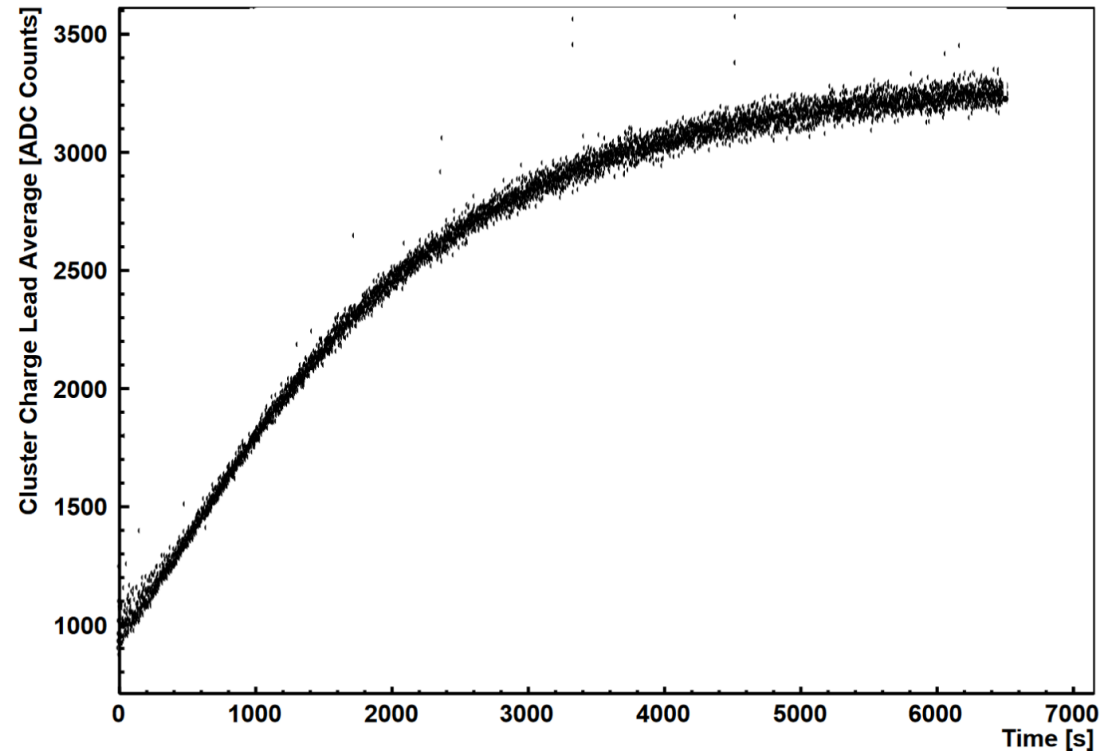


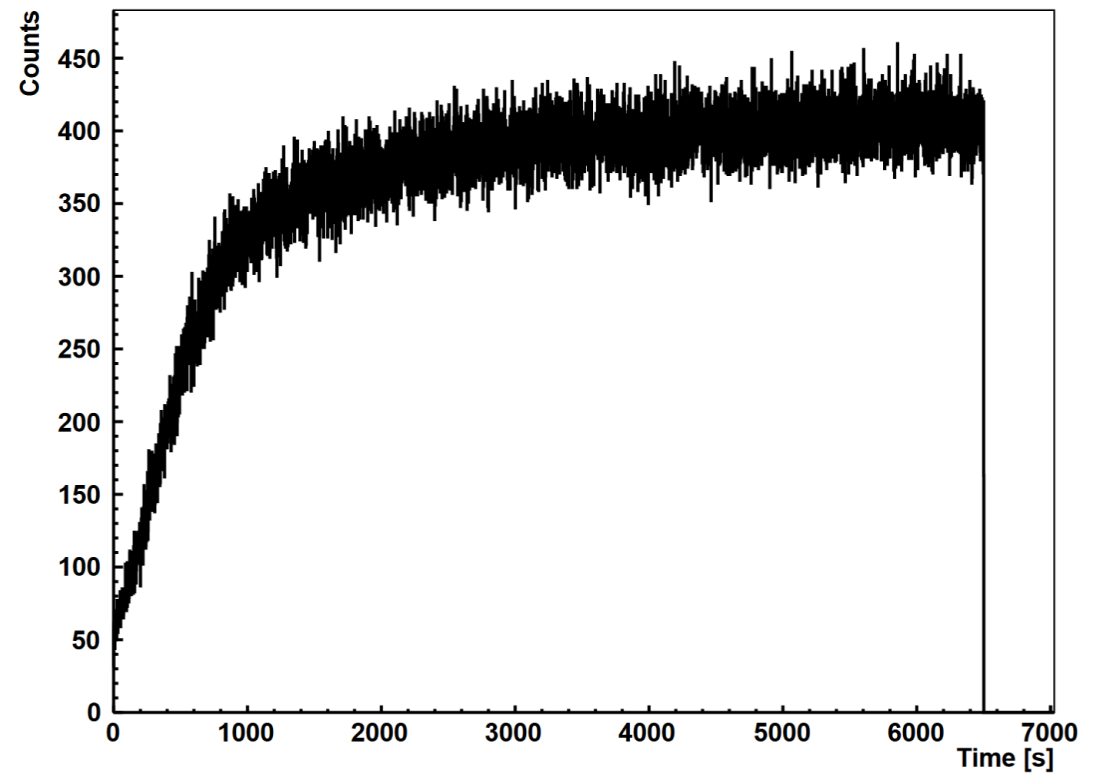
Updates on the 20x20 GEM Detector

Charge-Up Effect

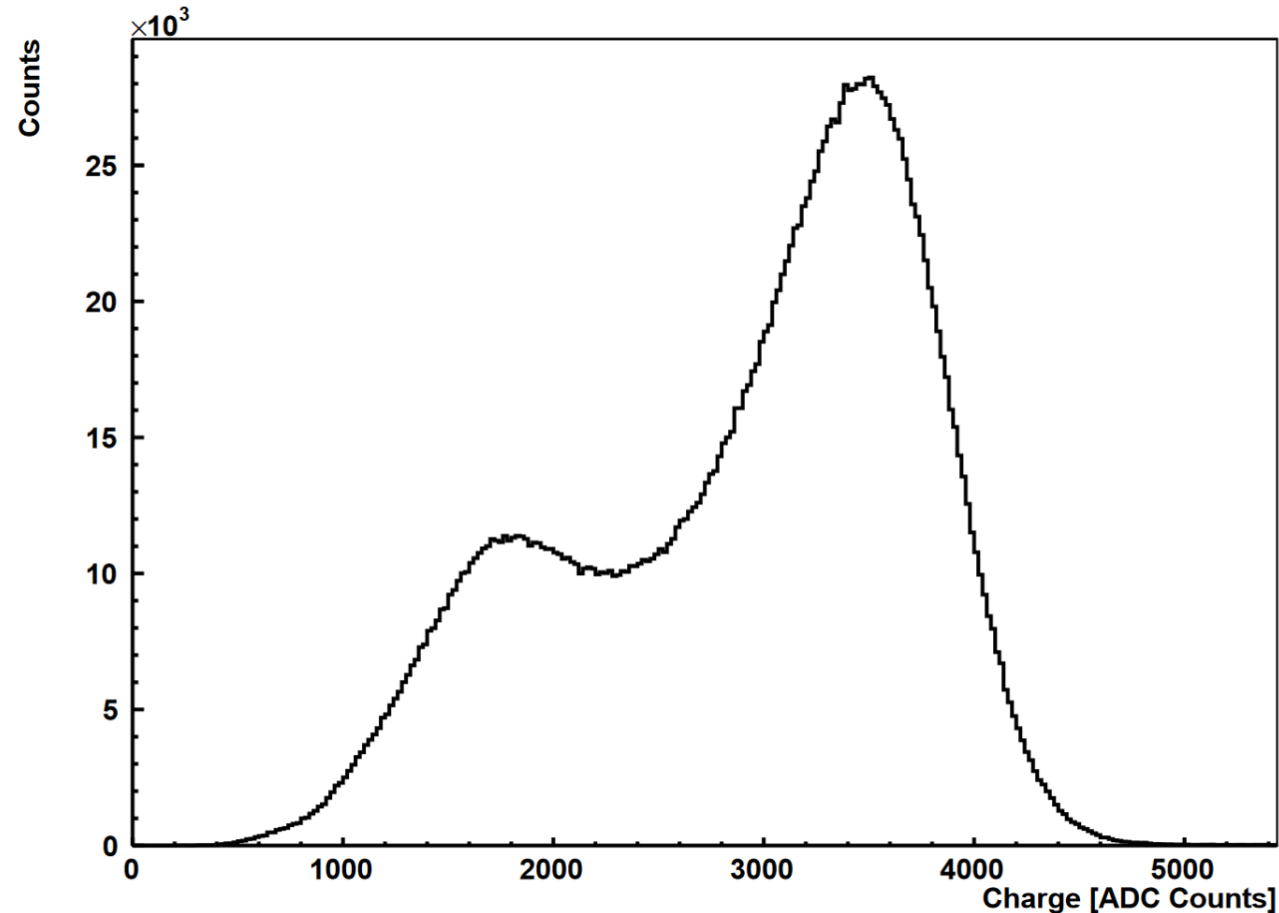
