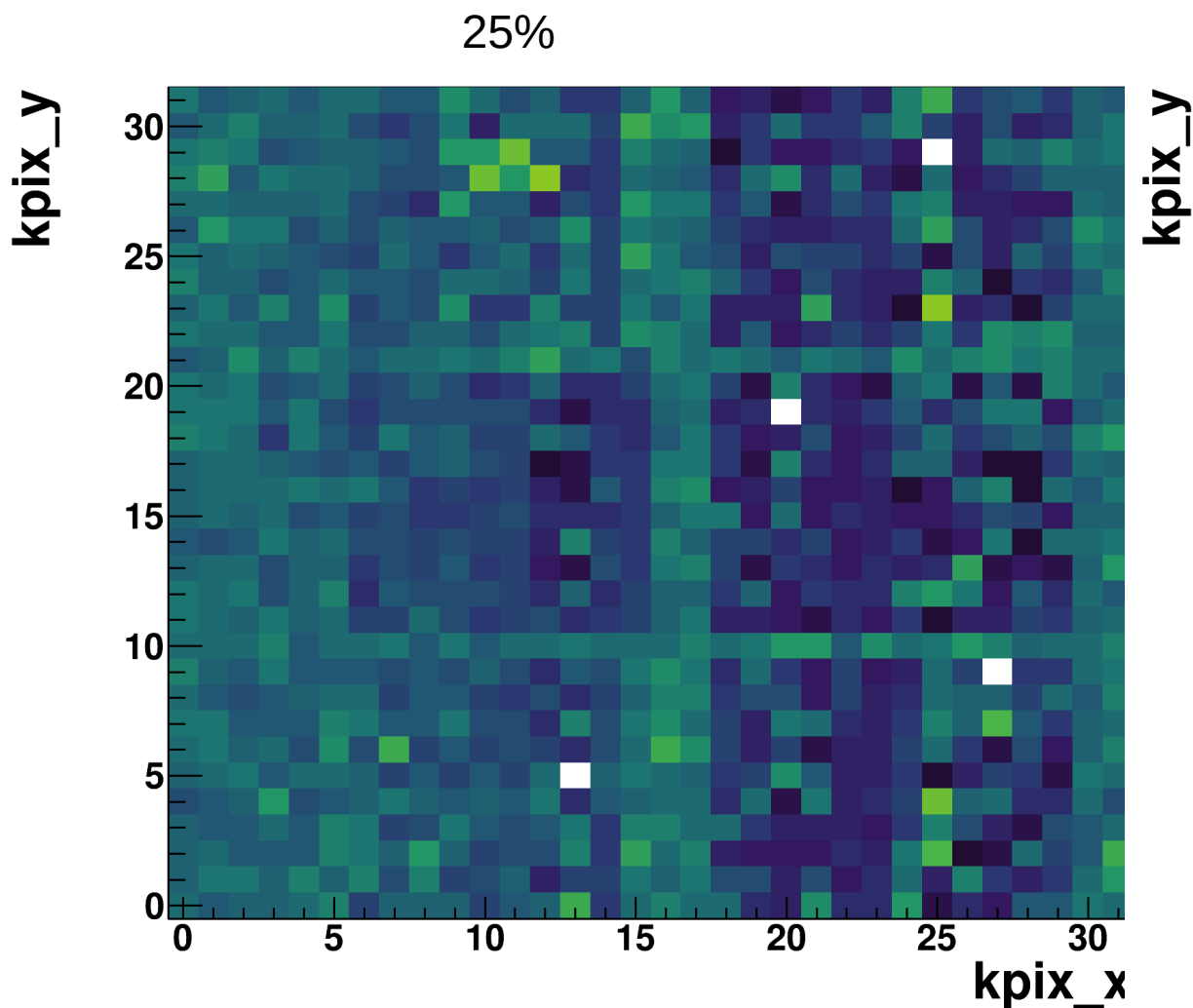
Humidity and Calibration

- About a year ago we performed measurements of the sensors calibration performance when exposed to different levels of humidity.
- The behavior was not the same for all KpiX and not for all channels.
 - Some showed large influence of humidity onto the slope
 - While others did not



