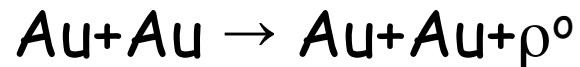
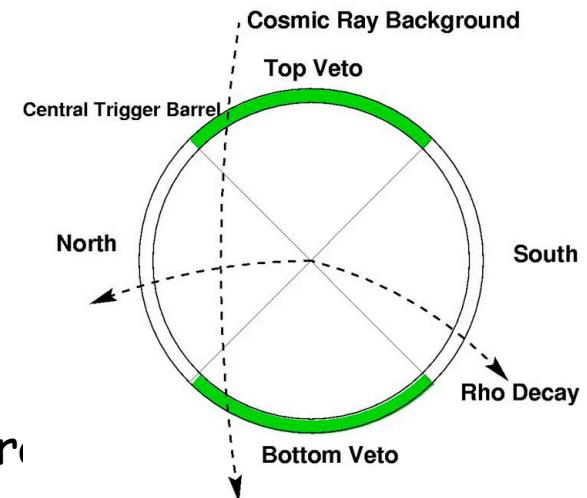


Triggers

Topology(UPC)



- Central Trigger Barrel divided into four quadrants
- Verification of ρ decay candidate with hits in North/South quadrants
- Cosmic Ray Background vetoed in Top/Bottom quadrants



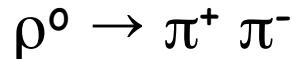
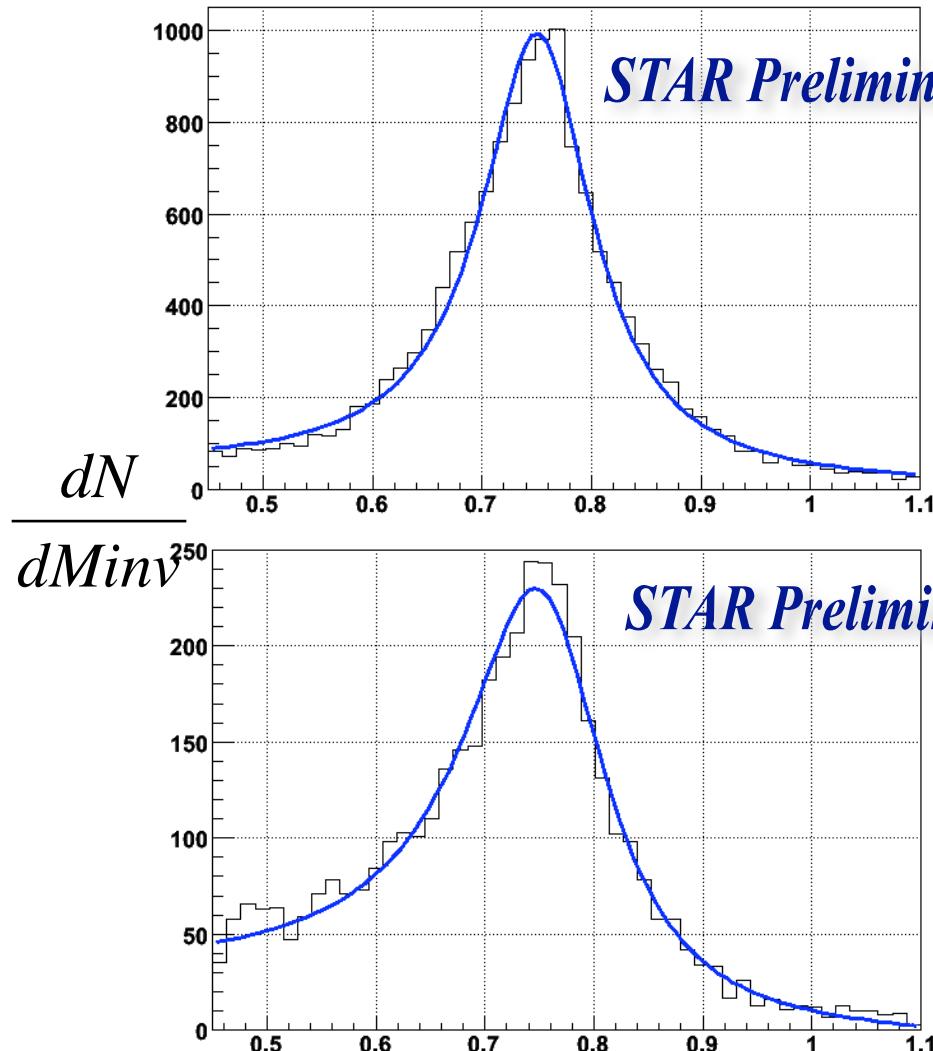
Minbias



