Status report on EMC simulation ... Part 3

The plan is to:

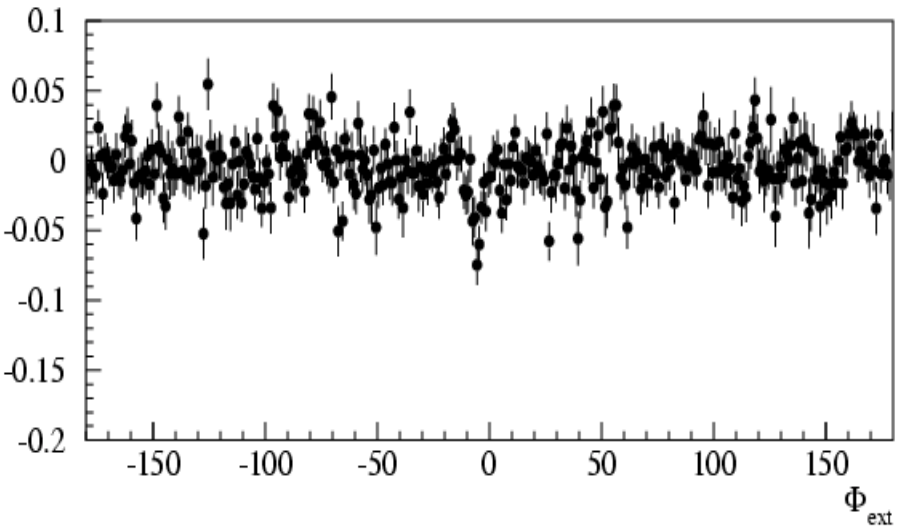
- SURVEY the existing situation over the 2001 2002 runs
  - Validation of plots using $\Phi \rightarrow \pi\pi\pi$ and $ee \rightarrow ee\gamma$ samples

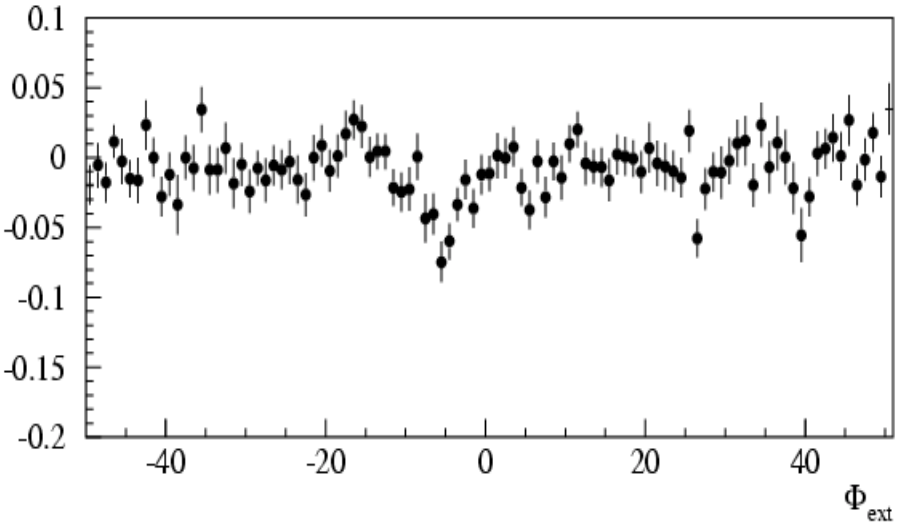
  STATUS: **advanced with** $\Phi \rightarrow \pi\pi\pi$

- More mature test on energy response and efficiency done with two different data samples of 8 and 6 pb^{-1}
- First comparison with $2x10^6$ events of MC data set (100 out of 250 files).

