




NEWS




In July we have to present Preventivi to INFN. So, I'd ask every RL to collect information about FTE (some new entry?) and financial requests to make an homogeneous plan.

We are in mid 2020, please check the local financial situations: make a plan for the rest of 2020 in order not to have leftovers. In case of new needs, ask.


In last 2 days we had meeting with abroad colleagues (Dinesh Loomba USA, Sheffield Univ. UK, UFJF Brazil). They agreed to work with us in CYGNO project.

Next week there will be RD51 Coll Meeting.

How CYGNO can make use of electro-luminescence induced by non-ionizing electrons   

 23 Jun 2020, 11:00 WG1 - Technological Asp...
 20m
 remote-only by Vidyo

Speaker

 Giorgio DHO

CYGNO: general results on detector performance and long term...

Indico Contribution
Authors: Pinci Davide
Start Date: Wednesday, June 24, 2020 9:30:00 AM
Event: RD51 Collaboration Meeting
[Event Details](#)

indico.cern.ch/event/911950/contributions/3879503/

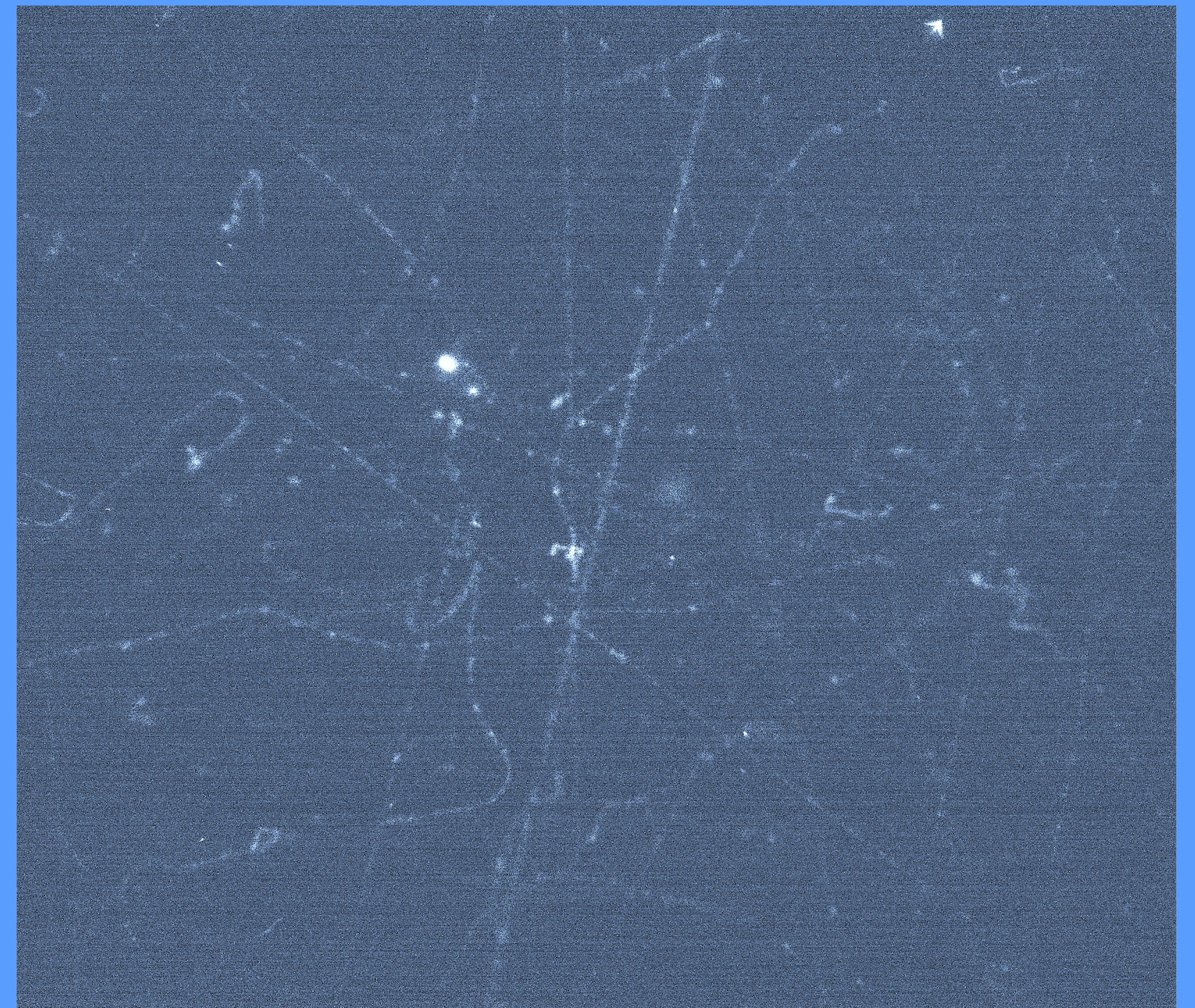
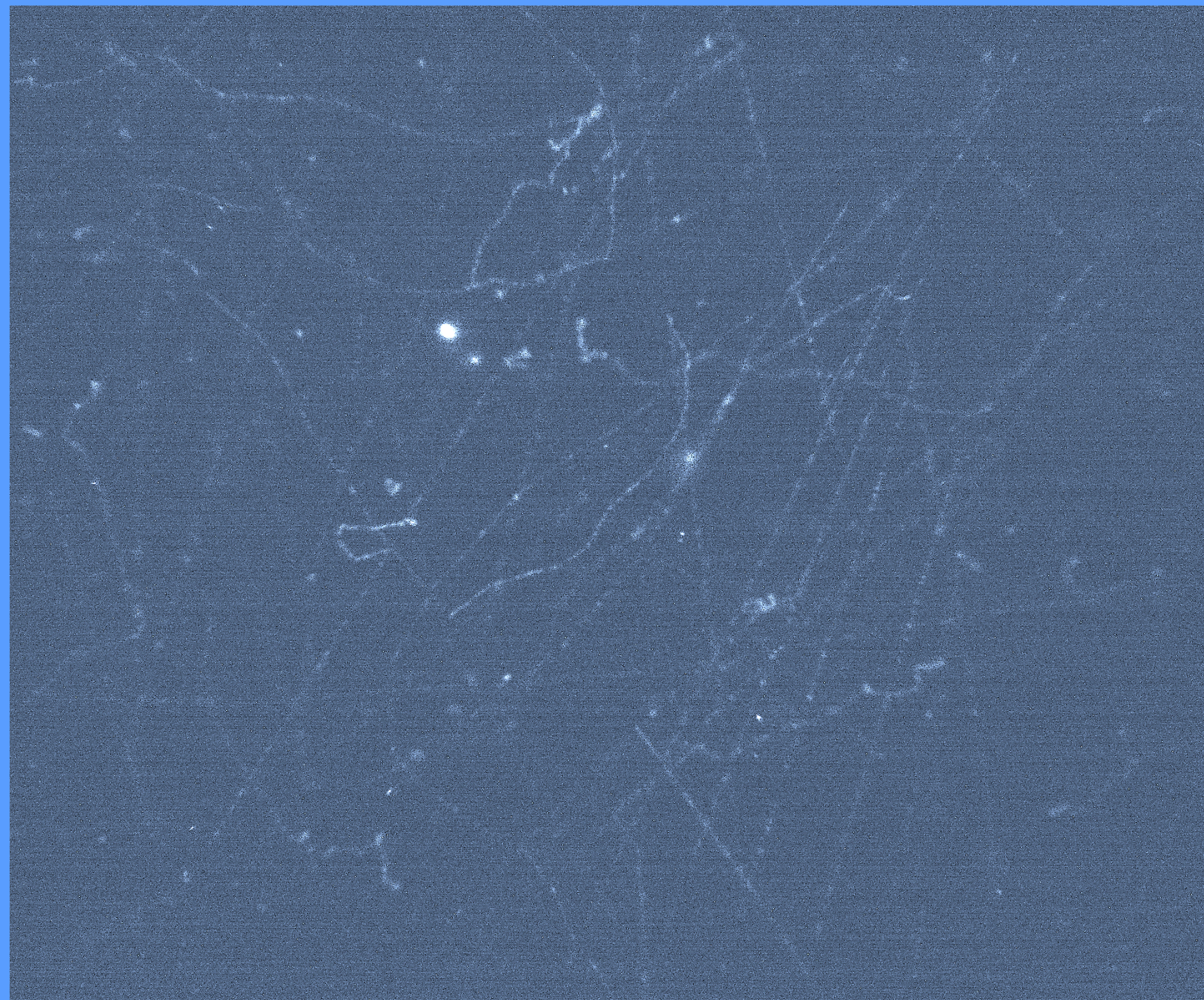
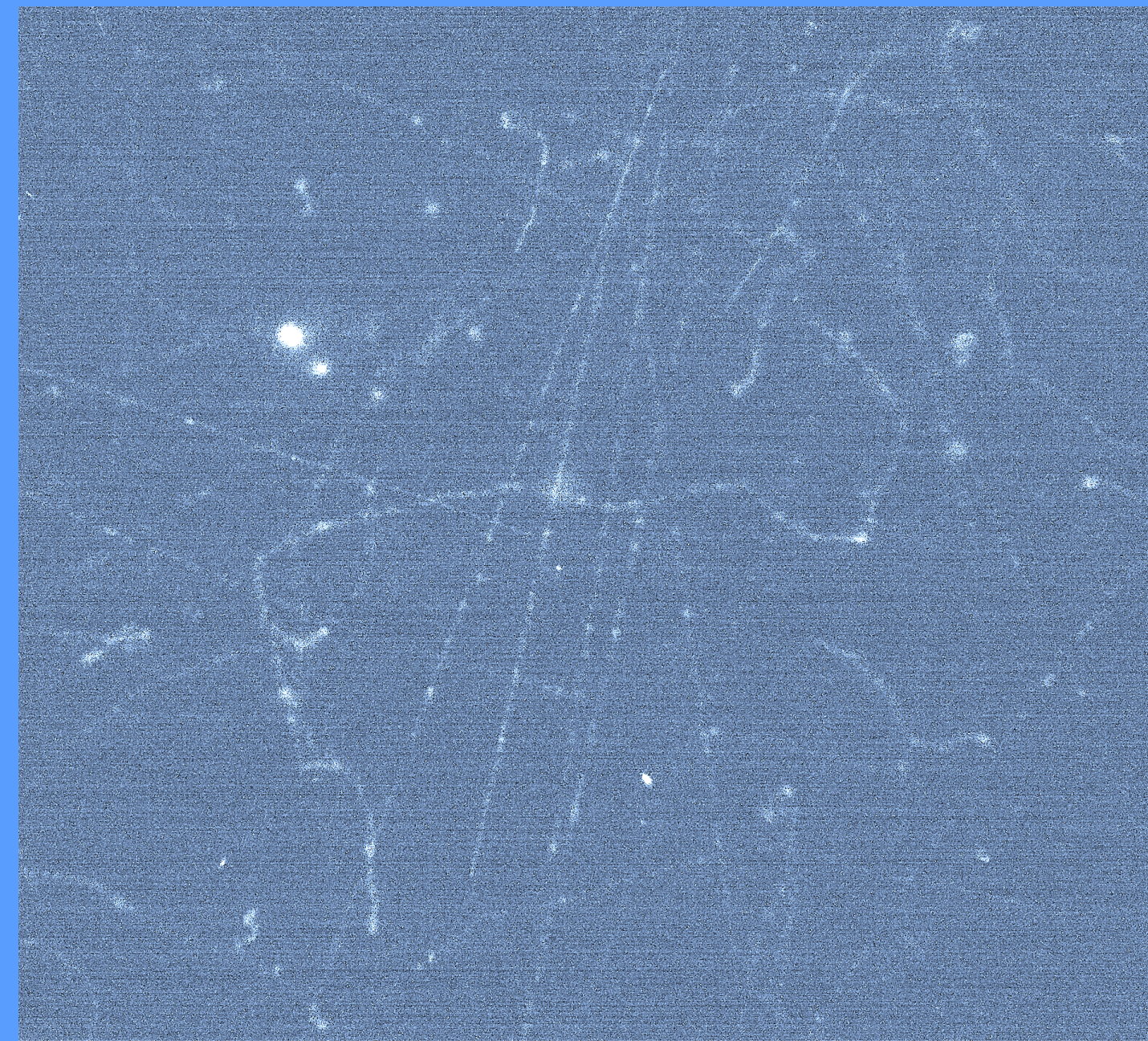
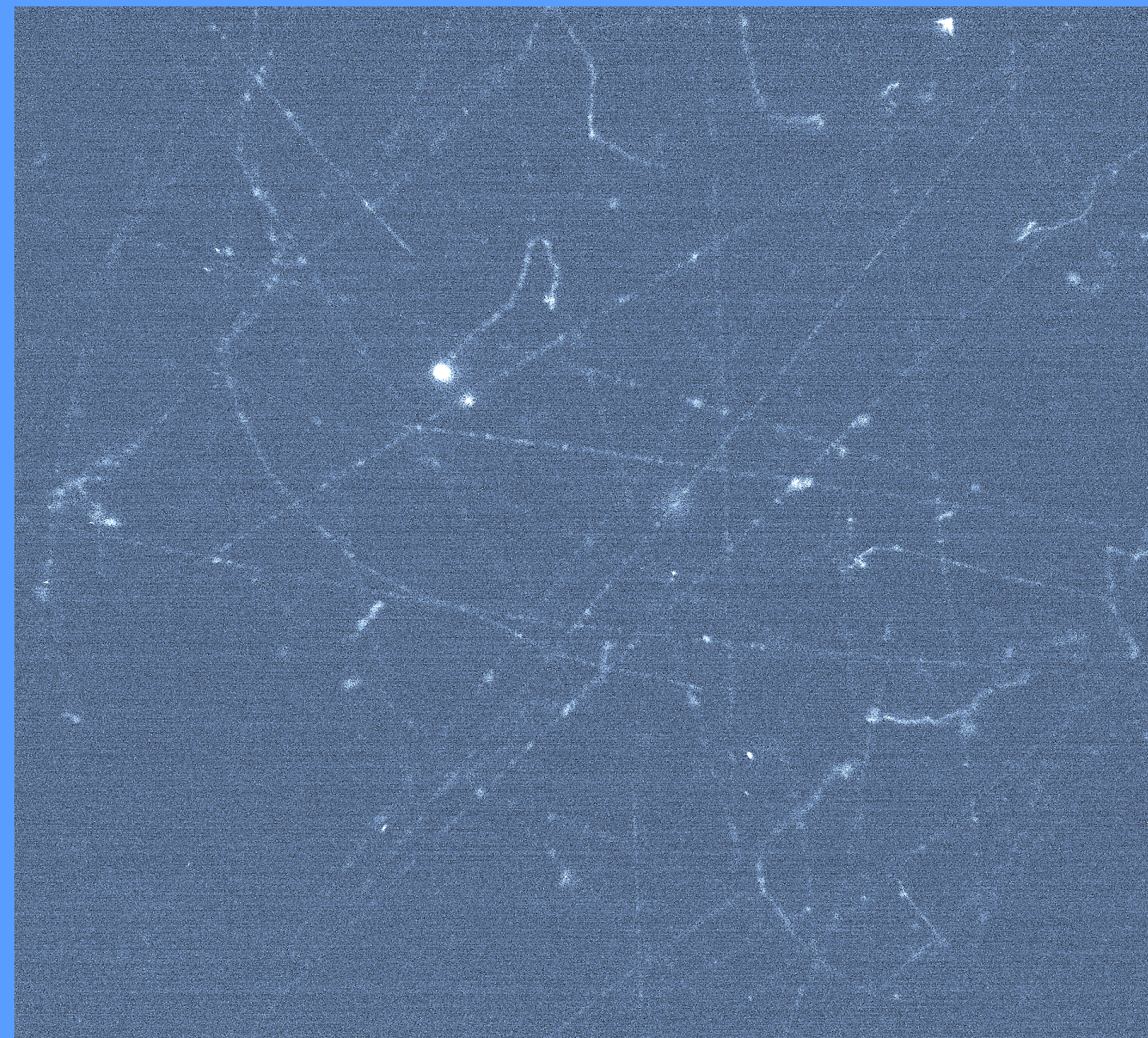
CYGNO: study about GEM gain saturation and method to correct...

