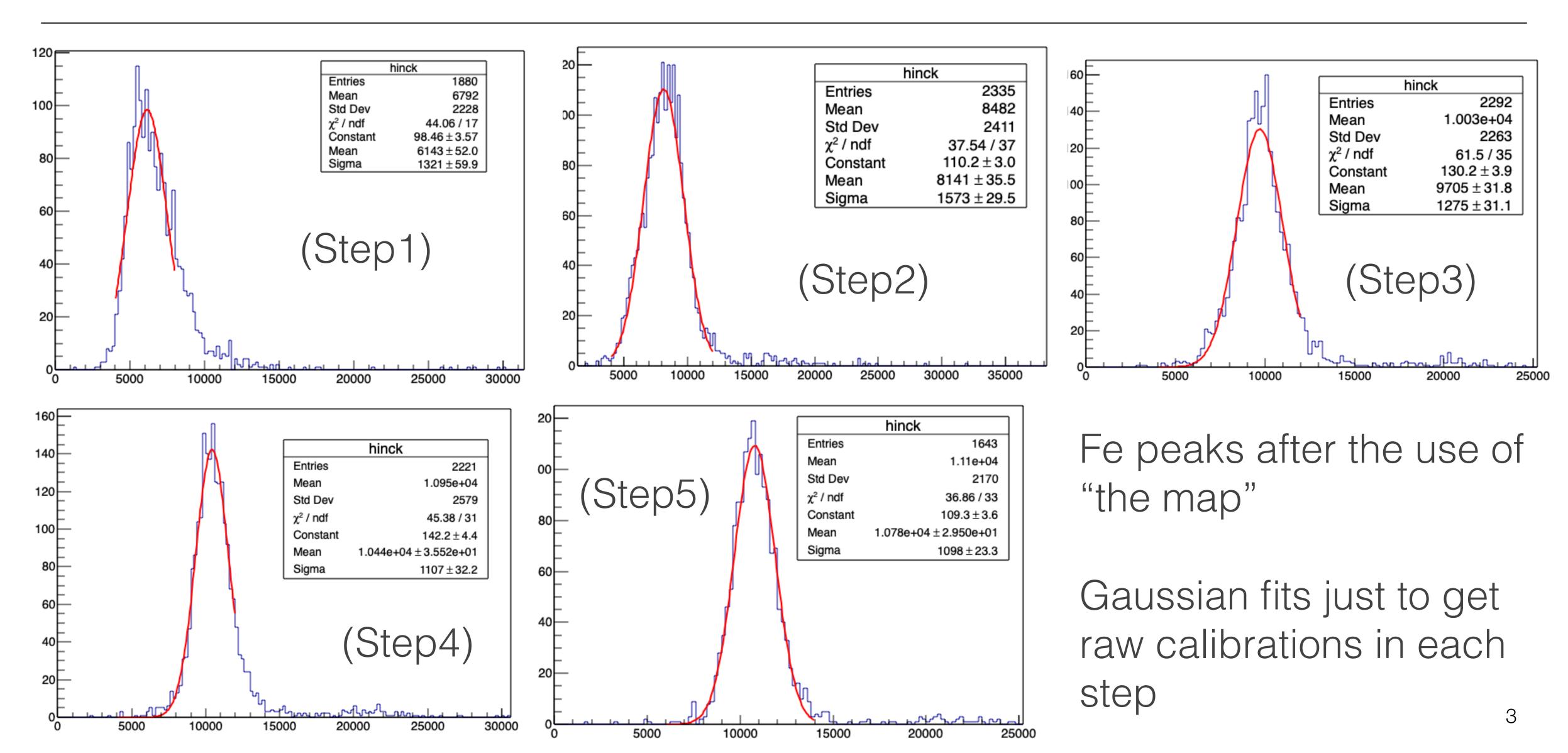


### Data set and daily scan

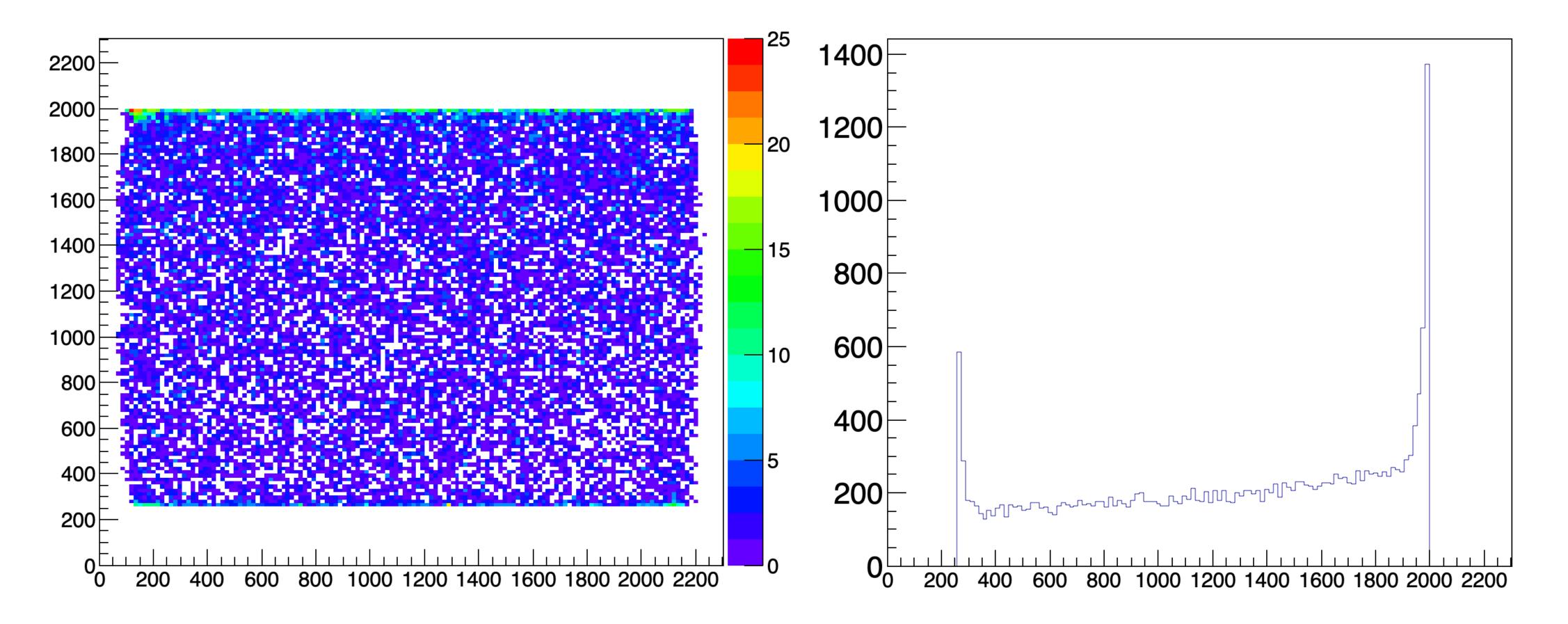
- We took data at 5 different distances of the source from the GEM: 5cm (Step1), 15 cm (Step2), 25 cm (Step3), 35 cm (Step4), 45 cm (Step5);
- In each position about 300 runs were collected for a total of 120k pictures each;
- Daily scan performed with <sup>55</sup>Fe source (5.9 keV) provides the responses in the 5 steps;
- Calibration constants are evaluated to be: 0.96, 0.72, 0.61, 0.56, 0.55 eV/cnts