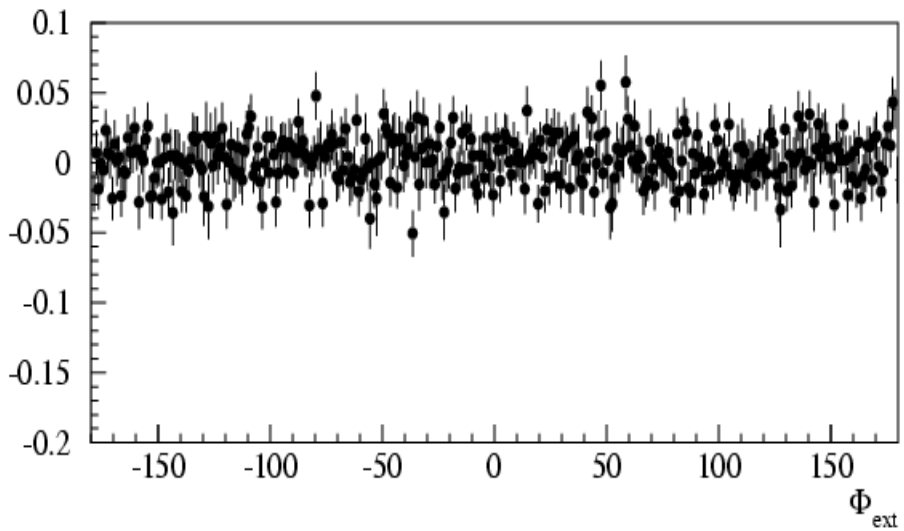
BARREL: Response vs φ_{ext}

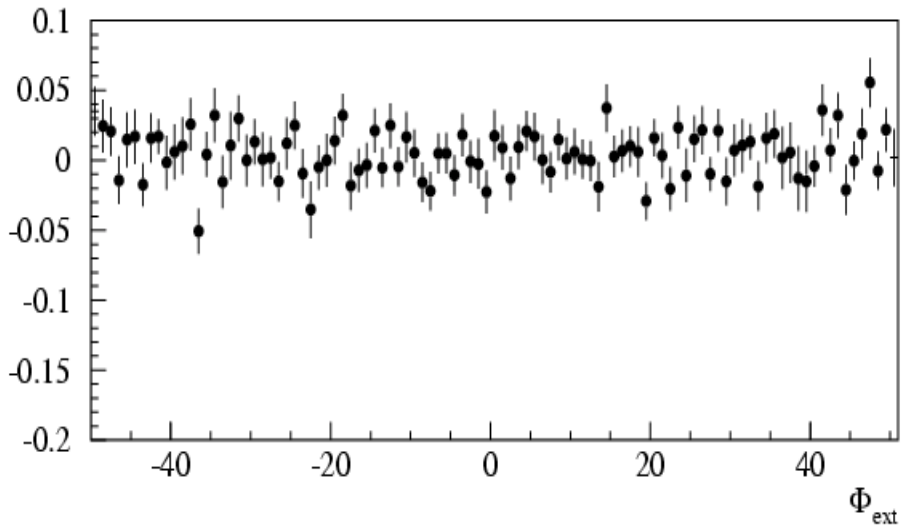
DATA





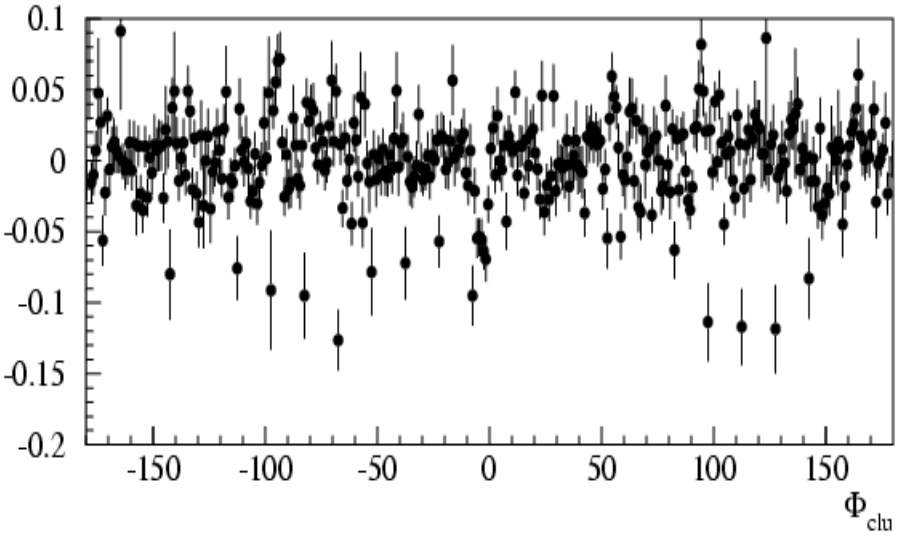
MC

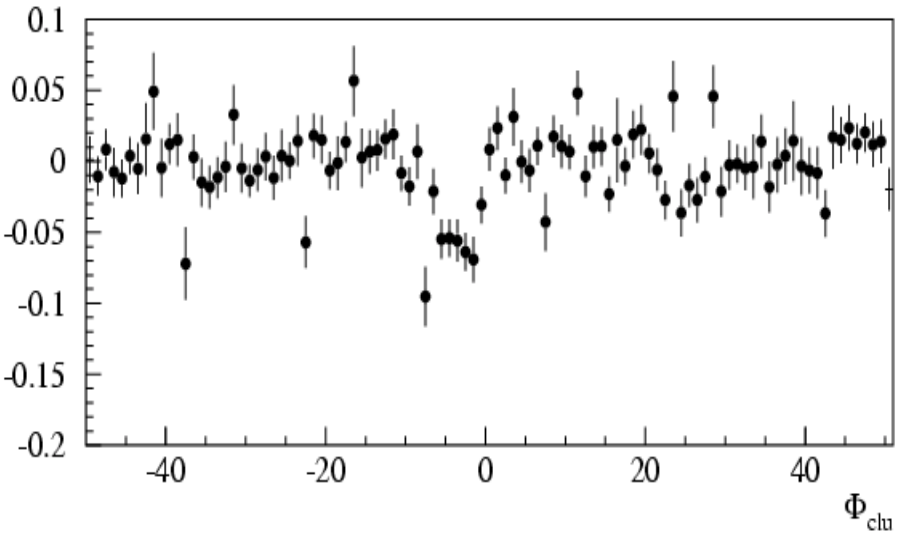




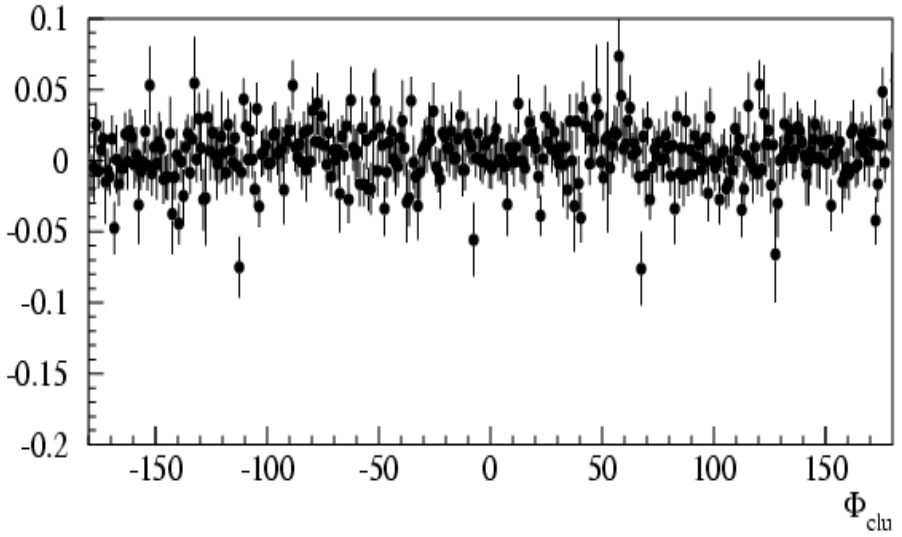
BARREL:Response vs φ_{clu}

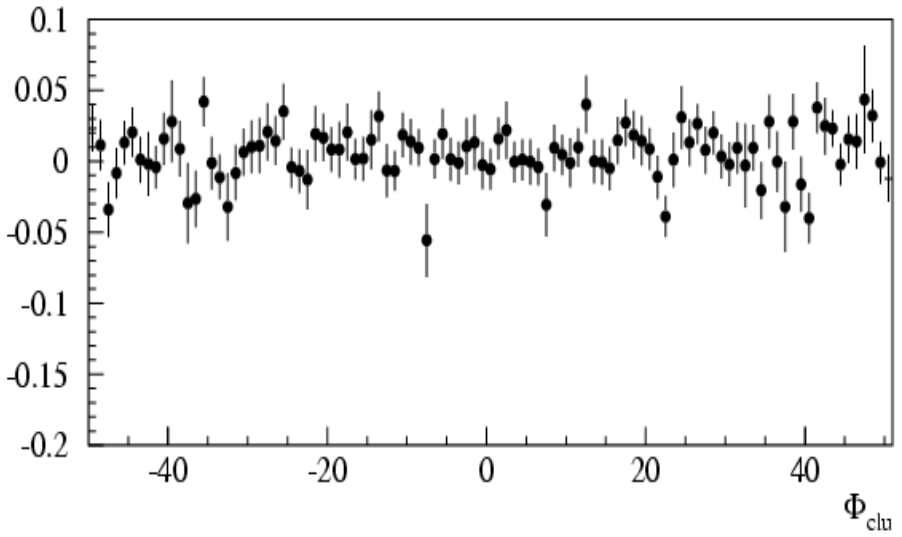
DATA