Indico Contribution
Authors: Pinci Davide
Start Date: Wednesday, June 24, 2020 9:10:00 AM
Event: RD51 Collaboration Meeting
[Event Details](#)

indico.cern.ch/event/911950/contributions/3879502/

LIME

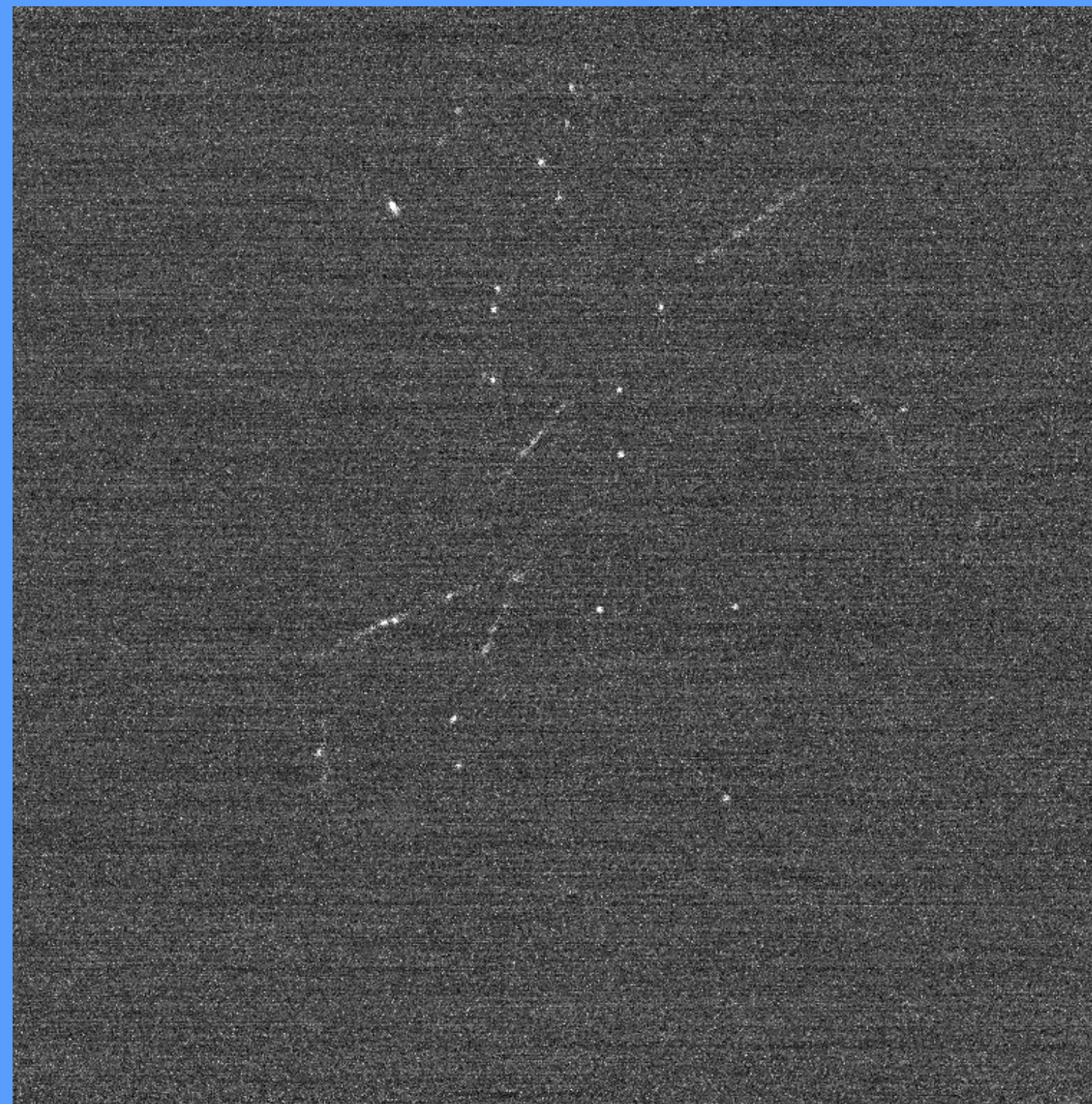
- 50 cm drift path
- 1000 cm² sensitive area
- 50 litre sensitive volume