## Daily scan

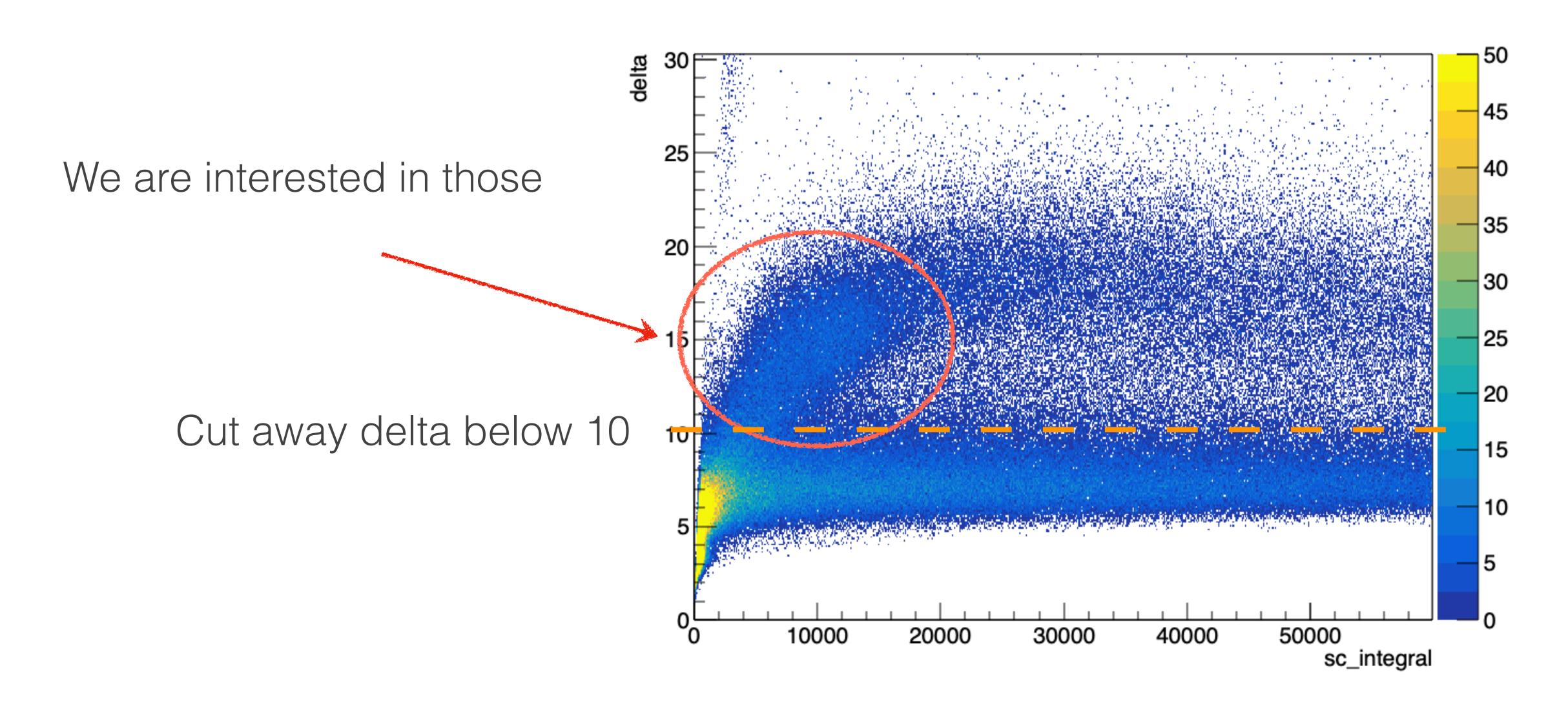


### Eu Map

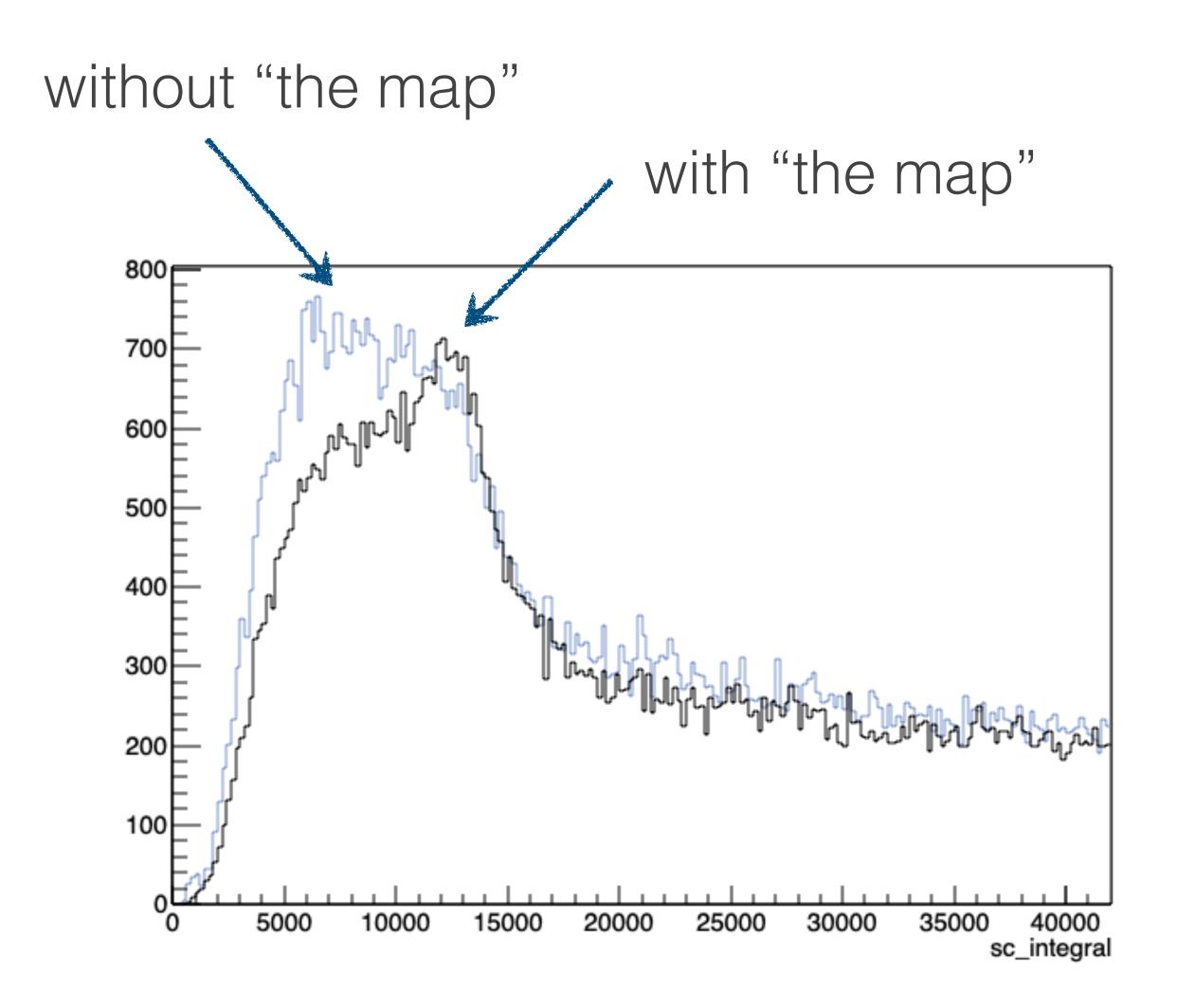
- Space distributions of events with corrected integral between 3k and 20k
- in all shown analyses, sc\_ymean below 300 and above 1850 are rejected



