

... Reconstruction ...

E. cuautle

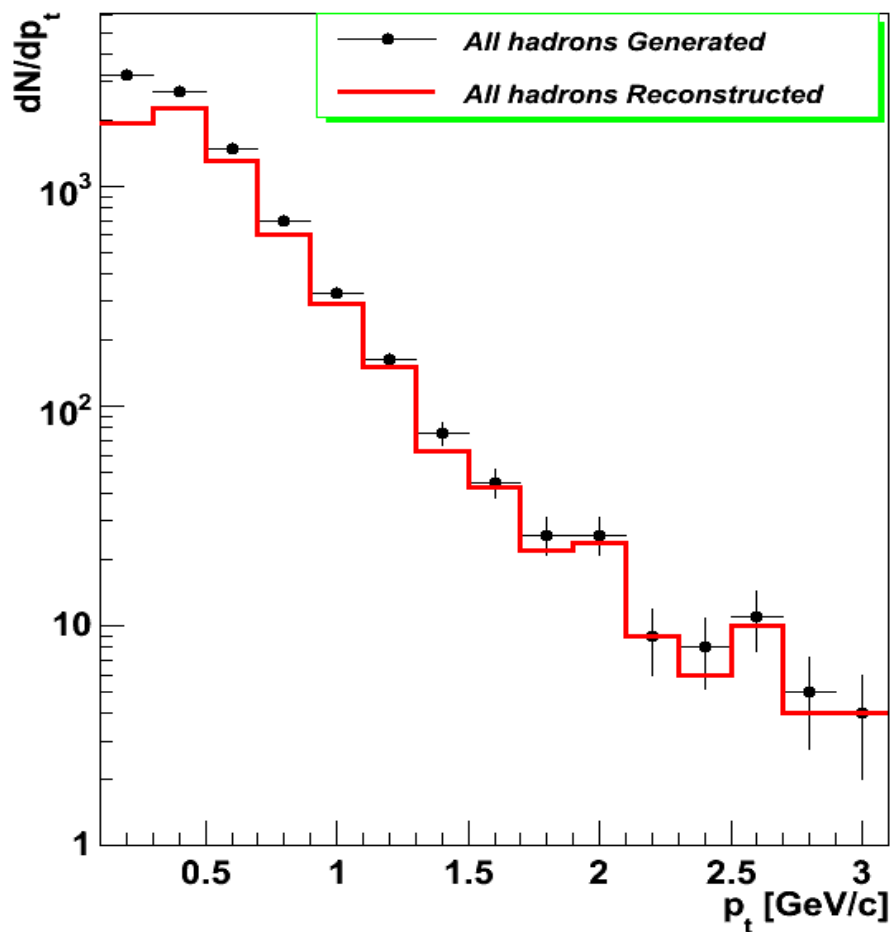
FIPAEN seminar, February 15 2007

Reconstructed and simulated

Sample of 1800 pp events

DETECTORS: ITS, TPC, TRD, TOF, RICH, PHOS, START, FMD, PMD, VZERO EMCAL

hadrons: e^- , π , μ , K, p, Λ , Σ , Ξ

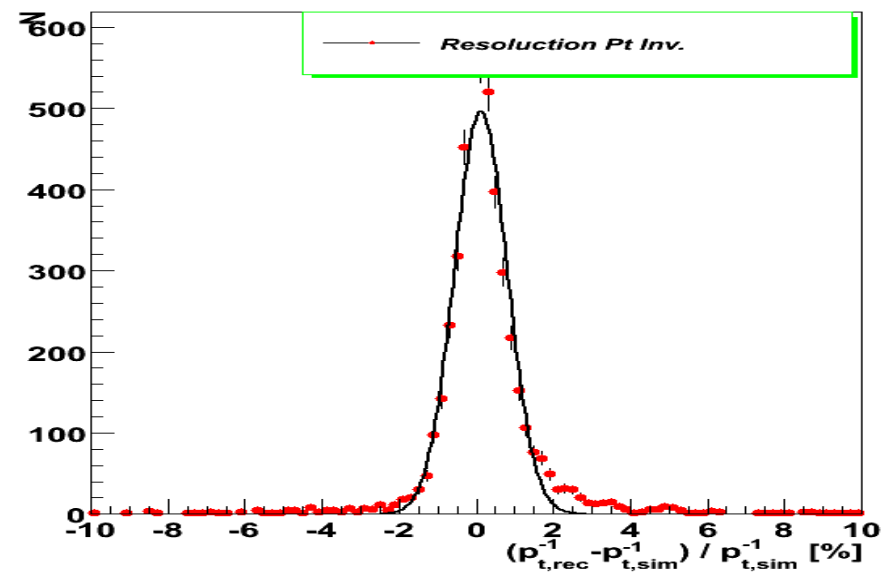
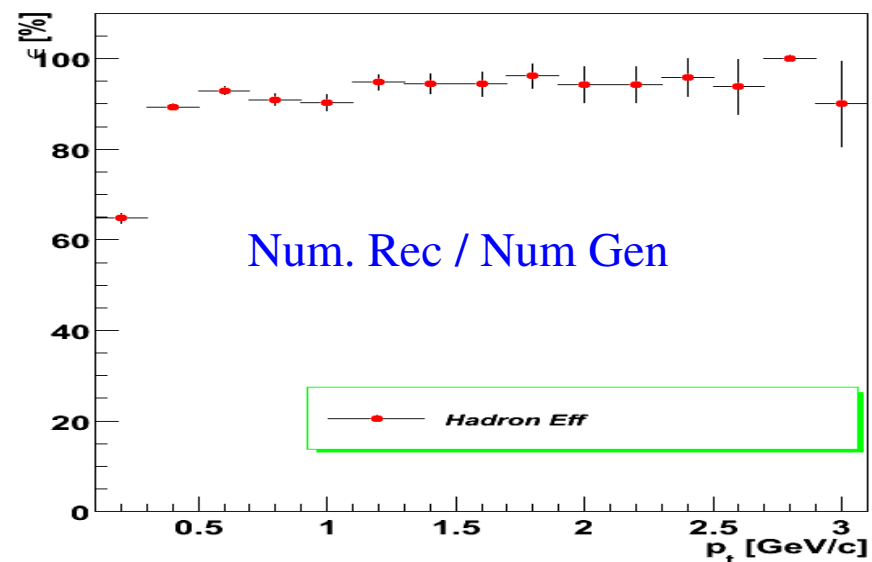
