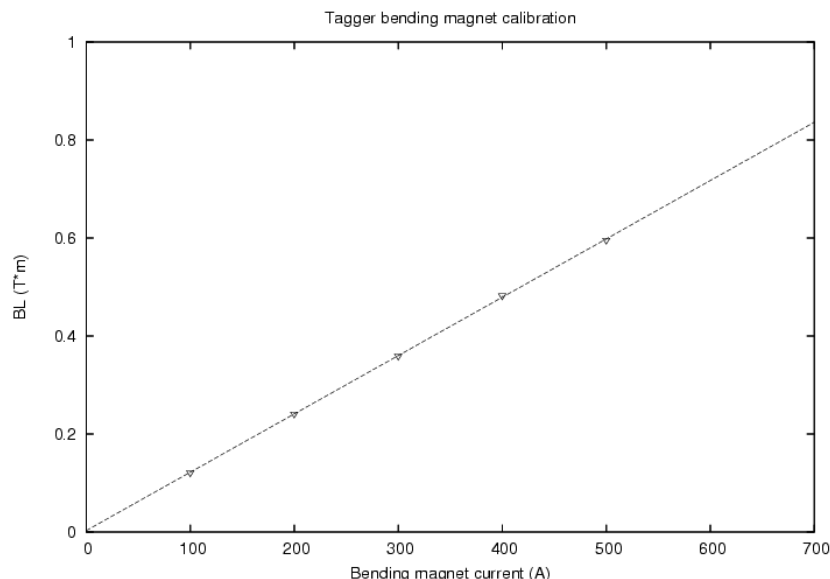


Tagger alignment and calibration

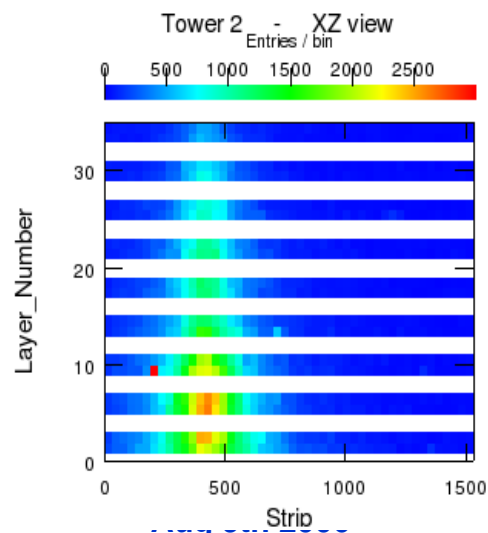


Magnet Bending power:

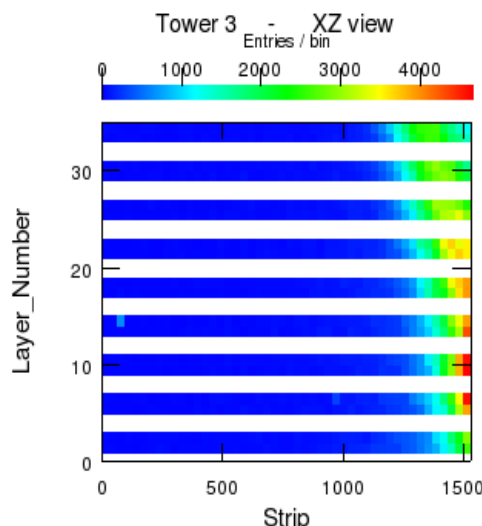
- Run 1159–1164
- Negative magnet current
- Using the CU to evaluate the beam deflection as function of the current.
- **Good linearity**
- **Simple relation:**

