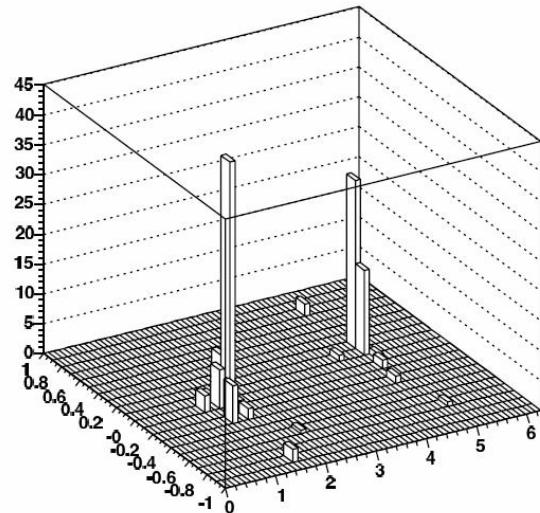


First analysis of Jets from p-p collisions at LHC $\sqrt{s} = 14$ TeV.



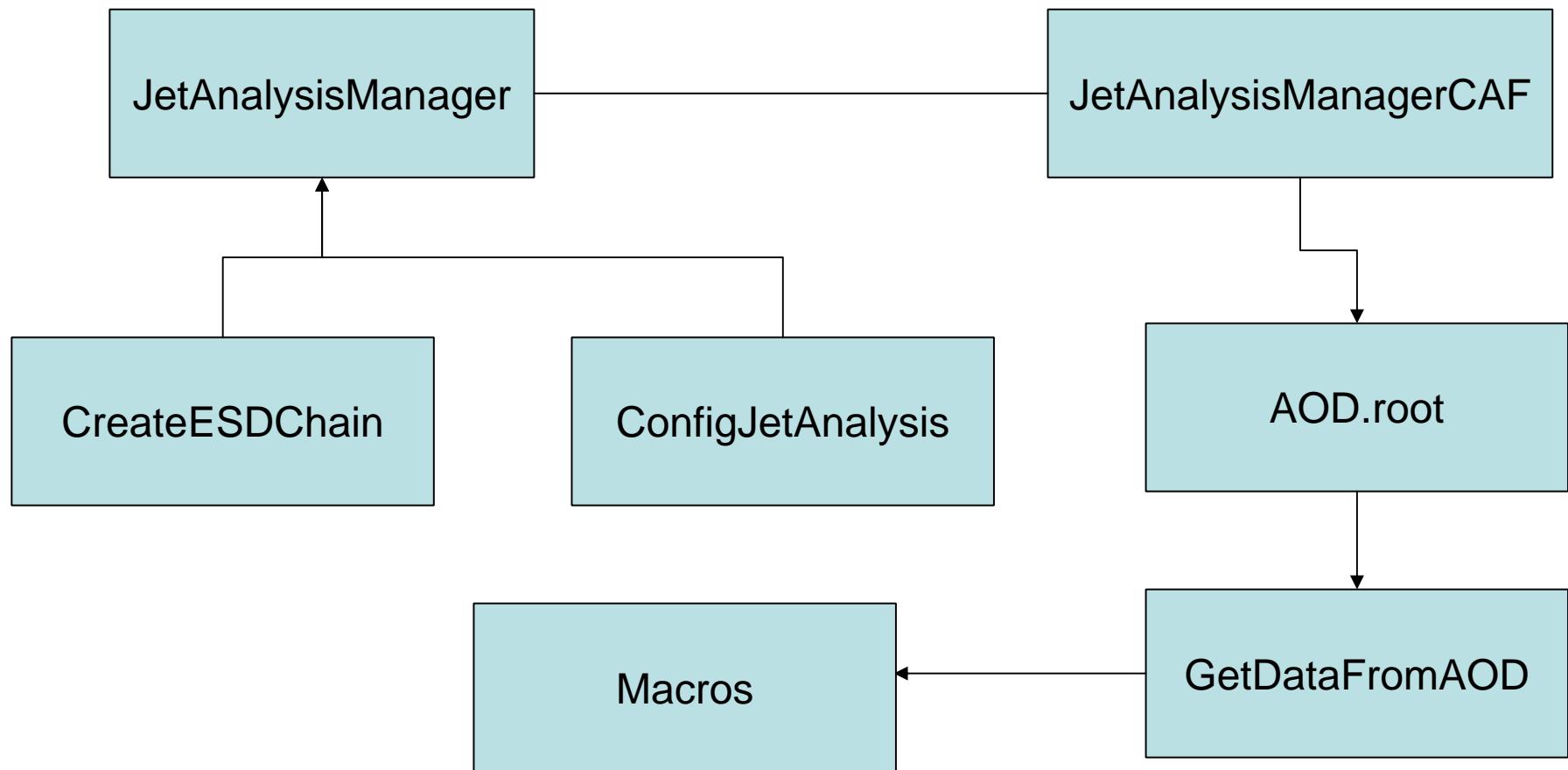
Leonid Serkin
(HELEN-ICN)