Cluster Charge



Trigger Rate

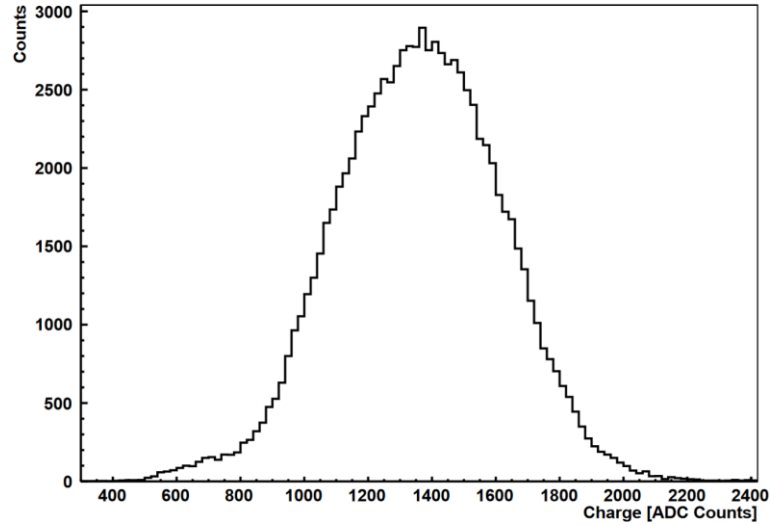


Cluster Charge of Charge-Up Effect

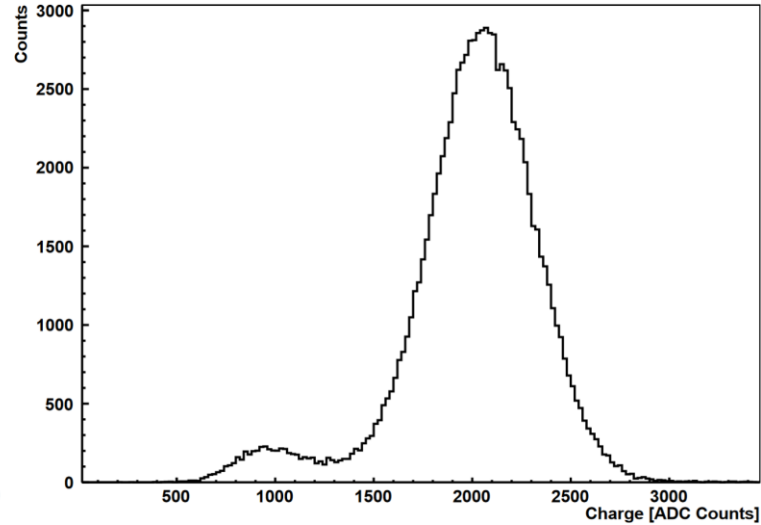


- 2.4 Million events in total
- ~ 2 h
- Measurement at 297.5V
- Extra analysis for every 100.000 events
- Maybe smaller sections in the beginning