- Minimum one neutron in each Zero Degree Calorimeter required
- Low Multiplicity



Finding the ρ^0 in 200 GeV Au+Au data



Mass measurement $\rightarrow 0.756 \pm 0.001 \text{ GeV}$,
PDG $\rightarrow 0.770 \text{ GeV}$

Width measurement $\rightarrow 0.124 \pm 0.002 \text{ GeV}$,
PDG $\rightarrow 0.149 \text{ GeV}$

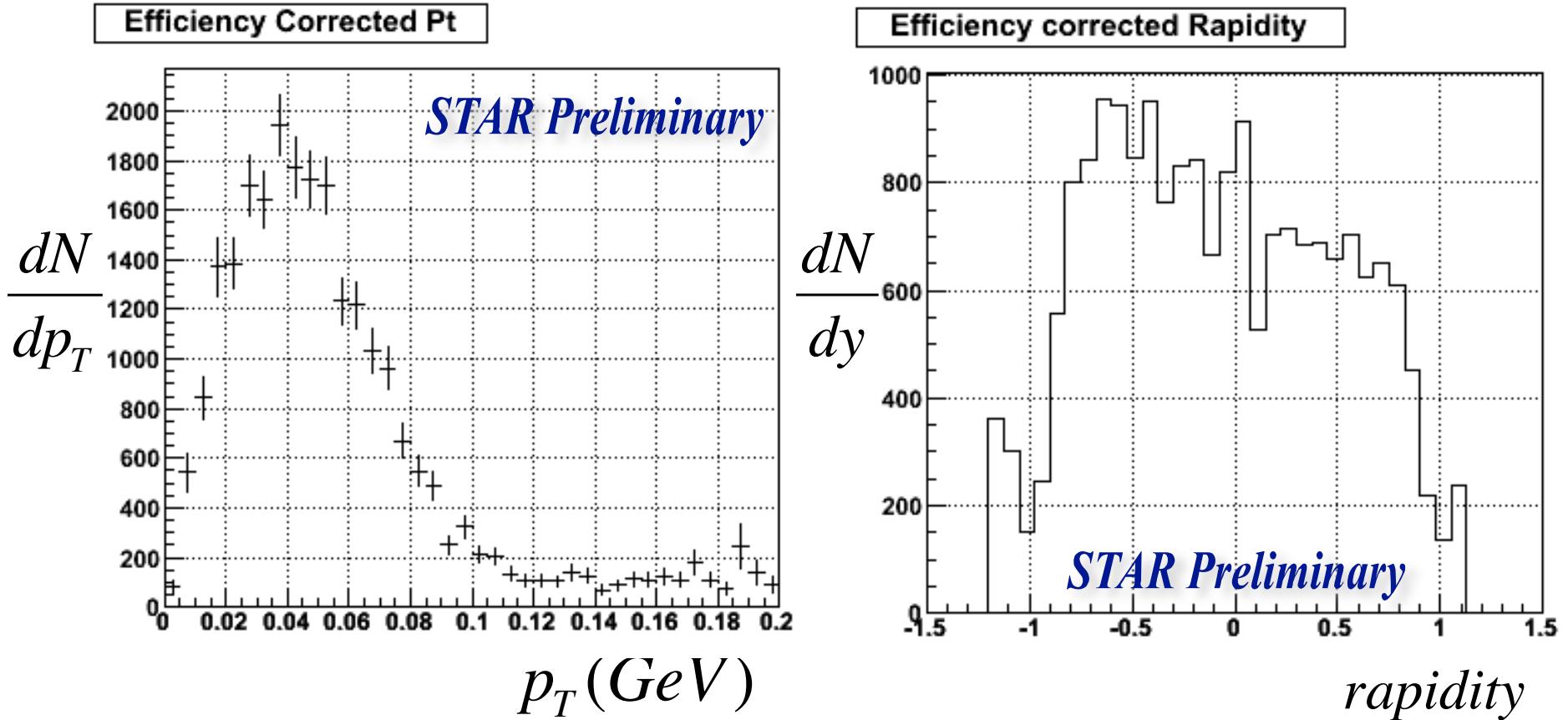