MC

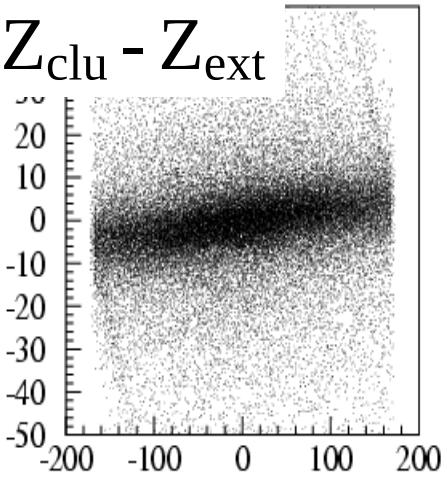




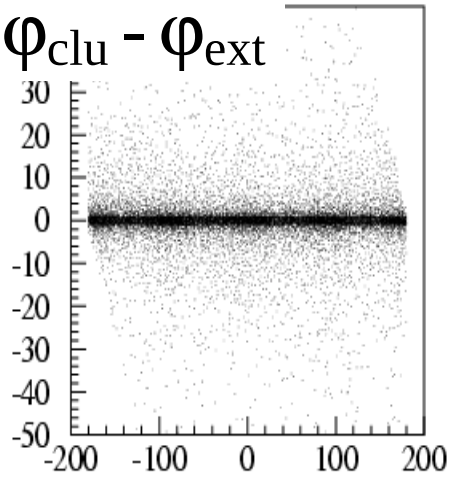
BARREL: Space Resolution

DATA

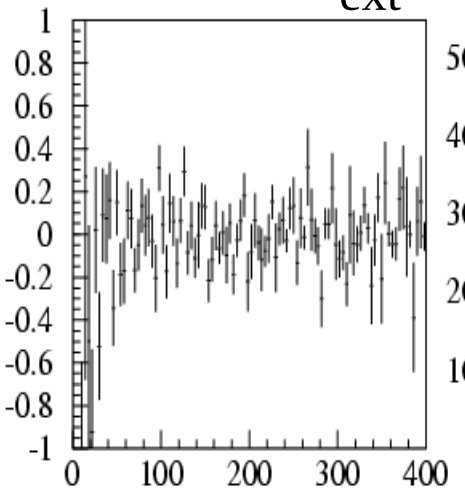
$Z_{clu} - Z_{ext}$



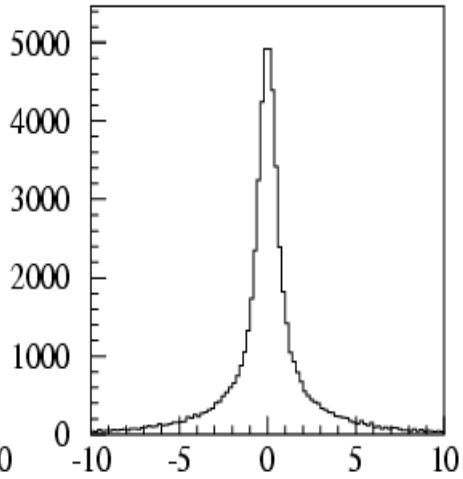
$\varphi_{clu} - \varphi_{ext}$



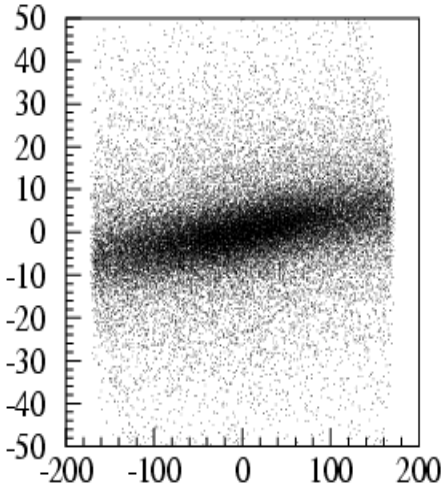
Z_{ext}

