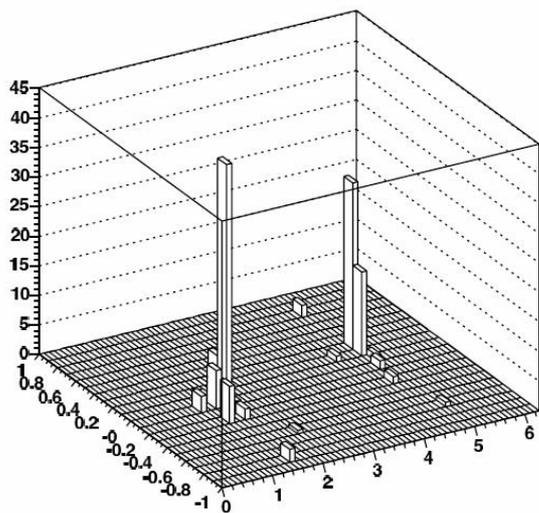
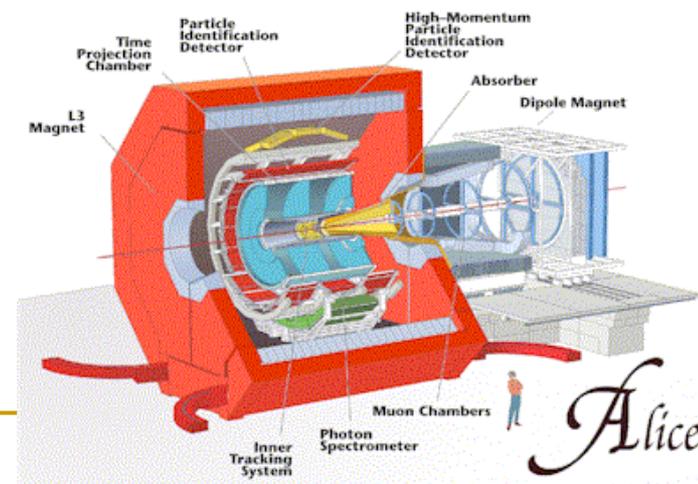


Charged Jet Evolution using min-bias p-p collisions at $\sqrt{s} = 14$ TeV.

- 80.000 pp events
- different R
- p_t cut (tracks) = 0.5
- E_t cut (jets) = 2



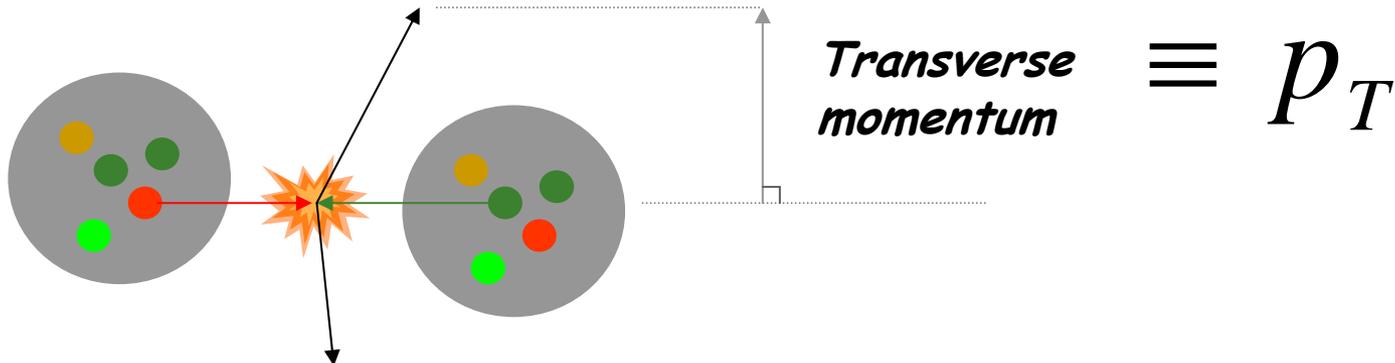
Leonid Serkin
(ICN)