Mass measurement $\rightarrow 0.763 \pm 0.002 \text{ GeV}$,
PDG $\rightarrow 0.770 \text{ GeV}$

Width measurement $\rightarrow 0.160 \pm 0.005 \text{ GeV}$,
PDG $\rightarrow 0.149 \text{ GeV}$



Rapidity and p_T distributions for ρ^0 -- Topology

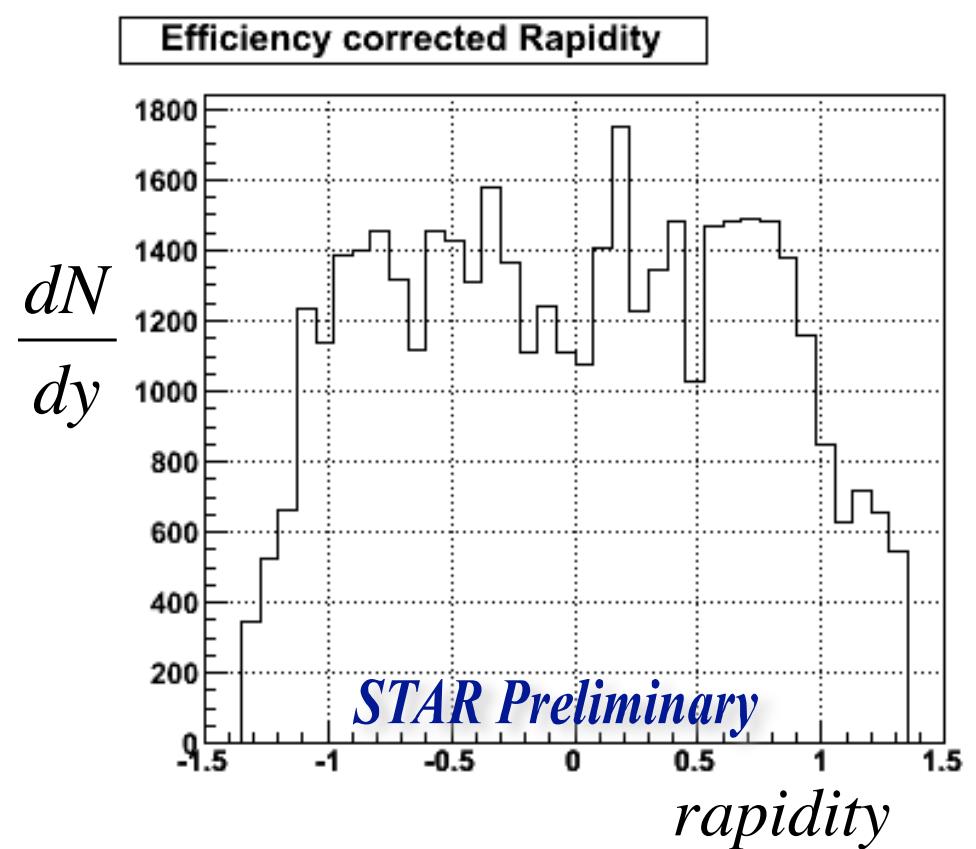
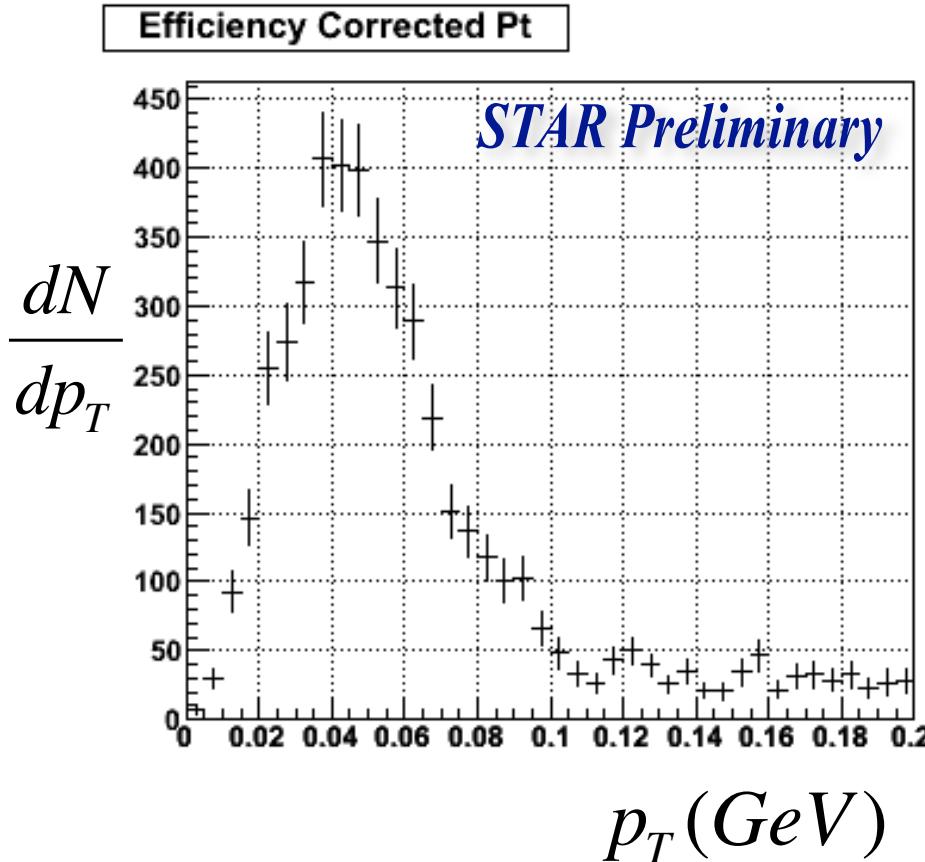