Humidity and Calibration

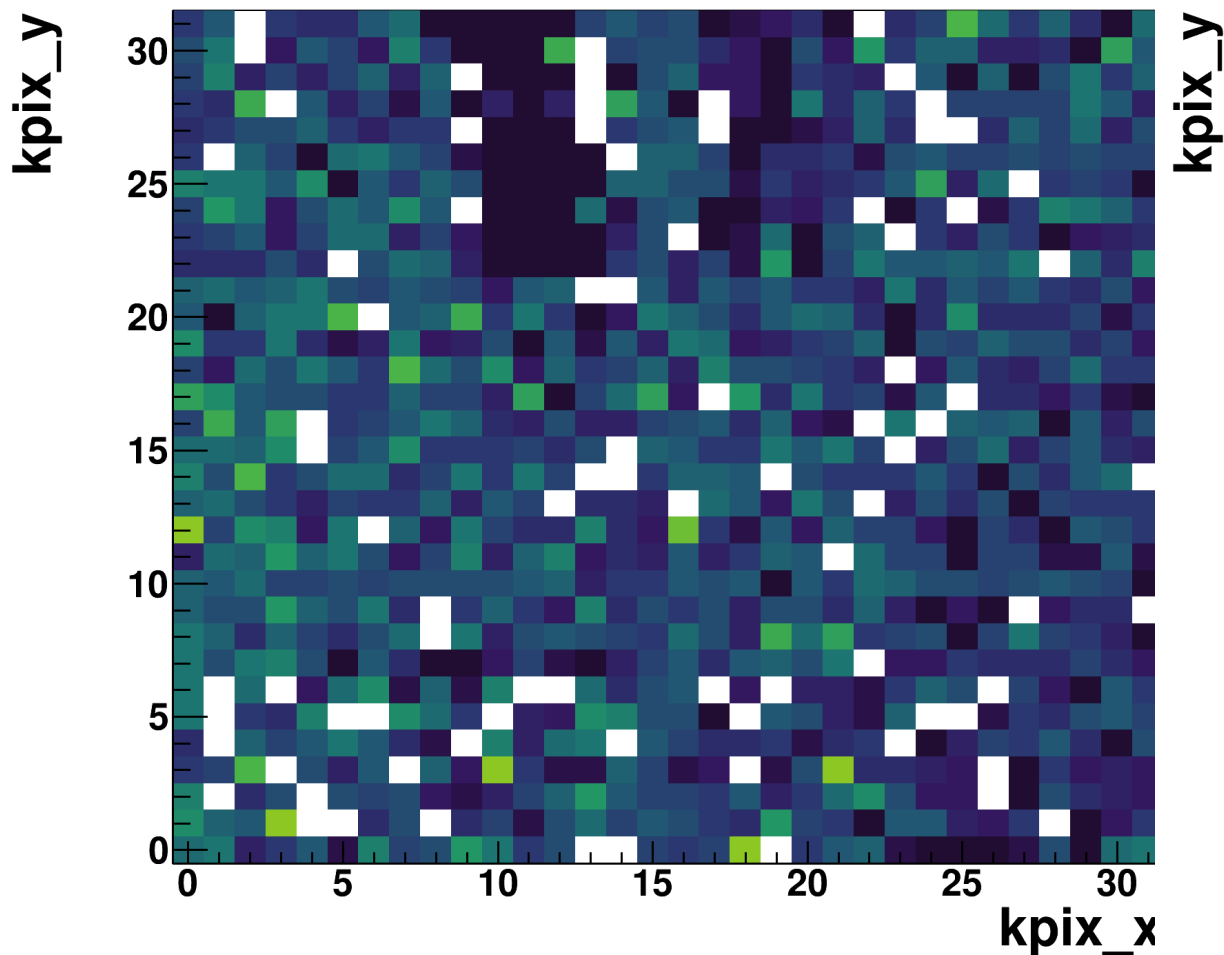
- One KpiX showed distinct patterns when mapping the slope onto the KpiX channels