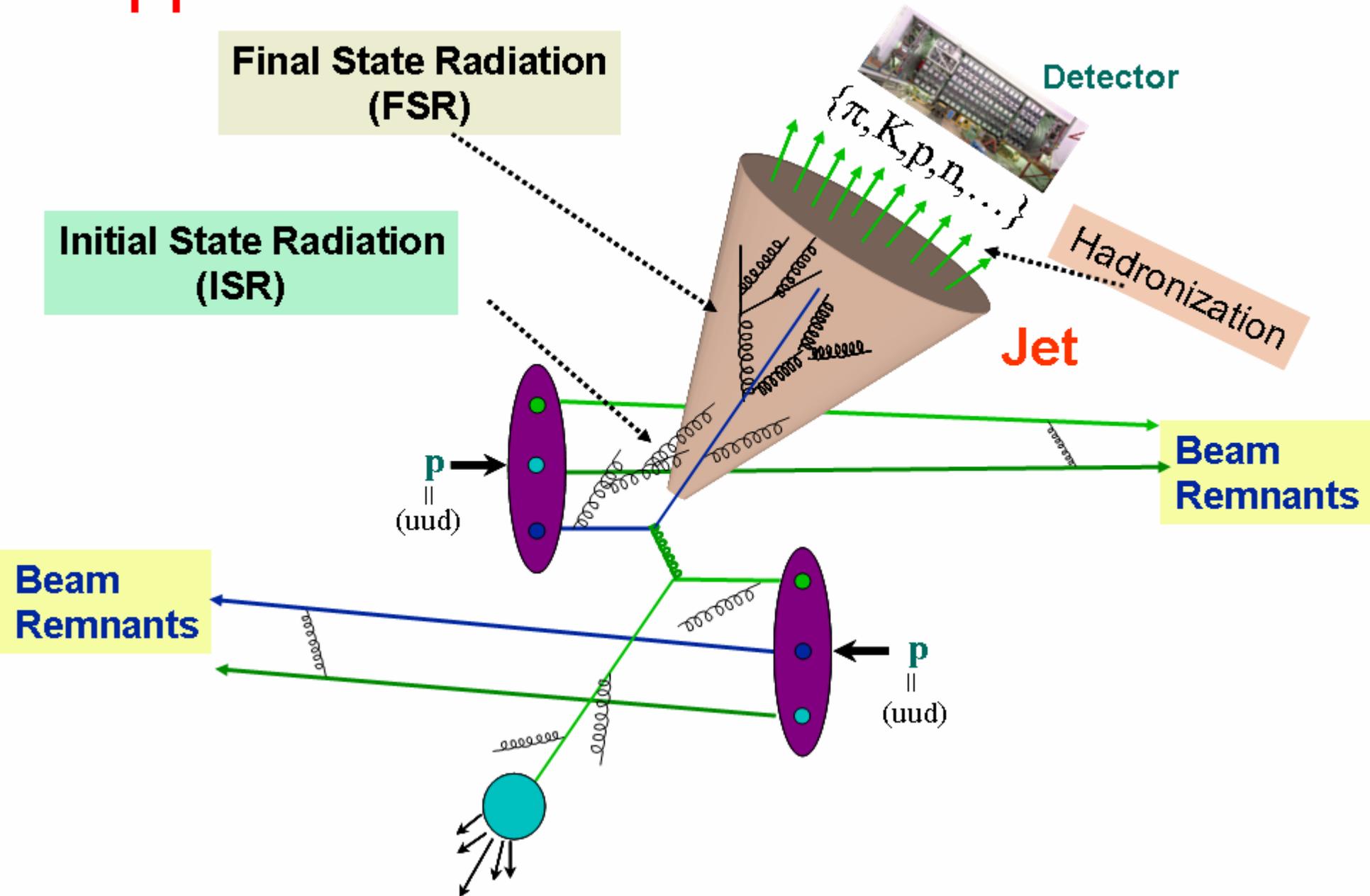
Alice

The growth and development of “charged particle jets” produced in proton-proton collisions at 14 TeV are studied over a transverse momentum range from 0.5 GeV/ c to 20 GeV/ c .

