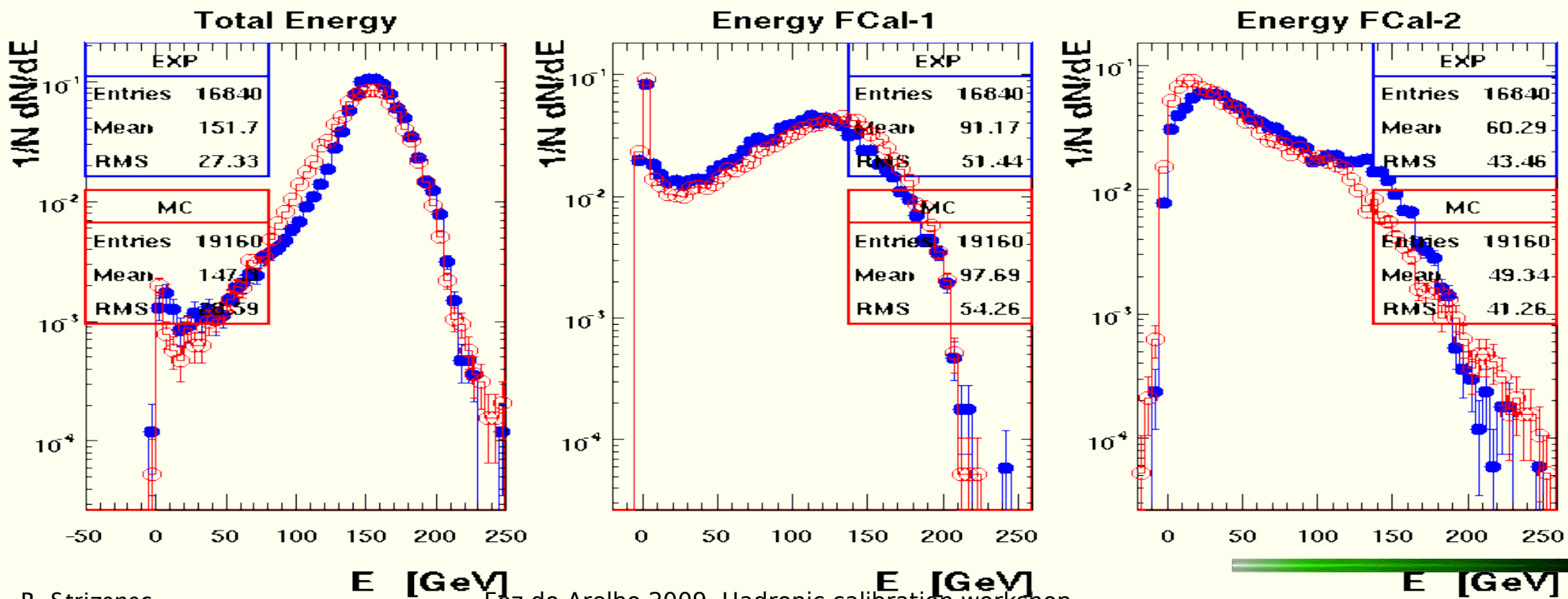


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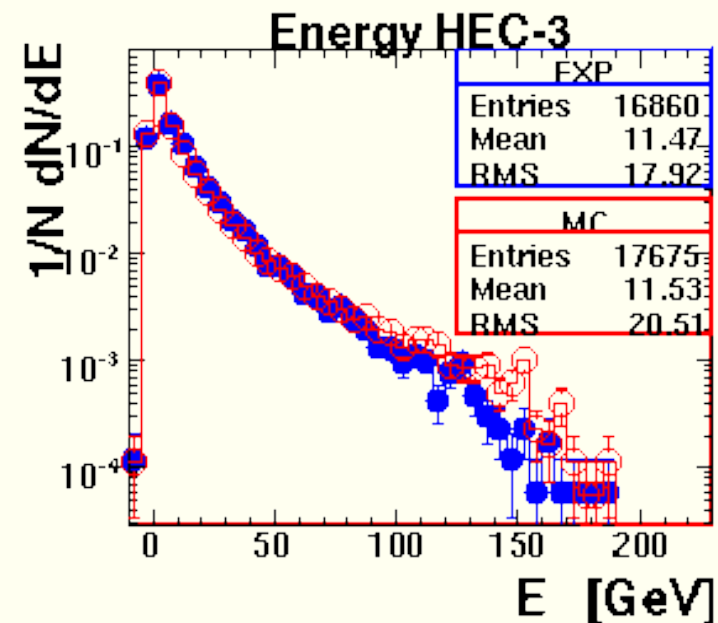
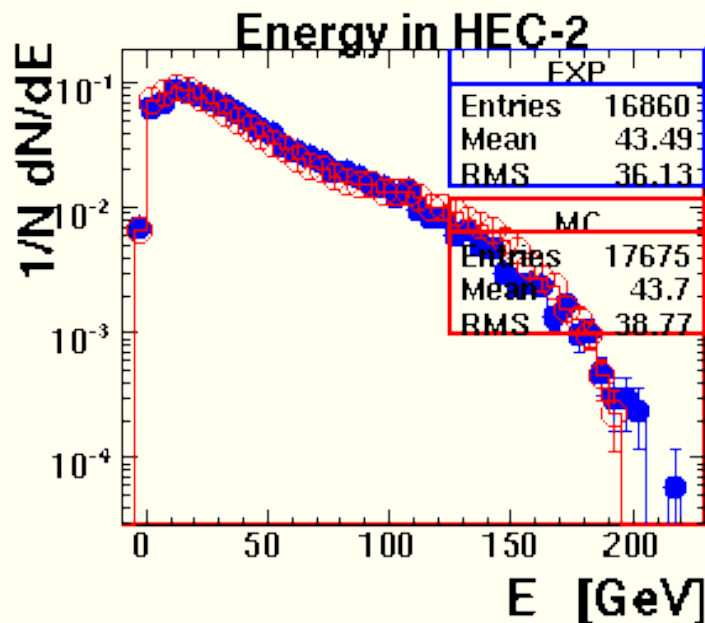
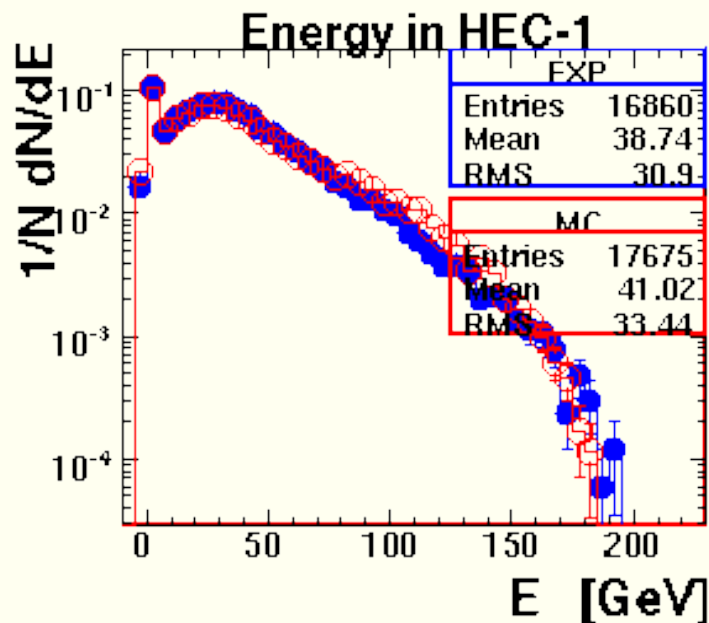
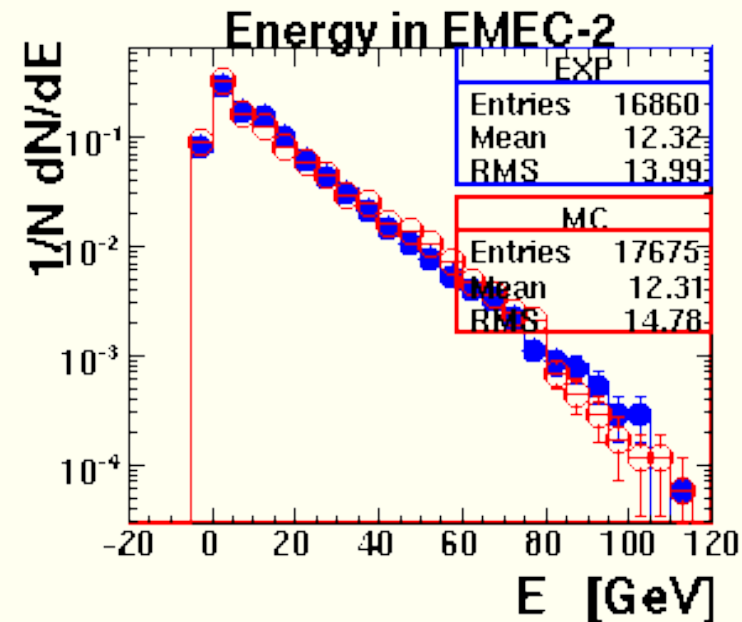
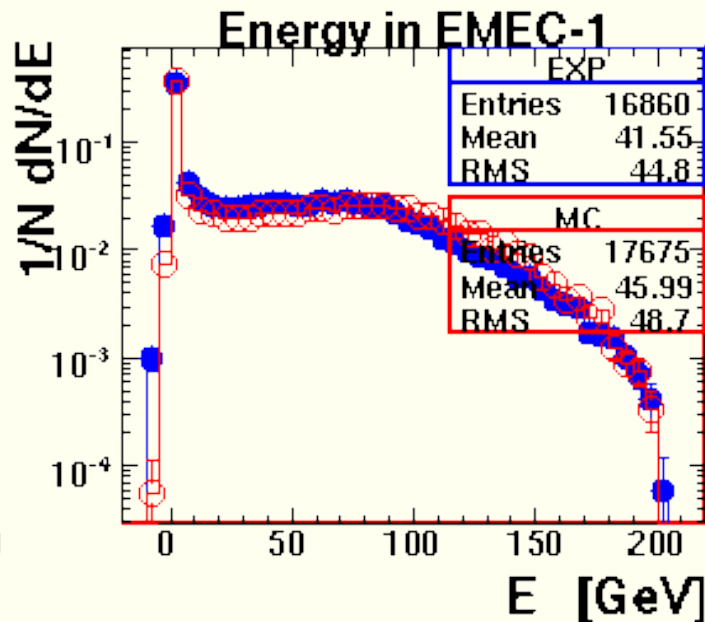
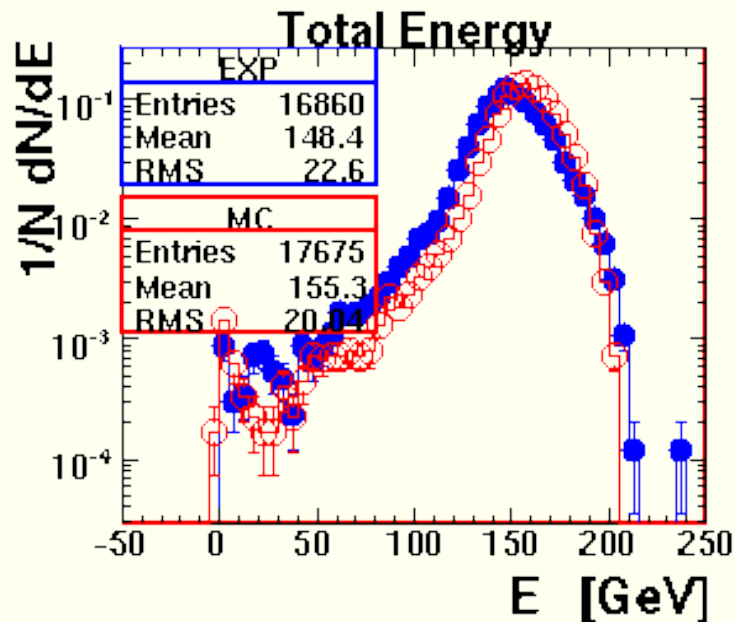
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- ◆ Data – MC comparison, rel. 15.0.0, G4 9.2.p00, QGSP_BERT, 200 GeV charged pions
- ◆ TopoClusters + LocalHadronCalibration used out of the box, with current ATLAS defaults
- ◆ Disclaimer – it's a fresh analysis, not everything finalized yet
- ◆ Still open – proper EM scale tuning (EMEC and FCAL use a scale obtained from cone analysis)
- ◆ Full blue symbols – data, open red – MC
- ◆ Point D is EMEC/HEC region, point H – FCAL region, energy on EM scale + some moments