$$BL \text{ (Tm)} = 0.0012 * I \text{ (A)}$$

Photons on twr 2



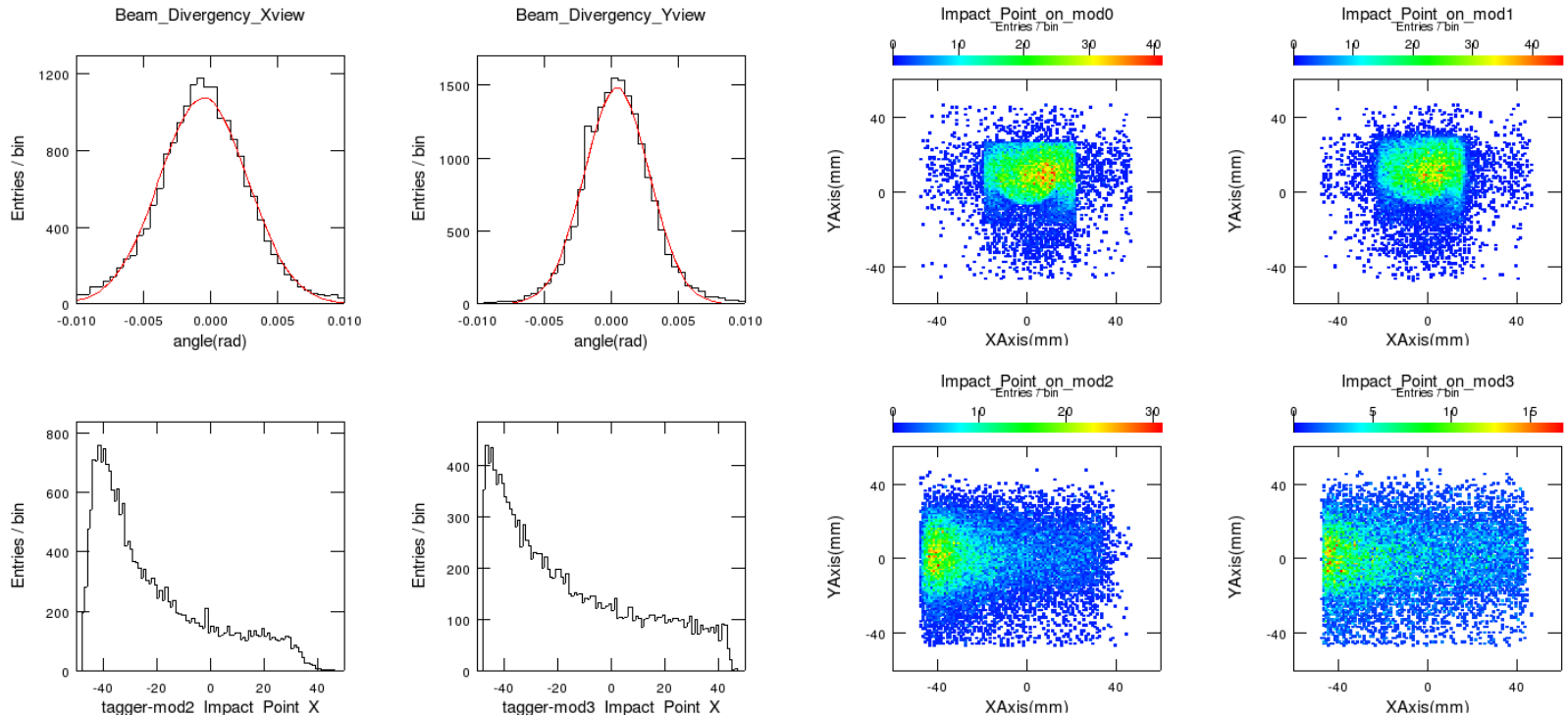
Electrons on twr 3



Tagger alignment:

- Run 1168 (1.5 GeV)
- No dump
- Magnet ON
- Electron beam hits simultaneously module 2&3 and CU
- **Alignment constant found (will be used for the offline too)**