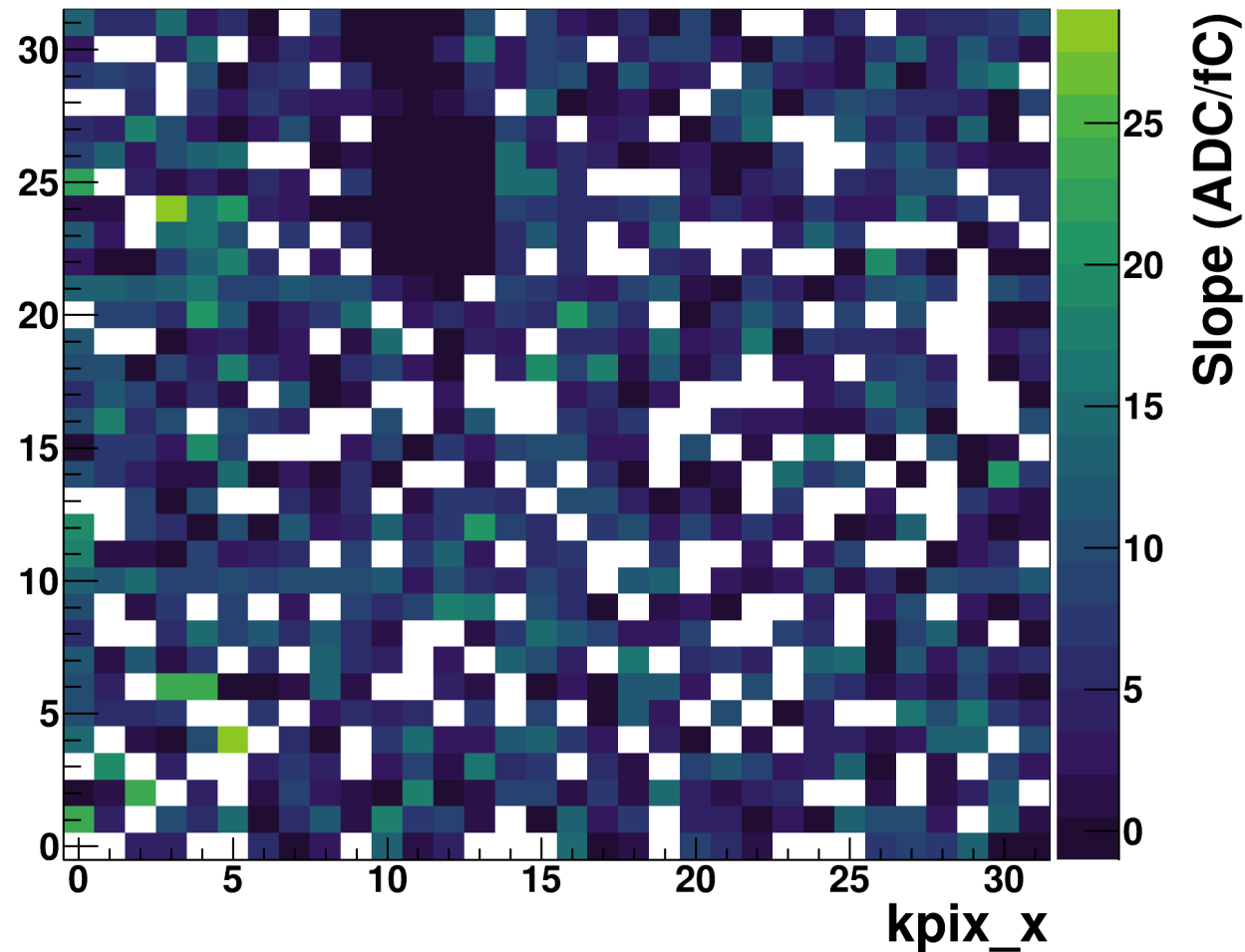
Humidity and Calibration

- One KpiX showed distinct patterns when mapping the slope onto the KpiX channels
- Another did not.