2x10⁶ events produced during the Physics Data Challenge 06

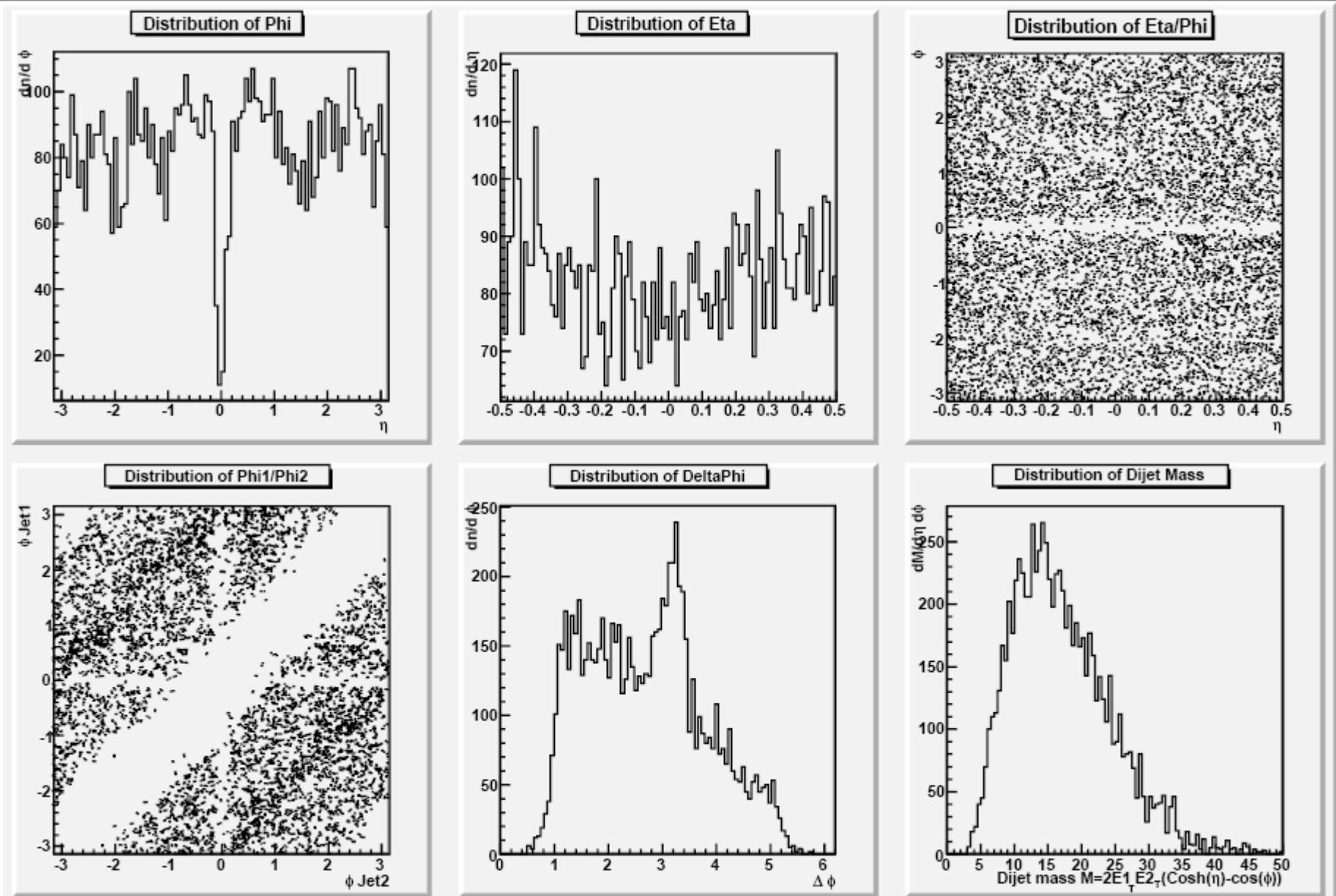
Minimum bias events

- Inelastic hadron-hadron events selected with an experiment's **“minimum bias trigger”**.
- Usually associated with inelastic non-single-diffractive events
- Need minimum bias data if want to:
 - 1) Study general characteristics of proton-proton interactions
 - 2) Investigate multi-parton interactions and the structure of the proton etc.
 - 3) Understand the underlying event: impact on physics analyses?

