

**News**

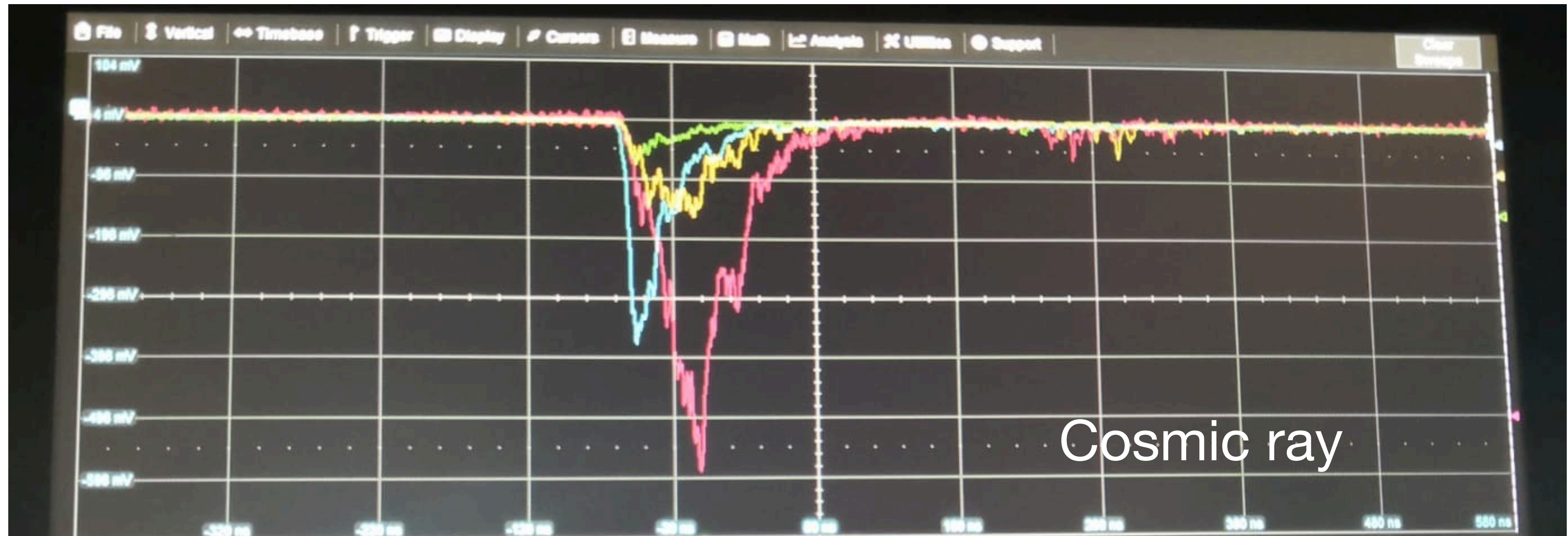
# INFN - funding requests for 2022

- Trying to make plans for 2022;
- Already discussed with some Local Coordinator;
- A first proposal will be circulated soon;
- Please place all orders funded for 2021;
- If you have any other need, additional funds can be requested these days.

# LIME is back

After a long refurbishment, LIME is under flux since last week;