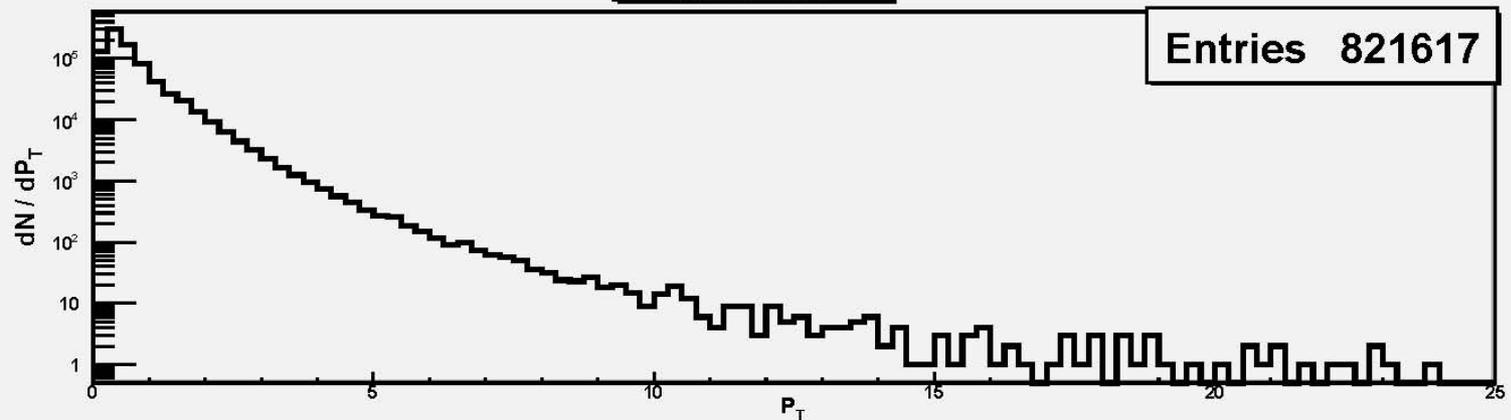
We try to describe fairly the multiplicity distribution of charged particles within the leading charged jet, the radial distribution of charged particles and transverse momentum around the leading charged jet direction, and the momentum distribution of charged particles within the leading charged jet.