Energy in Calorimeters in the Forward Region (Point H)

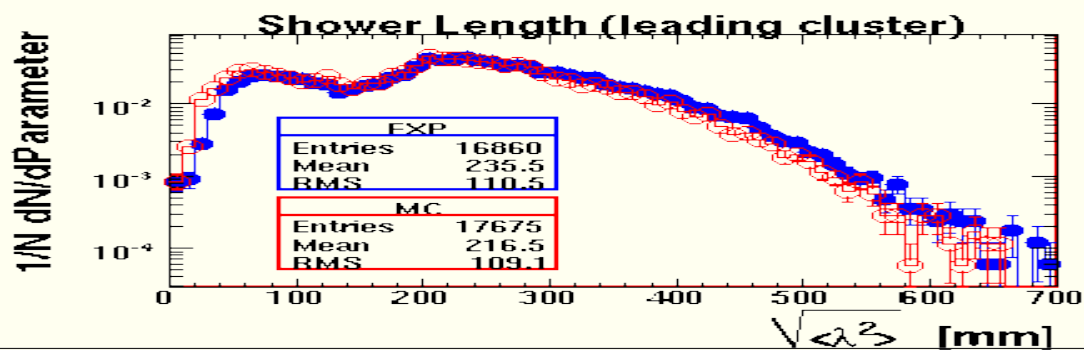
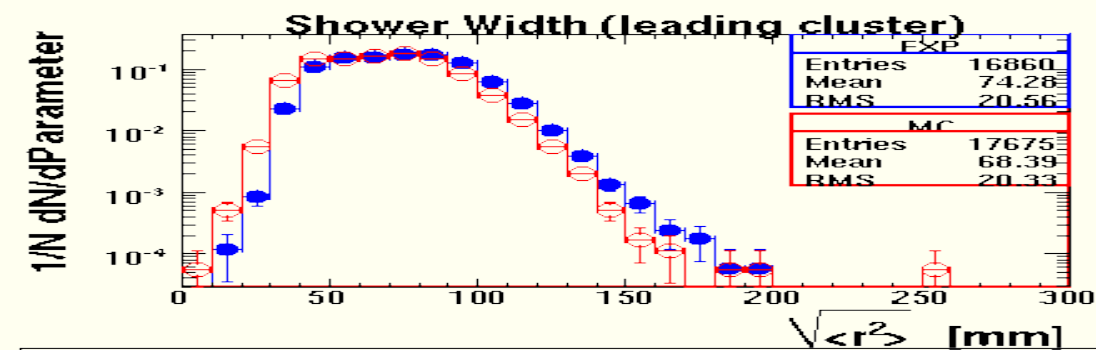
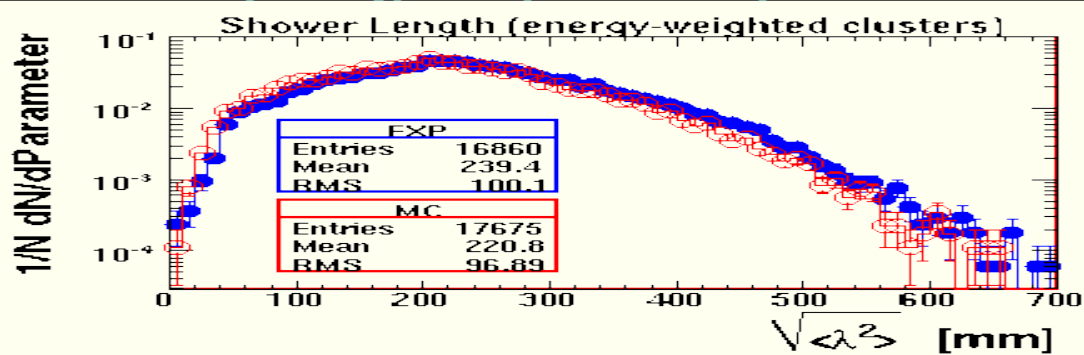
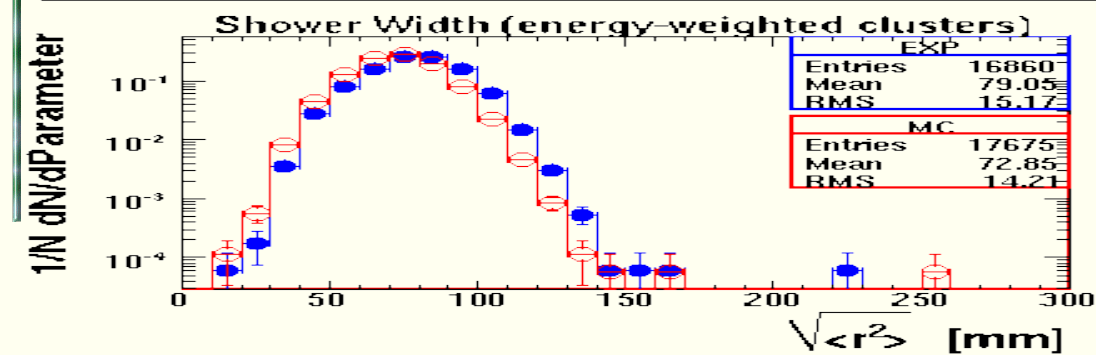


Energy in Calorimeters in the End-Cap Region (Point D)