## Analysis



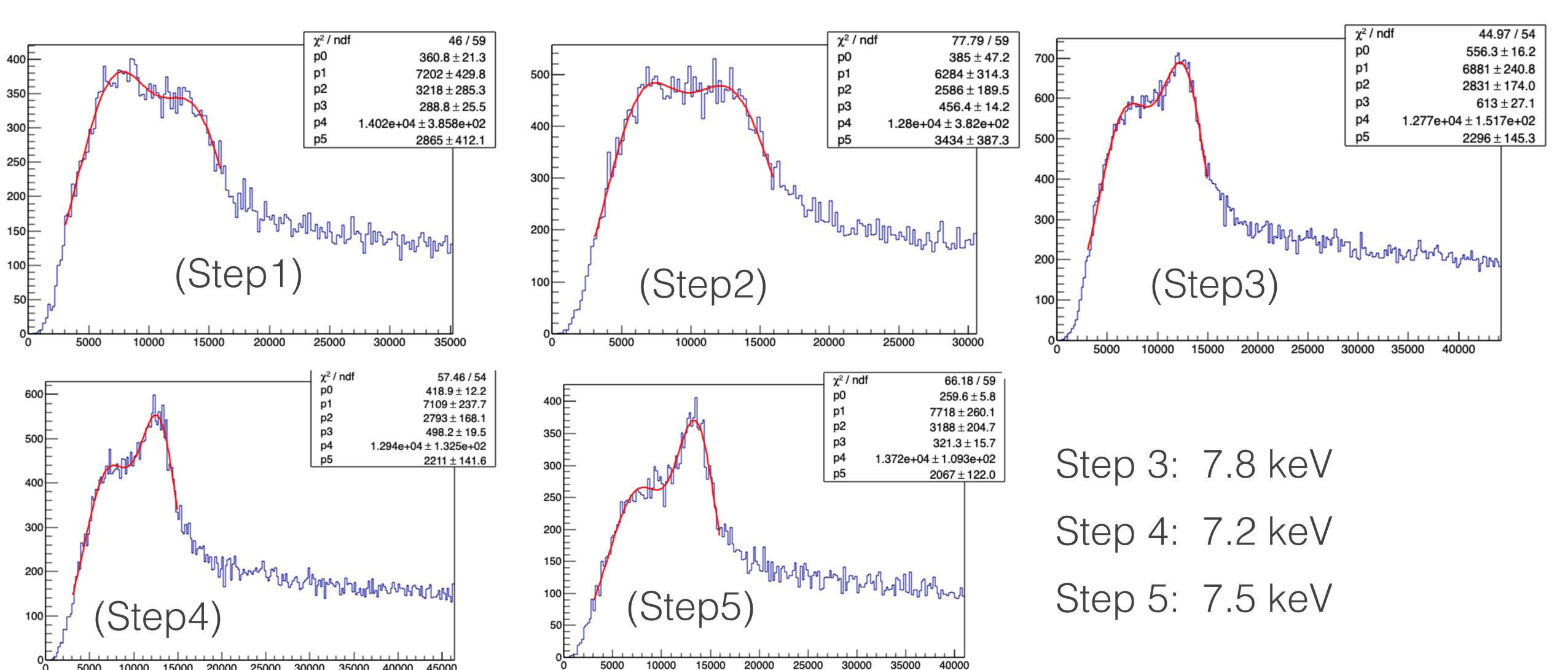
## Analysis



Need to use "the map";

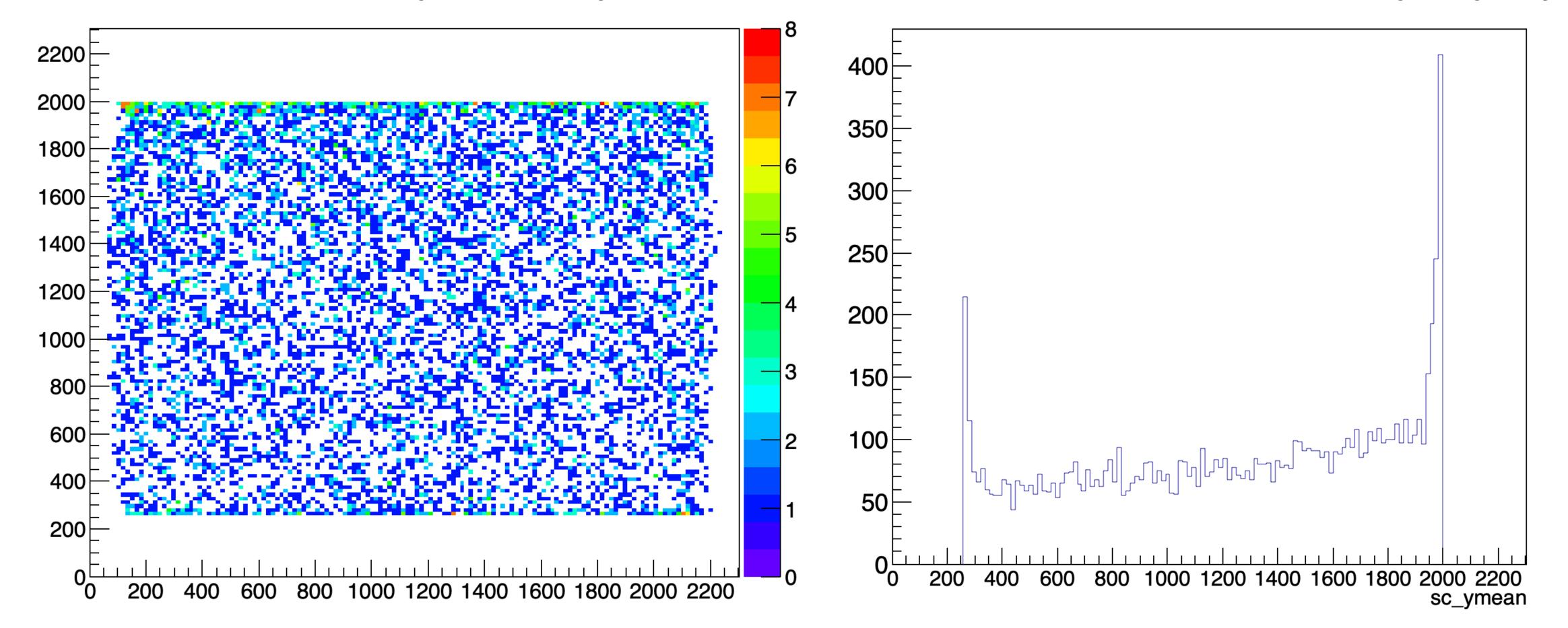
No peaks visible without "the map"

