## Status report on EMC simulation ...

The plan was 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: started with  $\Phi \rightarrow \pi \pi \pi$ 

Library TOMLIB, DIAG used with minor effort (after 1 day of debugging thanks to T.Spadaro) emcsim.exe

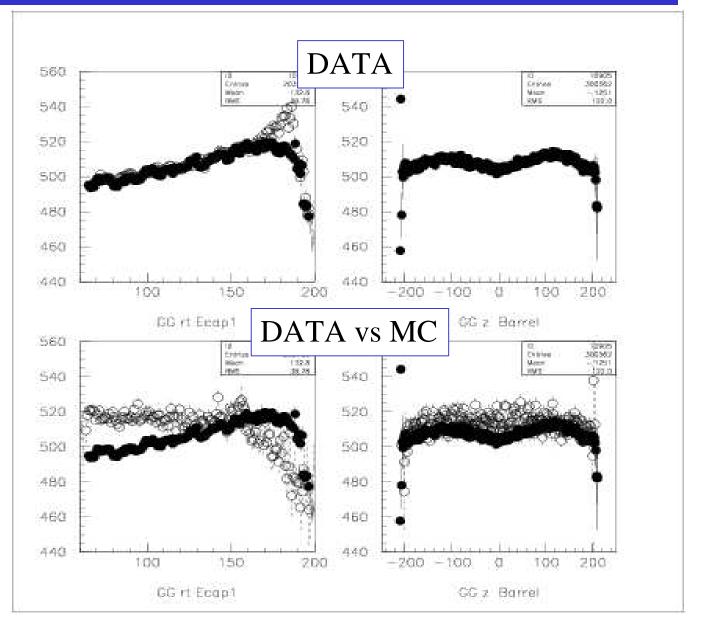
Scripts ready to run over a large sample.

First test-plots on energy response started/checked with 1.5 pb<sup>-1</sup> of D3P3 dsts (runnum ~ 26519-26658)

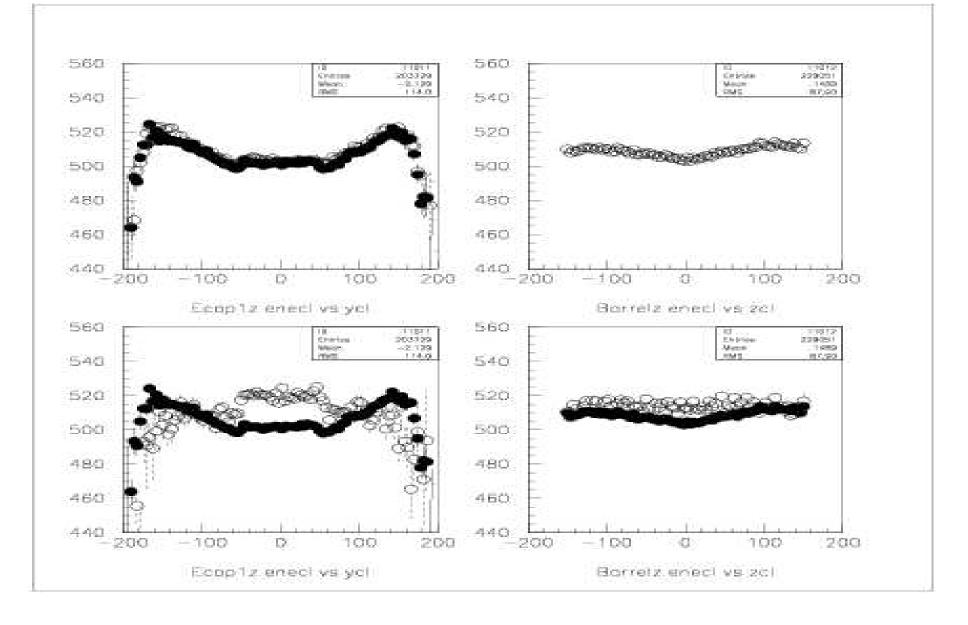
**I**next steps ... run over large data sets. Insert efficiencies. start comparing with MC, fix MC!