Cuts applied to minimize cosmic ray background,
maximize interference signal



STAR Analysis Meeting, BNL 2005

Rapidity and p_T distributions for ρ^0 -- Minbias

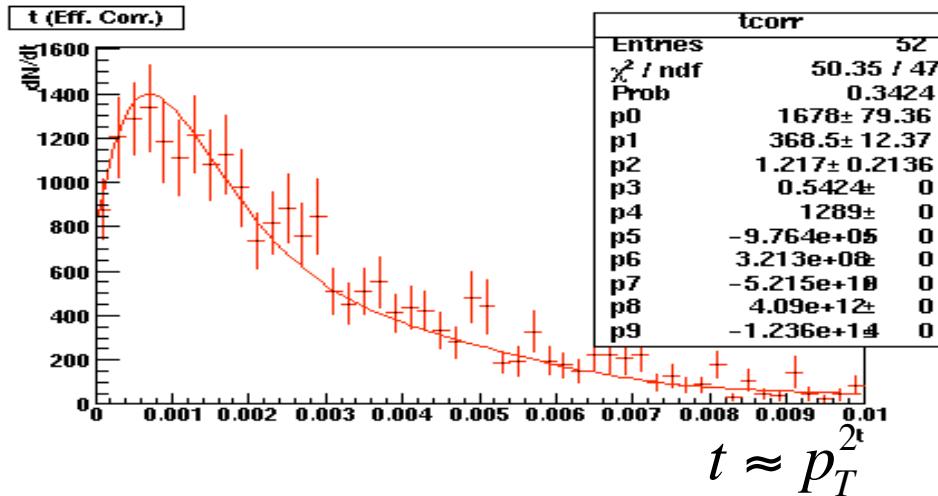


Cuts applied to minimize cosmic ray background,
maximize interference signal



t -spectrum for minbias and topology data

$\frac{dN}{dt}$



$\frac{dN}{dt}$