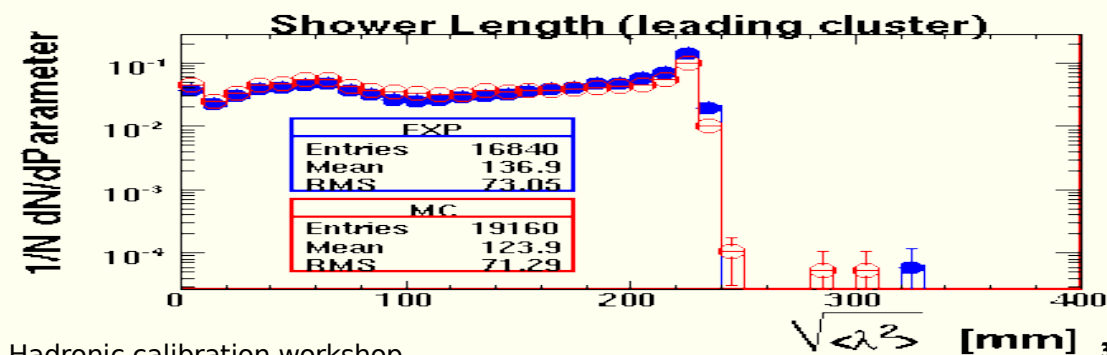
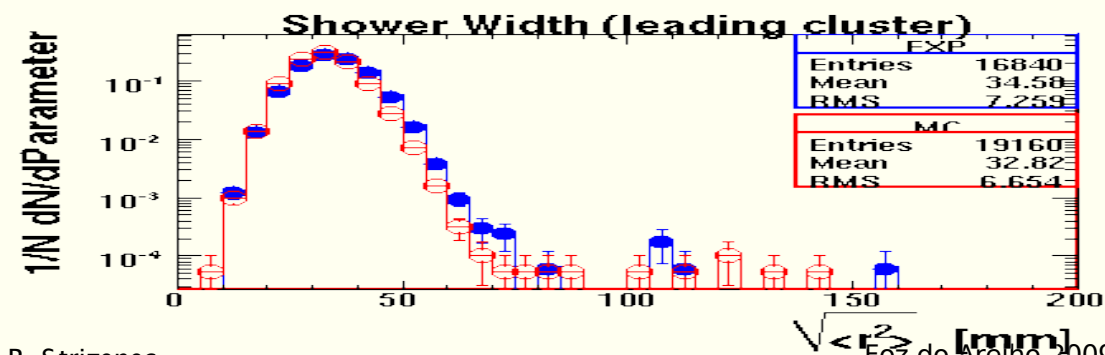
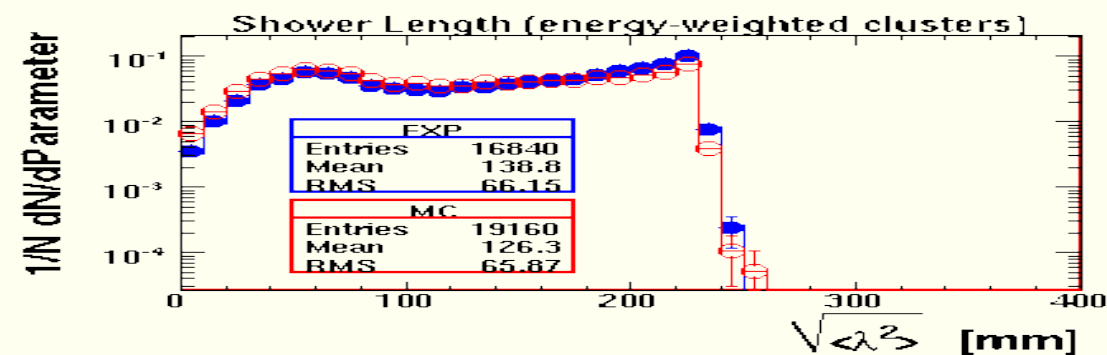
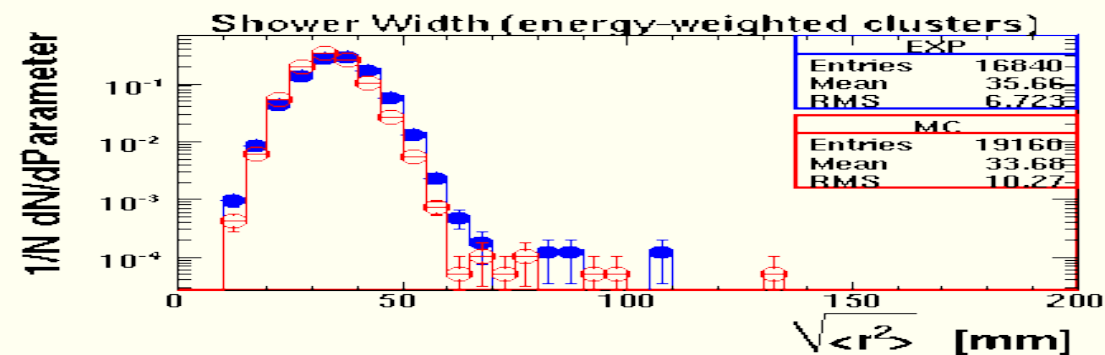


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Cluster Parameters for the End-Cap Region (Point D)