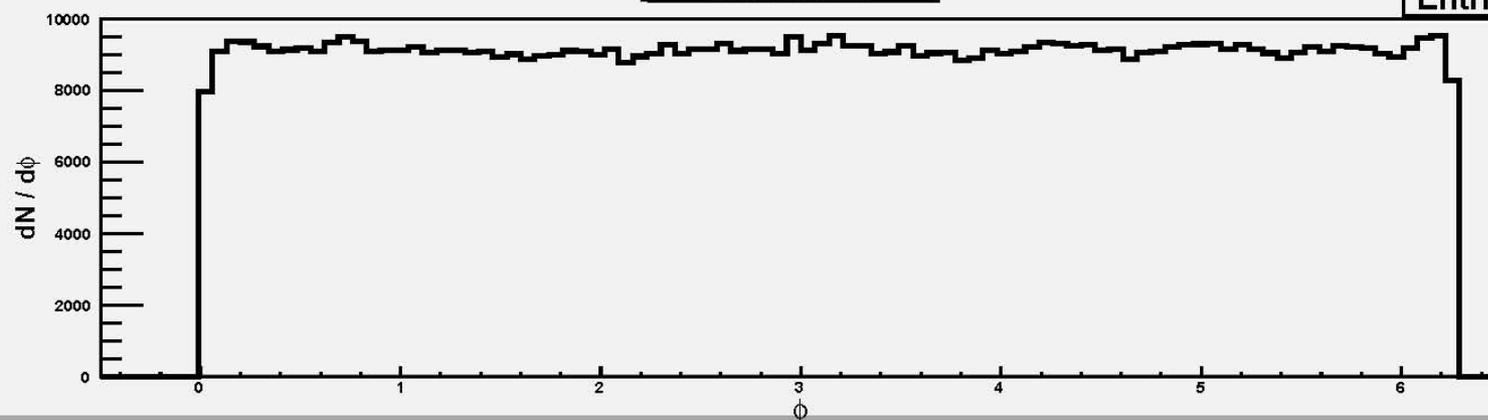
pp Interactions – Creation of Jets



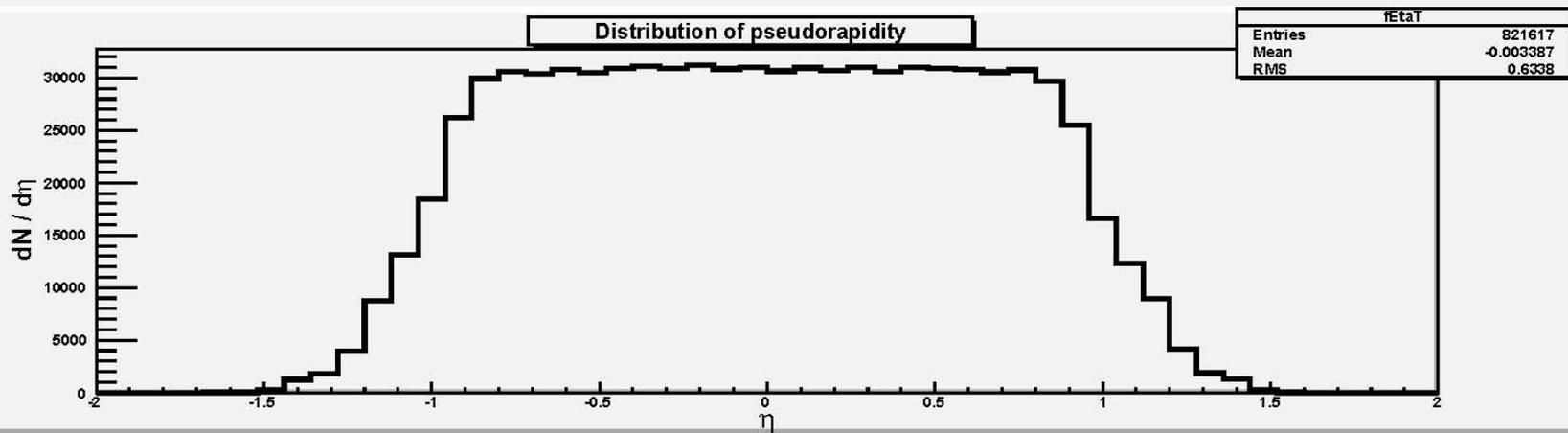
