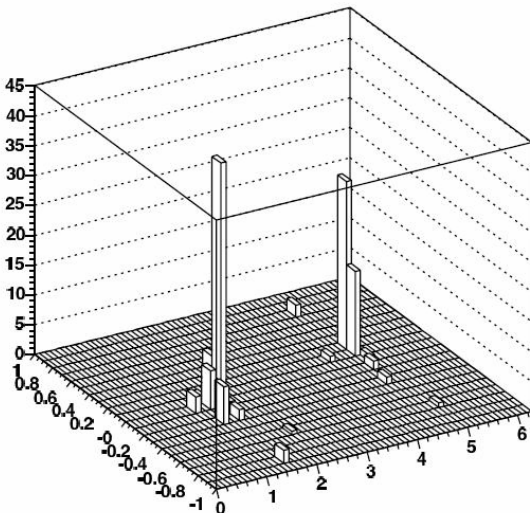


First analysis of Jets from p-p collisions at LHC $\sqrt{s} = 14$ TeV.

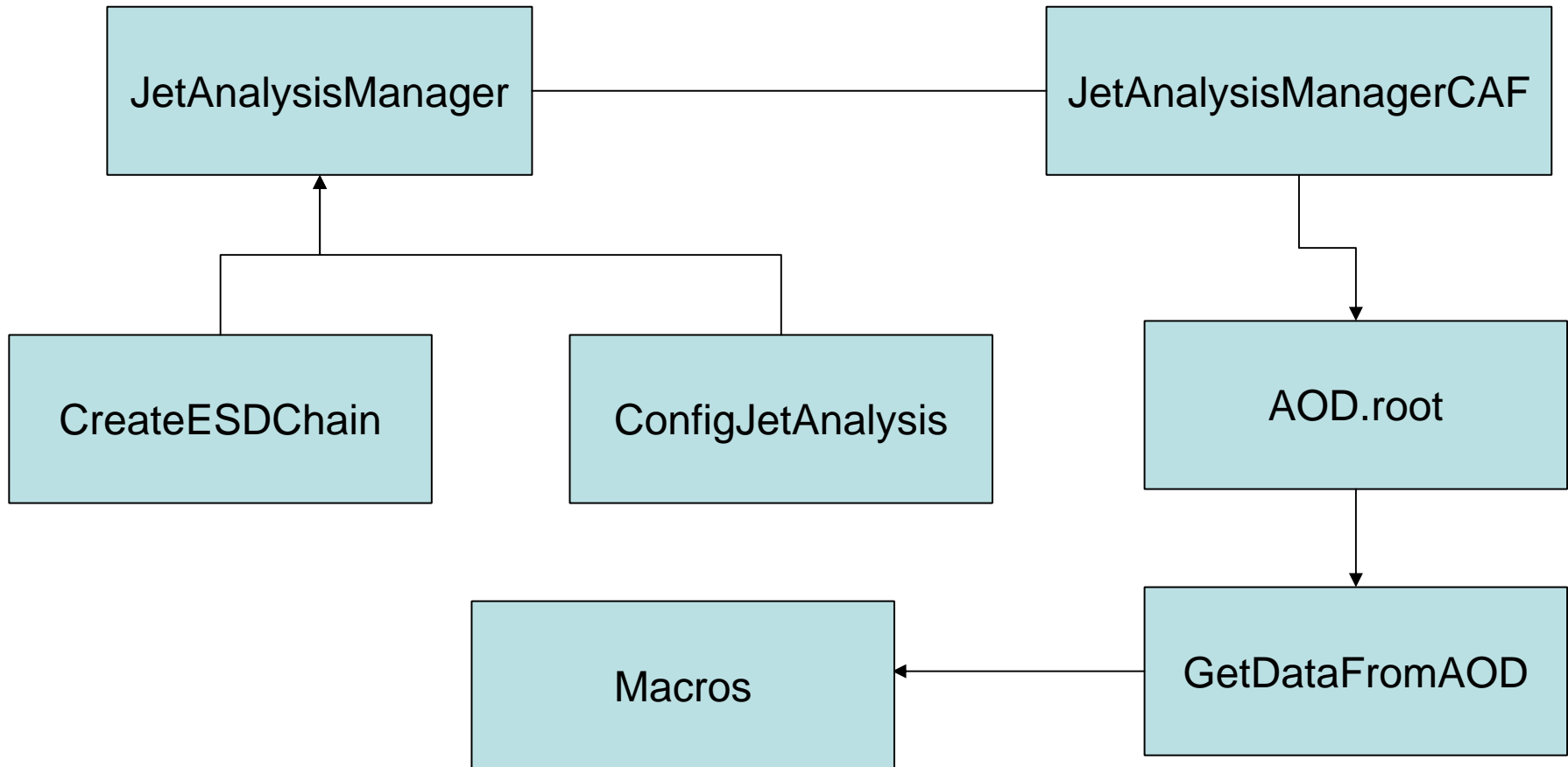


Leonid Serkin
(HELEN-ICN)

2×10^6 events produced during the Physics Data
Challenge 06
Minimum bias events

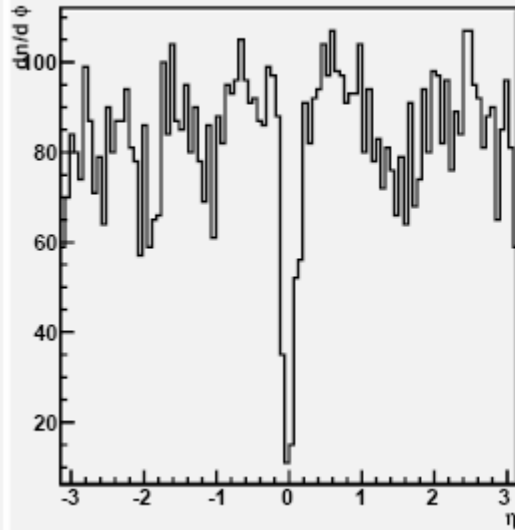
- Inelastic hadron-hadron events selected with an experiment's “minimum bias trigger”.
- Usually associated with inelastic non-single-diffractive events
- Need minimum bias data if want to:
 - 1) Study general characteristics of proton-proton interactions
 - 2) Investigate multi-parton interactions and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