# Example of problems in EMC scale (1)

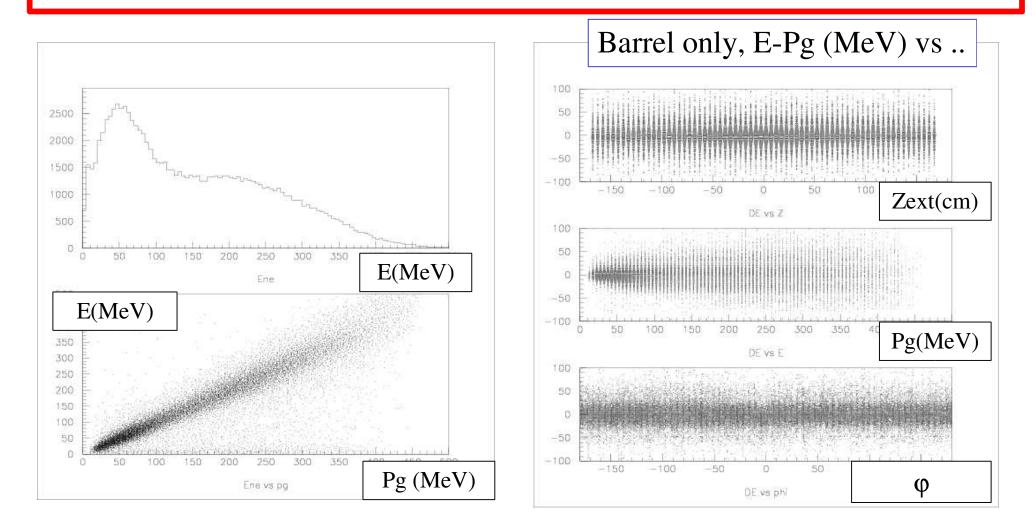
Comparing the Energy scale as a function of hit position in fiber shows : tho problems just a small scale for Barrel 4-5% discrepancy along Rt or Y in Ecap



#### Example of problems in EMC scale (2)



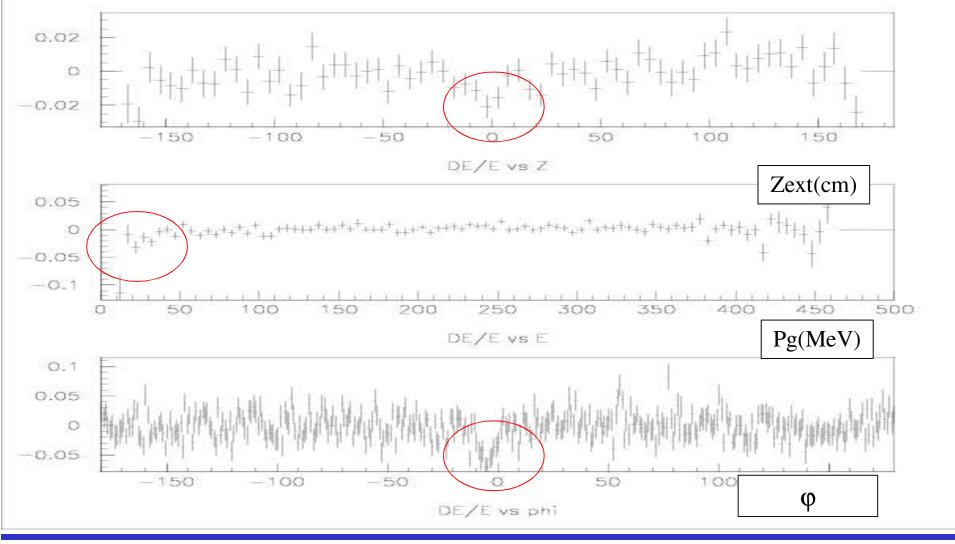
# Example of validation plots with EMCSIM