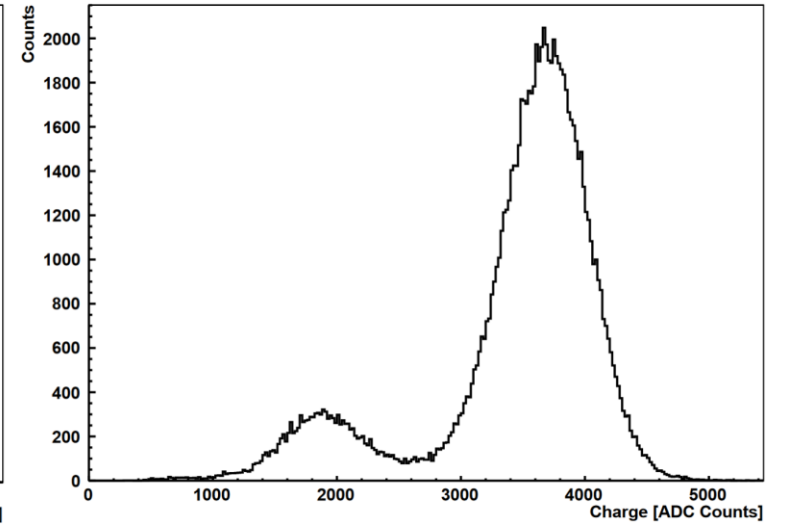
Cluster Charges for different Times