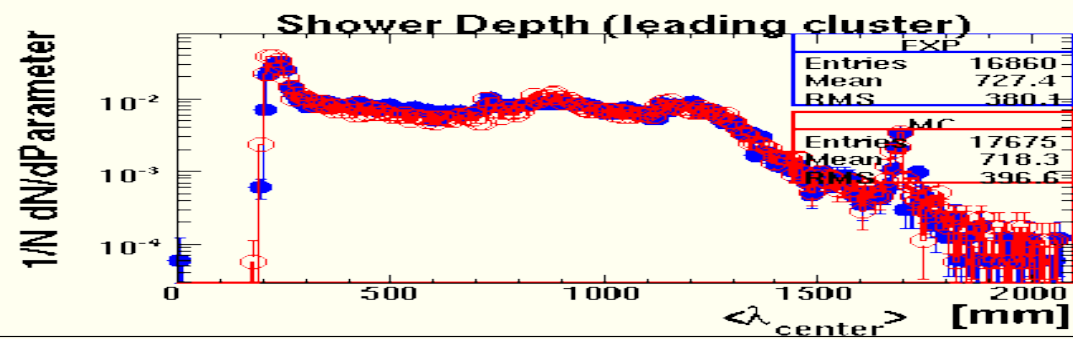
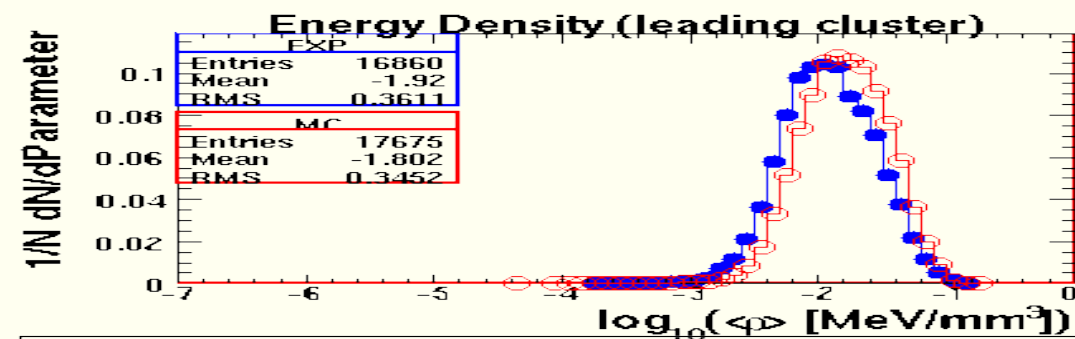
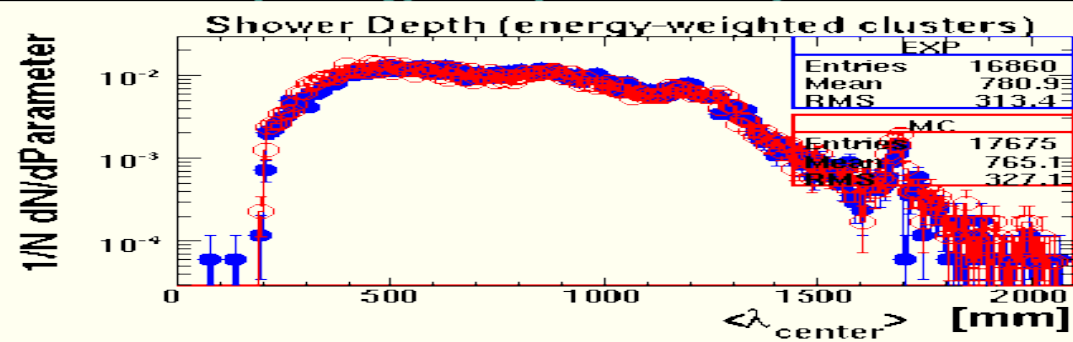
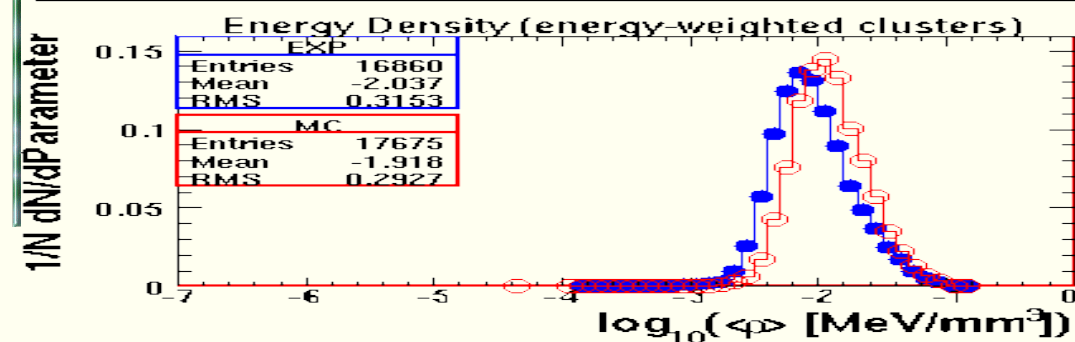


Cluster Parameters for the Forward Region (Point H)