Jet Reconstruction using Analysis Object Data

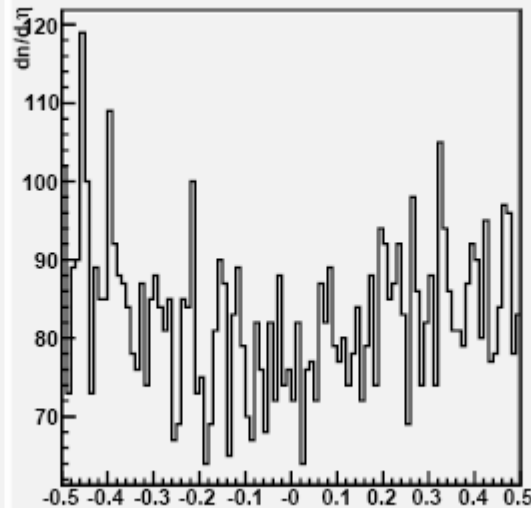


First results using CAF data

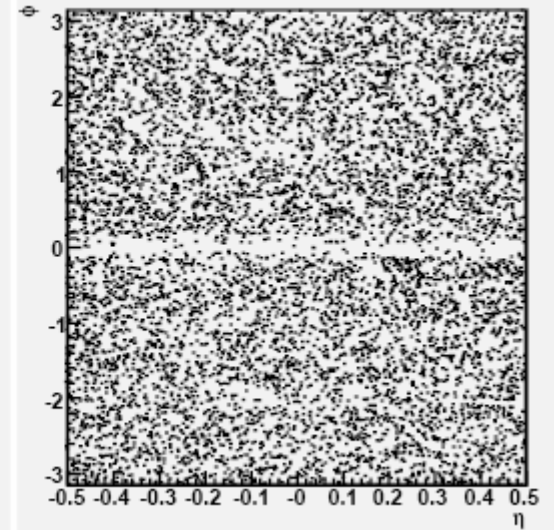