Jet Reconstruction using Analysis Object Data

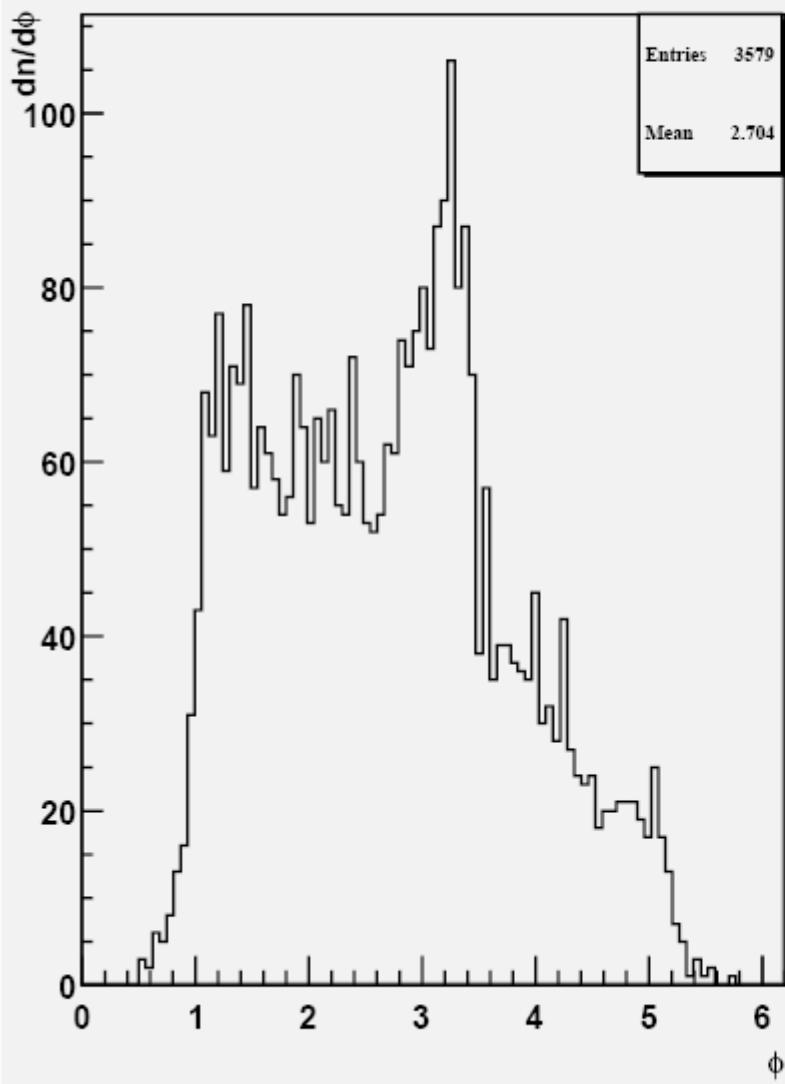


First results using CAF data

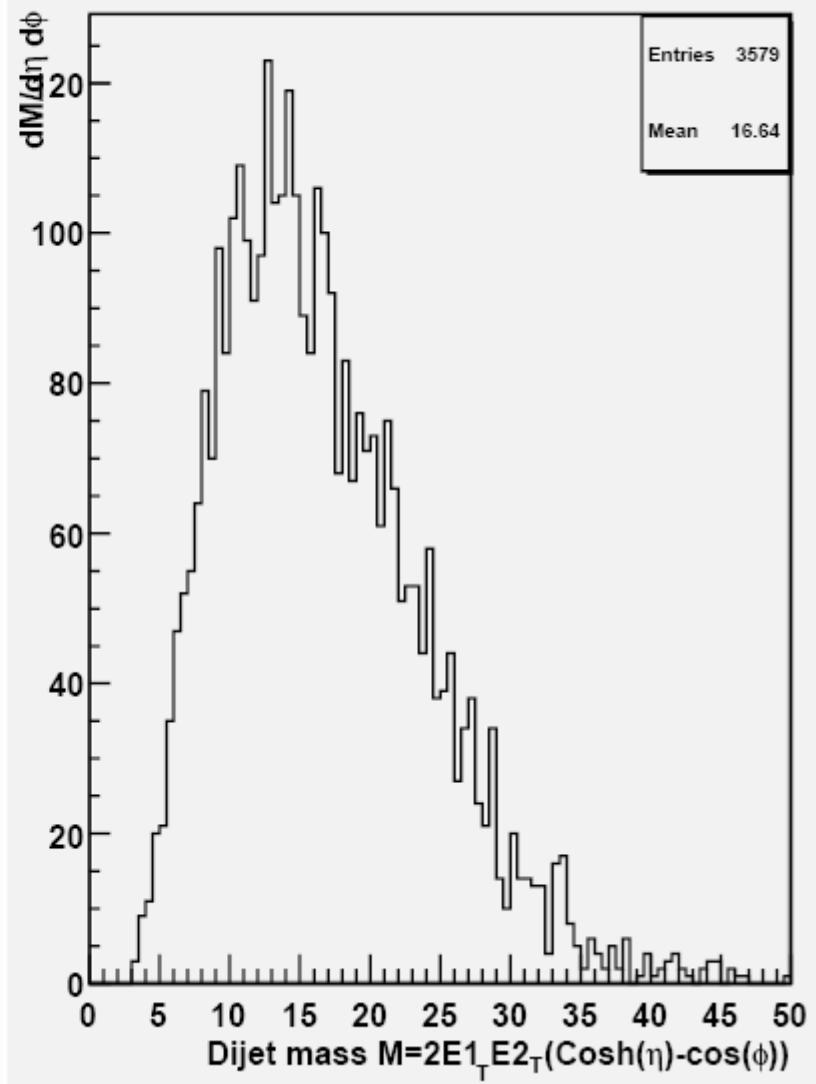