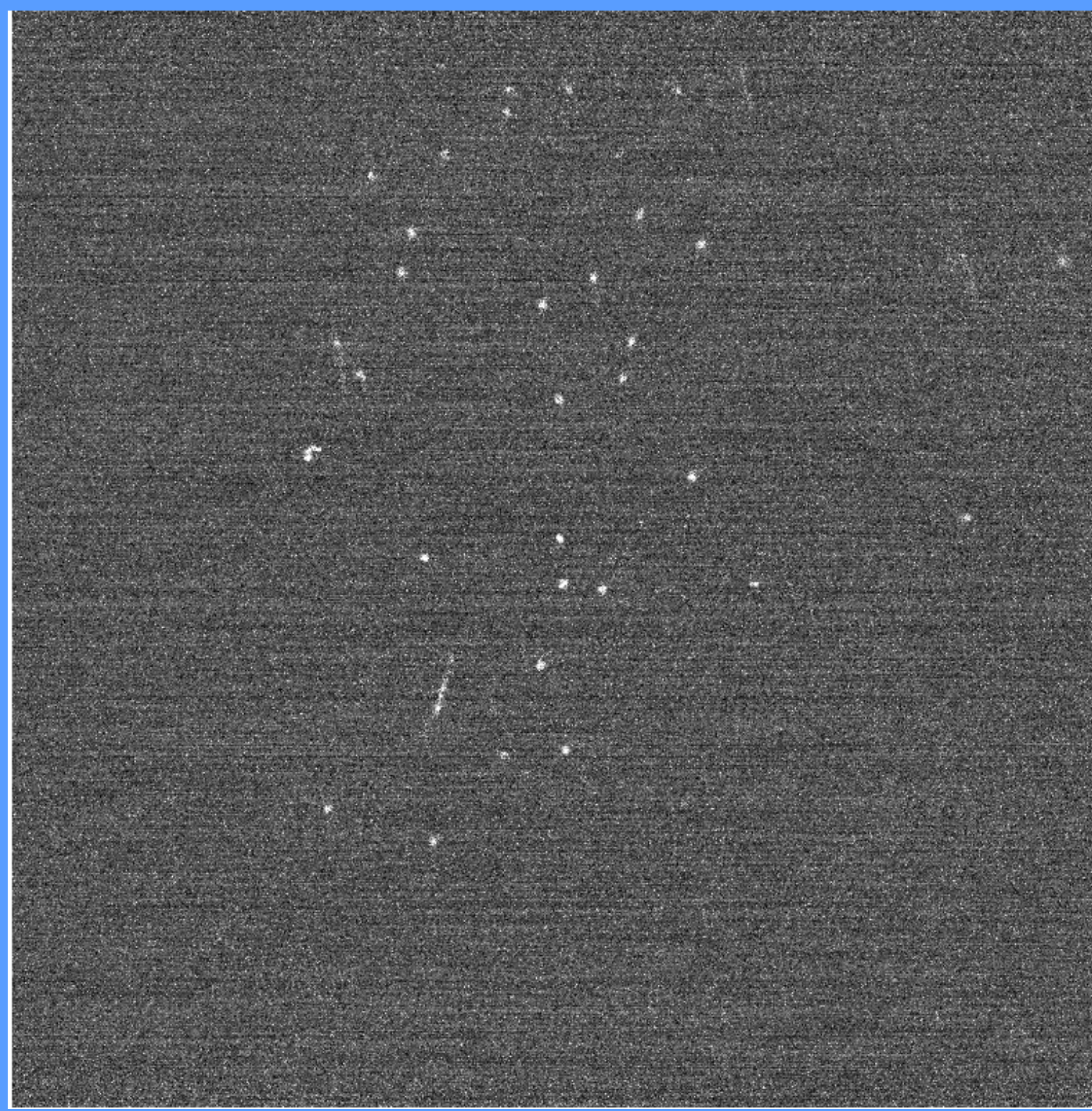
33 cm

LIME - ⁵⁵FE SPOTS - ZOOM

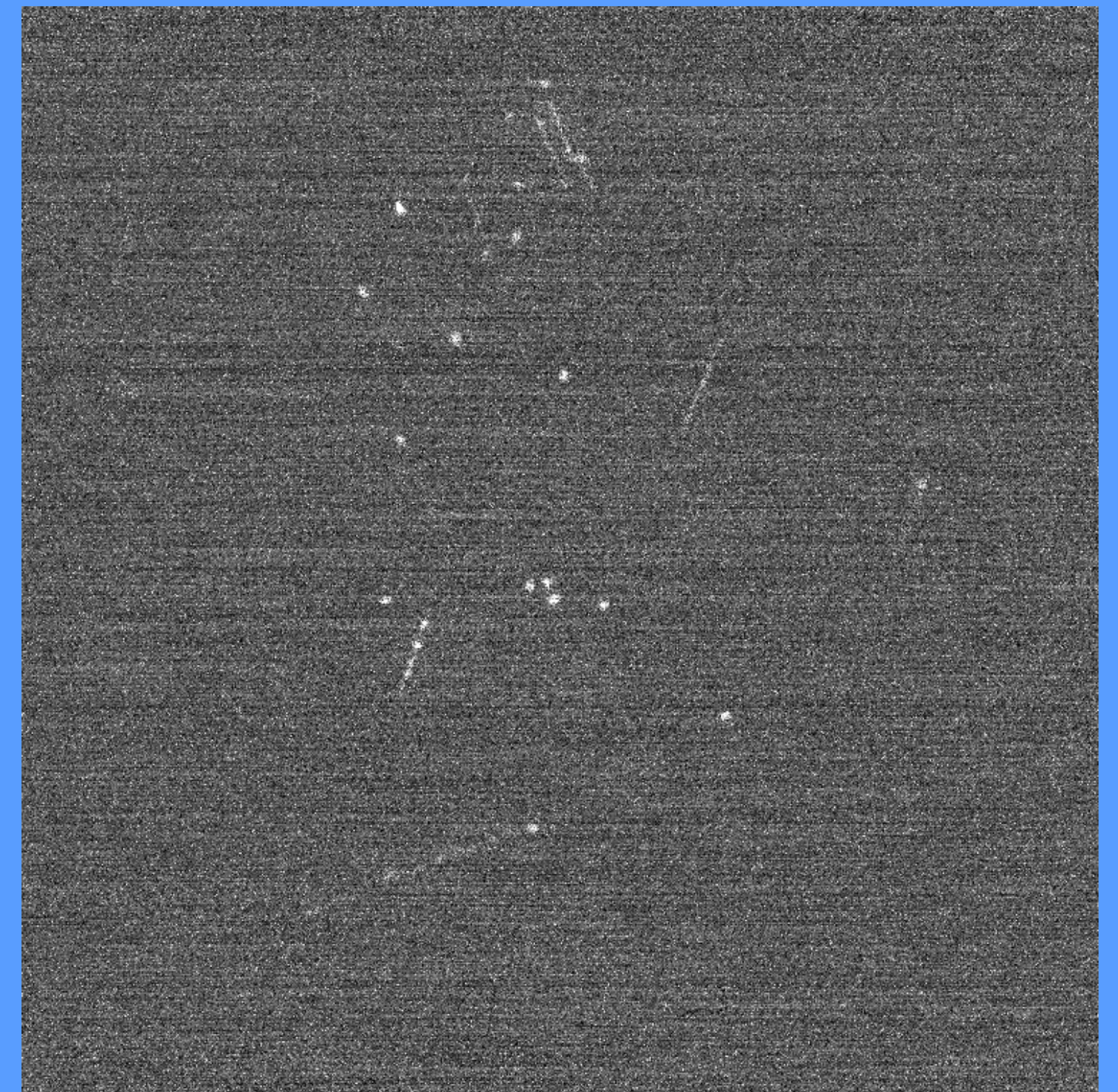
