

Introduction

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- Just a few thoughts to trigger discussion about future plans.

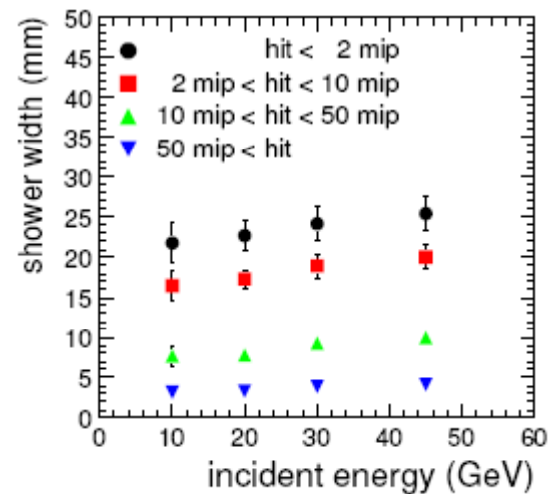
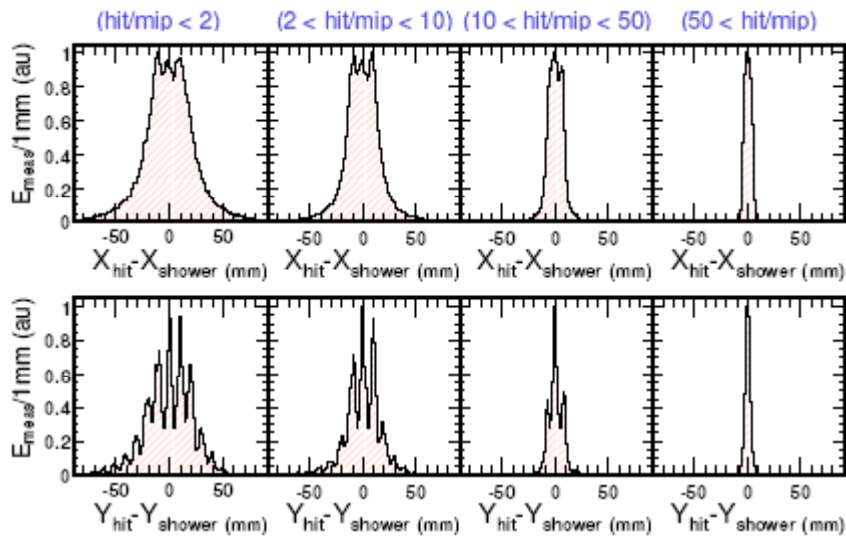
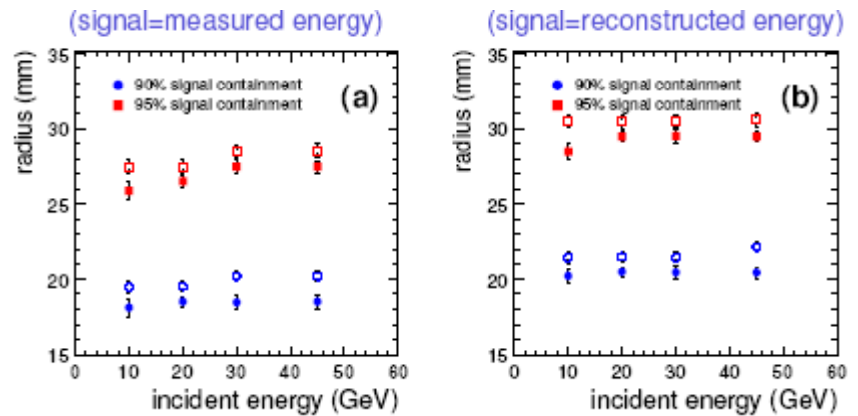
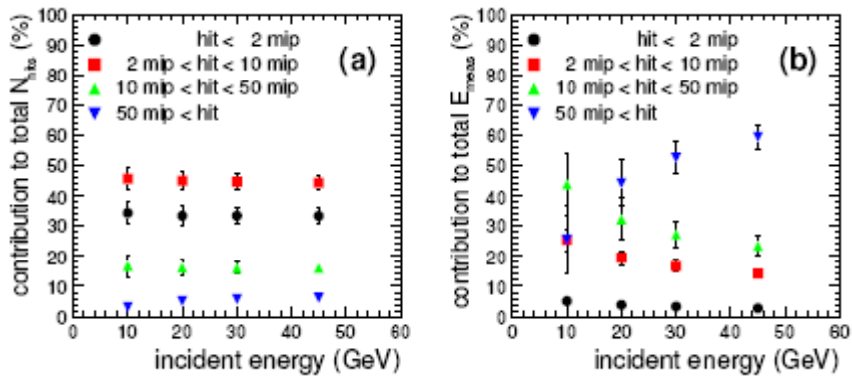
Potential ECAL-based analyses

- ❖ Use of 2007 and 2008 e^\pm data
 - ❖ Stability of energy response and resolution?
 - ❖ But issues about calibration/trigger hold values
 - ❖ Low energy electrons at FNAL. Event selection needs careful study.
 - ❖ Need for MC digitisation code (especially to handle dead cells)
- ❖ Use of clustering code (GARLIC – M.Reinhard, JCB)
- ❖ Spatial Uniformity, edge effects and gaps
 - ❖ Use 2007 scan data. c.f. Monte Carlo.
- ❖ Response as a function of beam angle
 - ❖ Needs control over gap corrections.
- ❖ Two photon separation
 - ❖ Superpose pairs of events + run GARLIC or PandoraPFA?

Potential ECAL-based analyses

- ❖ Spatial and angular resolution
 - ❖ Needs tracking – currently largely uncovered.
- ❖ Pion showers in ECAL compared with models
 - ❖ Exploit fine granularity of ECAL
 - ❖ Need to liaise/compare with AHCAL work
 - ❖ Work already from T.Goto + Ph.Doublet
- ❖ e/π separation
 - ❖ Using ECAL alone (energy, shower shape); +HCAL?
- ❖ Shower shape studies
 - ❖ Existing work from G.Mavromanolakis, V.Bartsch based on 2006 data needs to be finalised and published.
- ❖ More general question – should we be doing combined analyses of ECAL/AHCAL/TCMT, rather than ECAL alone?

Transverse studies (GM)



Longitudinal studies (VB)

