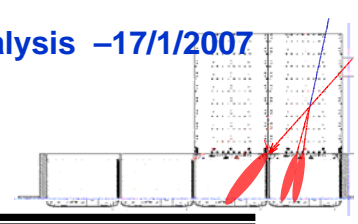# **Preliminary studies for PSF**

GSI Test Program

- ❑ **Path**
  - – **Find preliminary results already shown**
  - – **Compare with current mass simulation MC**
  - – **Systematically fit data with Burnett function**
- ❑ **Data**
  - – **Tagged photons at 0 degree on tower3 (so far)**
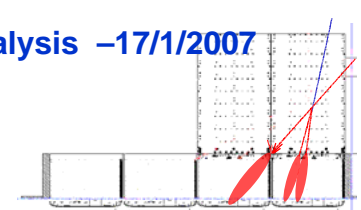- ❑ **Error deviation calculation**
  - – **Rotate tagger reference frame on run basis**
  - – **Get direction error from scalar product of incoming beam direction and reconstructed beam**
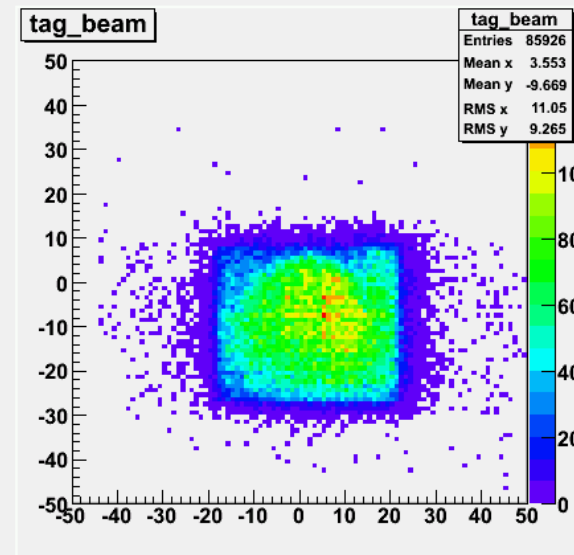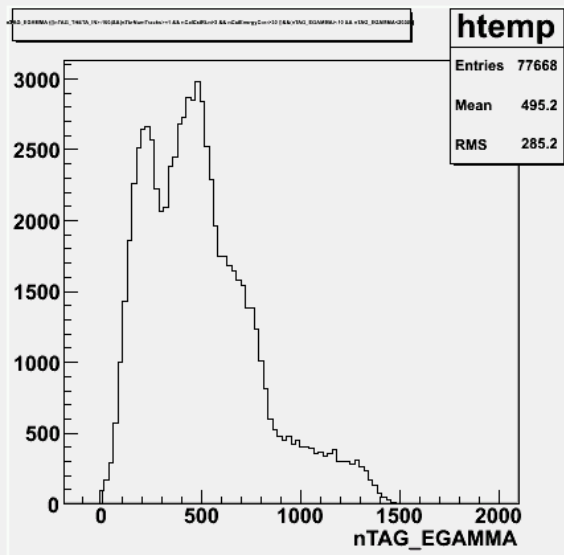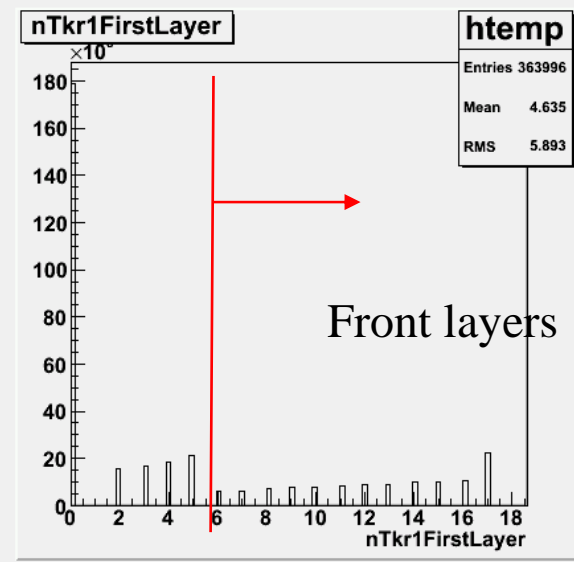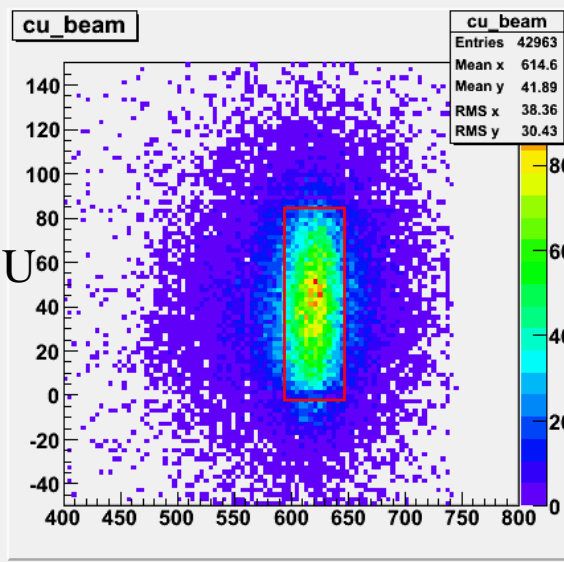- ❑ **Standard cuts**
- ❑ **Standard energy binning (4/decade)**