- 5 cm from GEMs



- 20 cm from GEMs



- 45 cm from GEMs

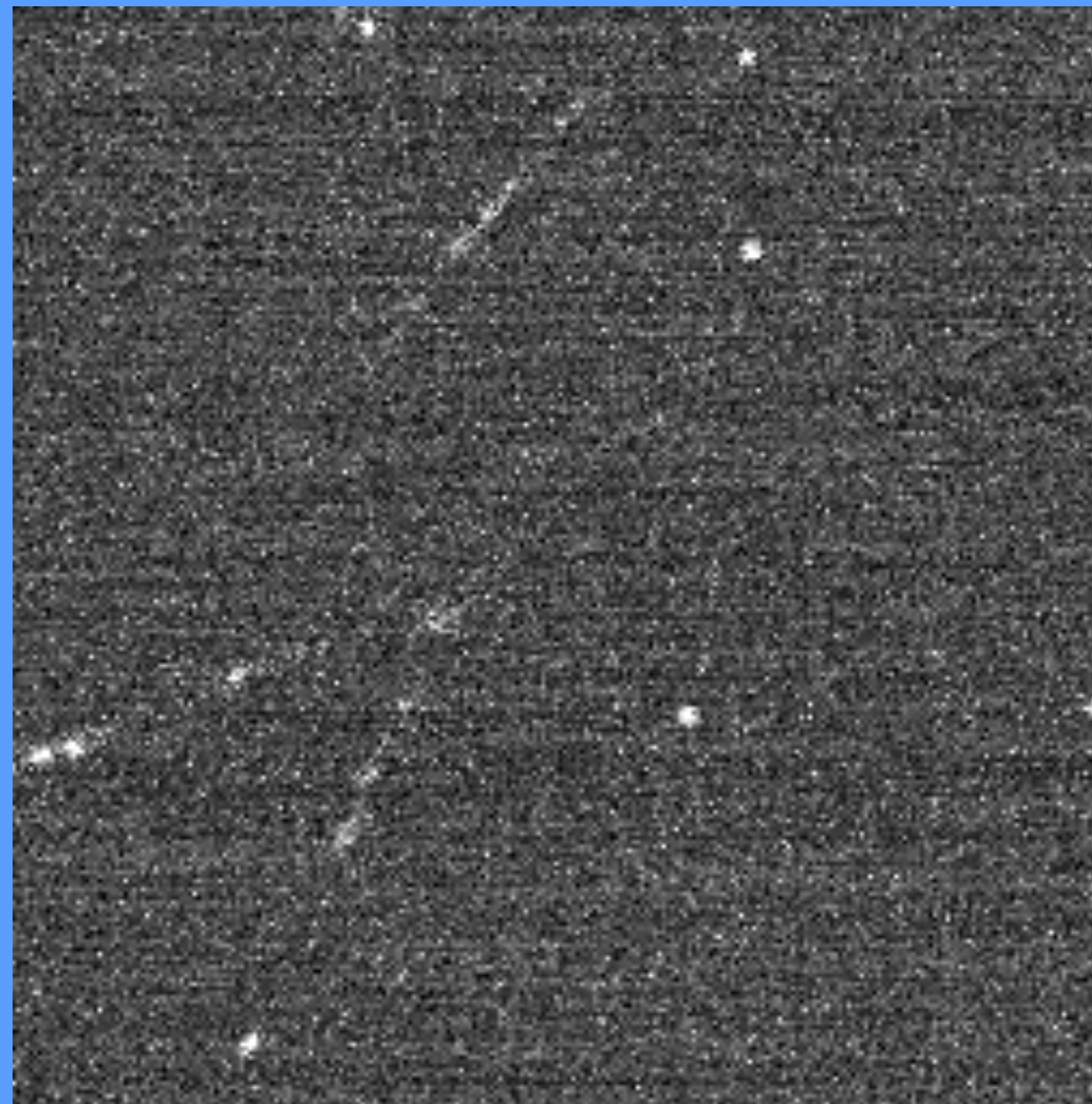


$V_{\text{GEM}} = 