- First 100.000 Events
- 600s

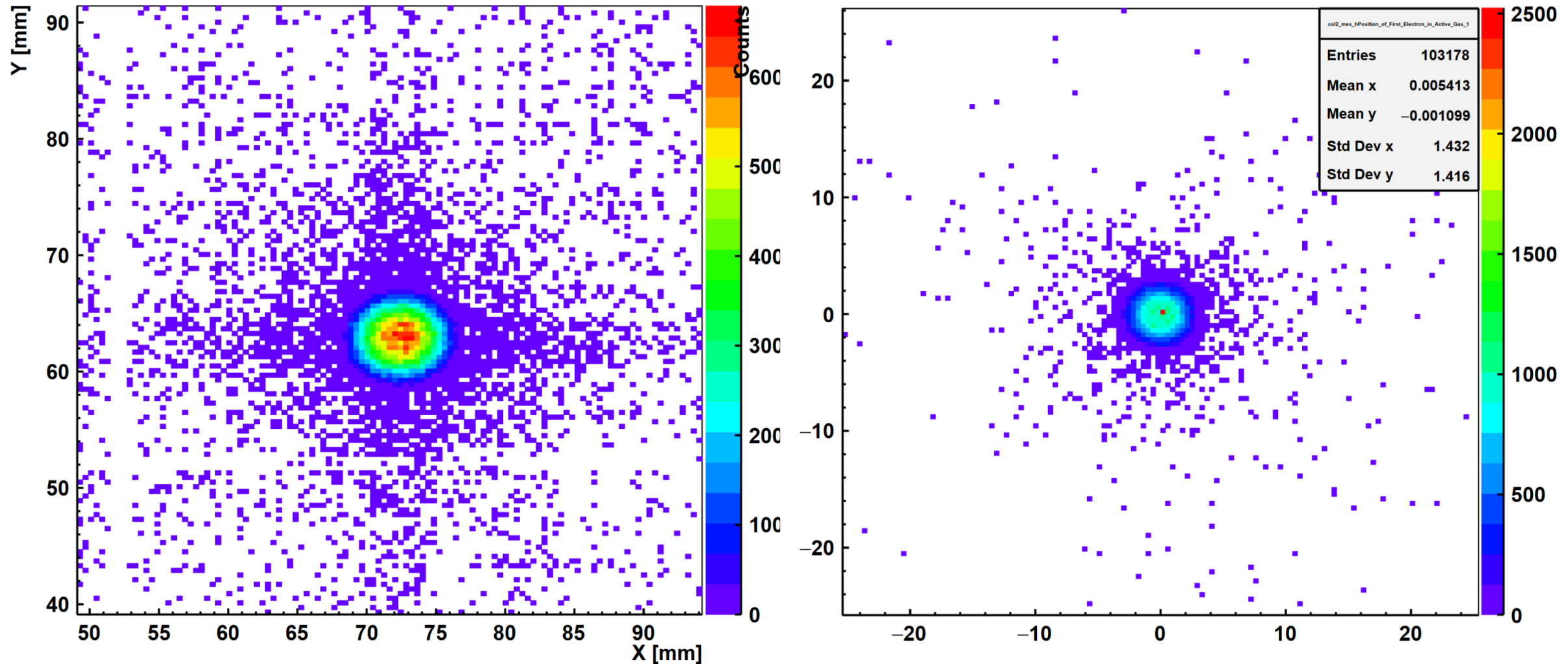


- Events 200.000-300.000