Distribution of Delta Phi

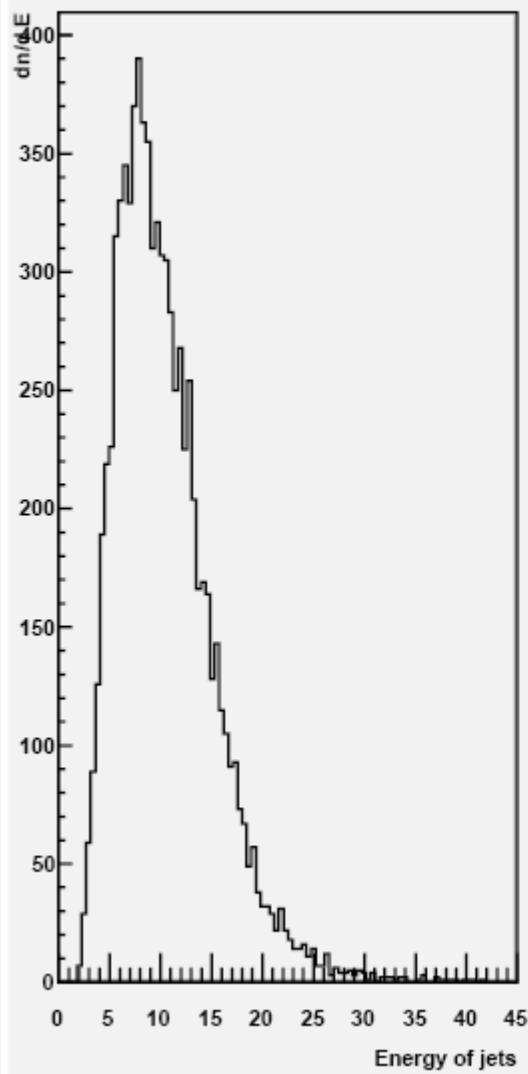
Distribution of DeltaPhi



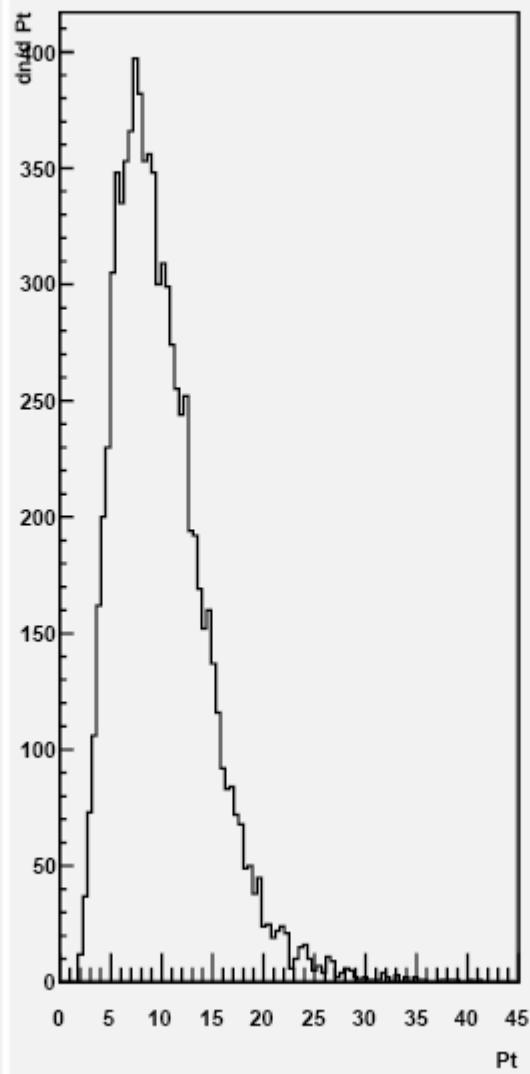
Distribution of Dijet Mass