Cuts to define incoming beam
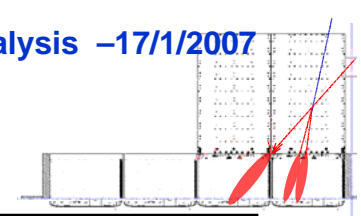
Gammas spectrum

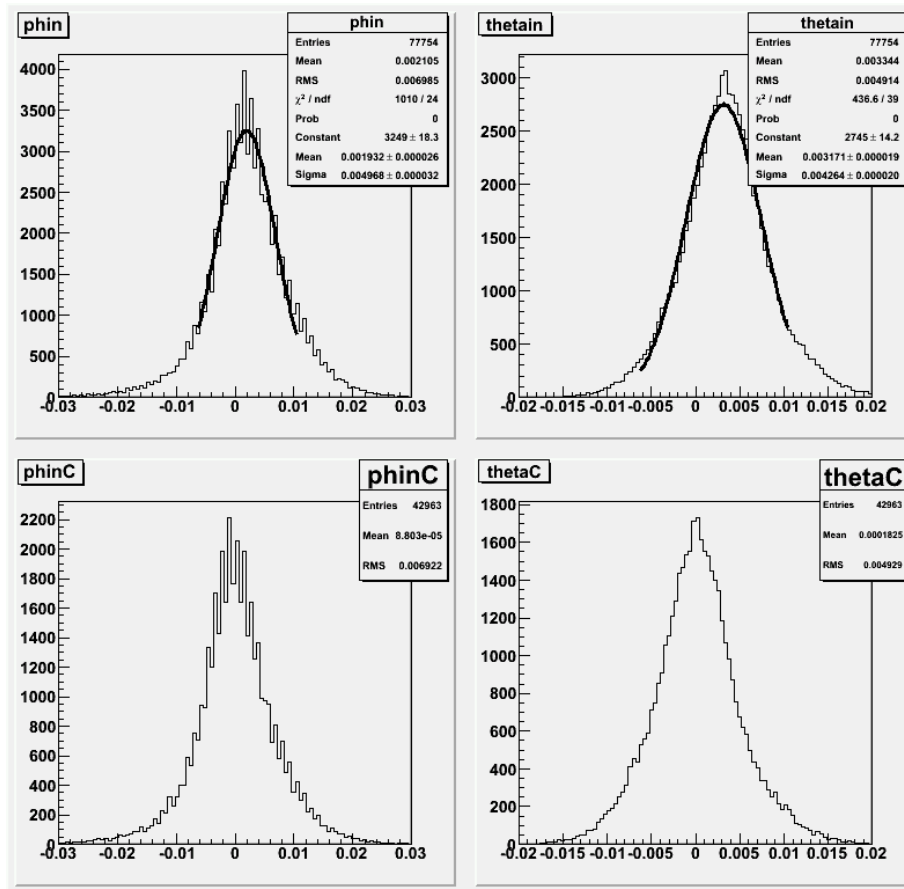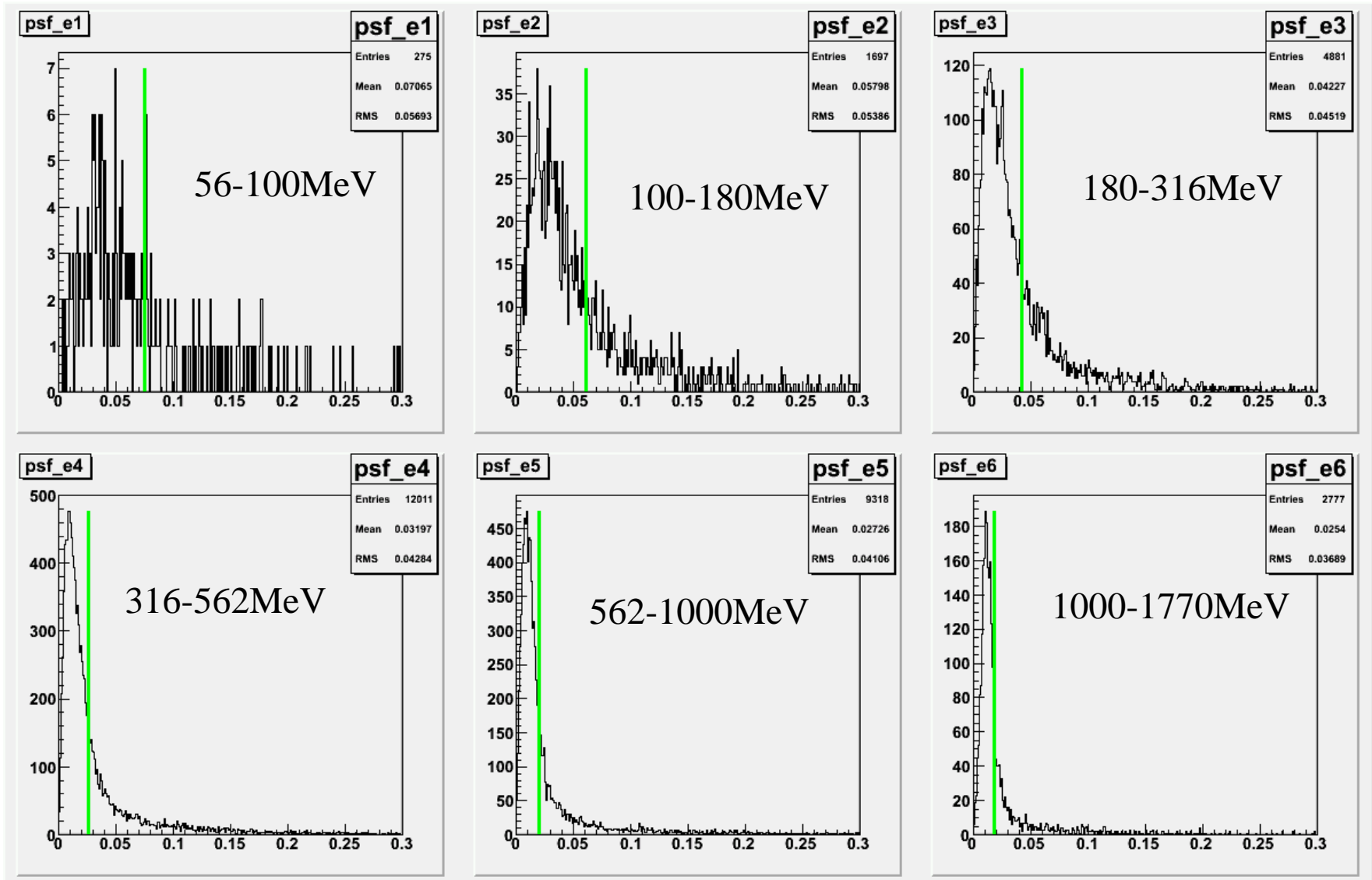Impact point on CU