Distribution of Phi



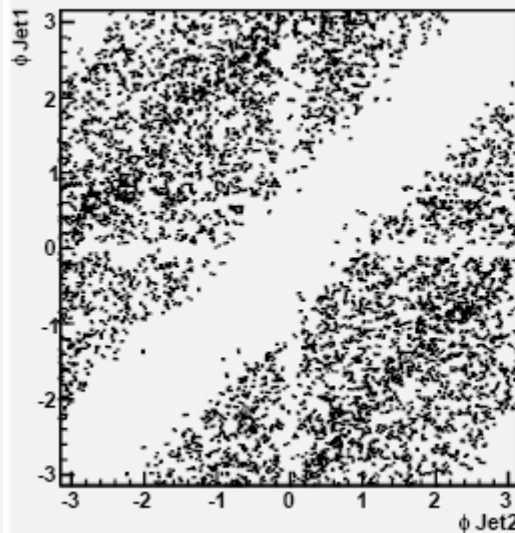
Distribution of Eta



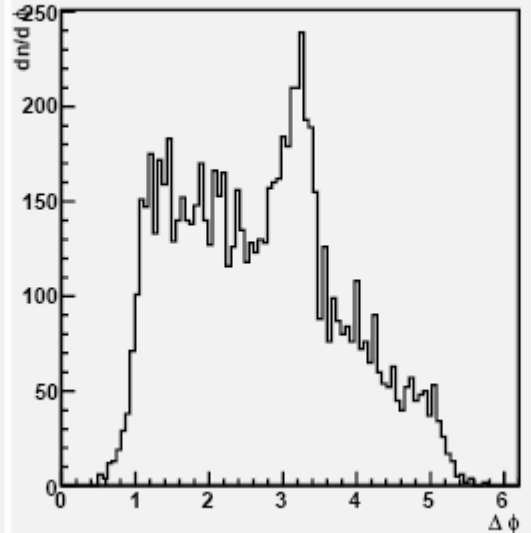
Distribution of Eta/Phi



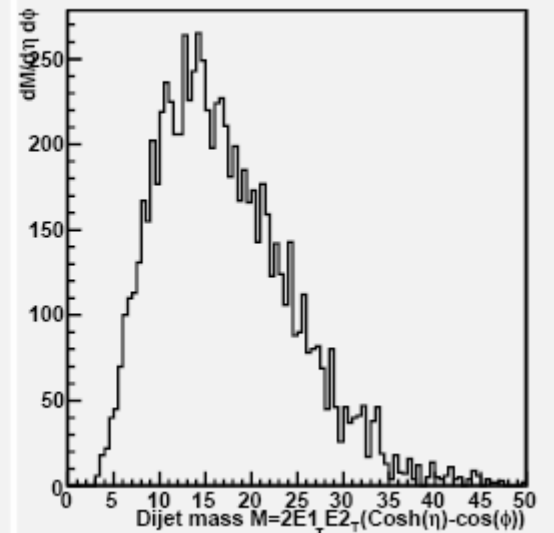