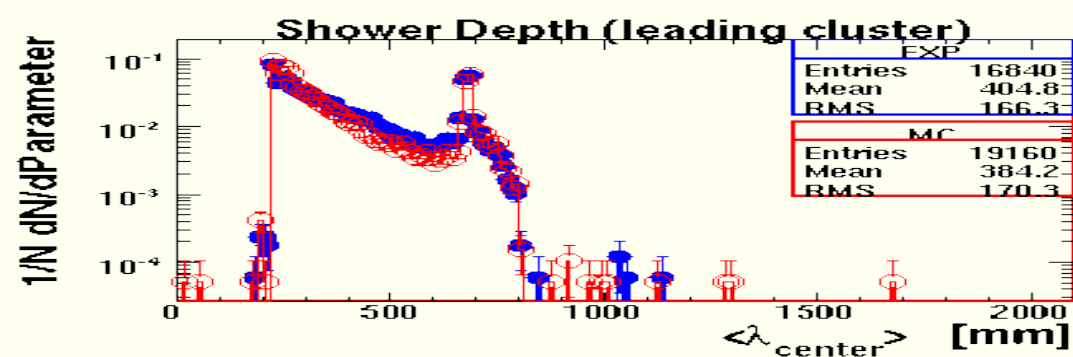
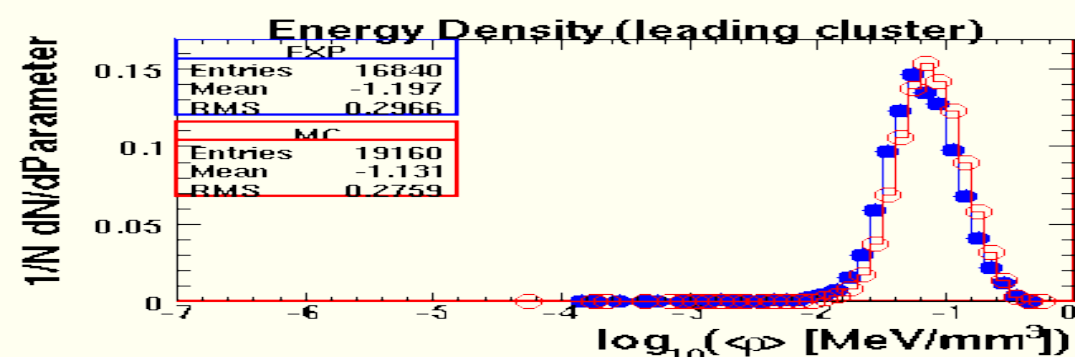
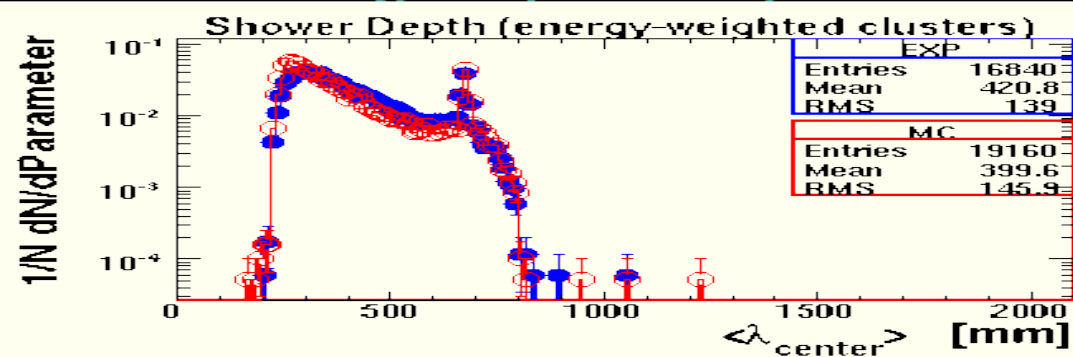