440$, $E_{\text{D}} = 0.8$ kV/cm

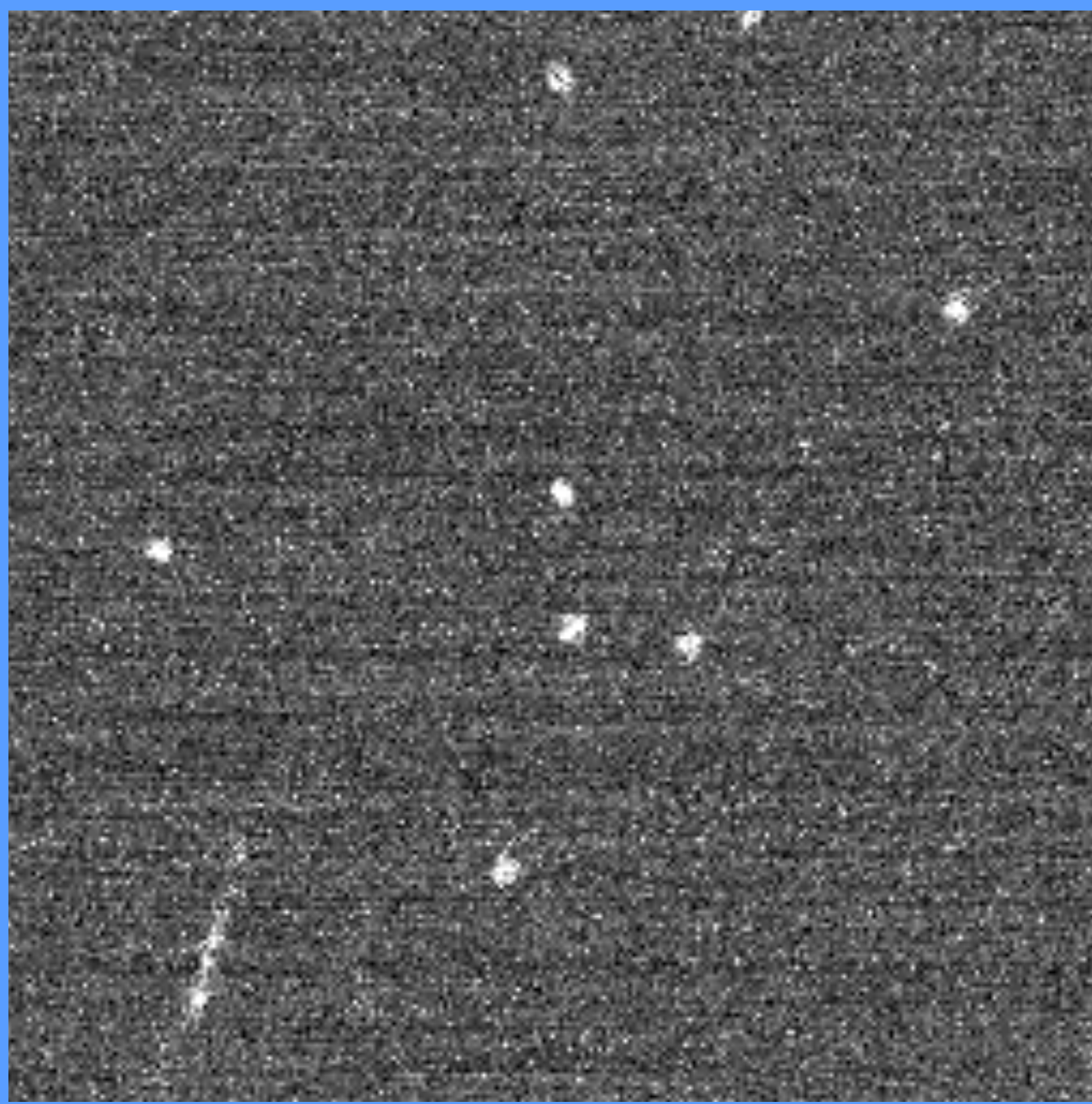
No evidence of efficiency loss (Pinci Method)