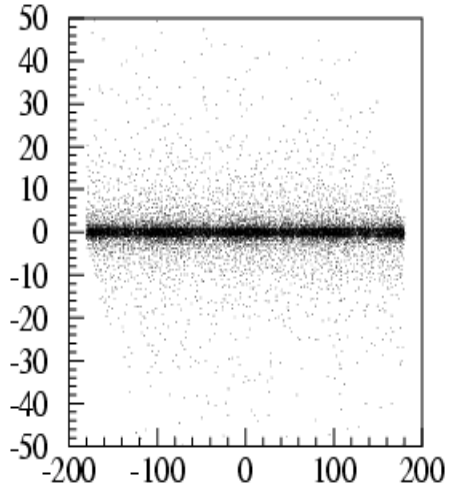


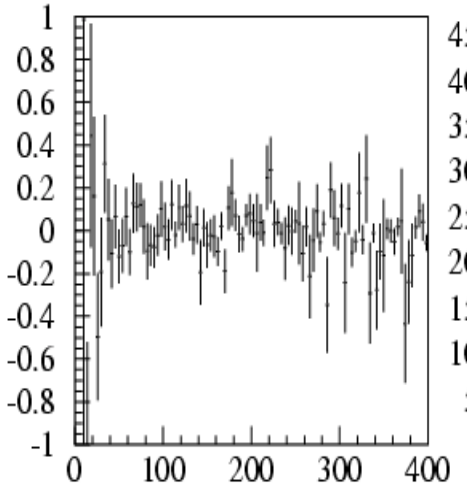
φ_{ext}

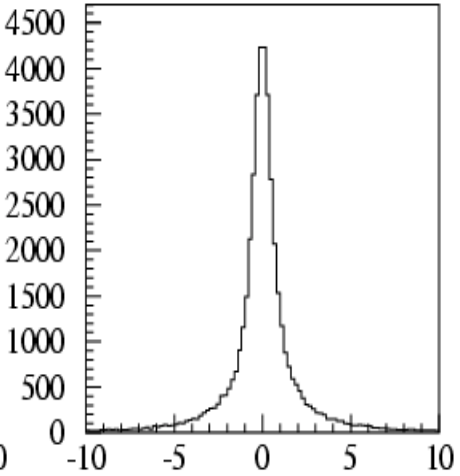


MC

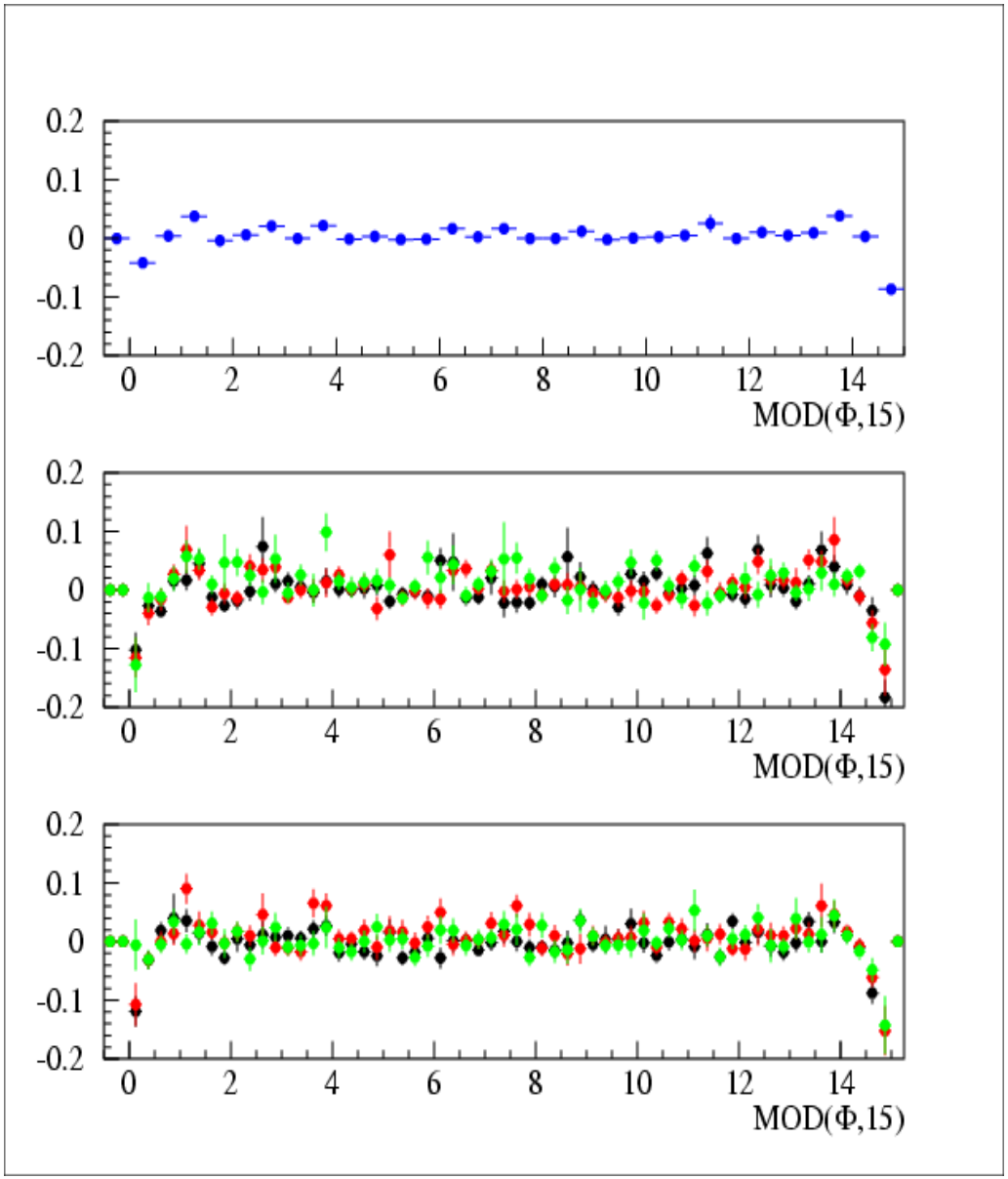


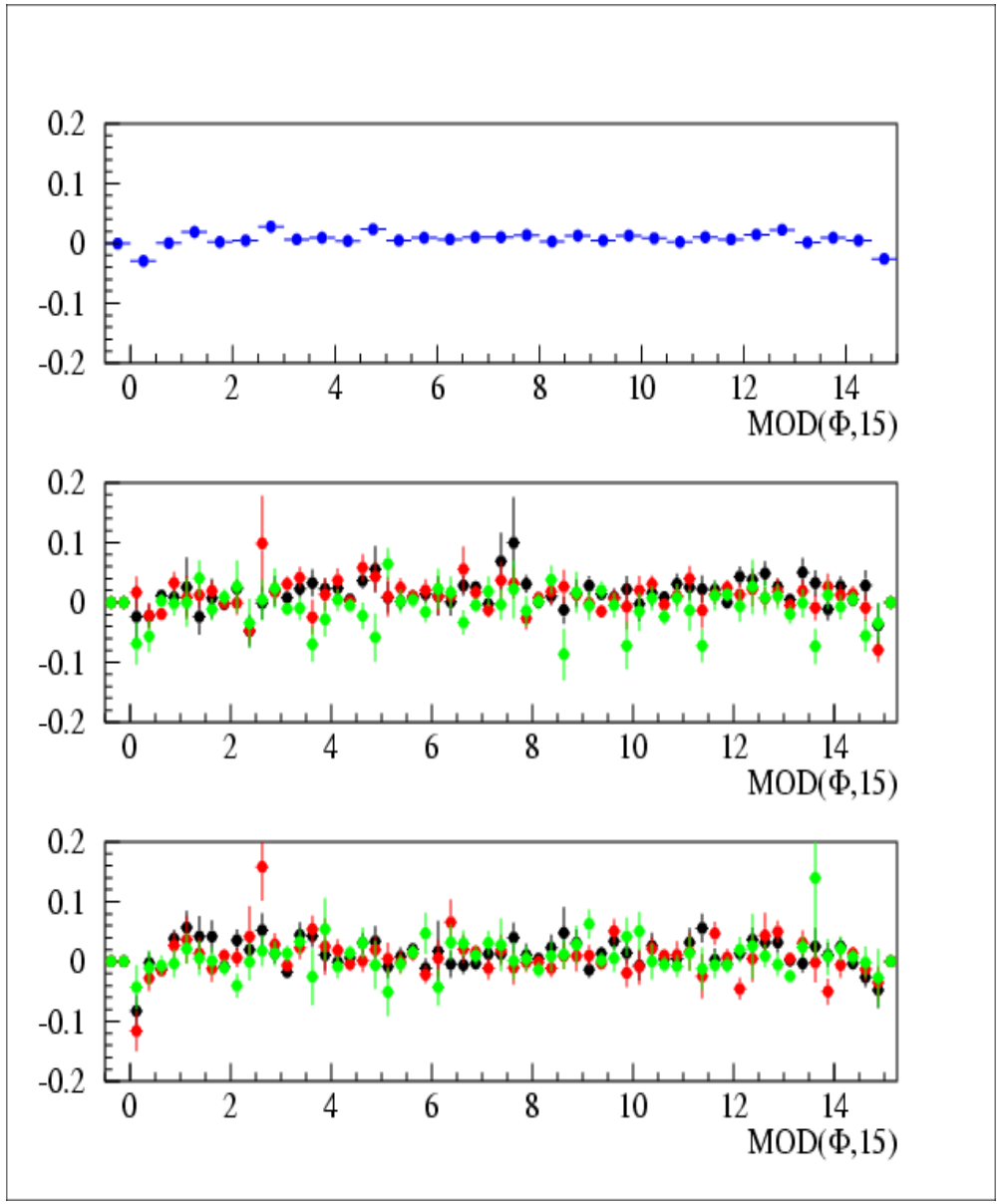




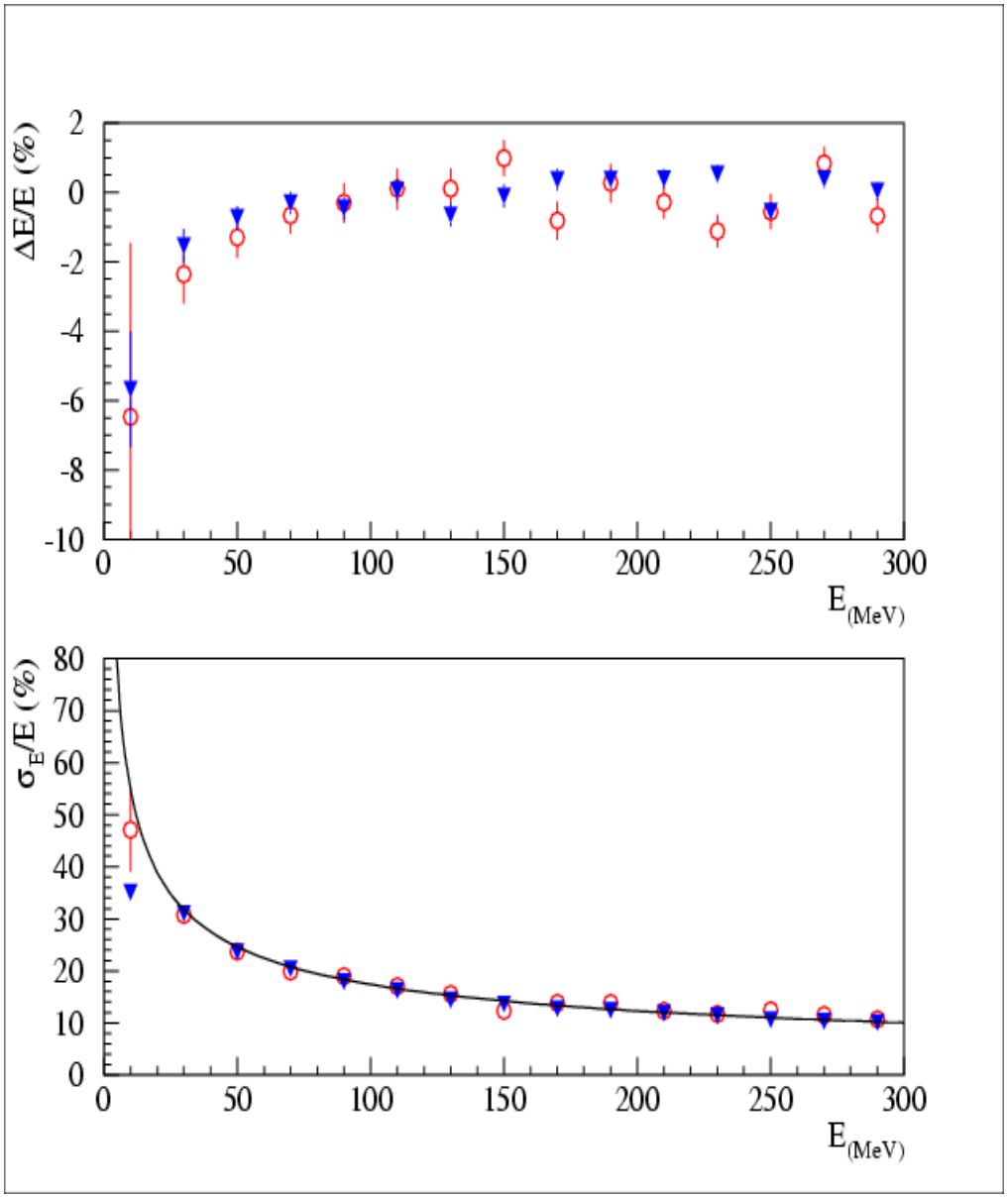


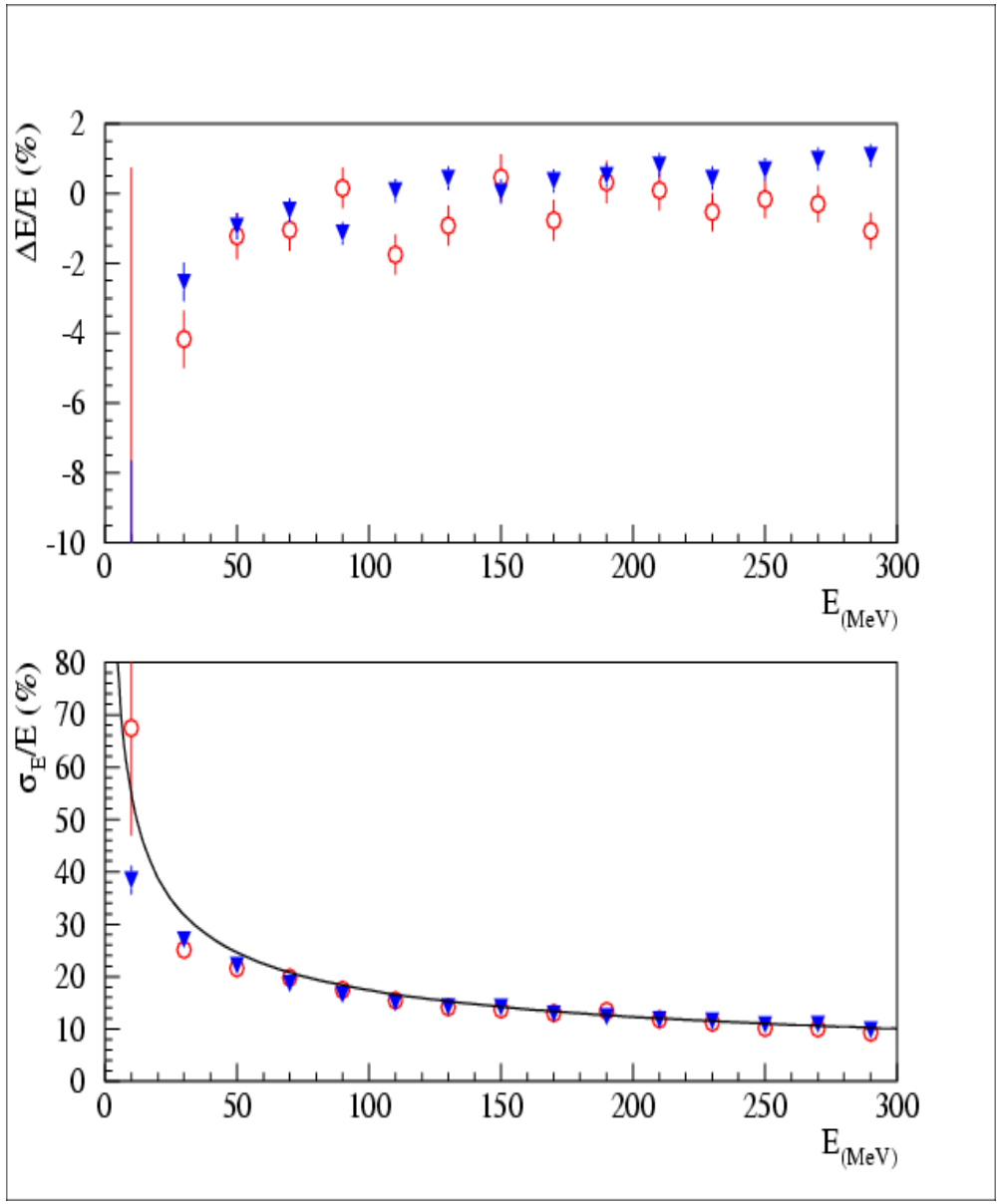
BARREL: Response vs MOD(ϕ,15)



