## Status report - Thursday, April 30th

Noise Occupancy Scans and Fake Hit rate

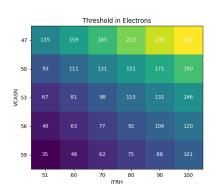
Maurice Donner

30. April 2020

1/5

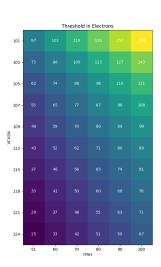
#### Note to last Presentation

#### 0 V Back Bias



Note: This is a corrected Version of the presentation. The Errors in data have been identified and fixed. The missing config file has been restored, and faulty values have been masked entirely. This is an accurate reference to all values.

#### 3 V Back Bias



# Processing NoiseOcc Scan Data

## Goals

Automize the process of calculating Fake Hit Rate for any set of measurements

## **Problems**

Pixel firings are completely random for the (well-working) pixels.

-> no hit, no .dat file

# Processing NoiseOcc Scan Data

## Goals

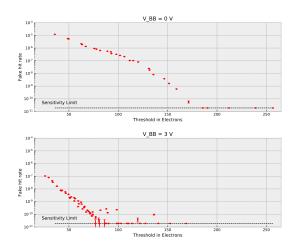
Automize the process of calculating Fake Hit Rate for any set of measurements

## **Problems**

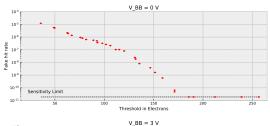
Pixel firings are completely random for the (well-working) pixels.

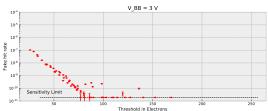
-> no hit, no .dat file

## Fake Hit rate



## Fake Hit rate





#### NoiseOccupancy\_200323\_185942.dat

119	640	2
464	581	1
464	583	1
464	584	1
464	585	1
464	586	1
464	587	1
464	588	1
465	580	1
465	581	1
465	582	1
465	584	1
465	585	1
465	586	1
465	587	1

- Cluster, induced by particle event during measurement
- random firing of column

## **New Stuff: Cosmics**

## Goals

 Take data over long periods of time automatically (so far there are too many errors)

## **New Stuff: Cosmics**

## Goals

- Take data over long periods of time automatically (so far there are too many errors)
- Write scripts to search for cosmic events in huge data files.
  Angular Distribution?

## **New Stuff: Cosmics**

## Goals

- Take data over long periods of time automatically (so far there are too many errors)
- Write scripts to search for cosmic events in huge data files.
  Angular Distribution?
- Analysis on Cosmics data