Distribution of Pt



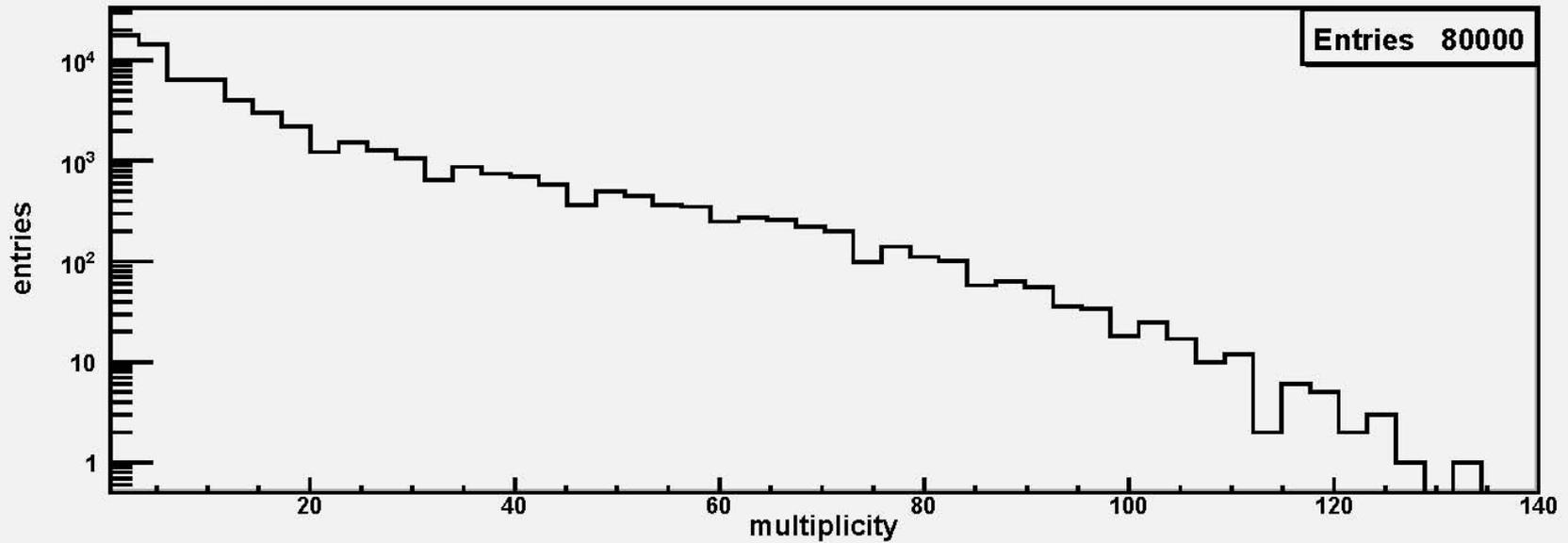
Distribution of Phi



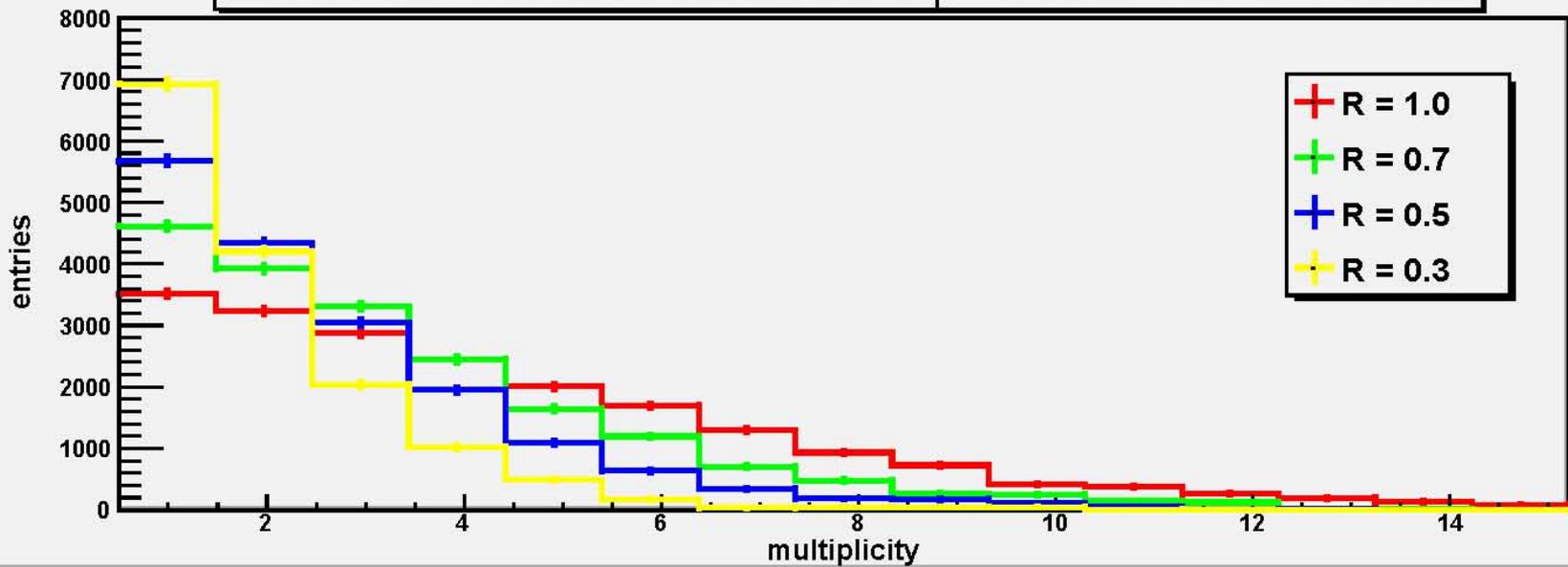