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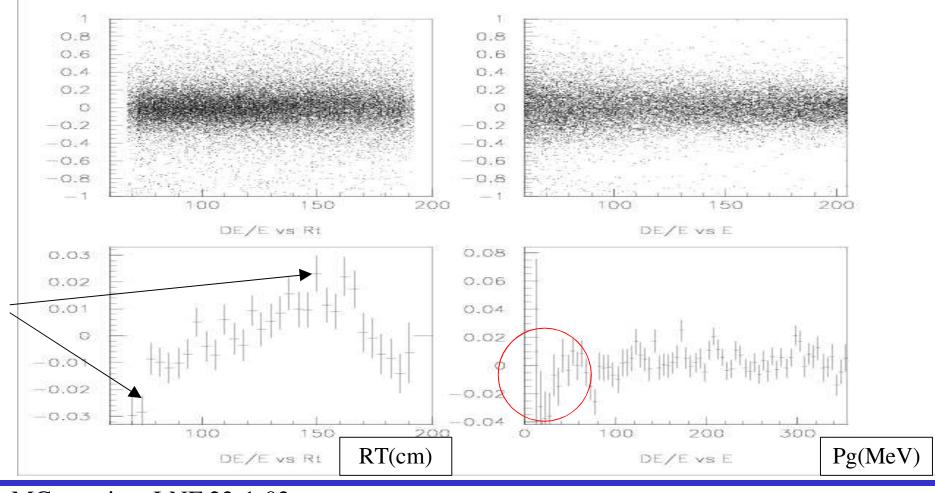
## EMCSIM: Barrel only. (E-Pg)/Pg



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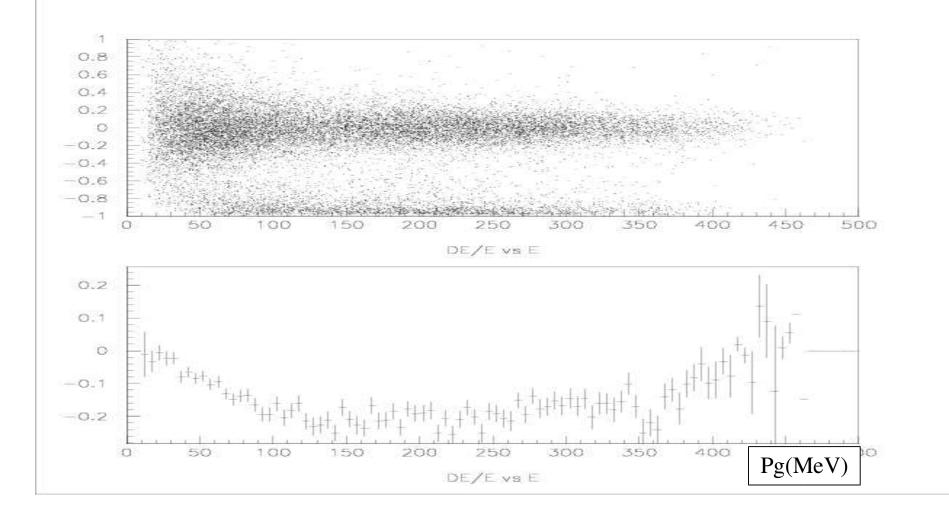
#### Endcap region (80:180 cm in RT)



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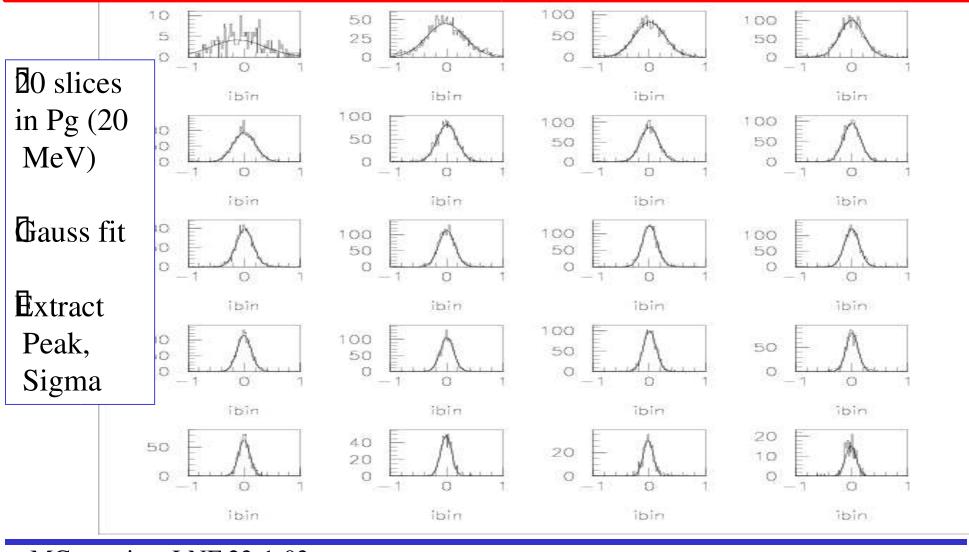
### Barrel-Endcap region (180:200 cm in RT)