Distribution of Phi1/Phi2



Distribution of DeltaPhi

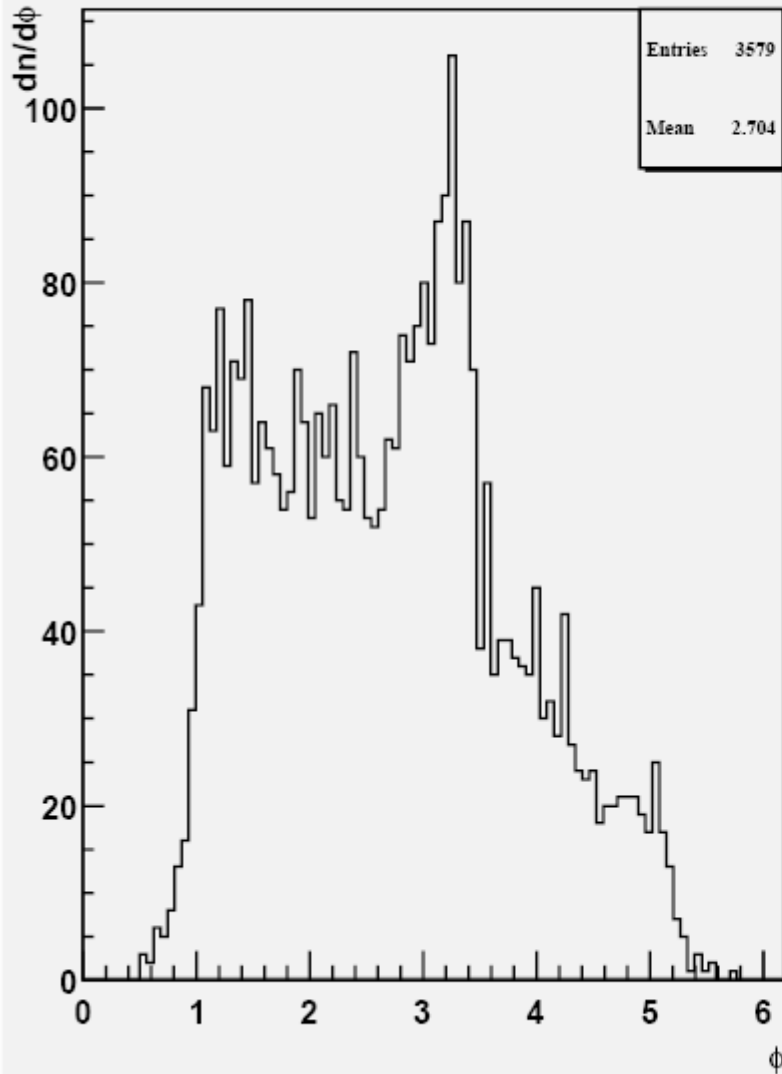


Distribution of Dijet Mass

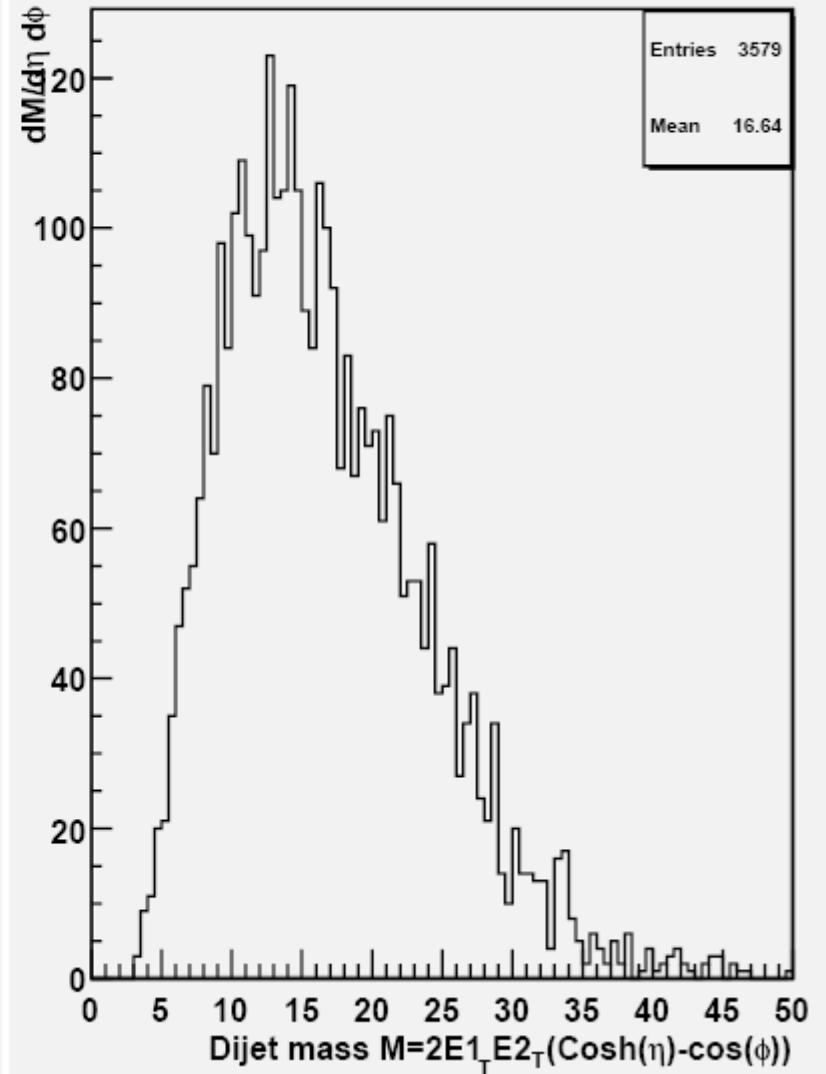