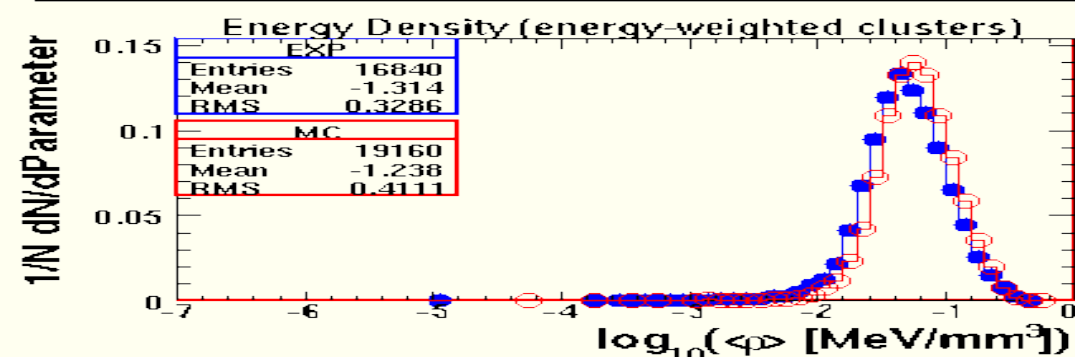


H6 CTB2004 TB results

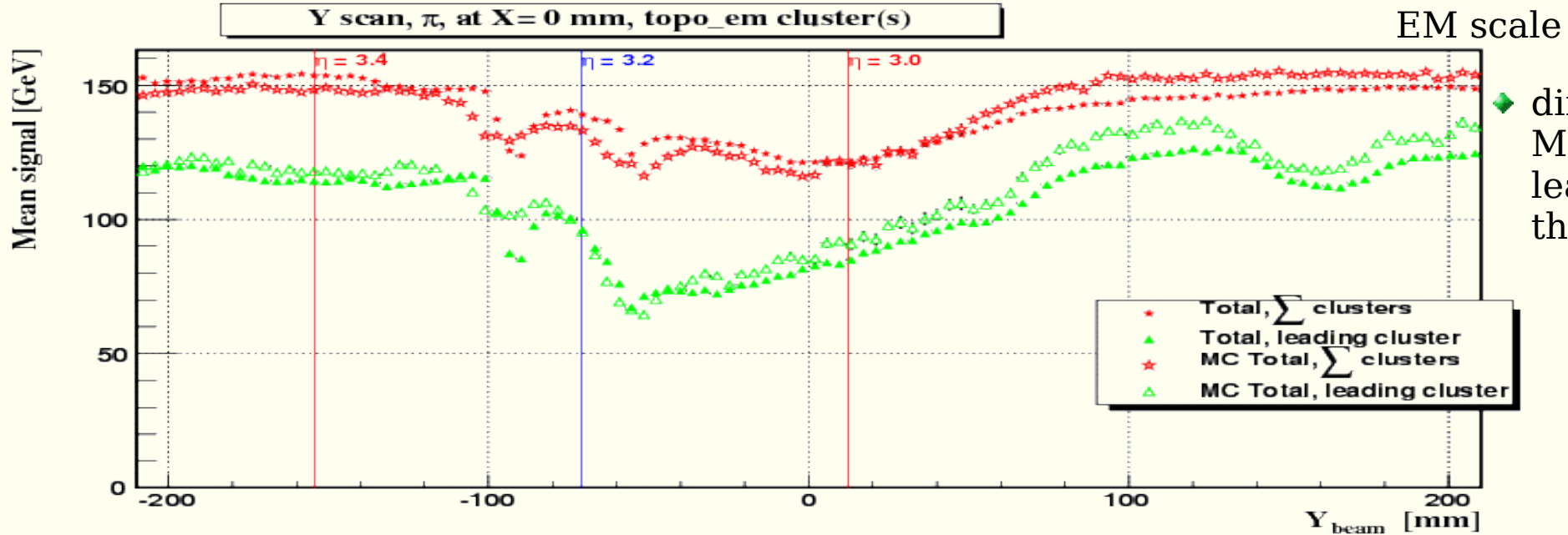
Cluster Parameters for the End-Cap Region (Point D)