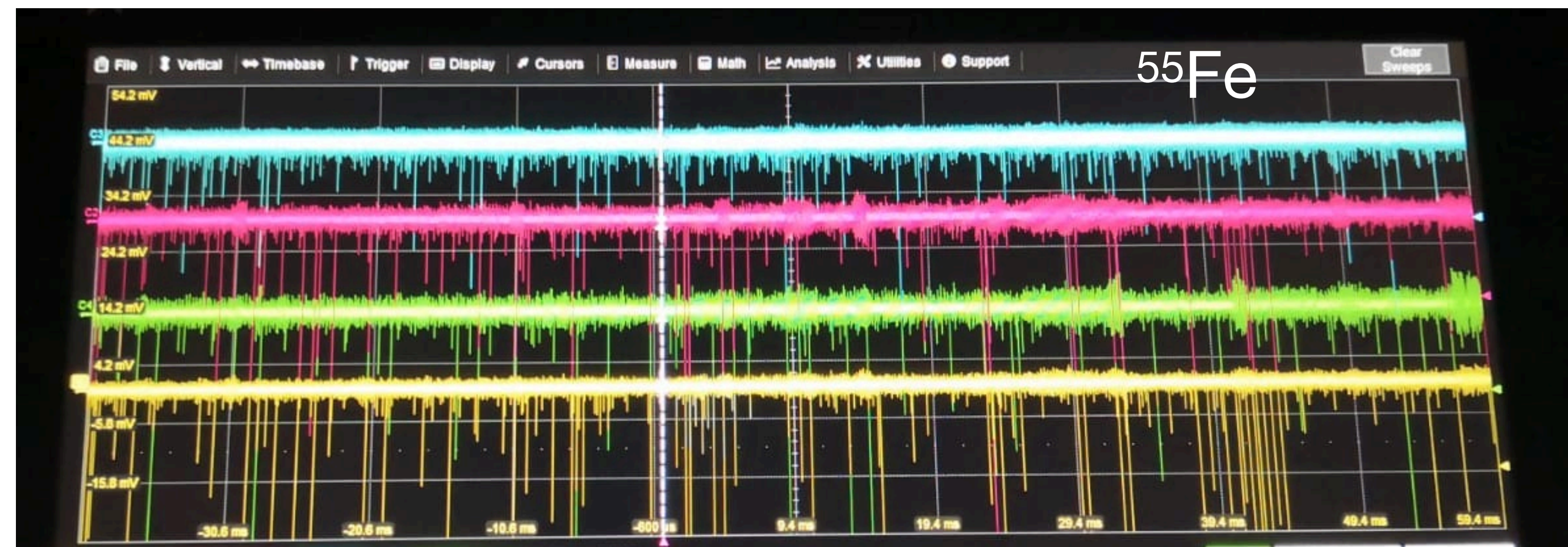
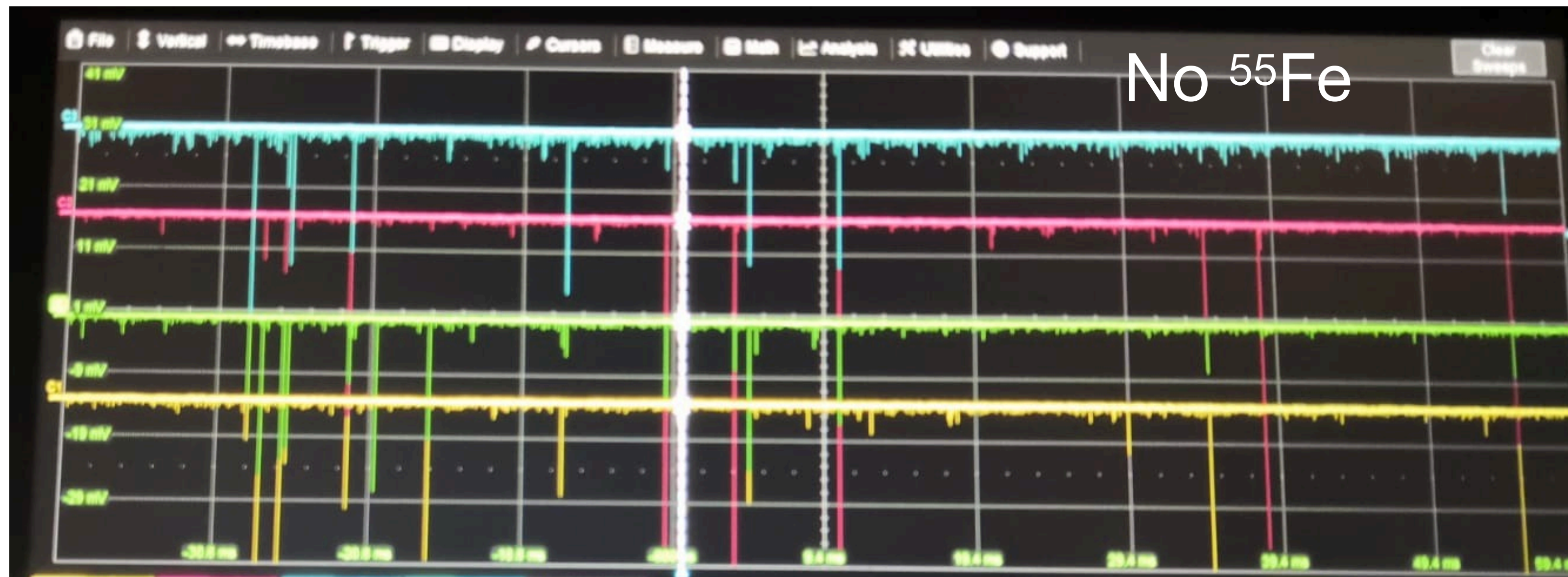
Yesterday we installed 4 PMTs



Electric signals from GEM were checked too. They seems ok.



