

Weekly progress report

Sona Pochybova
2011/10/04

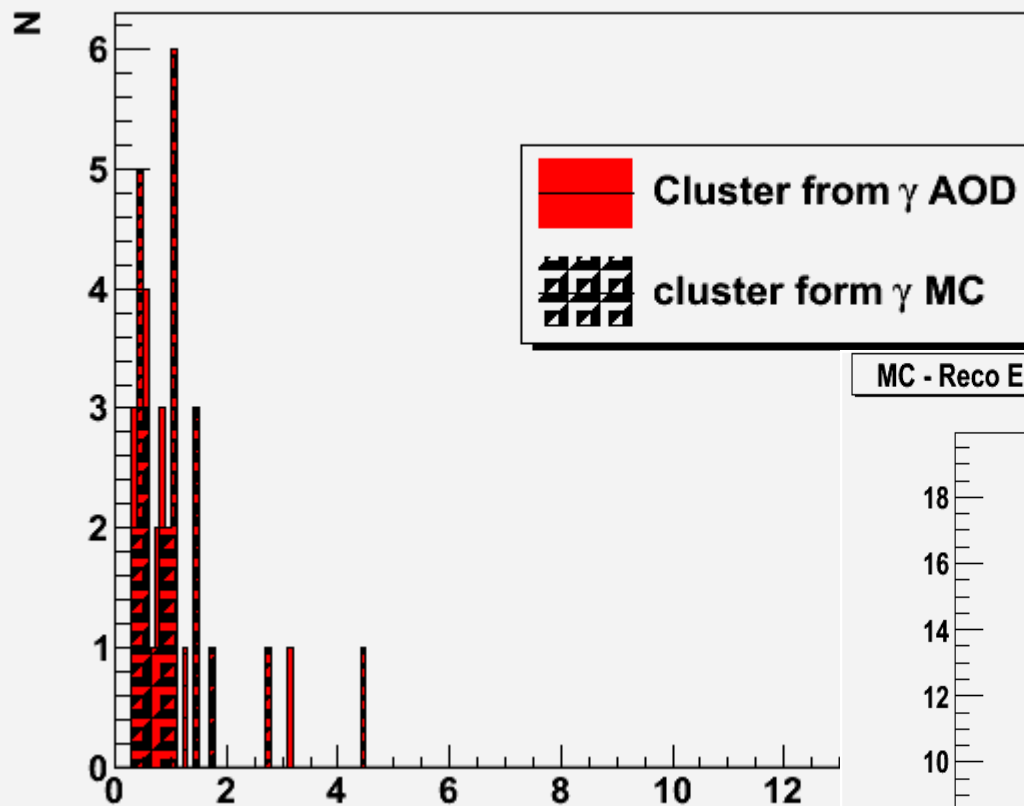
What was done

- Learnt to work within a framework
- Some problems
 - Only possible to work with PHOS
 - Not possible to do Pi^0 invariant mass analytically
 - Could not run on GRID
- But, managed to run locally on small sample, just to test the framework
- Data sample: LHC08d9, 200 Events