## Fits on Europium



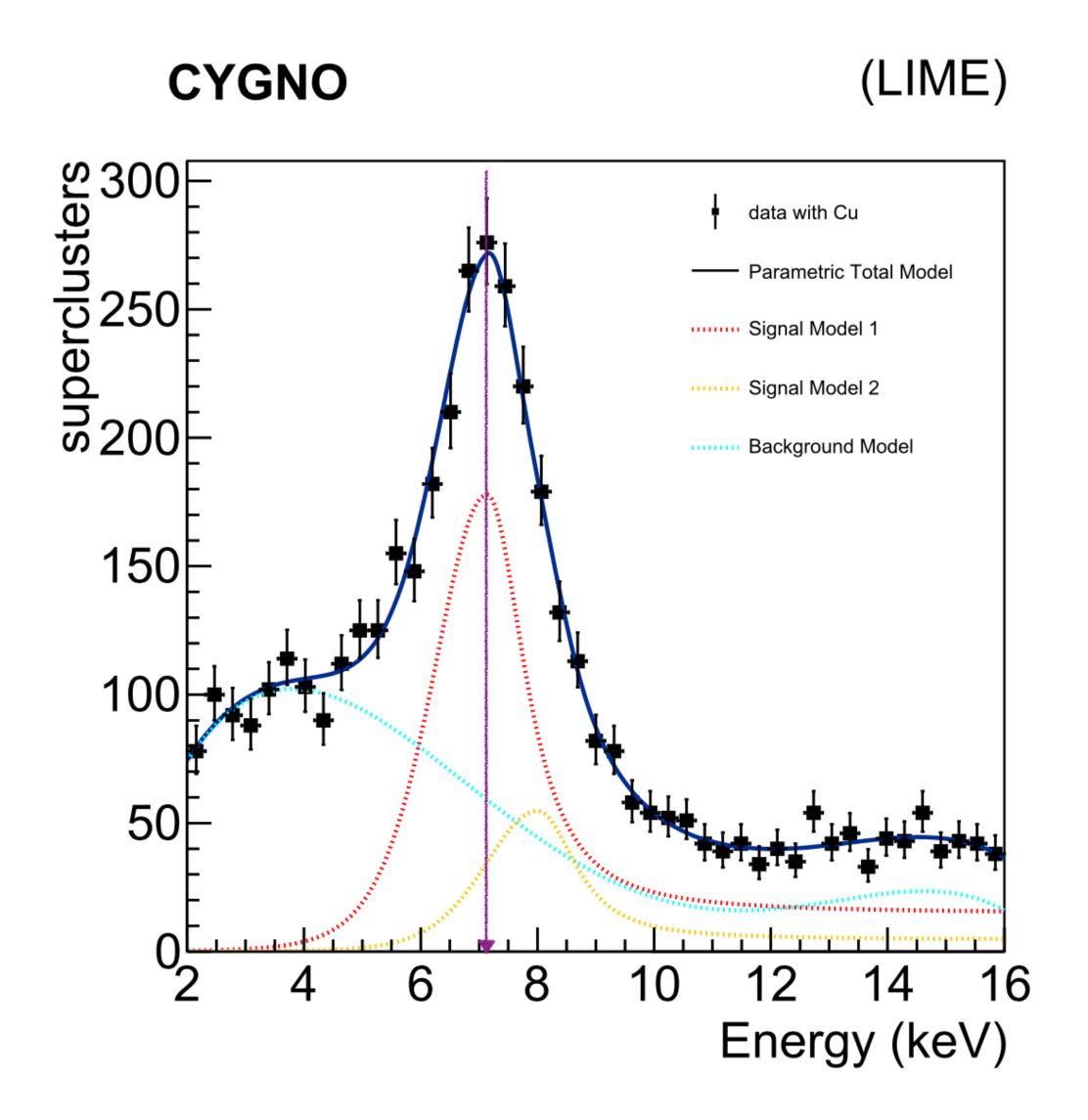
#### Maps

- Space distributions of events with corrected integral between 10k and 15k
- in all shown analyses, sc\_ymean below 300 and above 1850 are anyway rejected



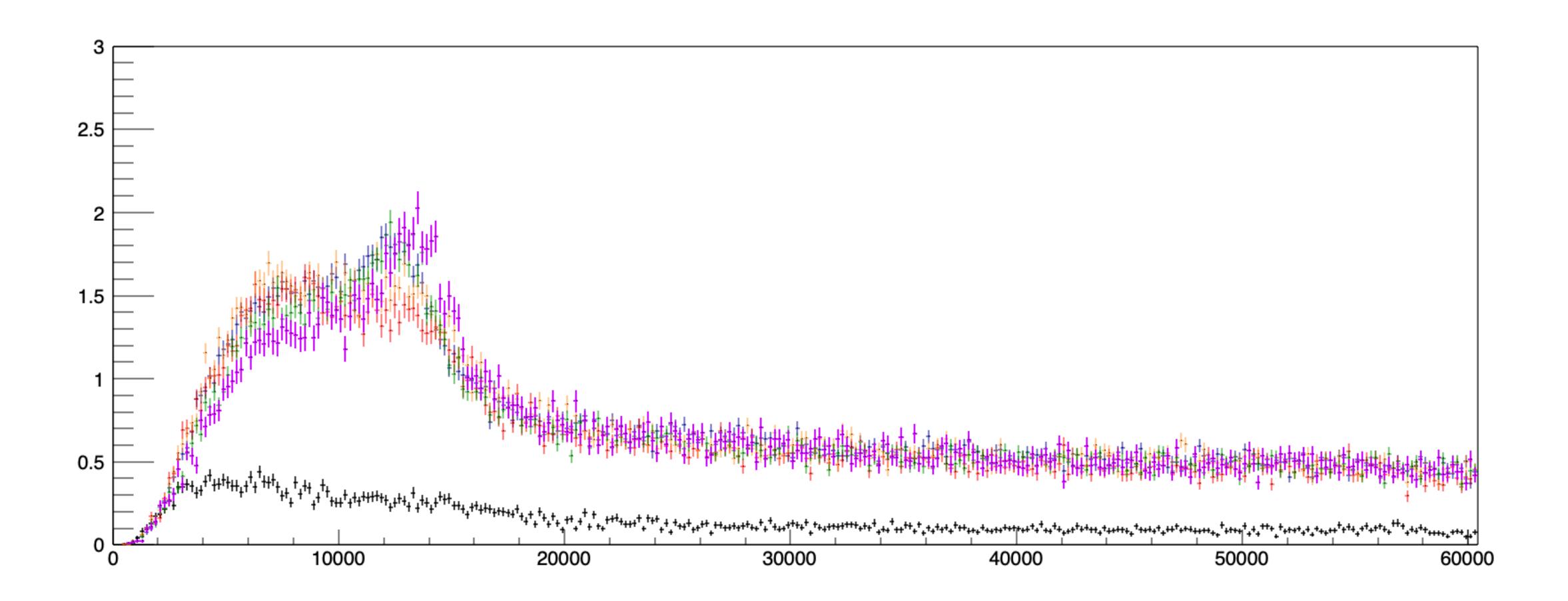
#### Conclusion

- For some reason, very likely the nonlinearity (aka "saturation") Copper peak is always below the expected energy;
- It was reconstructed around 7 keV also in LNF published data;
- This value seems compatible with the peak found in Eu data that can be due to the X-fluorescence induced on the copper rings;



# Spares

#### Fits



## Compton cross section