25%



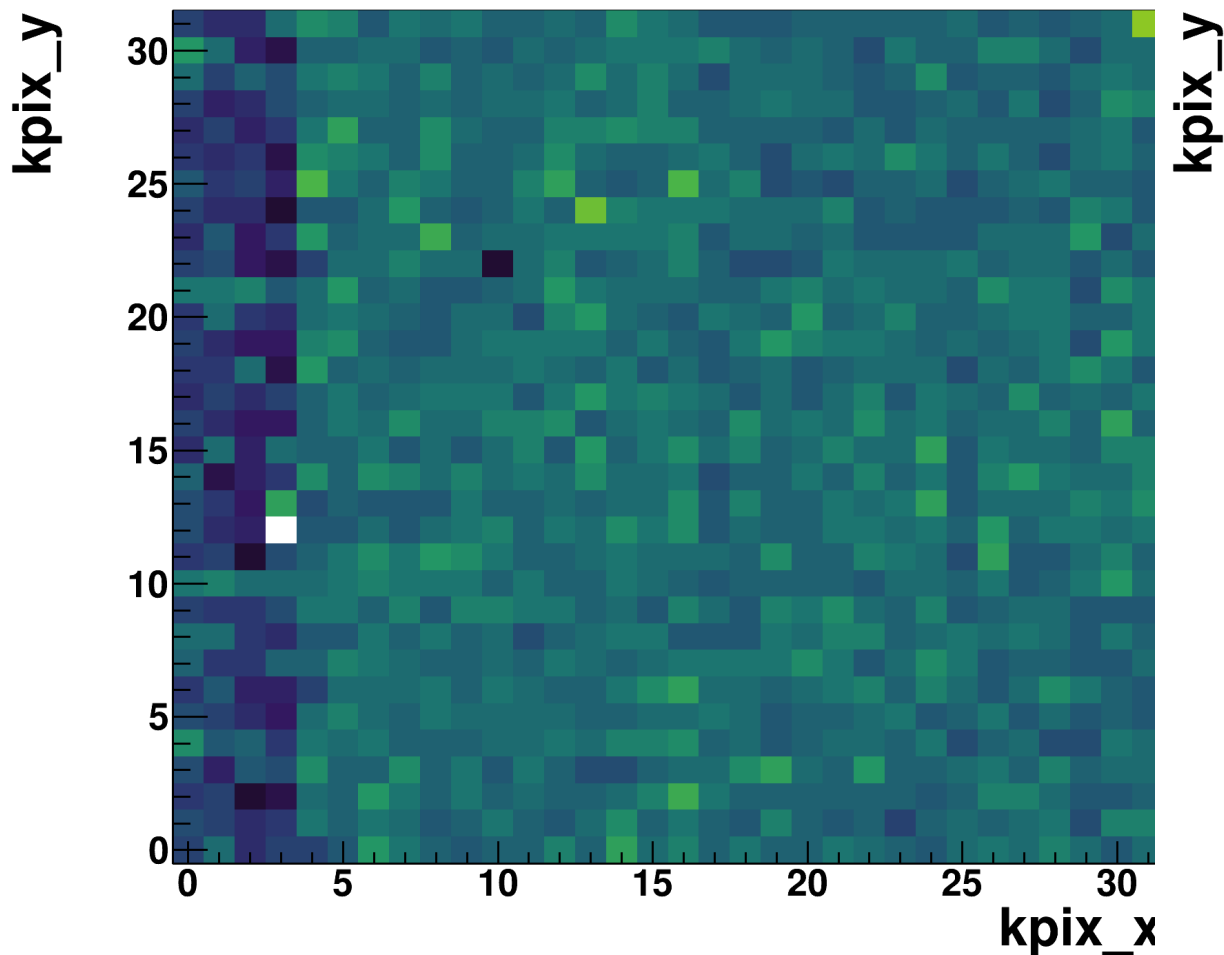
95%



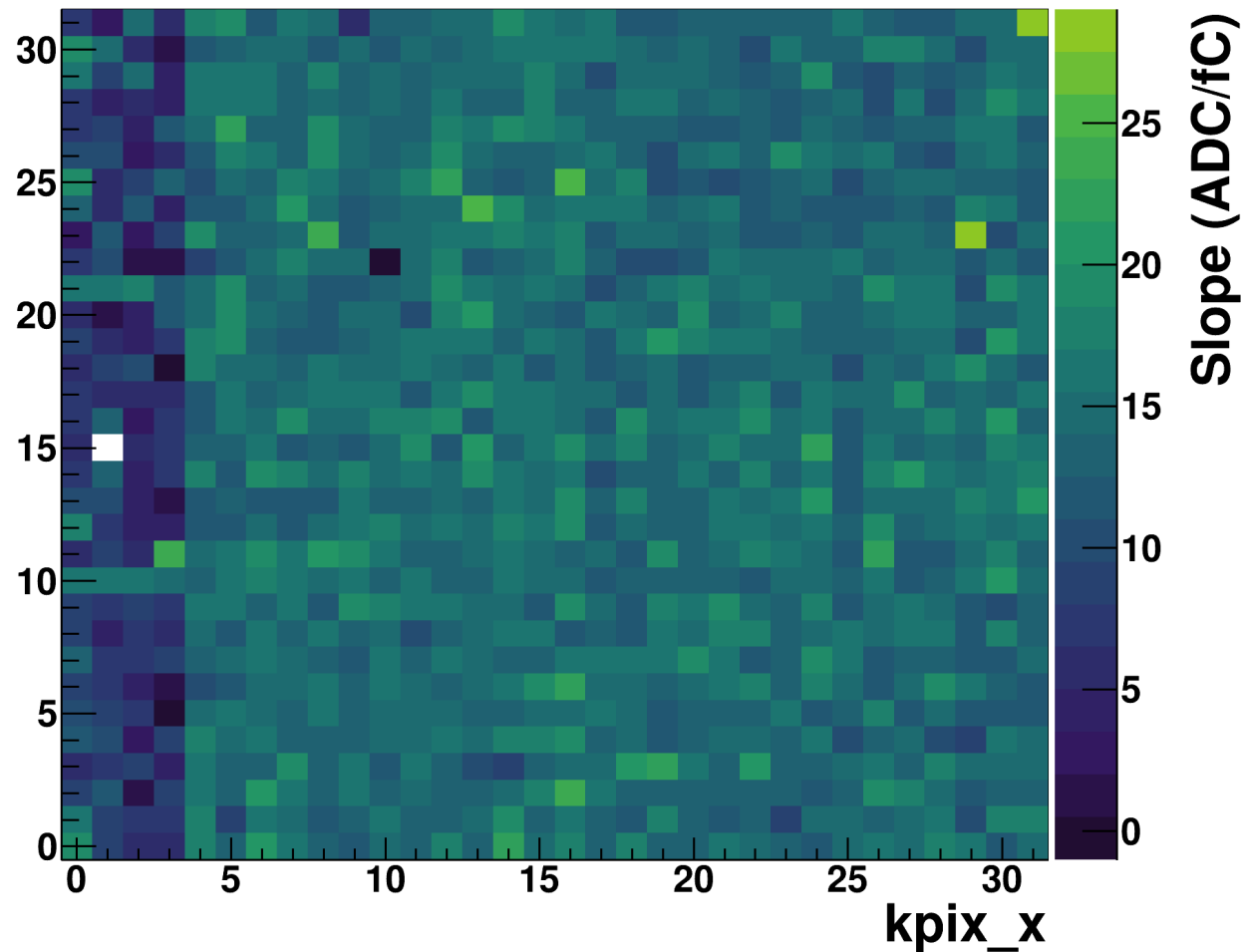
Humidity and Calibration

- One KpiX showed distinct patterns when mapping the slope onto the KpiX channels
- And one did not care at all