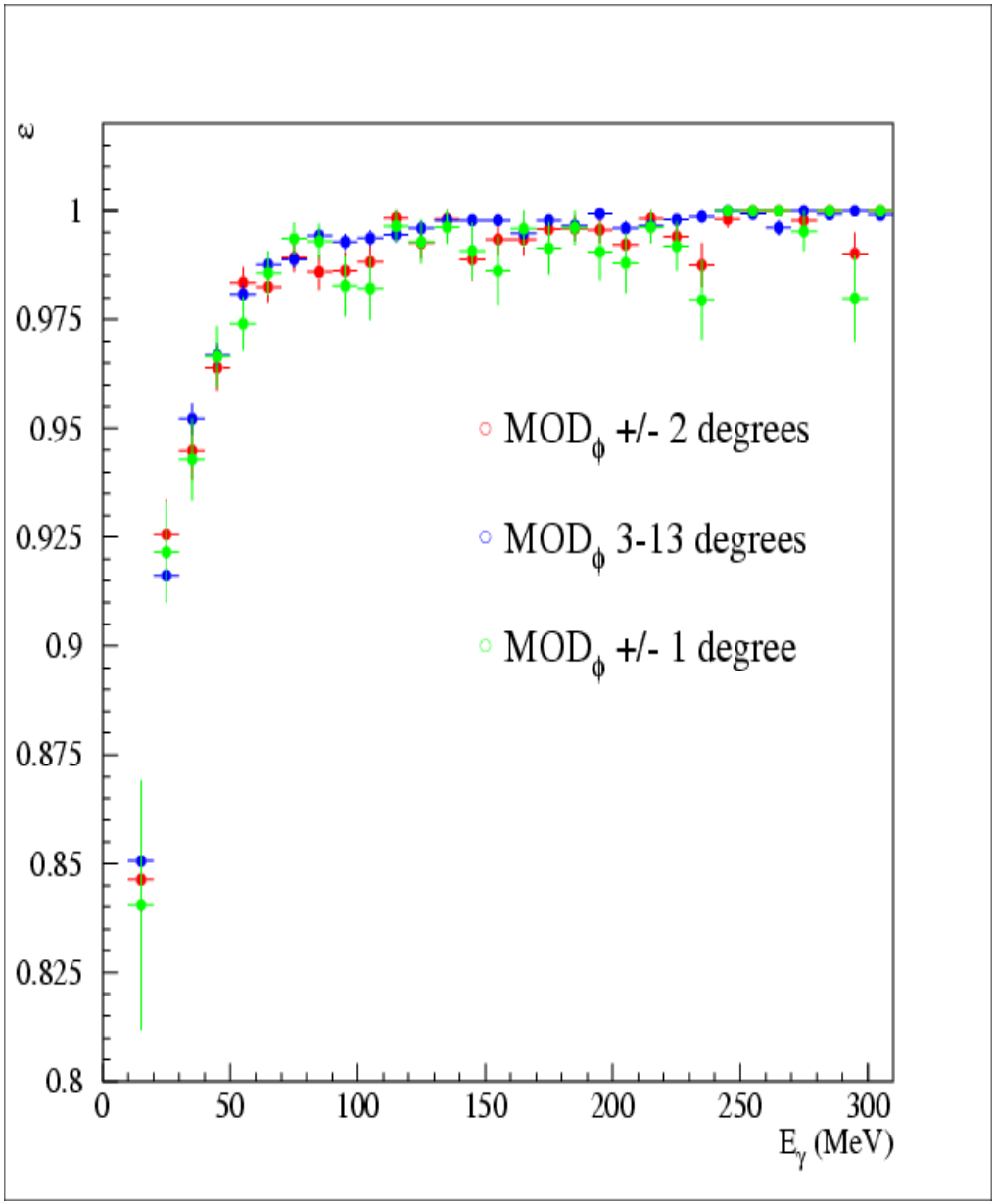


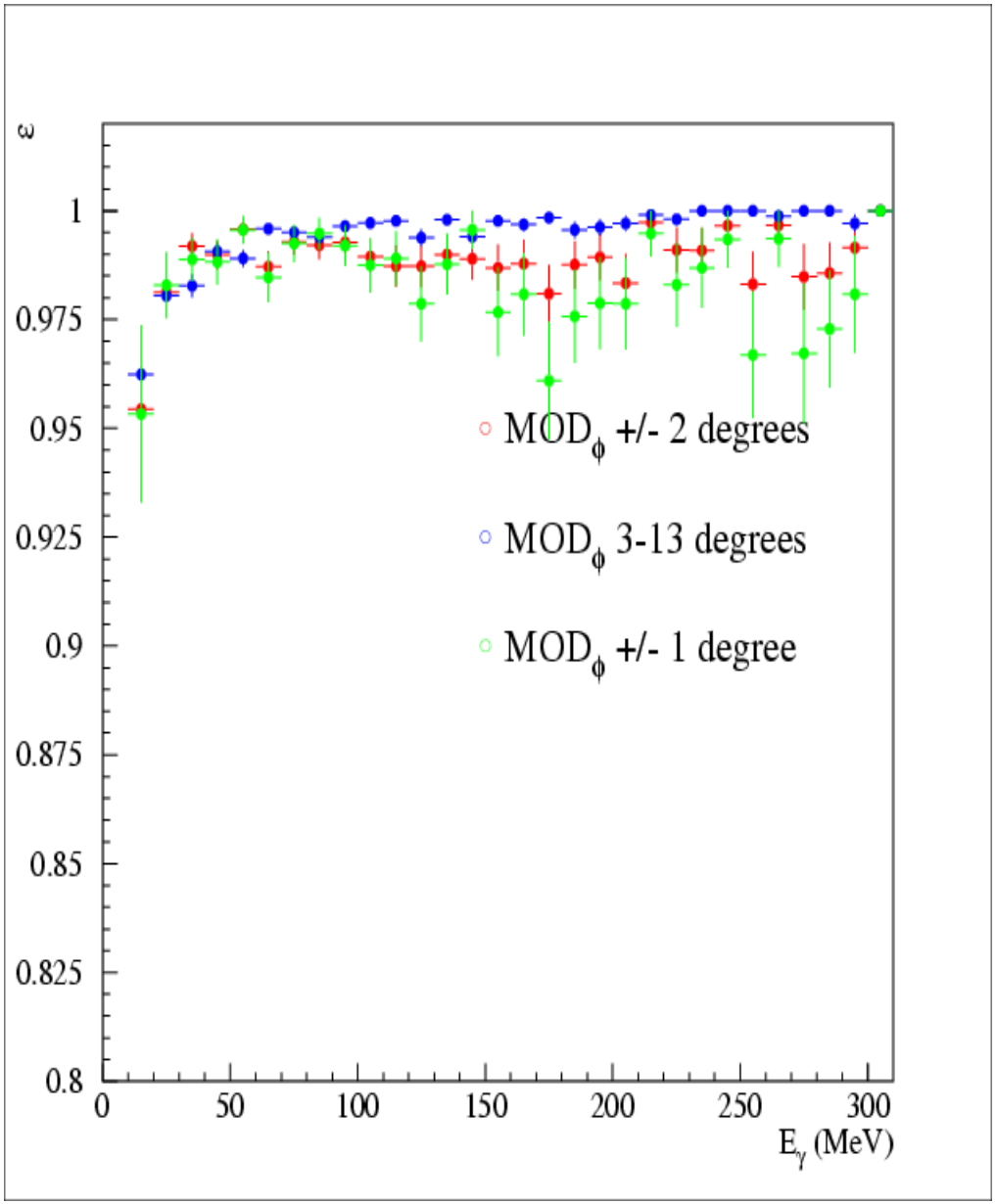
BARREL Response and Resolution



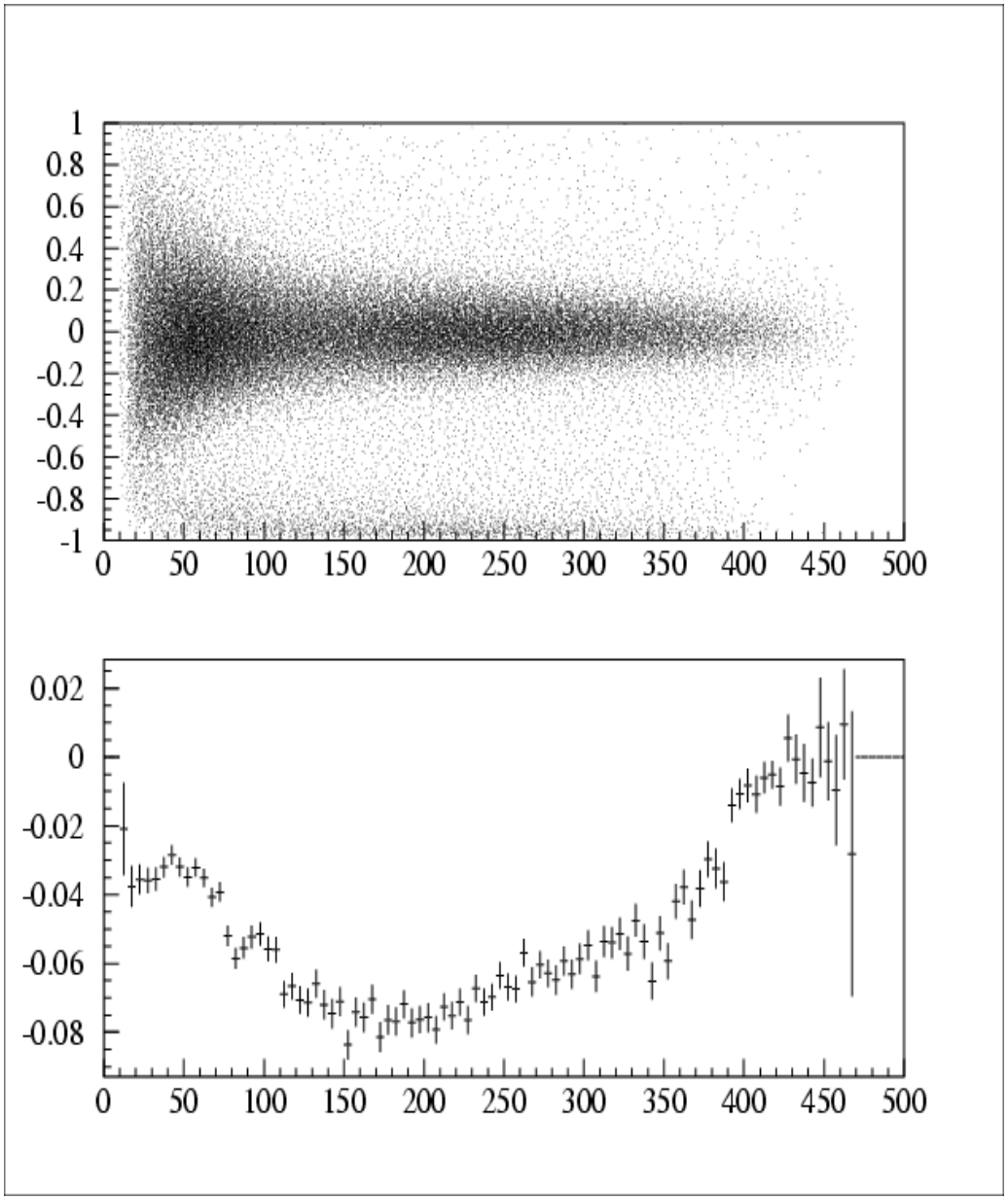


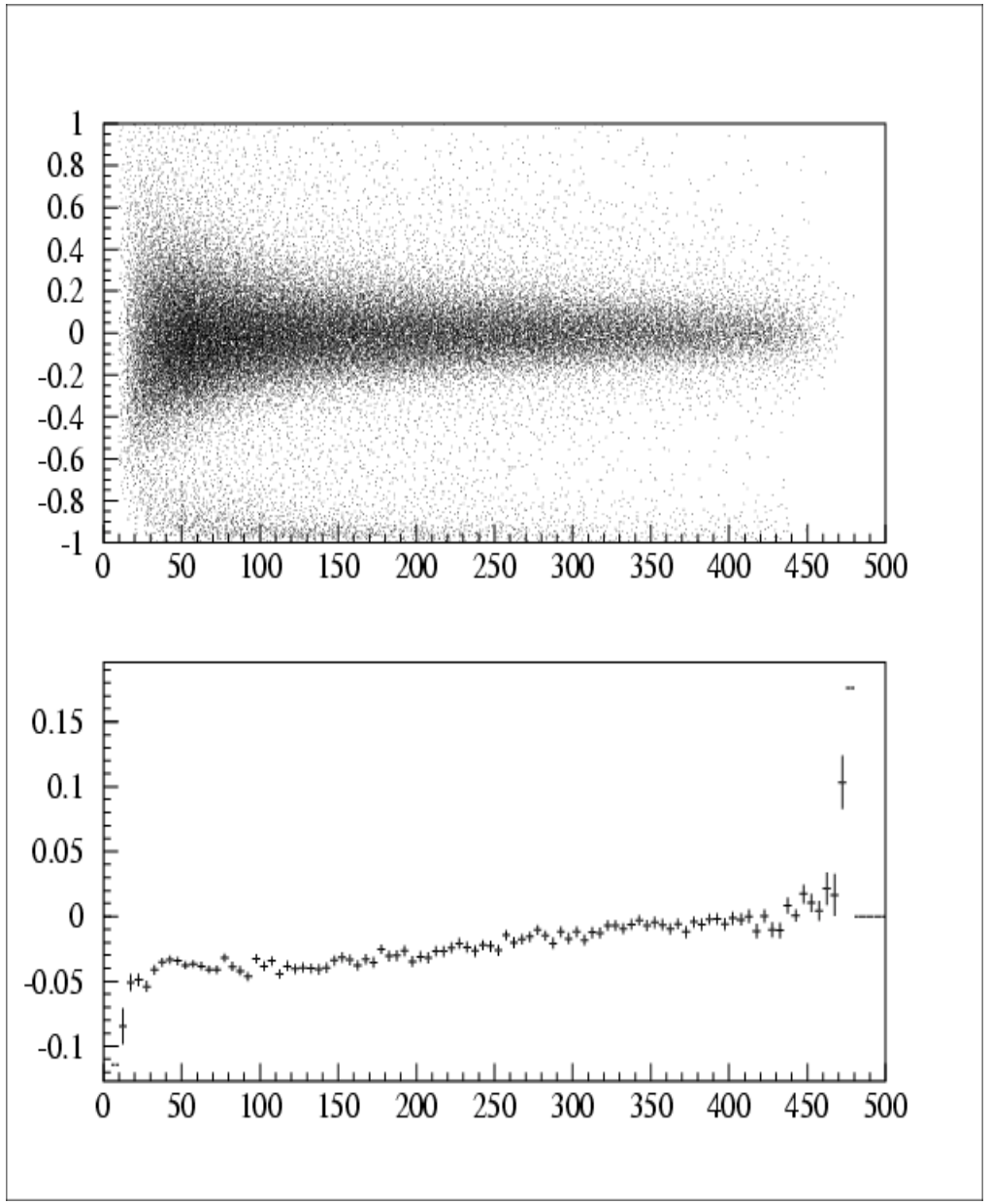
BARREL: reconstruction efficiency



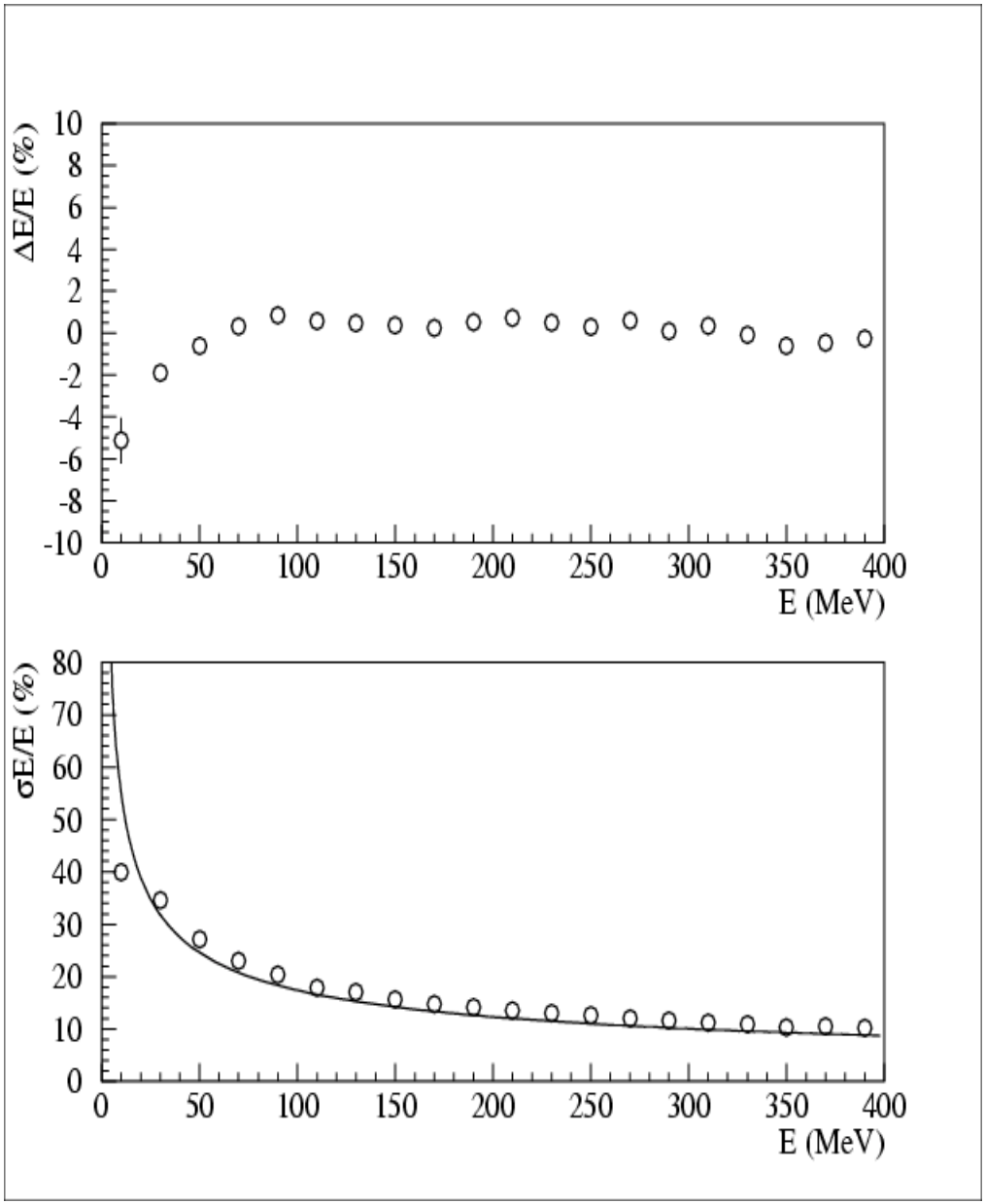