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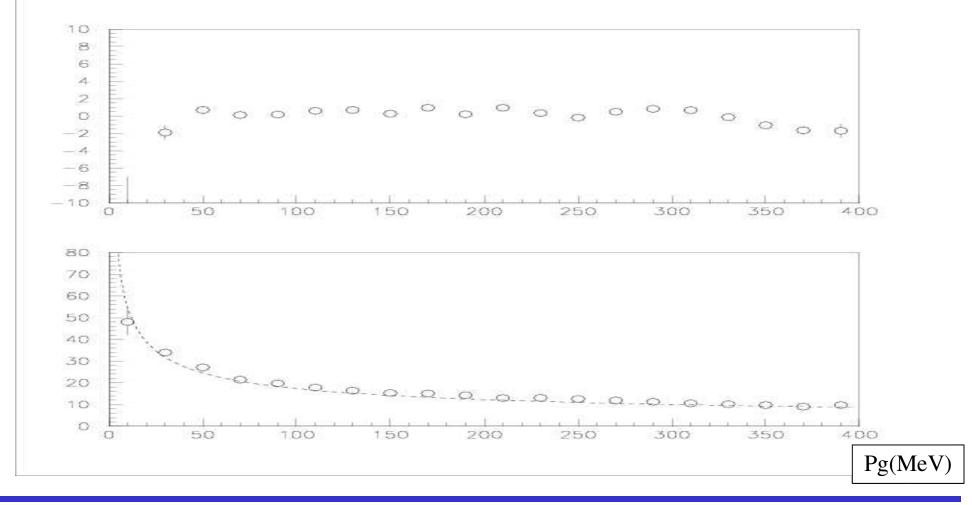
## First look to resolution on EndCap



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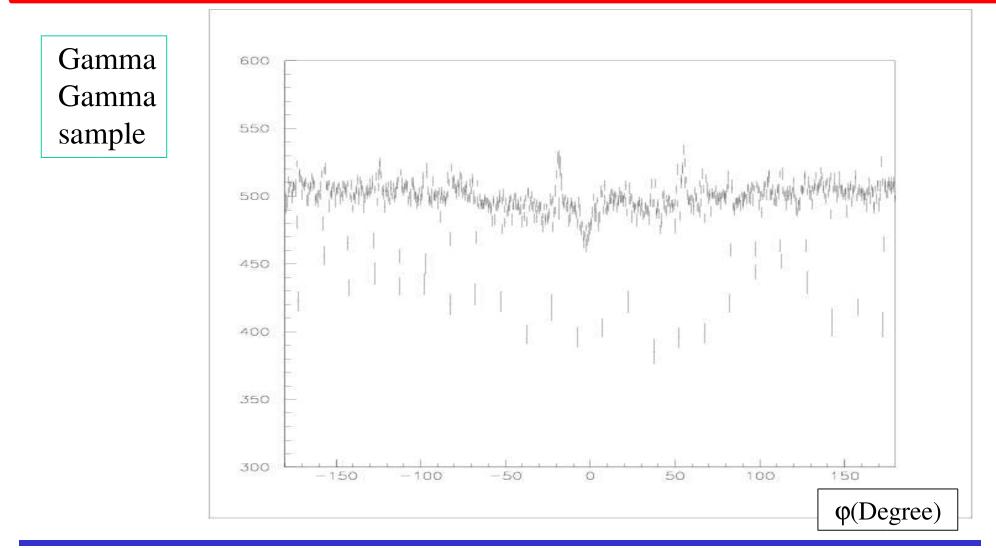
## Endcaps .. Diff lin and energy resolution



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#### Another look at holes ..



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# Status of SELBKG

A first skeleton of the AC module SELBKG exists: INIT routine to reads the weights from files done EV routine to filter gg sample:

- selection of golden clusters ok and tested.
- list of accidental clusters ok
- weighting routine in progress
- selection of CELE hits in progress no selection for DC hits

A version 0 of a running AC module expected for next week.

MC meeting LNF 23-1-03

S.Miscetti