Some plots

Number of γ over calorimeter vs energy

AnaPhotonCorr_hEPhoton	
Entries	34
Mean	1.061
RMS	0.8478

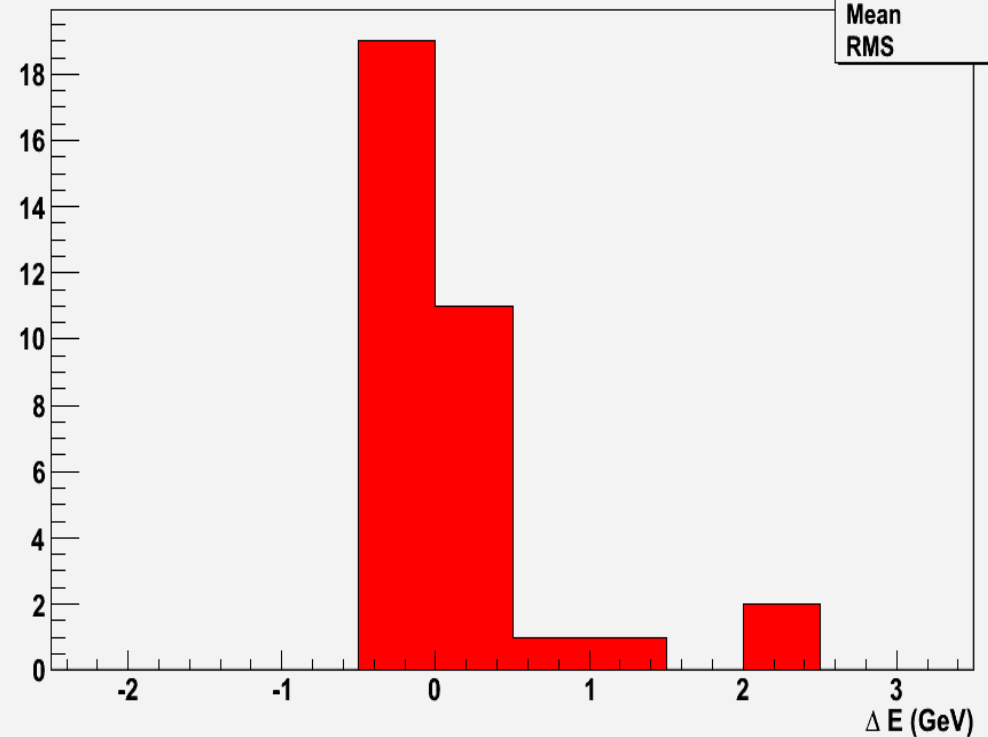


Prompt photon candidates as compared to photons from MC

34 candidates

MC - Reco E

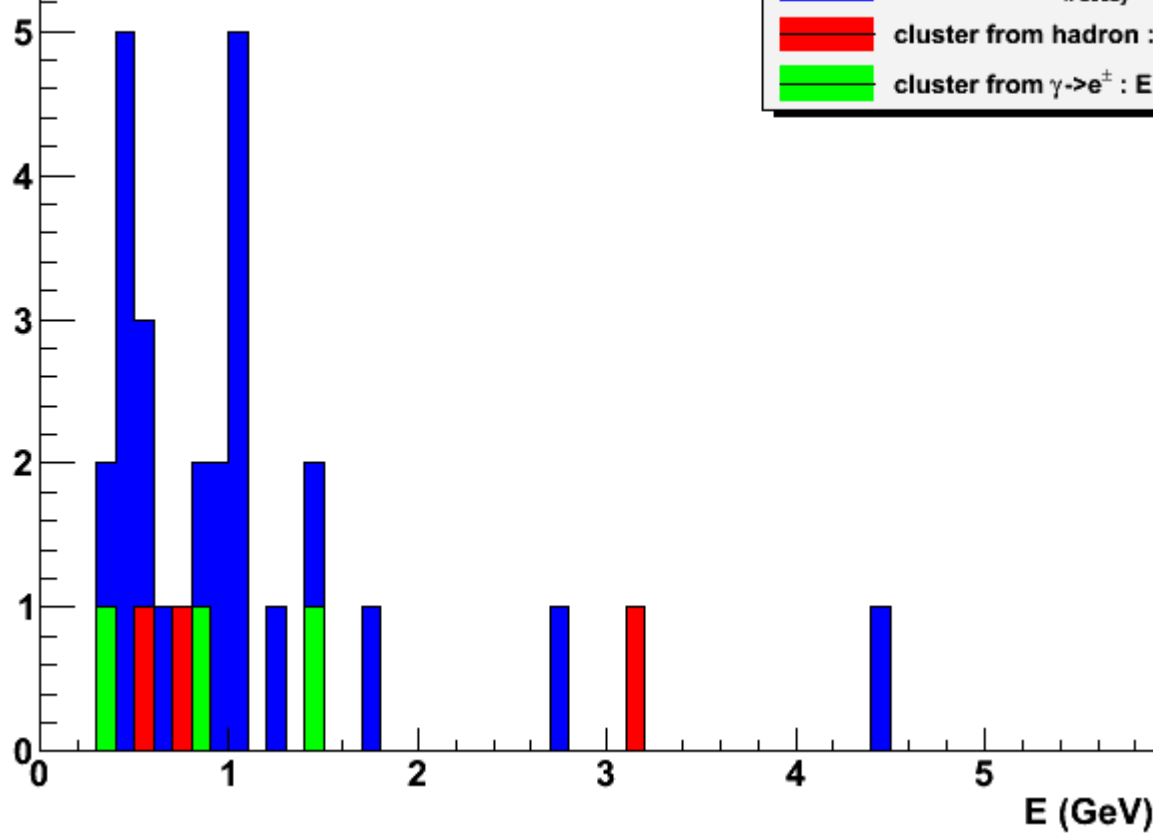
AnaPhotonCorr_hDeltaE	
Entries	34
Mean	0.1324
RMS	0.6308



cluster from $\gamma_{\pi \text{ decay}}$: E

Contribution from ind. channels

- cluster from $\gamma_{\pi \text{ decay}}$: E
- cluster from hadron : E
- cluster from $\gamma \rightarrow e^{\pm}$: E



Low statistics, no prompt photon in MC

--- AliIsolationCut ---

fConeSize: (isolation cone size) 0.40

fPtThreshold =0.70 (isolation pt threshold)

fPtFraction=0.10 (isolation pt threshold fraction)

fPartInCone=2

Selected 12 out of 34 candidates