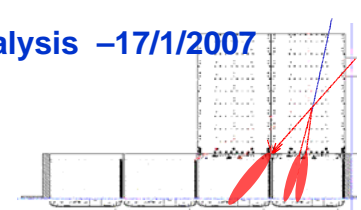Front layers

Rotations

❑ **For each run rotate tagger reference frame as to have angle distributions around 0**
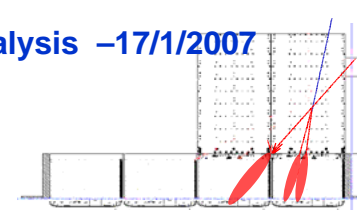
   – **Should do the same with CU when angle not 0**
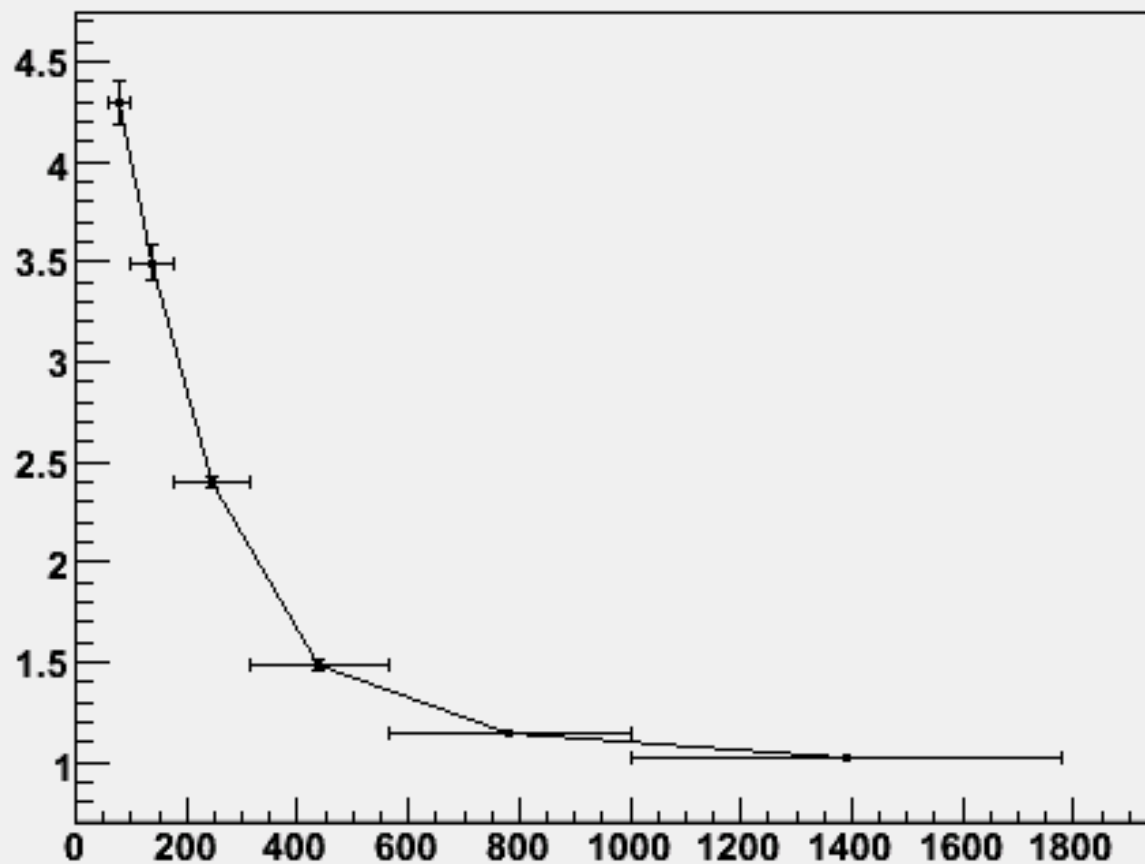
Direction Error

PSF

PSF_68(degree)

E(MeV)