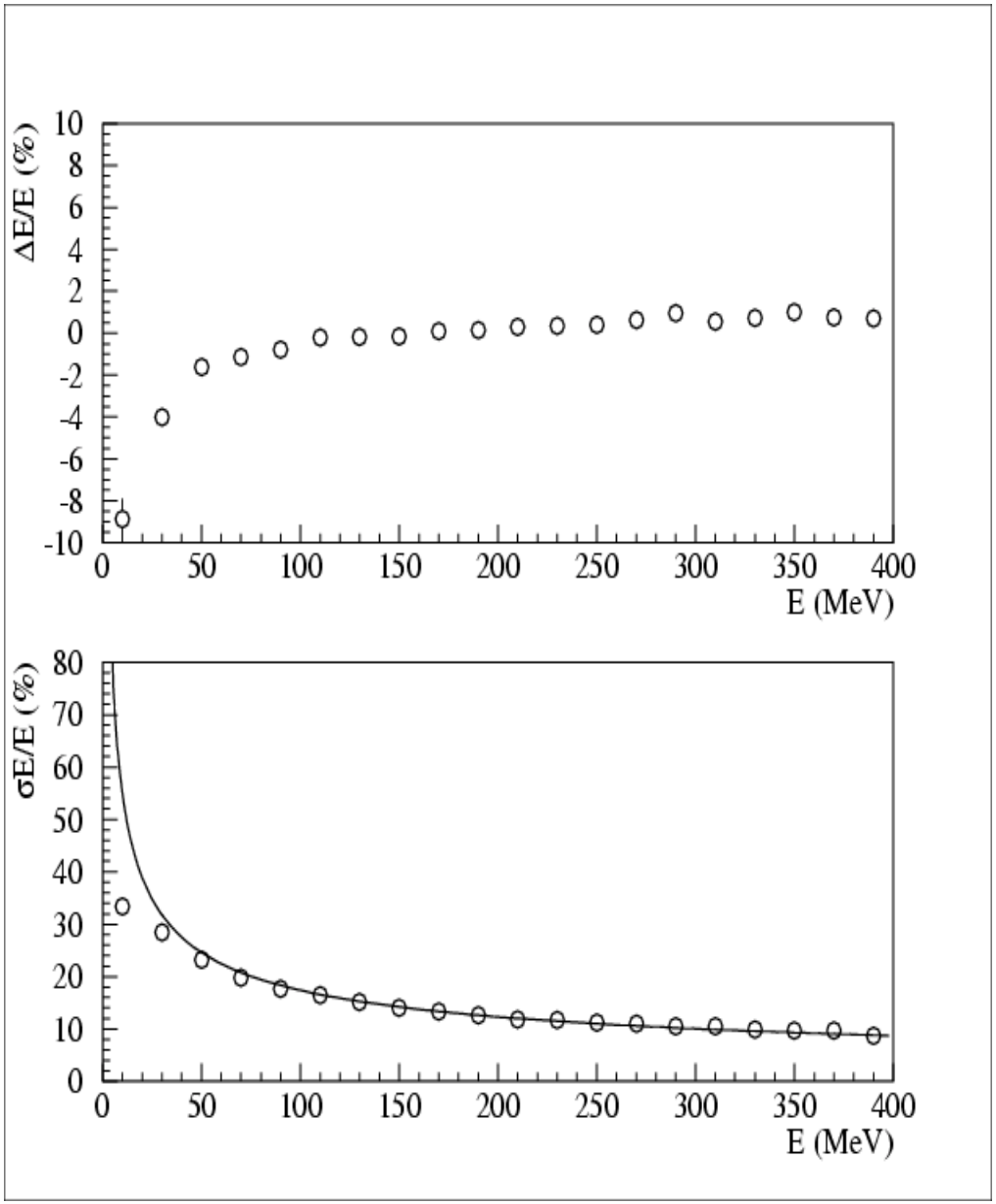
Barrel-Endcap region (180:200 cm in Rt) data vs MC





EndCap: Response and Resolution





Status of SELBKG

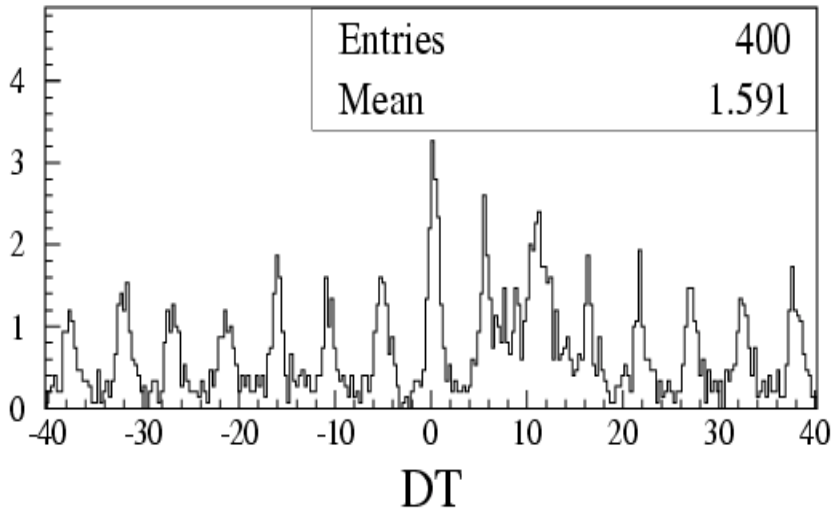
- INIT routine to read the weights from files **done**
- EV routine to filter gg sample:
  - selection of golden clusters **ok.**
