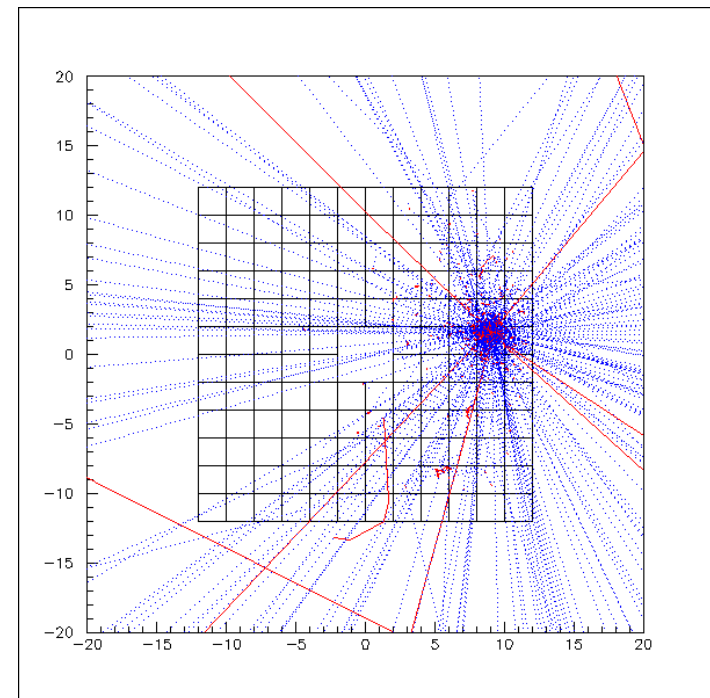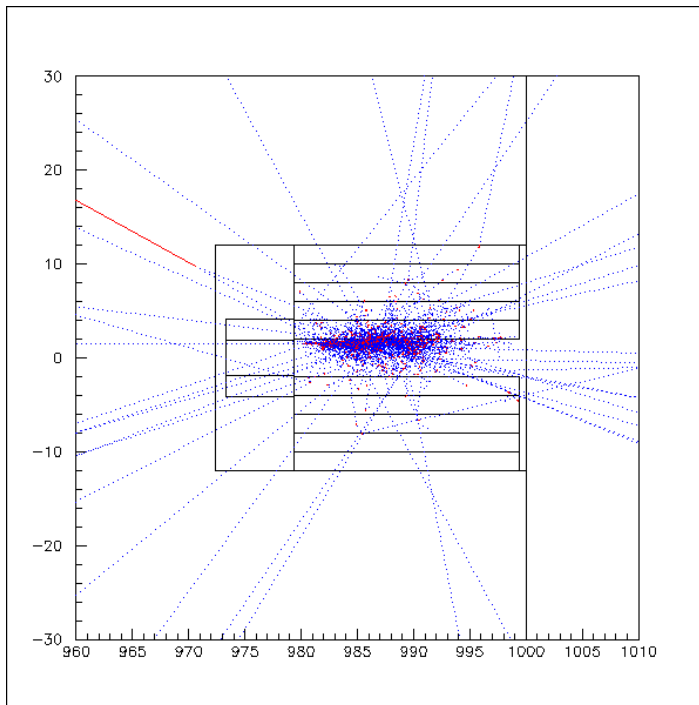# CCAL in Geant

- **CCAL geometry in Geant**
- **geometry for each target types (no target)**
  - **several branches in the git repository, have to recompile Geant to switch to the new configuration**
  - **realistic positions of targets (based on the survey group) in Geant Geant geometry is used in reconstruction (stored in CCDB)**

CCAL MC Reconstruction

4 GeV photon

Constant = 260.3 ± 4.7
Mean   3.999 ± 0.001
Sigma   0.08784 ± 0.00096

MC simulation

- Geant (energy deposition)
  - MC truth point

- MC smearing
  - hits
  - smear energy, position, and time according to data

HyCal