# LIME is back



DAQ system is ready to acquire CMOS and waveforms;

Chiara and Donatella are going to acquire and analyse waveforms and pictures



# CYGNO simulations update

Giulia D'Imperio, Davide Pinci, Fabrizio Petrucci

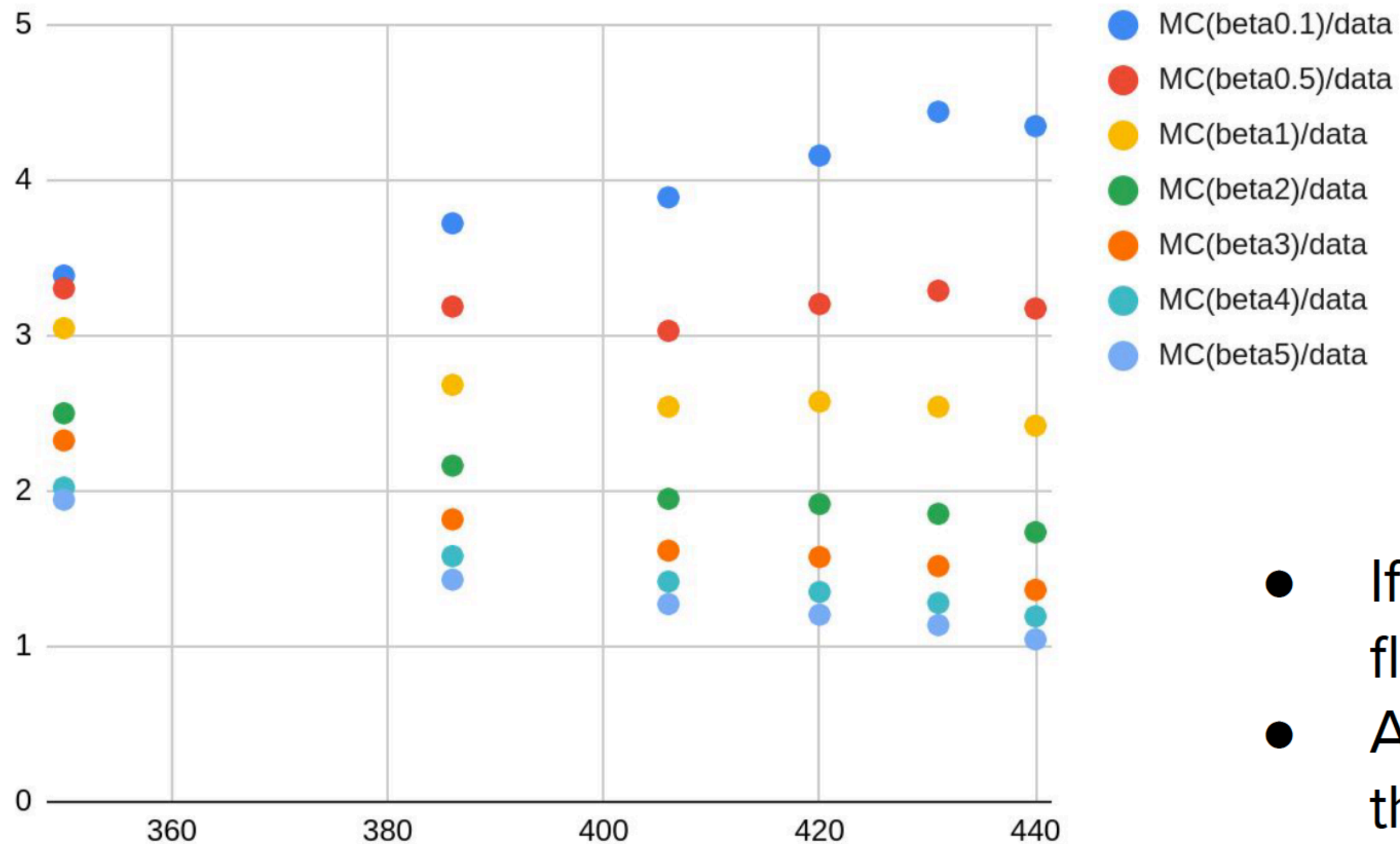
Special guest Donatella Tozzi

14/06/21

CYGNO simulation meeting

# Comparison with $^{55}\text{Fe}$ data and GEM1 HV scan

Distance from the GEM is 20 cm