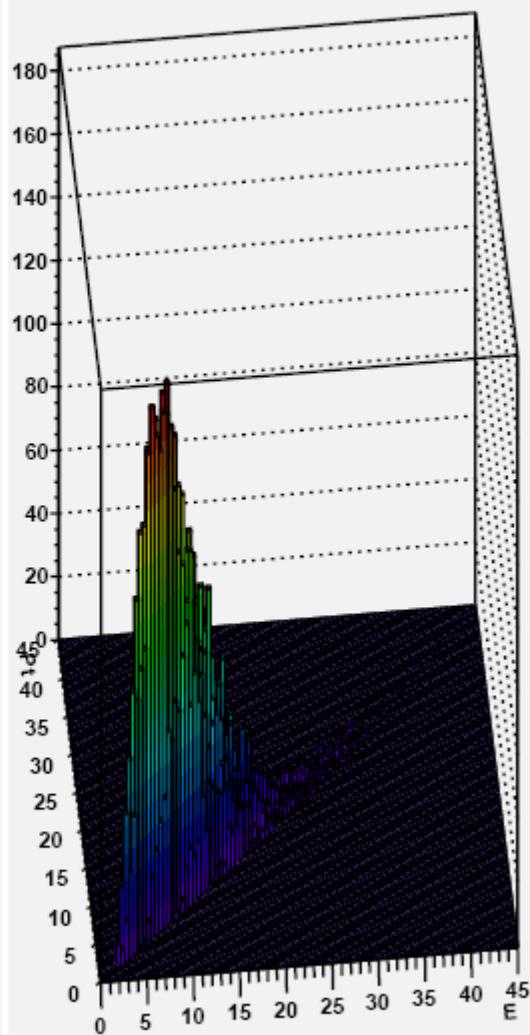
Distribution of Energy



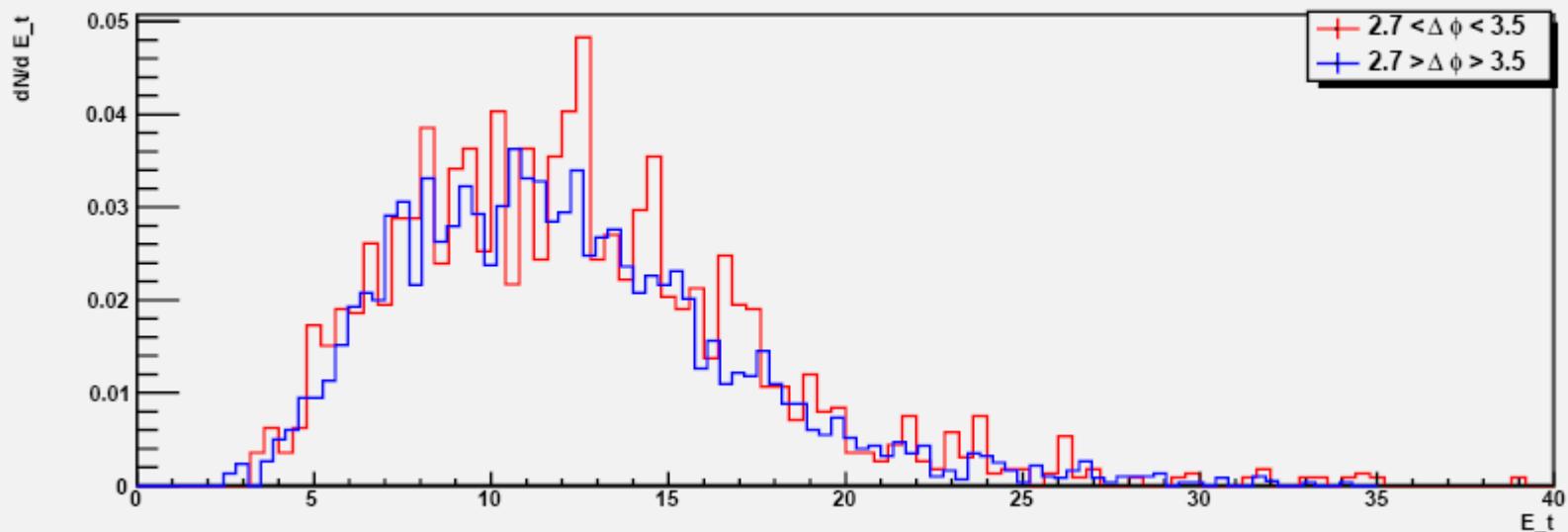
Distribution of Pt



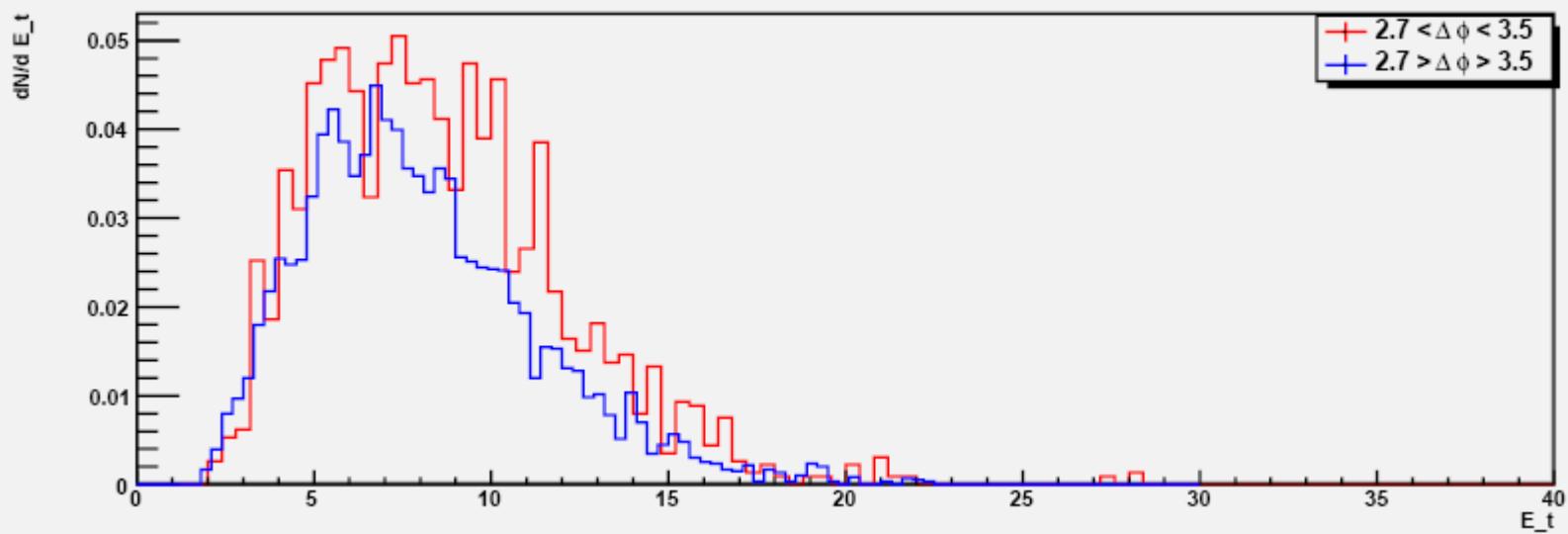