Distribution of Delta Phi

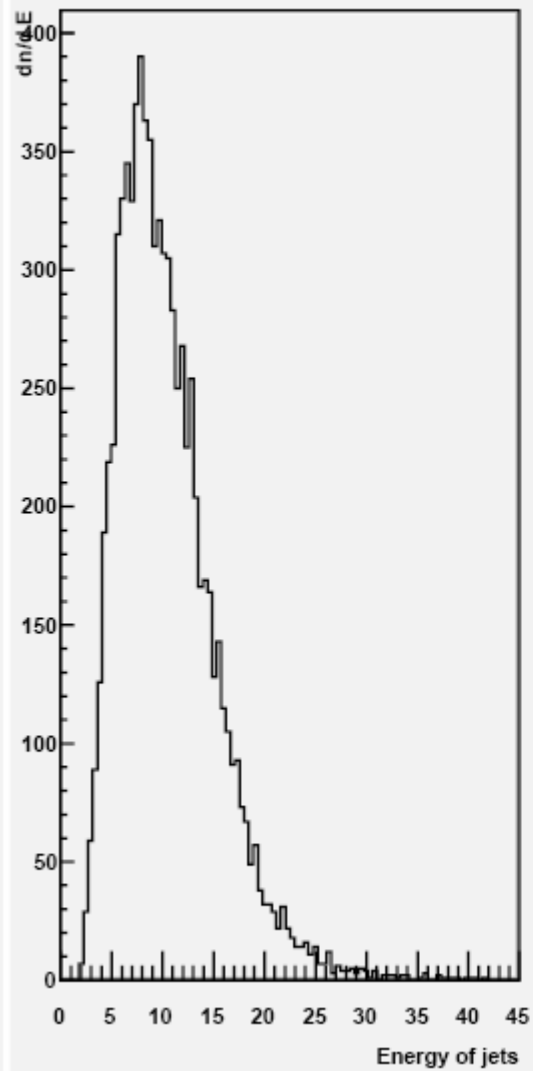
Distribution of DeltaPhi



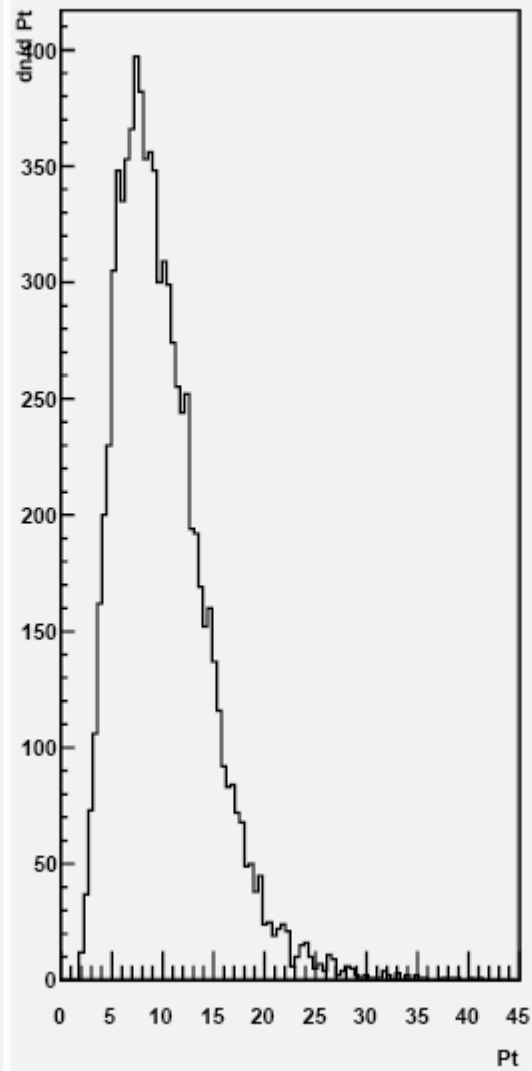
Distribution of Dijet Mass