- 300s

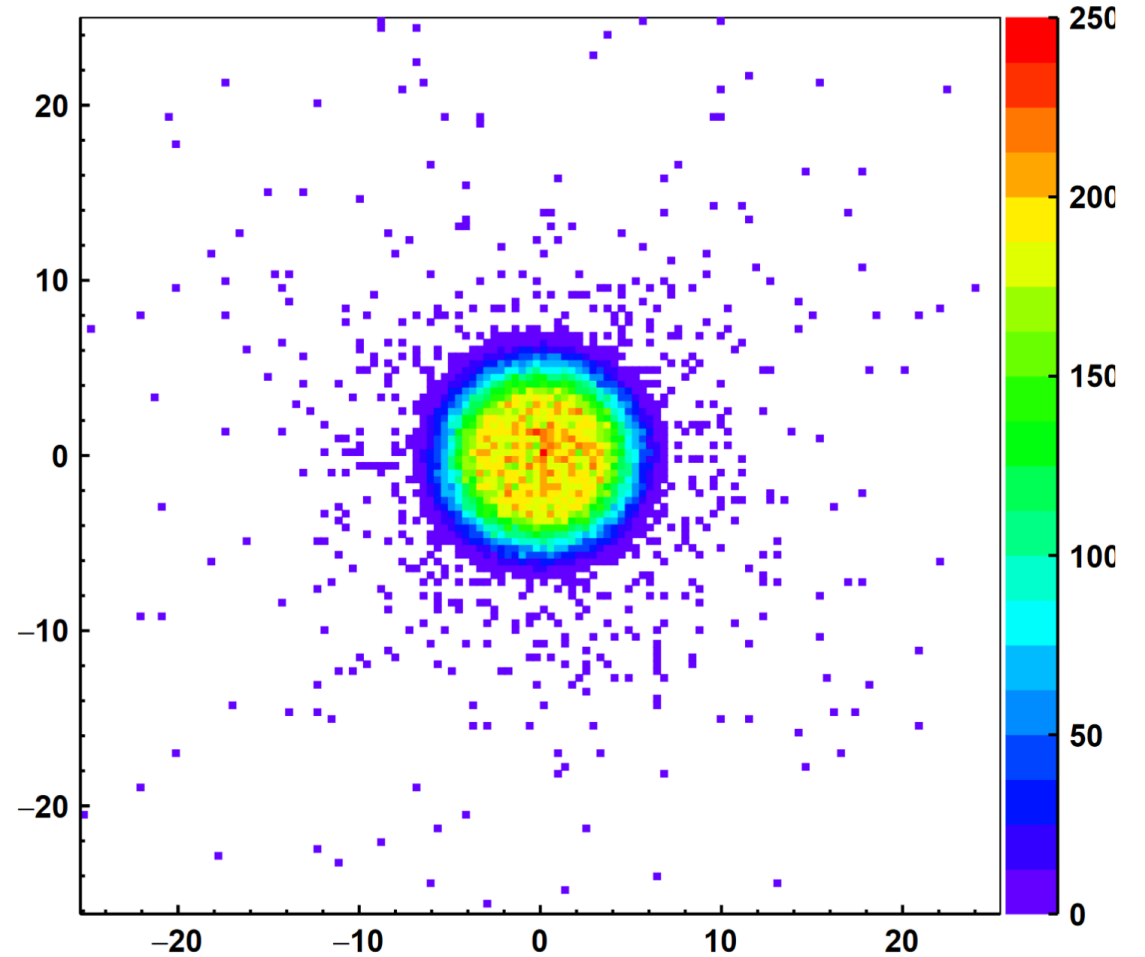
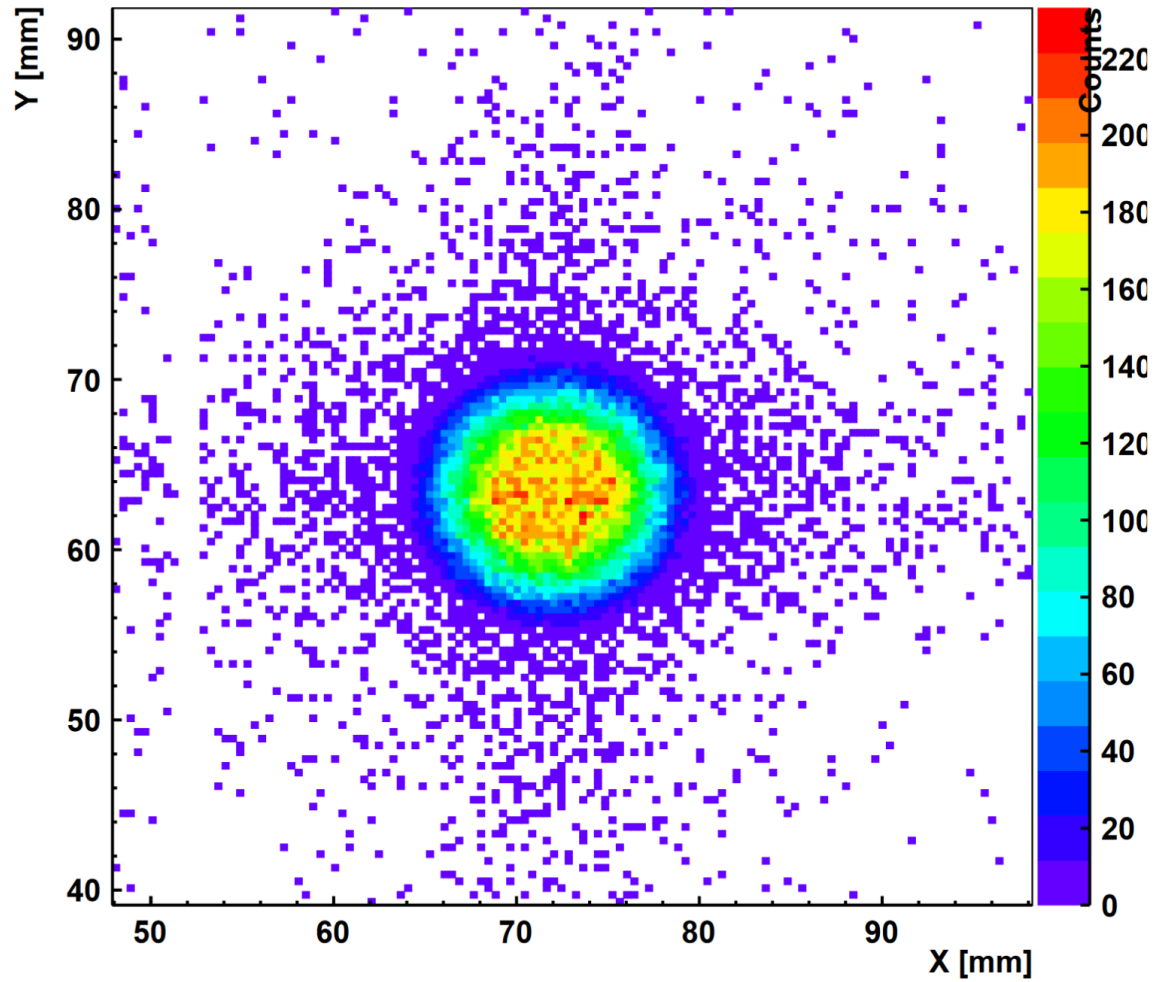


