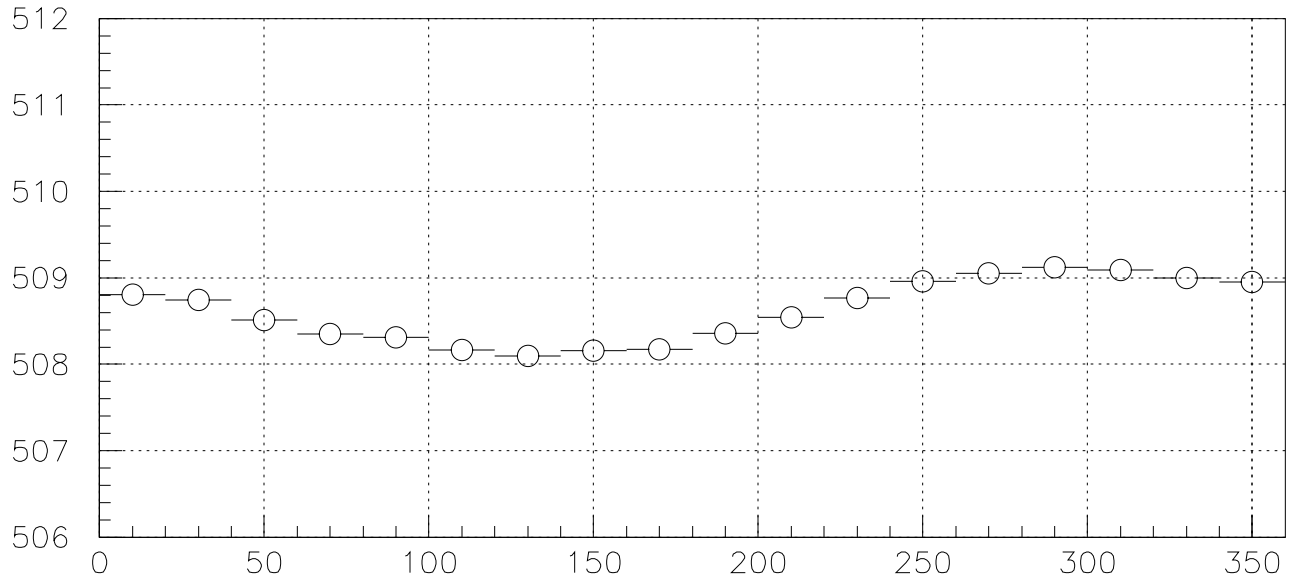
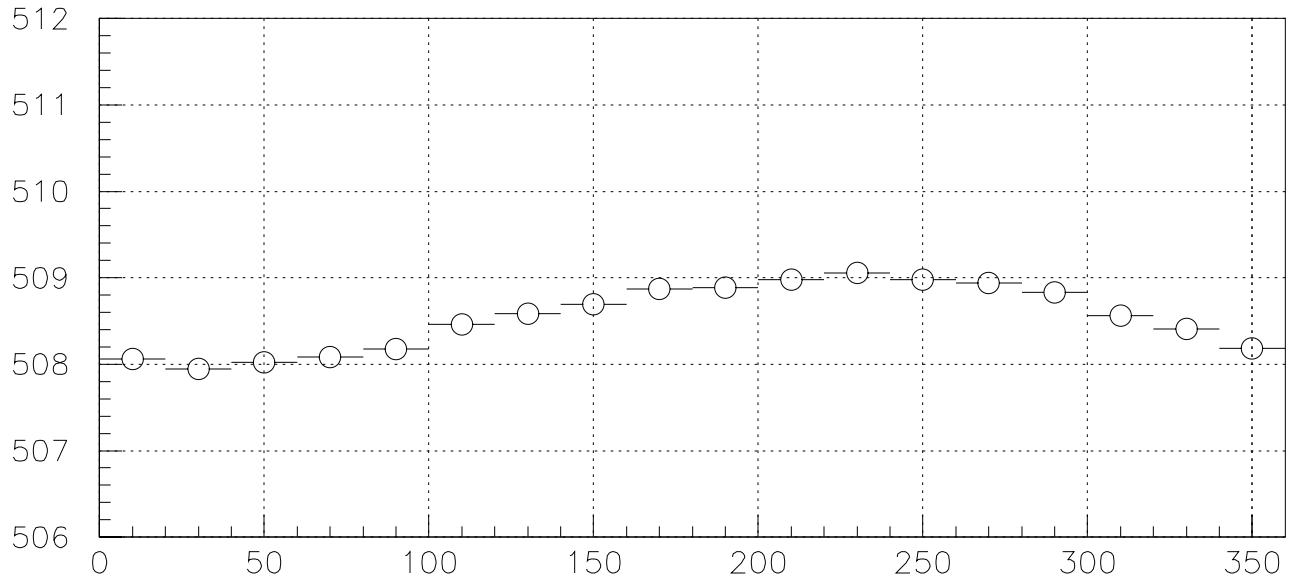
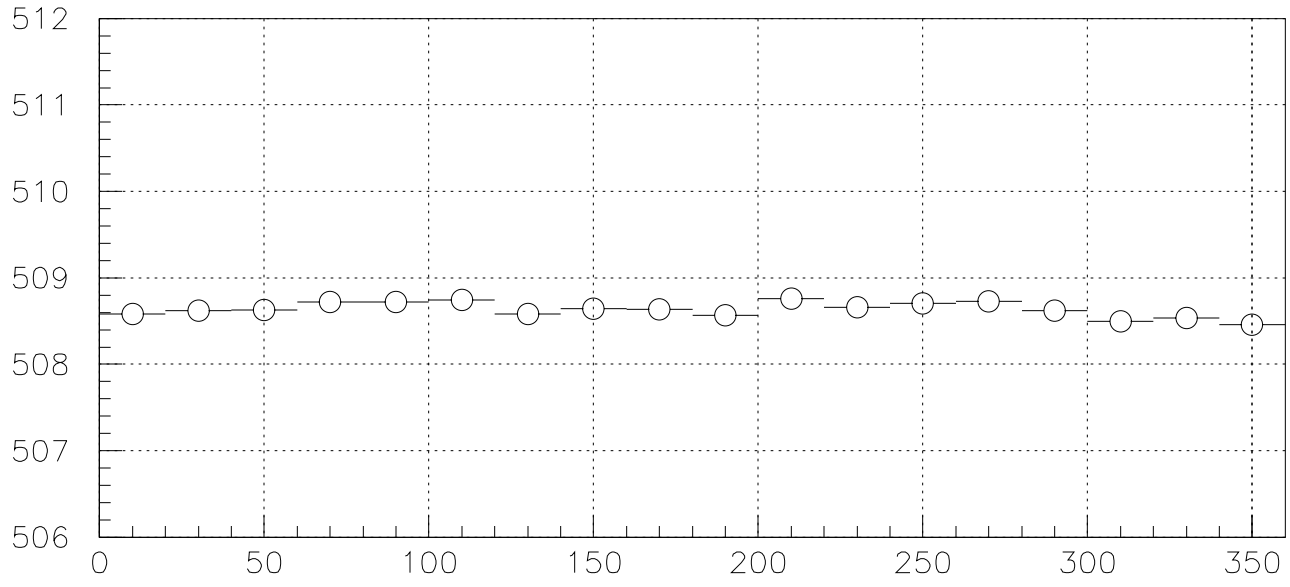