Distribution of E/Pt



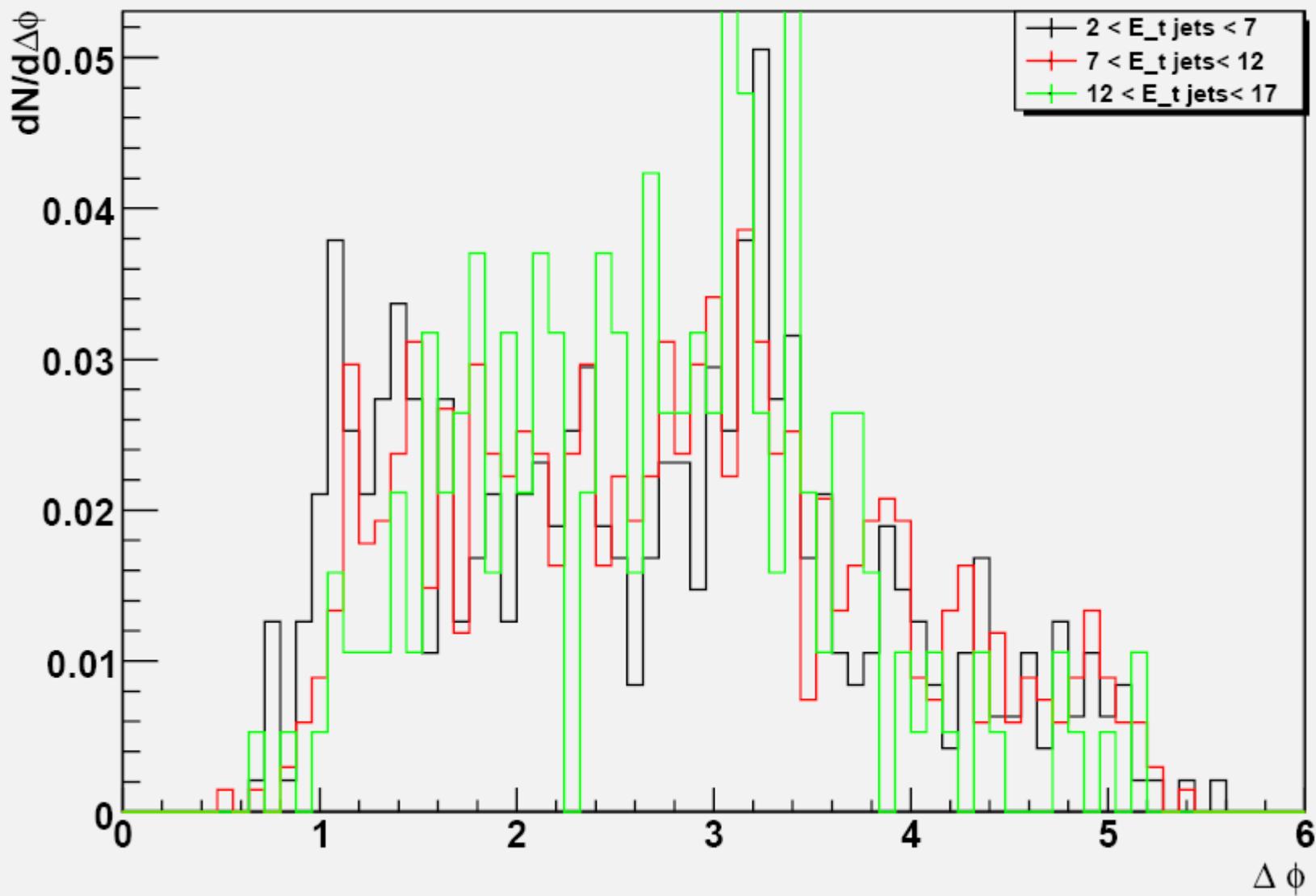
Normalized distribution of E_t of Jet 1



Normalized distribution of E_t of Jet 2



Normalized distribution of DPhi for different E_t energies of jets



To do:

- *More statistics*
- *Expected back-to-back correlations*
- *Transverse momentum correlations for jets*