LIME - ^{55}Fe SPOTS - ZOOM

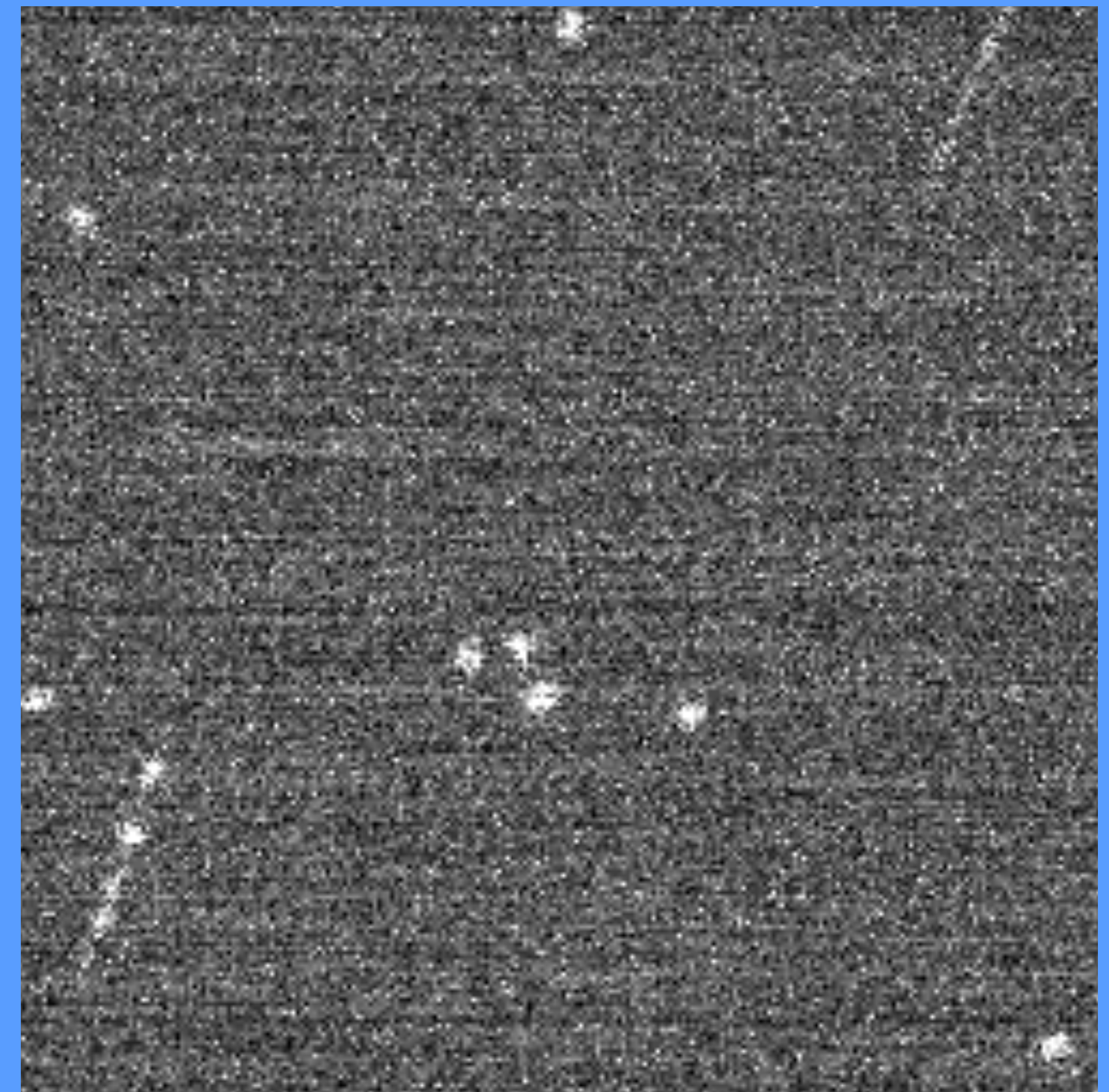
- 5 cm from GEMs



- 20 cm from GEMs



- 45 cm from GEMs



$V_{\text{GEM}} = 440$, $E_{\text{D}} = 0.8$ kV/cm

Diffusion effect visible

LIME - ⁵⁵FE SPOTS - ZOOM

- 45 cm from GEMs

$$V_{\text{GEM}} = 440, E_{\text{D}} = 0.8 \text{ kV/cm}$$

Spot size around 2.5-3.0 mm

Plans:

- We took also few cosmic runs (3000 events)
- More detailed analysis will start;
- As soon as LIME-trolley will be ready, we move it in lab to test with ¹³⁷Cs and AmBe source;