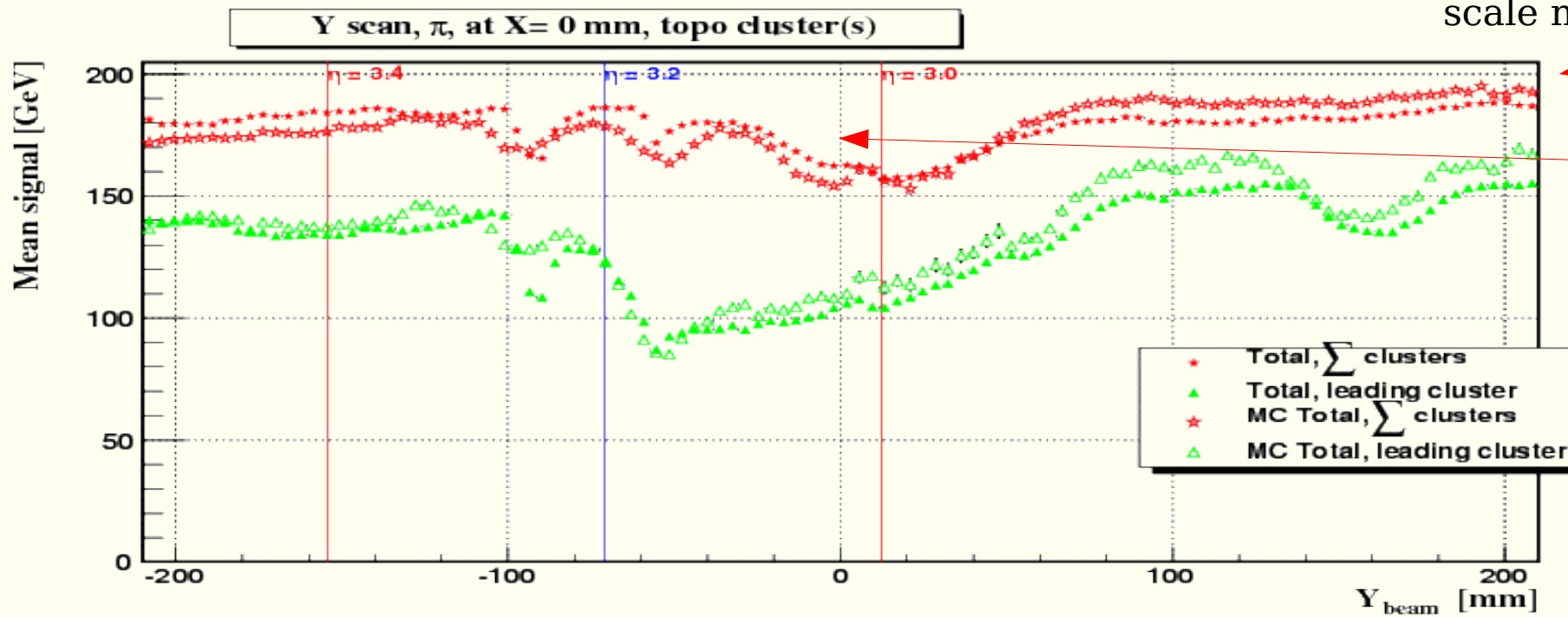
Cluster Parameters for the Forward Region (Point H)



H6 CTB2004 TB results



◆ difference data-MC higher in leading cluster than in sum



scale not recovered fully

crack as well

H6 CTB2004 TB results

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◆ Conclusions:

- ◆ energy spectra and moments quite nice described outside crack, we see a “standard feature” of QGSP_BERT – slightly denser shower, which starts earlier in calo (for full set of eta-dependence of moments see backup slides in agenda)
- ◆ some recovery of missing energy in crack after weighting for charged pions, but some problems with electrons (again see backup)
- ◆ the detailed behaviour of all cluster moments not fully understood, but most features well reproduced by MC, specially the lateral size and
- ◆ OOC and DM corrections needs to be redone for TB setup – clearly the ATLAS one are not appropriate here (different leakage, DM,