  - list of accidental clusters **ok**
  - weighting routine **ok**
  - selection of CELE hits **ok**

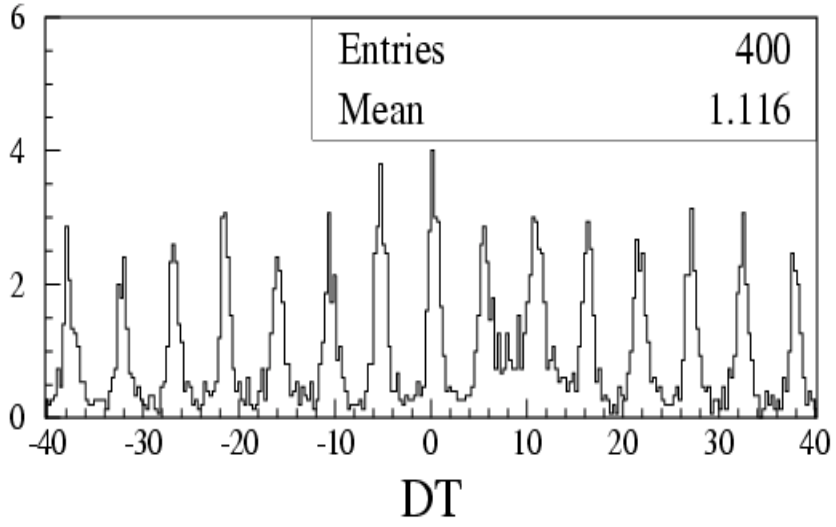
    no selection required for DC hits
  - output file **ok** (**LRID,T0GL,CELE,DTCE,QCAE**)
  - First scheleton of diagnostic plots **done**