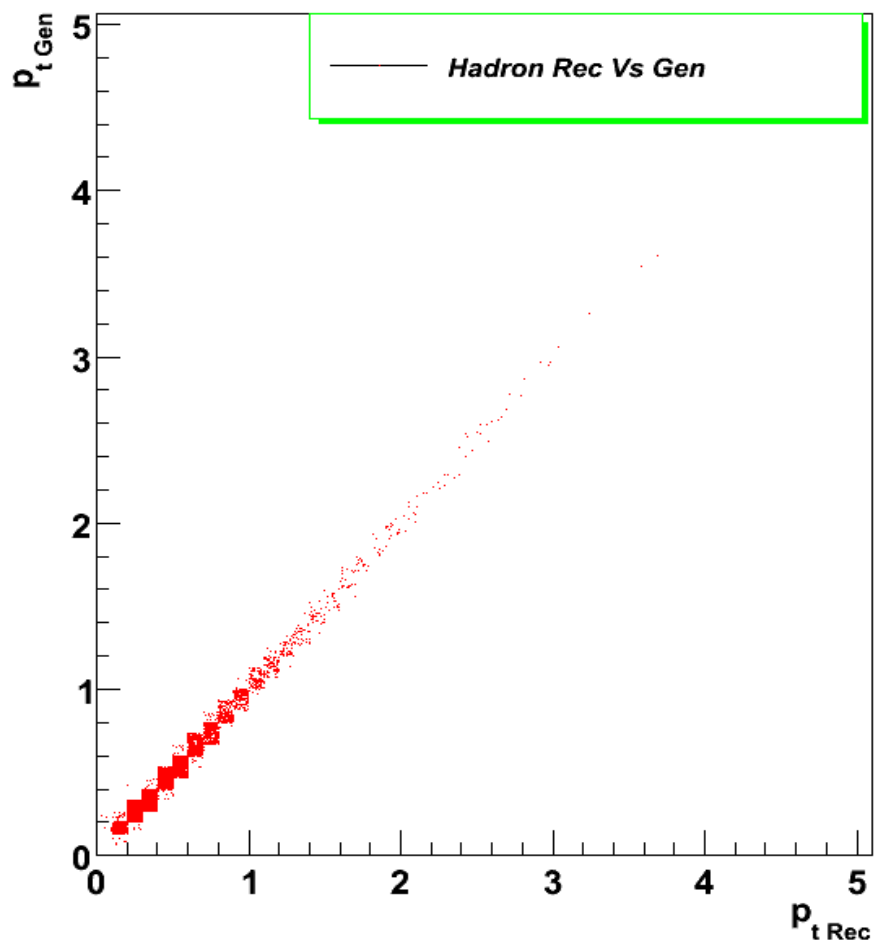


Preliminary cuts on tracks

```
trackCuts->SetMinNClustersTPC(50);  
trackCuts->SetMaxChi2PerClusterTPC(3.5);  
trackCuts->SetMaxCovDiagonalElements(2,2,0.5,0.5,2);  
trackCuts->SetRequireTPCRefit(kTRUE);  
trackCuts->SetMinNsigmaToVertex(3);  
trackCuts->SetAcceptKingDaughters(kFALSE);  
trackCuts->SetPRange(0.3);
```