- Last 100.000 Events
- 250s

Simulation of Position Resolution-2mm Collimator

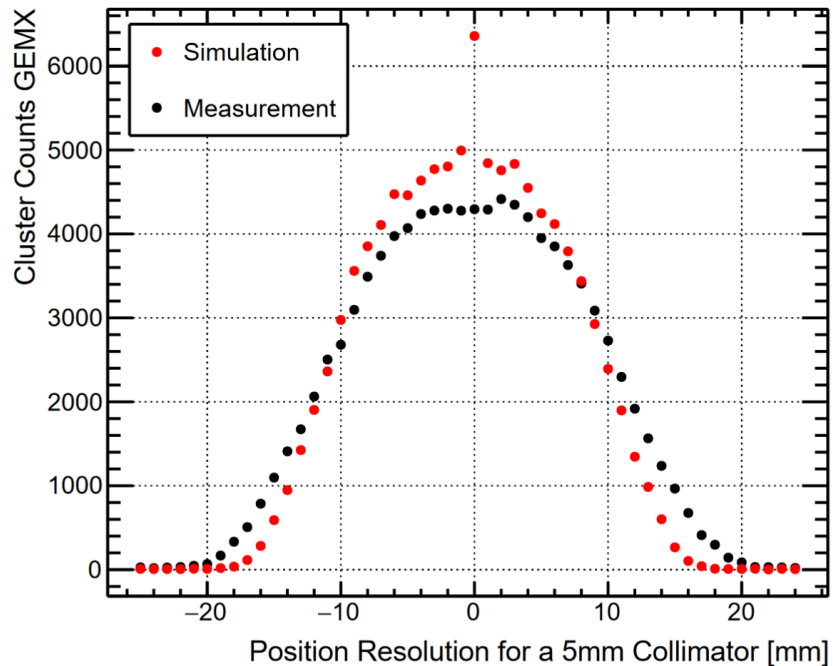
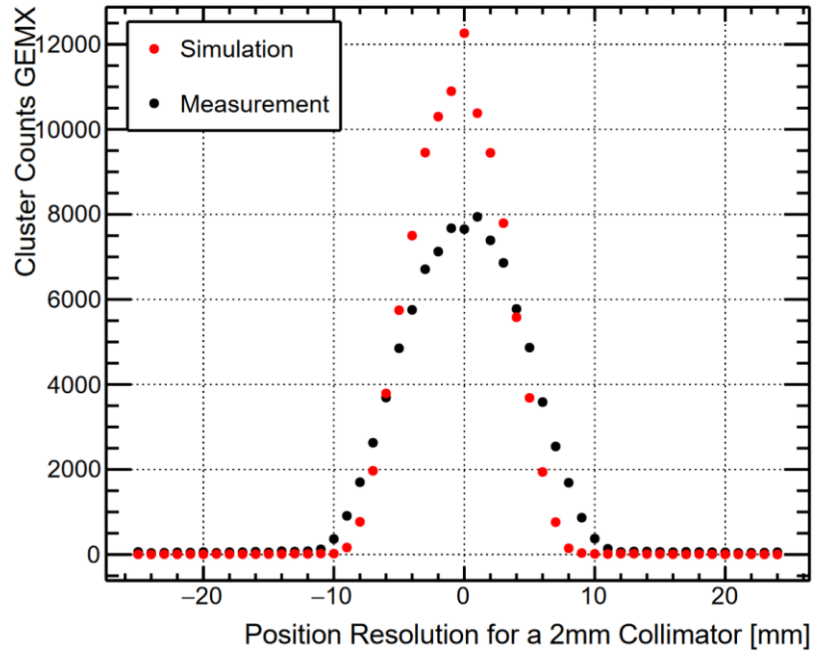