- **A version 0 of a running AC module completed.**

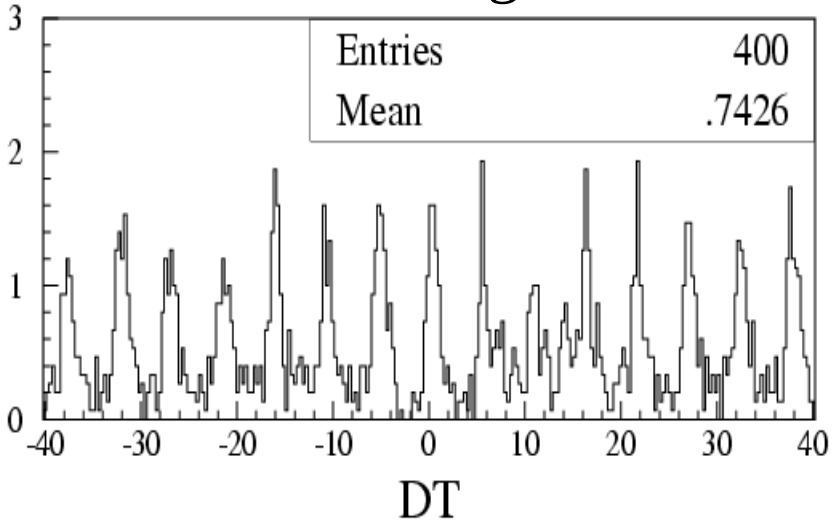
Selbkg – diagnostic plots

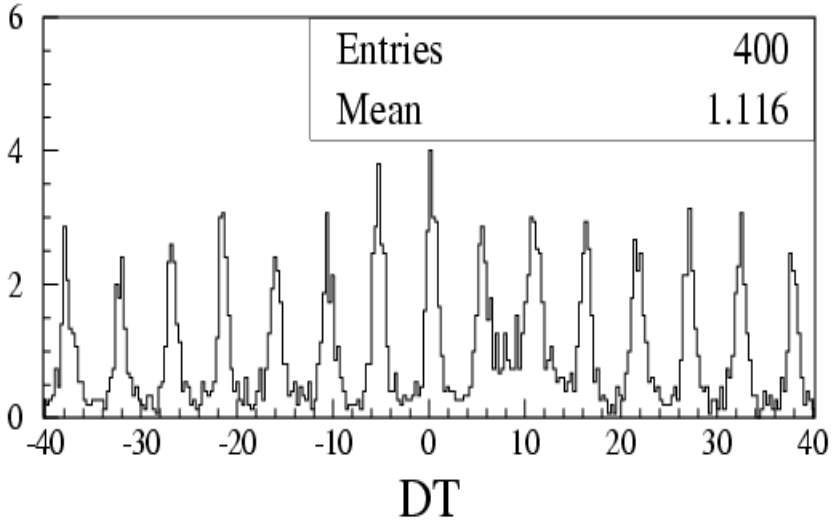
No weights





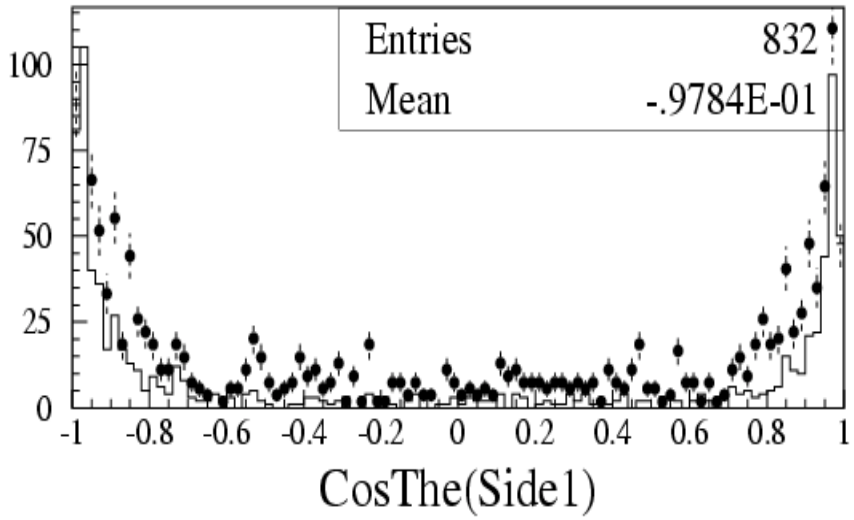
With weights

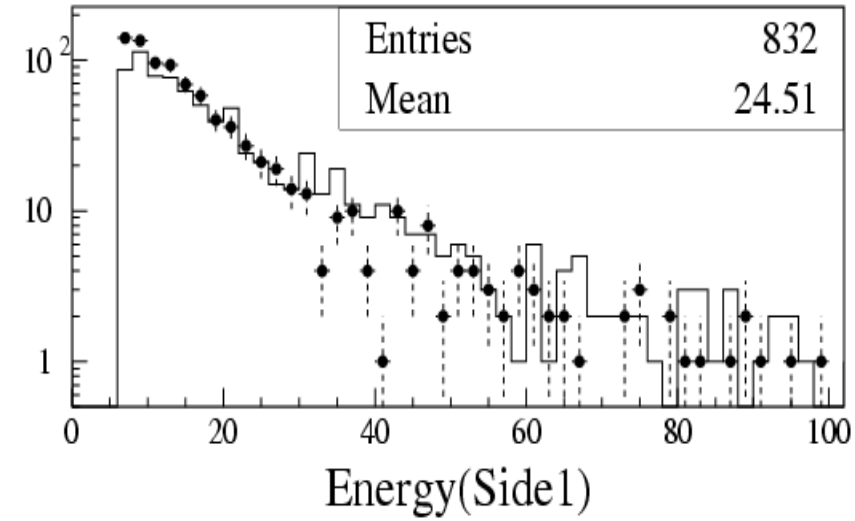




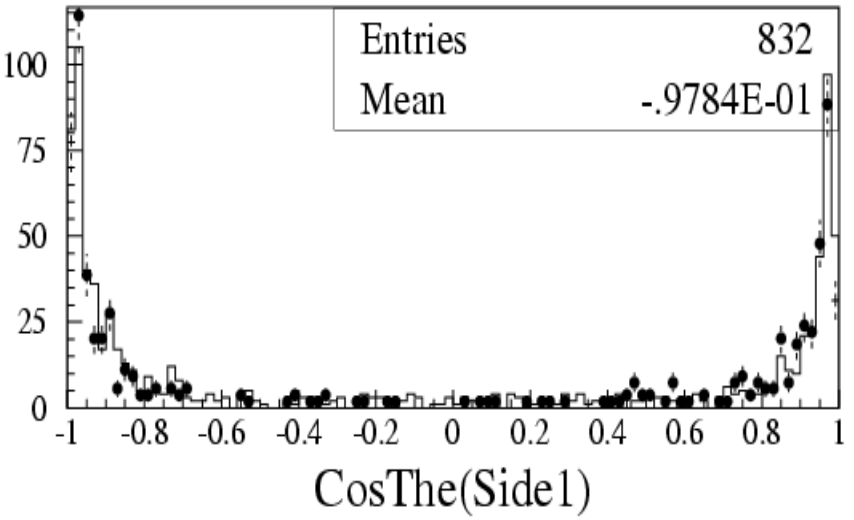
Selbkg – diagnostic plots II

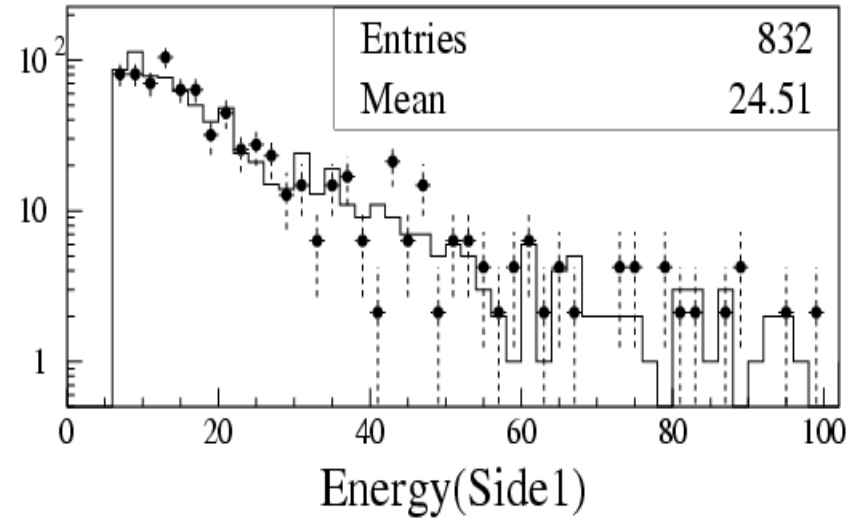
No weights





With weights





Status of INSERT for Emc hits

- INIT routine to read the corrections for the attenuation lenghts **done**
- EV routine to insert EMC hits :
  - reading of Accidental hits from JW **ok.**
  - attenuation lengths correction **ok**
  - subtraction of T0clu0 **ok**
  - rebuild of new CELE **ok**
  - rebuild of new CHIT **ok**
  - rebuild of CEKA ... **IN PROGRESS**

- **Proposal is to start a test of joint EMC + DCH insertion beginning of next week.**

Check of insertion ...