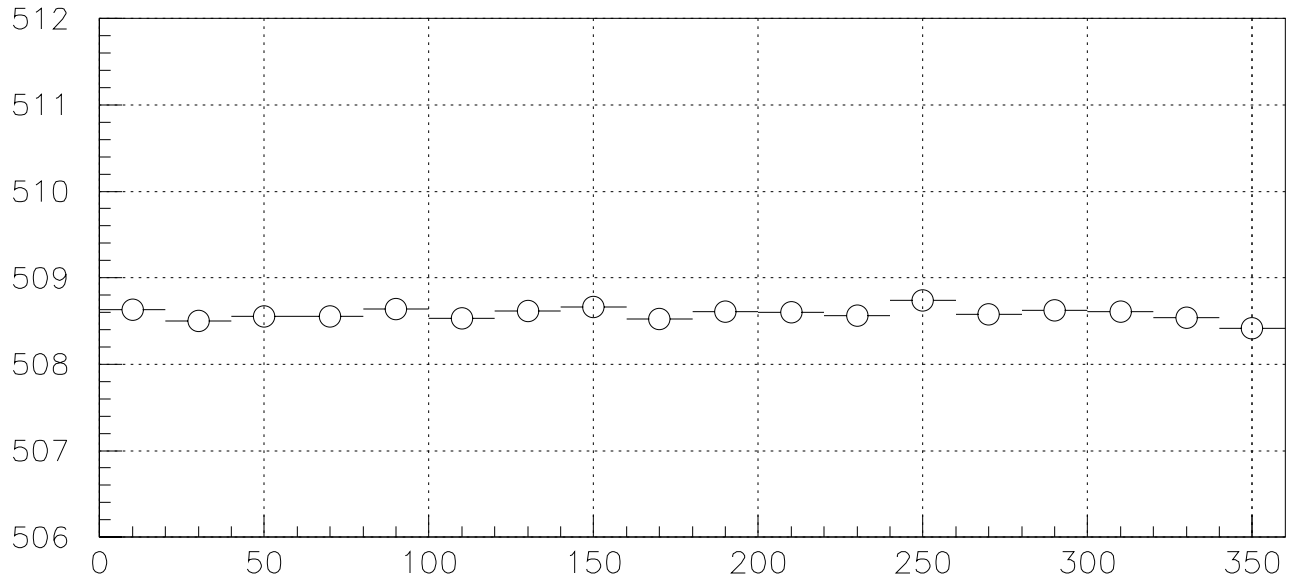
Pn vs φ for $\Theta<40$



Pp vs φ for $\Theta>140$



Pn vs φ for $\Theta<40$



Pp vs φ for $\Theta>140$

Drift Chamber MC geometry

- EP geometry correctly modeled (Ti screws and connectors missing: EMC reco can see them ?)
- Inner wall modeled with best knowledge: 0.01Al+.075CF+0.01Al cm. Track reco uses CF total equivalent of material; data vs mc now
- FEE on EP: added .5 cm CF to EP thickness
- Outer wall: 0.4CF cm. Al skin missing; CF struts missing: EMC reco can see them ?
- DC feet and IR legs missing: EMC reco can see them ?

IP/DC/EMC global geometry

- Currently all co-axial and centered
- In real life DC below IP by **$\Delta y = -1$cm**, barrel EMC below by **$\Delta y = -0.4$cm,-0.7cm**
- To fire correct (shifted) hits in the DC and keep current DB wire description same for DATA and MC
  - Start trajectory wrt IP system. Move GEANT DC "box" so tracks enter DC wall in the correct position **Vin**
  - When inside the DC, trace particle in the DC system (**Vin**$\rightarrow$**Vin**$-\Delta$**y**). Then reconstruct in DC system like for the data and before filling DTFS, move track by $+\Delta$**y**
  - When exiting the DC (exit point needs carefull treatment) refer particle trajectory back to IP system ($+\Delta$**y**) to generate EMC clusters in the correct position
  - NOTE: it seems more convenient to move the particle trajectory than the wire positions inside the DC