Distribution of pseudorapidity



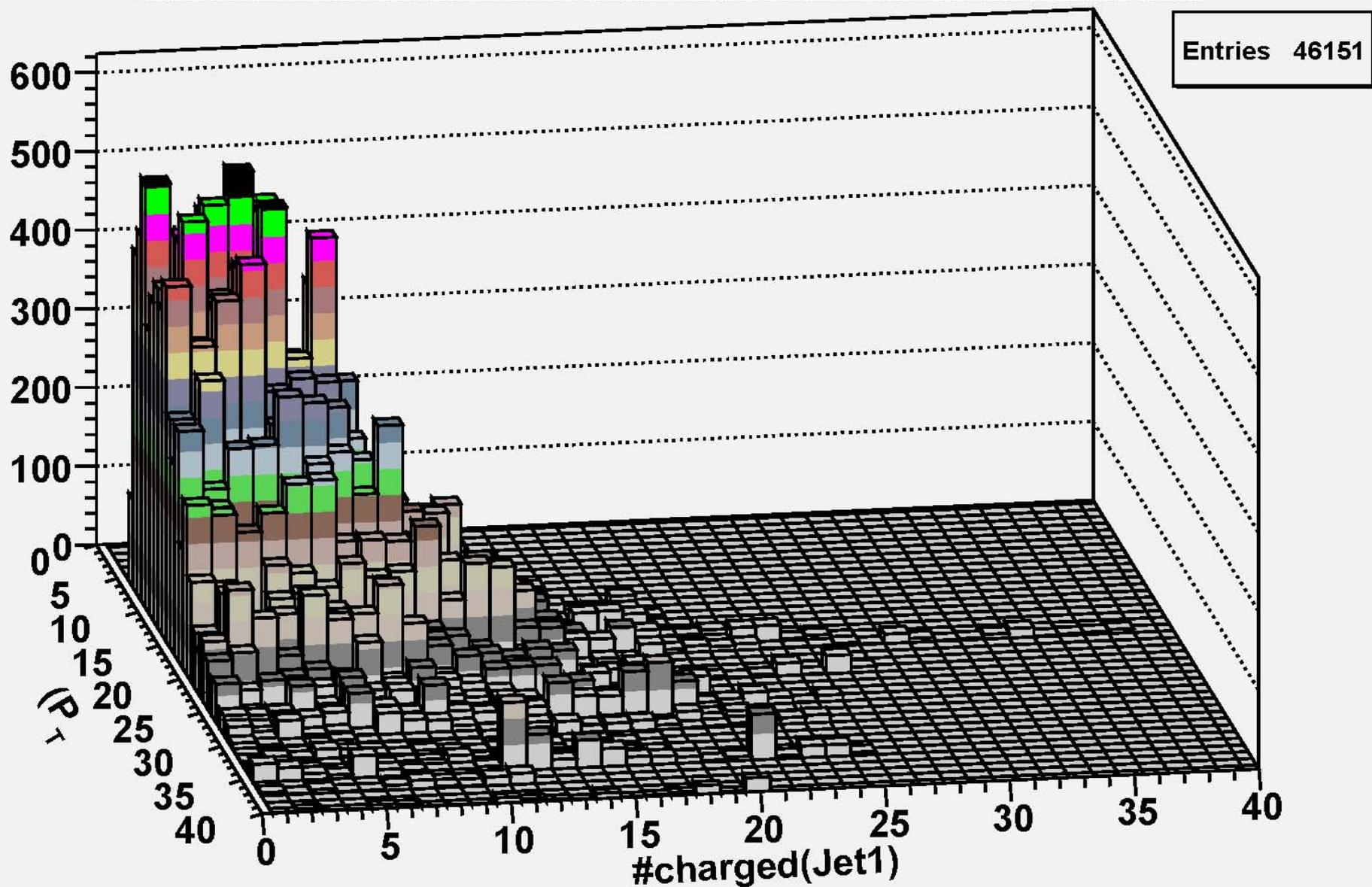
Multiplicity distribution of all charged particles