Tagged photons – the electron beam



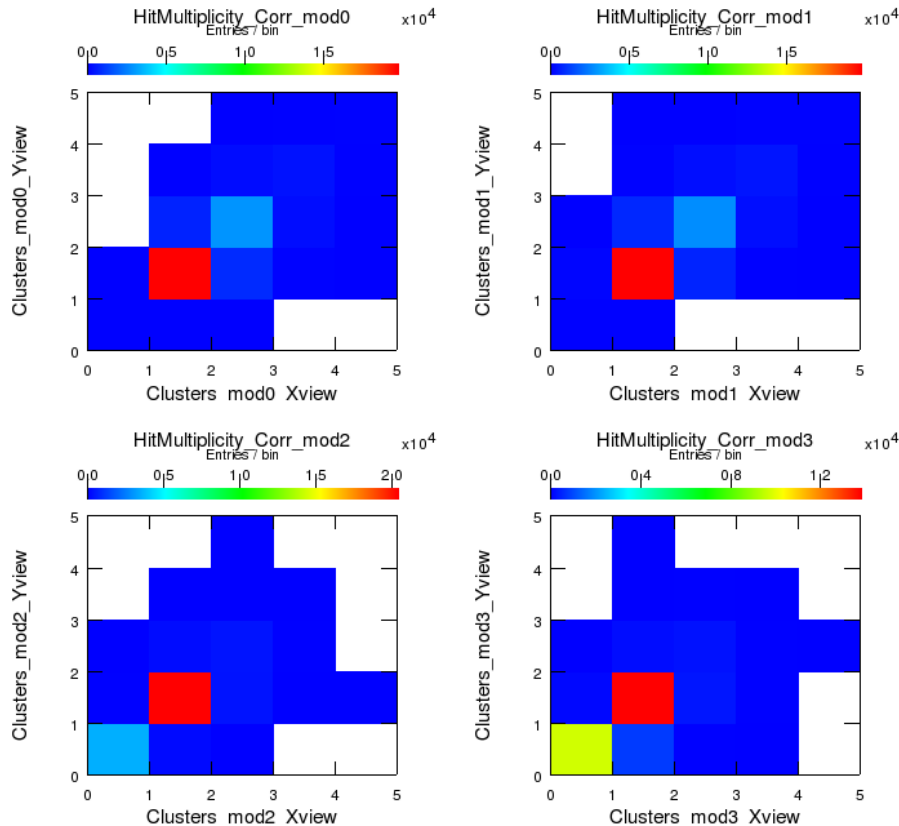
Physics run: 1179

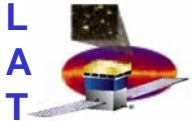
Tagger – improvements

For **online analysis** we consider only events with one cluster in all the 4 chambers (recon efficiency ~40%).

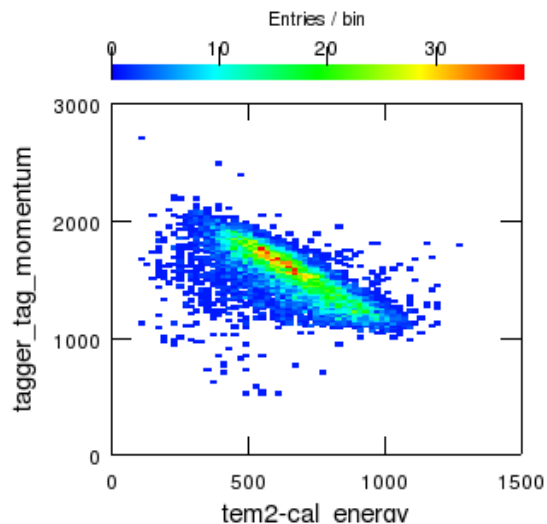
The **offline analysis** is required to improve:

- Clustering.
- Energy recon using best 3 points.

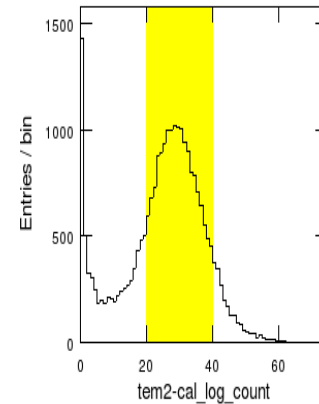
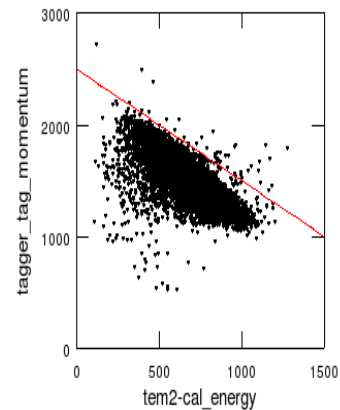




Photon Online Reconstruction



2.5 GeV beam



Total beam Energy (CU + Tagger)

Tagger recon momentum (MeV)