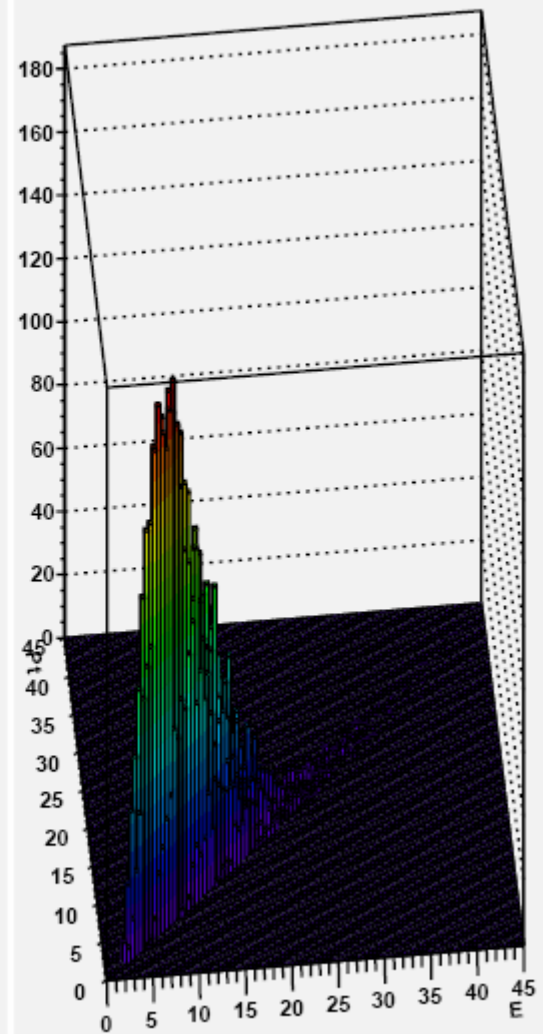
Distribution of Energy



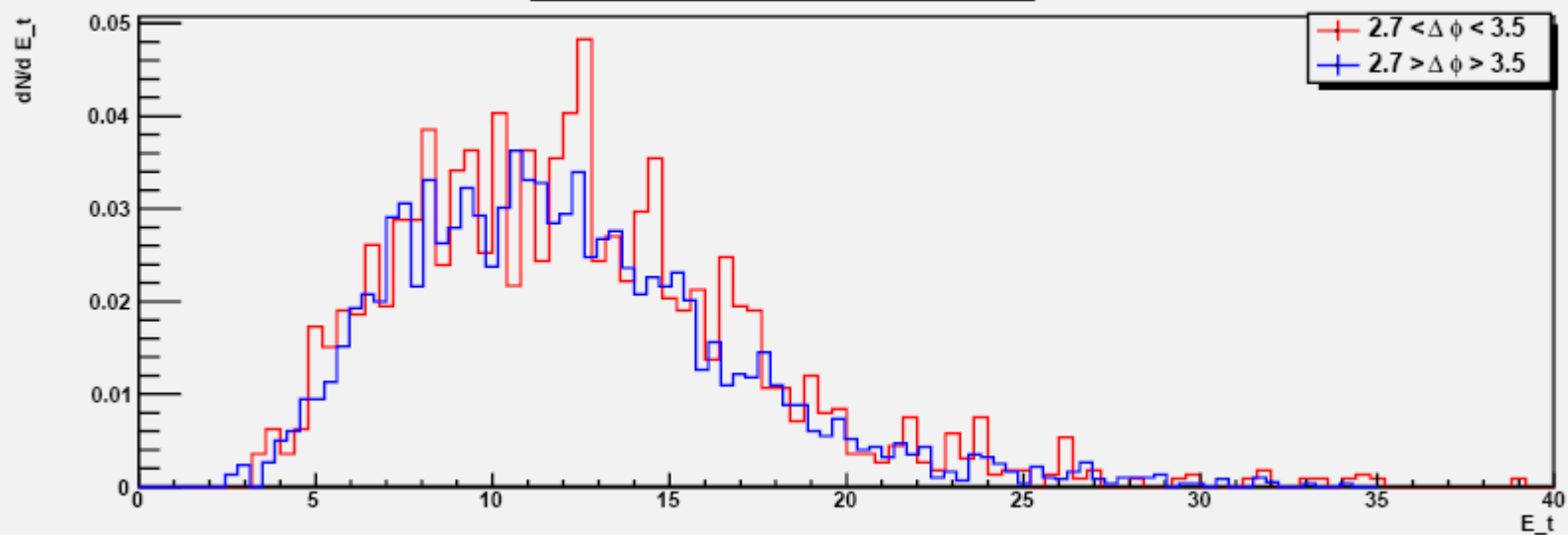
Distribution of Pt



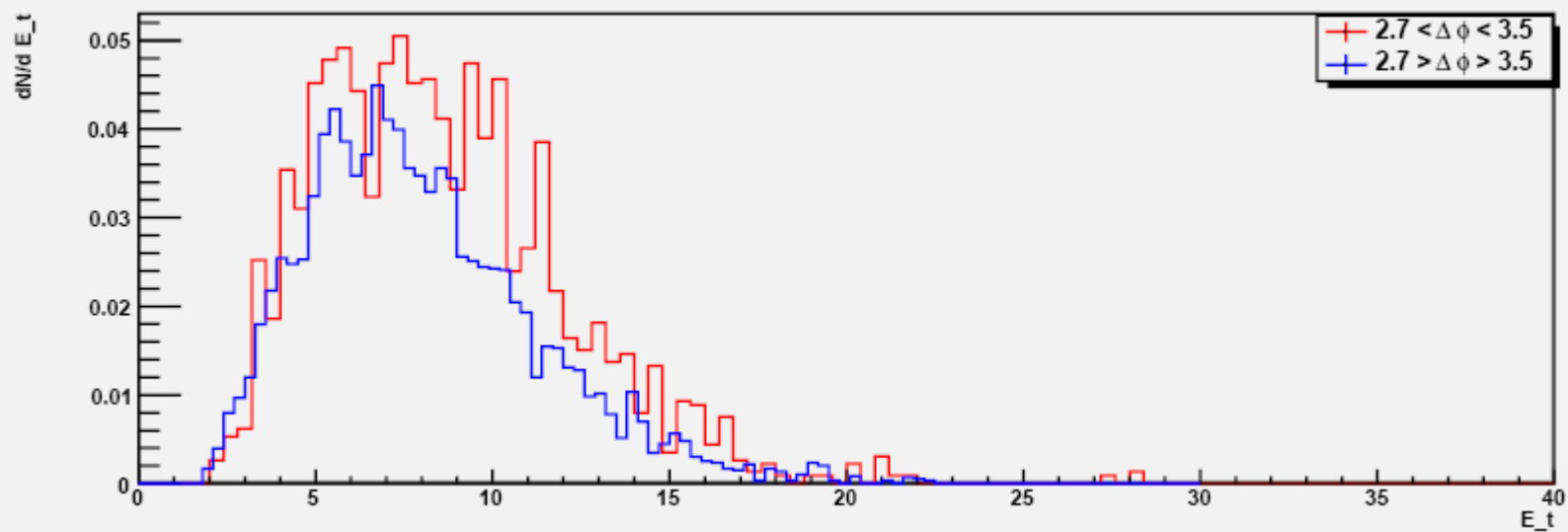