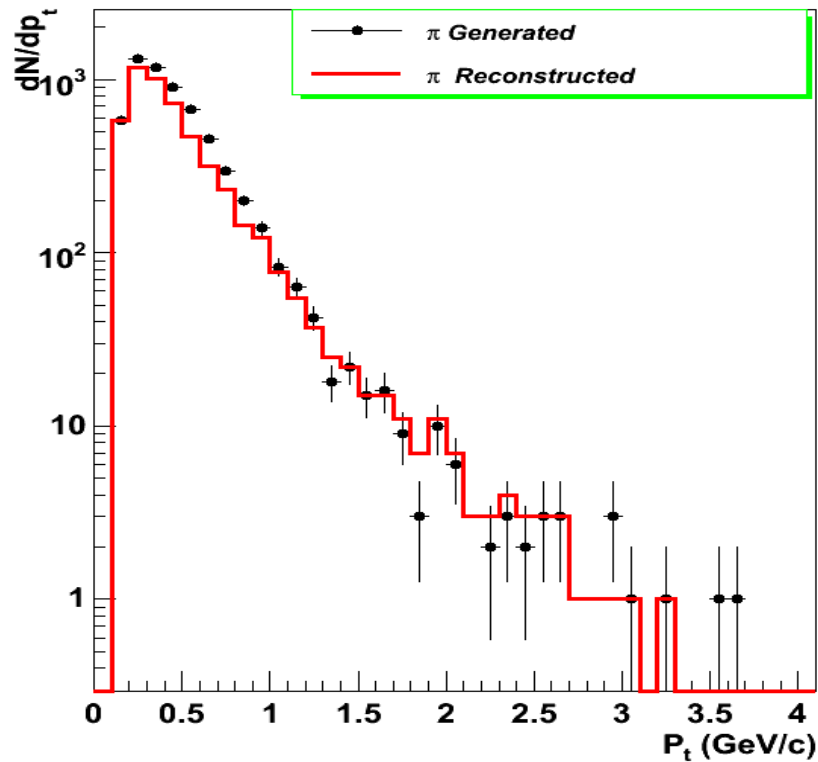
Problems at low P_t ?

Efficiency on the reconstruction

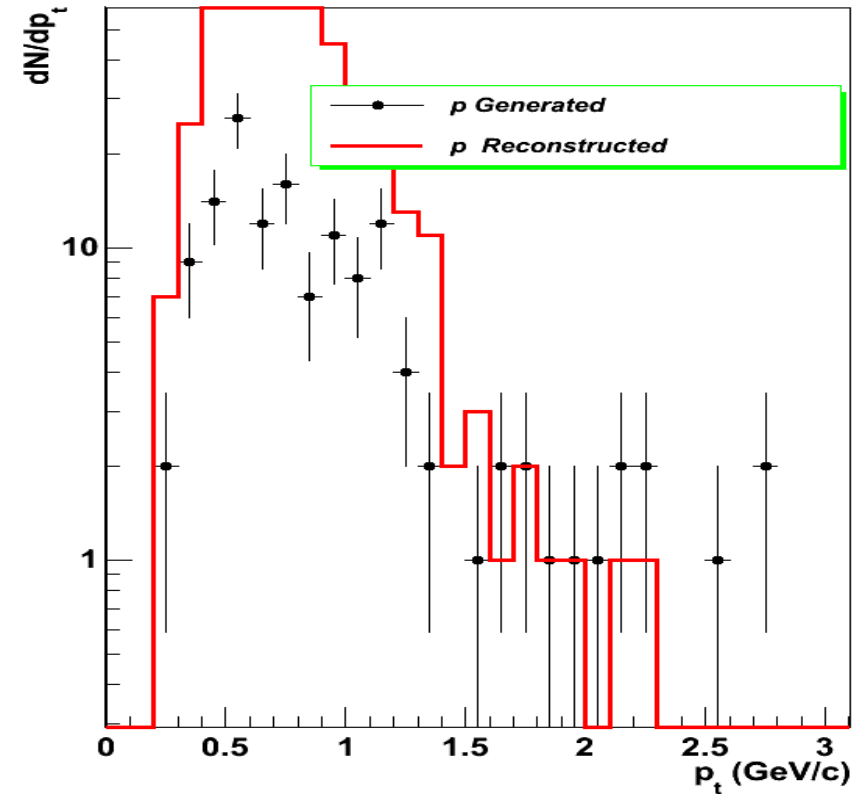


Reconstruction by species

Pions



Protons



So many question to answer!

- efficiency by detector

- optimum cuts on:

 - clustering,

 - vertexing,

 - range on p_t ,

 - error matrix

ALICE pp @ 200 and 900 GeV