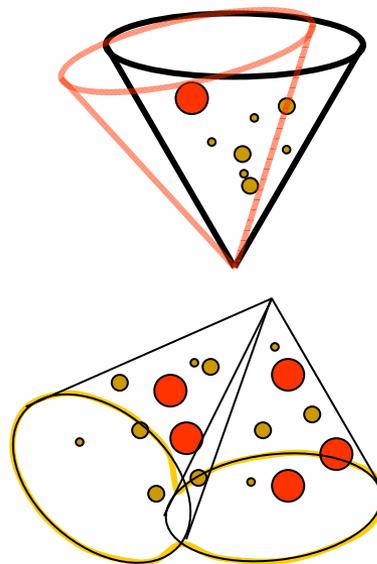
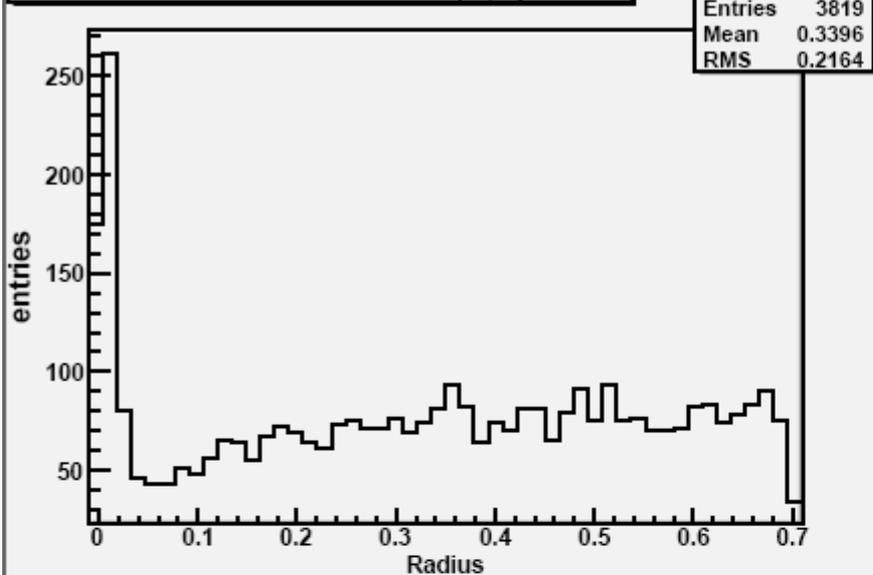
The average number of charged particles ($P_T > 0.5 \text{ GeV/c}$) within the leading jet



Number of charged particles within the leading jet ($R=0.7$) as a function of the transverse momentum of the leading jet



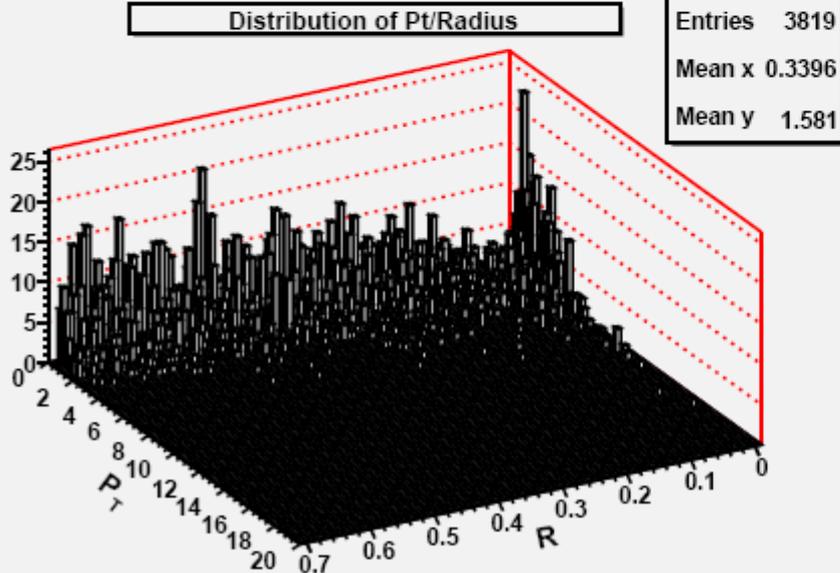
Distribution of radial distance in $\eta - \phi$ space



$$R_{ij} = \sqrt{(\eta_i - \eta_j)^2 + (\phi_i - \phi_j)^2}$$

-   Calorimeter E_T
-  Jet Seeds

Distribution of P_T /Radius



Multiplicity distribution in the radial distance for charged particles with $P_T > 0.5 \text{ GeV}/c$