Distribution of E/Pt



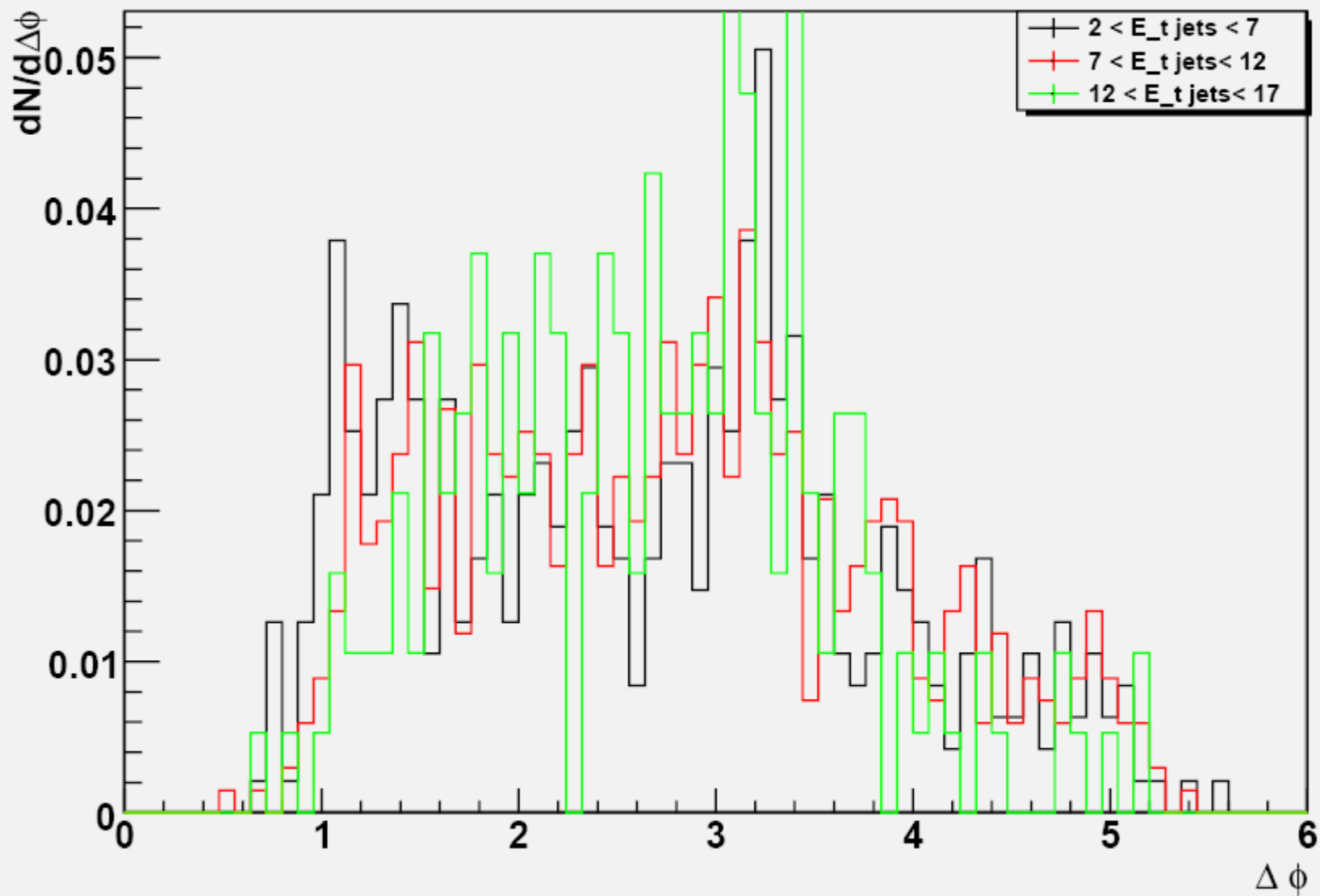
Normalized distribution of E_t of Jet 1



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*