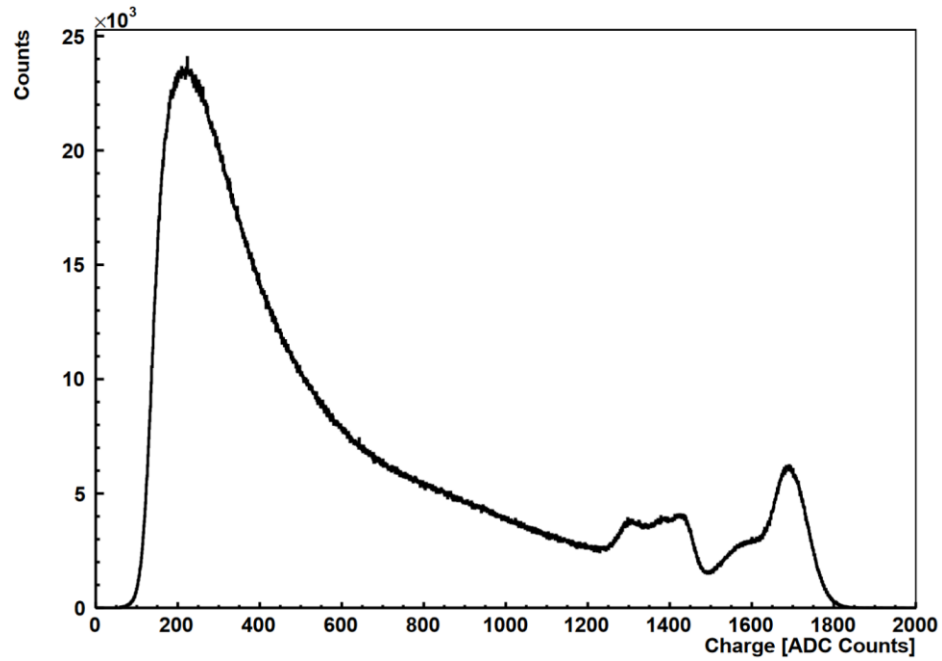
5mm Collimator



Comparison between Measurement and Simulation

- How should I scale the results?
 - Total number of events
 - Height of peak
- How can I compare the results?
 - Gaus is not possible
 - Threshold?

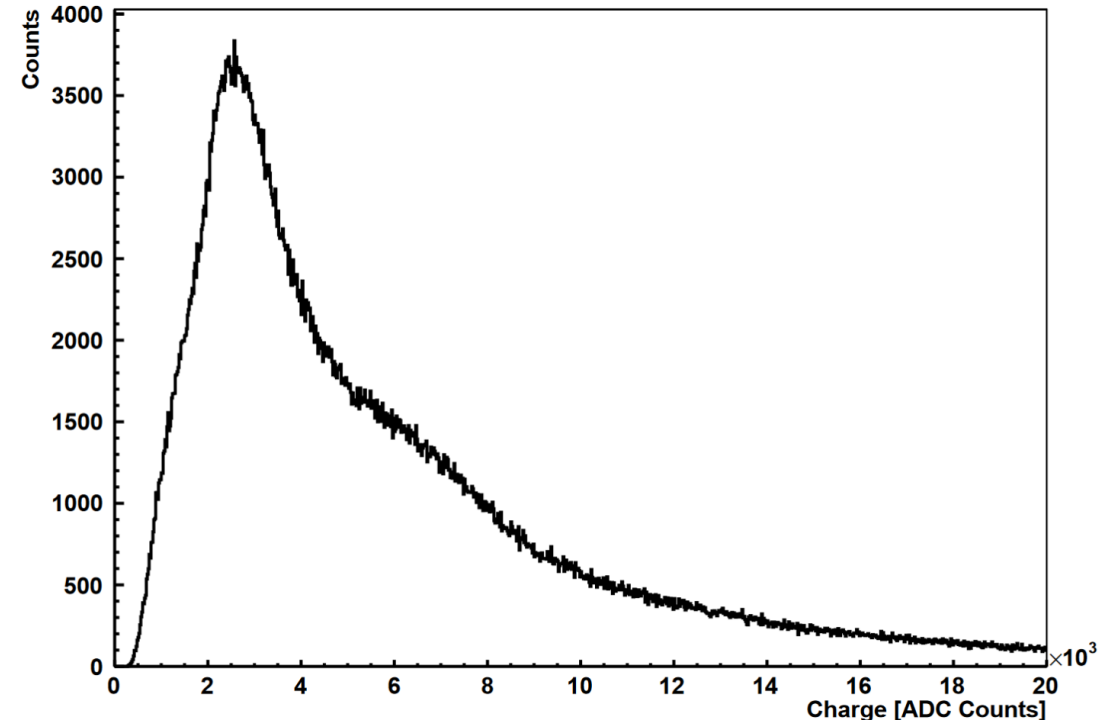




Strip Charge GEMX

- Analysis of APV sections did not get rid of the bump at 6000 ADC Counts
- GEMX and GEMY look similar

Myon Measurement



Cluster Charge Lead GEMX