25%

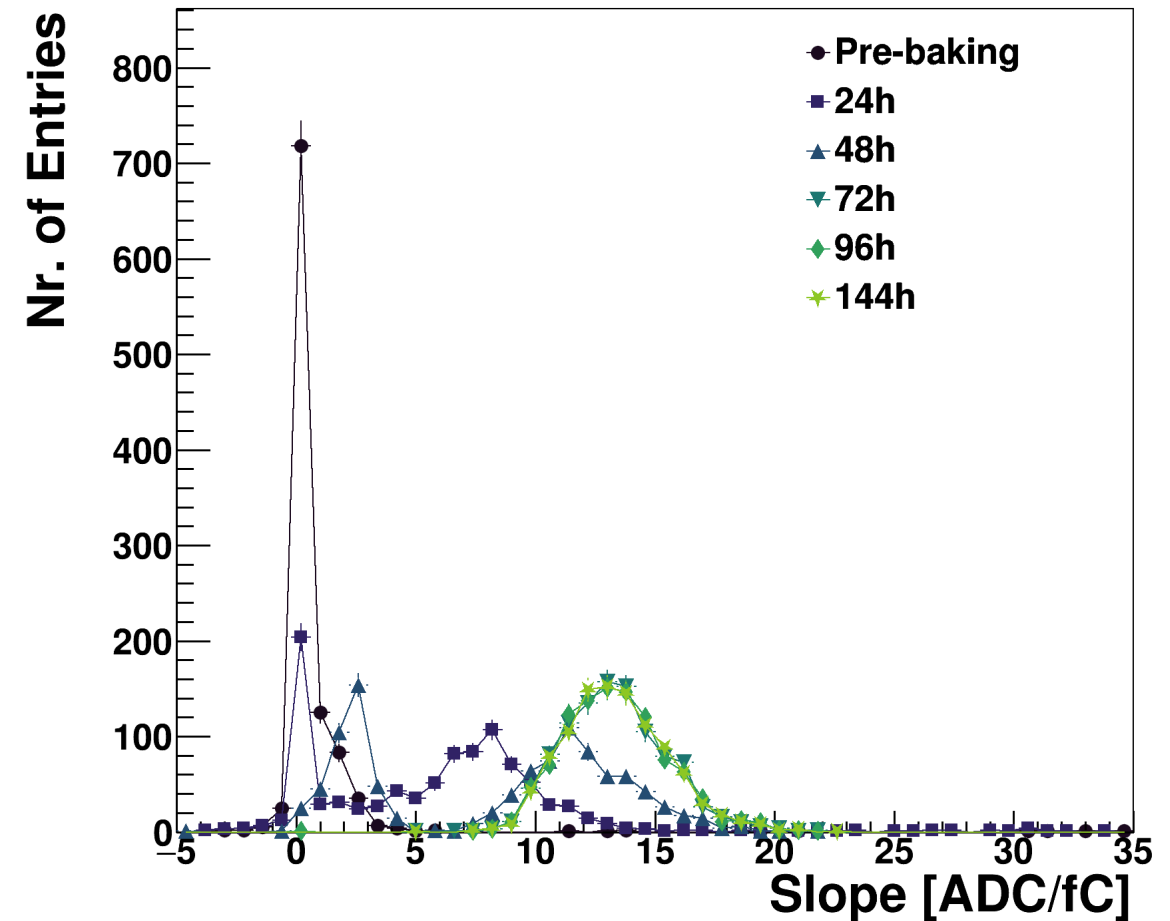


75%



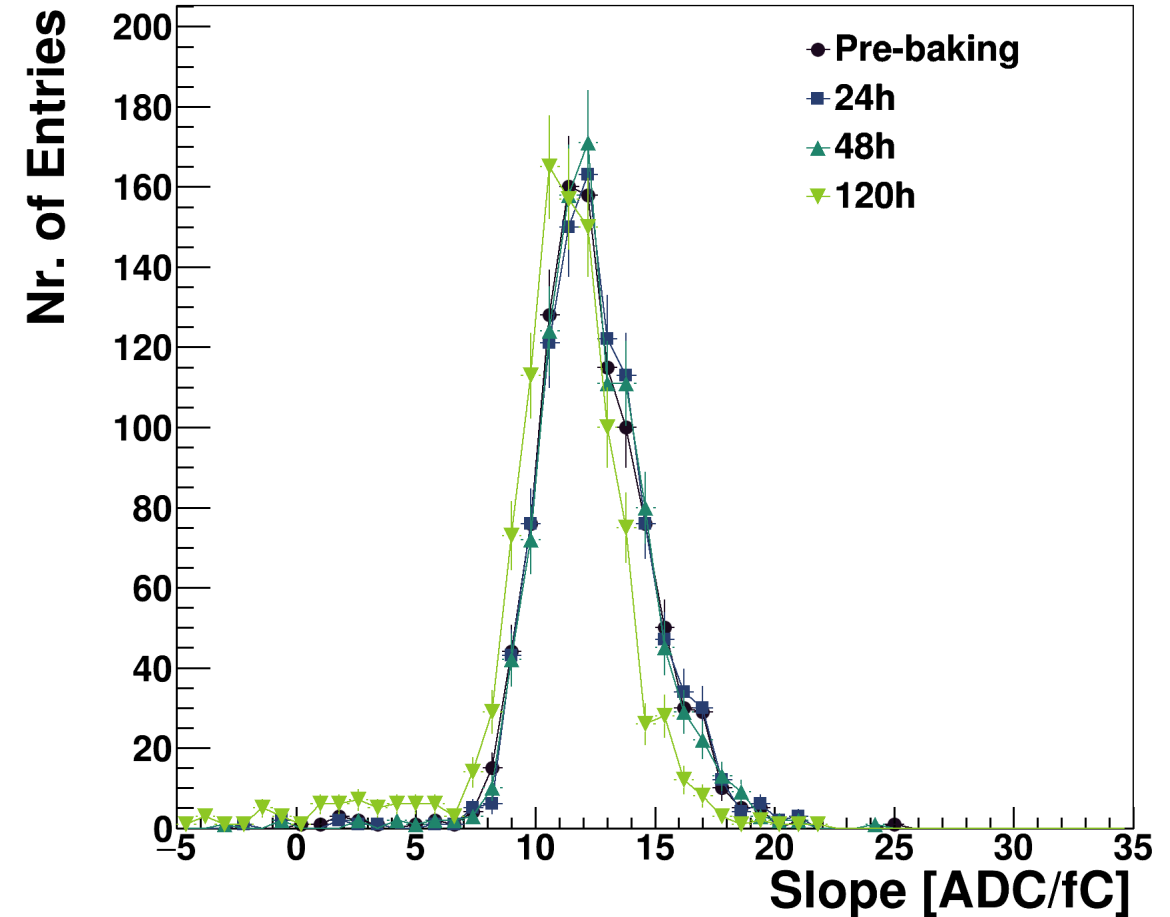
Humidity and Calibration

- The reverse is also true, when drying sensors in the oven some sensors show a clear improvement in their behavior
- While the other can also be found



Humidity and Calibration

- The reverse is also true, when drying sensors in the oven some sensors show a clear improvement in their behavior
- While the other can also be found



Humidity and Calibration

- The reverse is also true, when drying sensors in the oven some sensors show a clear improvement in their behavior
- While the other can also be found
- The behavior change in baking is often similar. To the exposure to humidity just in reverse
- Channels not so much recover in their slope in that their overall ADC response increases with decreased humidity.
- **Question: Why exactly is this behavior present? Is the charge being drained before digitization/injection at high humidity?**