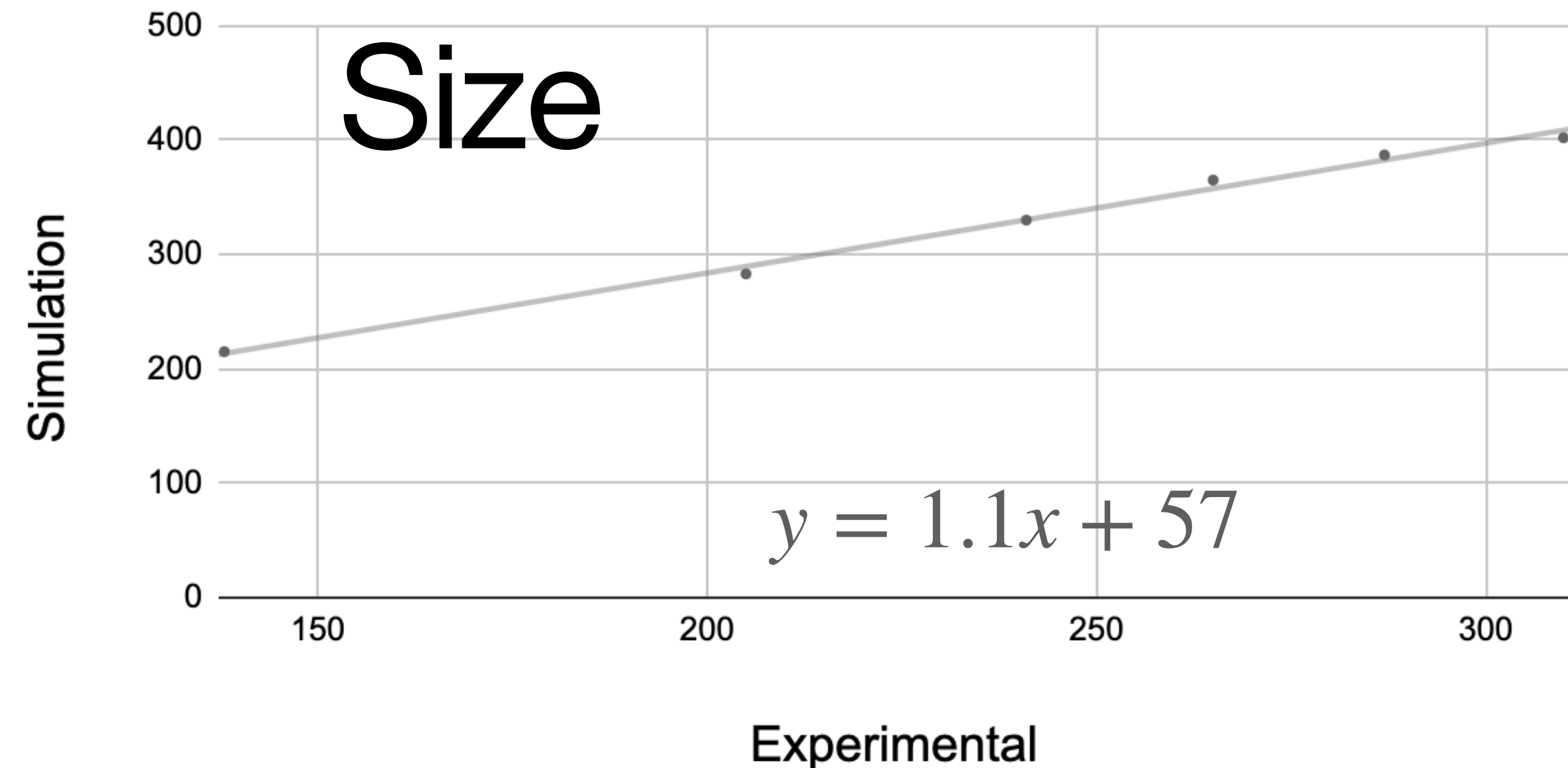
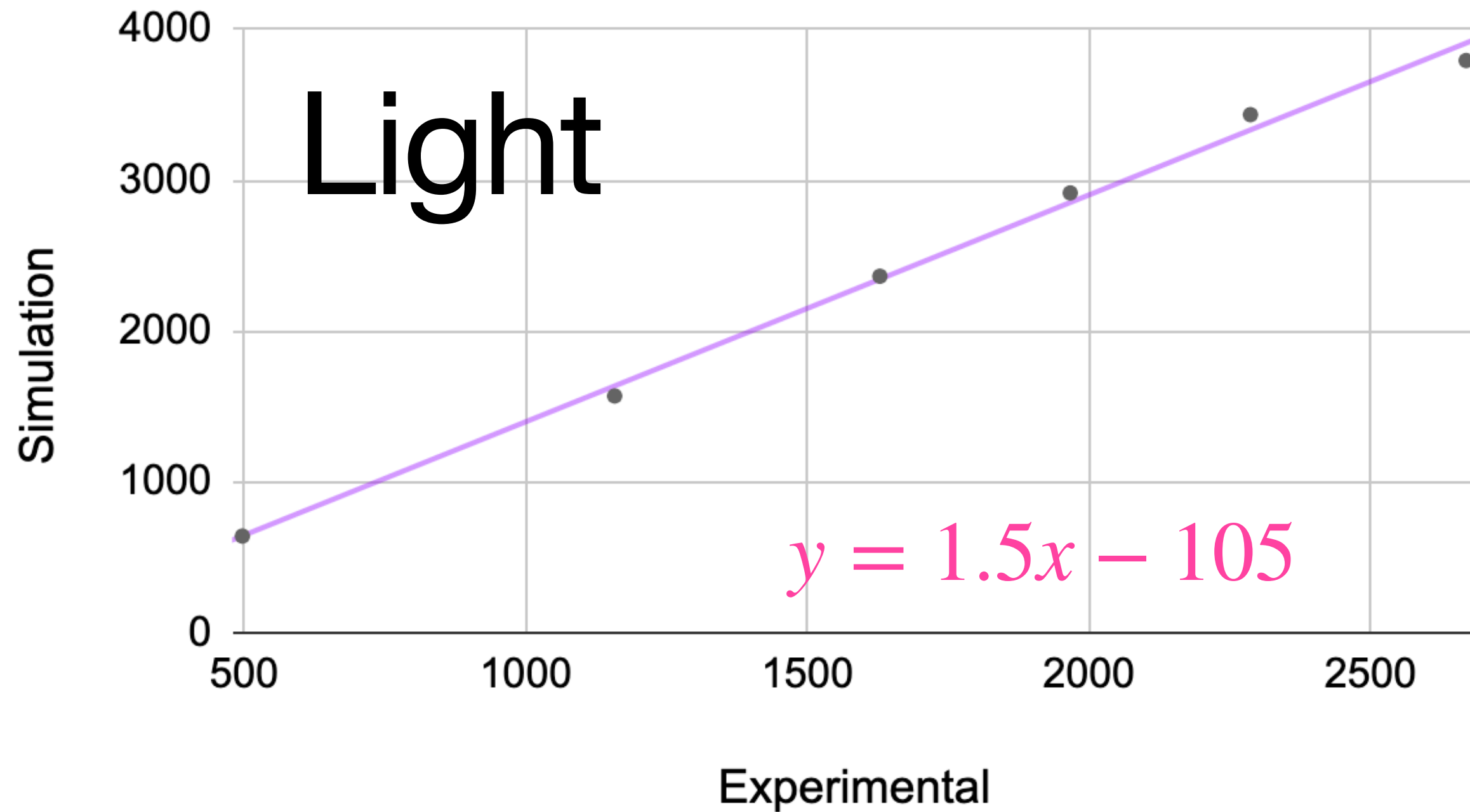


HV GEM1	counts MC beta=0.5e-5	counts data	MC(beta0.5)/ data
350	1910.41	578	3.305207612
386	3694.86	1159	3.18797239
406	4924.03	1624	3.032038177
420	6280.64	1960	3.204408163
431	7501.65	2280	3.290197368
440	8450.54	2661	3.175700864

- If the saturation model is correct we expect flat ratio between MC and data
- A is a free parameter, should be changed so that the ratio is 1
- The best value for beta seems beta = 0.5e-5

# Comparison MC-Data

To compare  $V_{\text{GEM1}}$  scan, the same analysis was performed on simulated and measured  $^{55}\text{Fe}$  spots



In both cases a good correlation was found, even if the slopes and offsets are not as expected