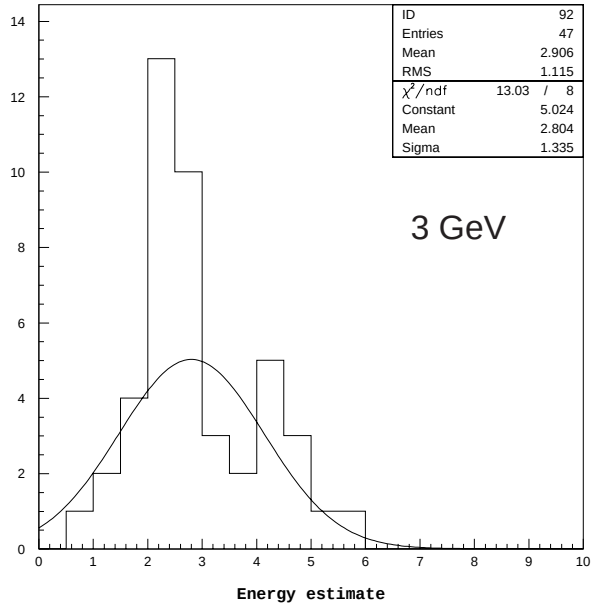
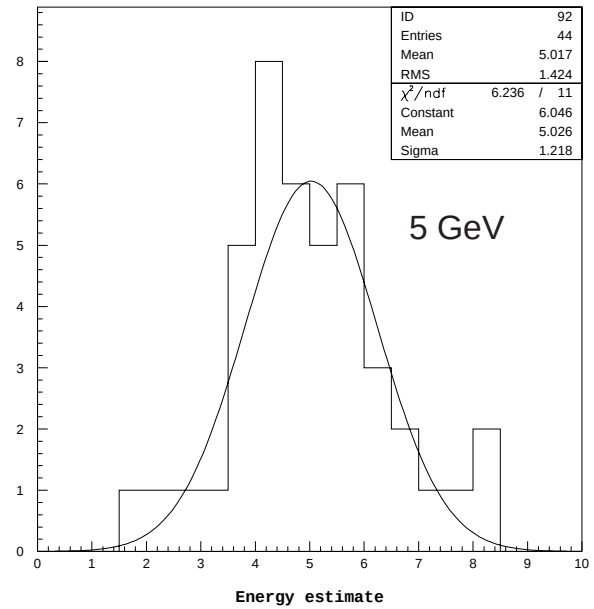
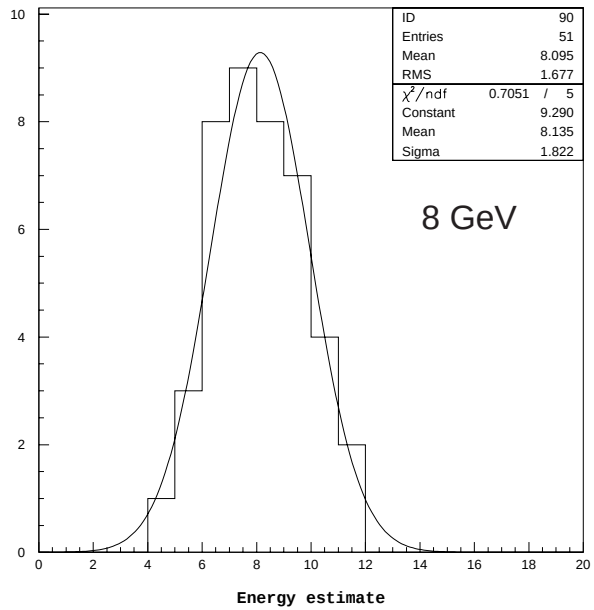
Slides and plots for Group Meeting 7 July 2000
Part 2

- SFT Energy Analysis
- Minimum p_T plots





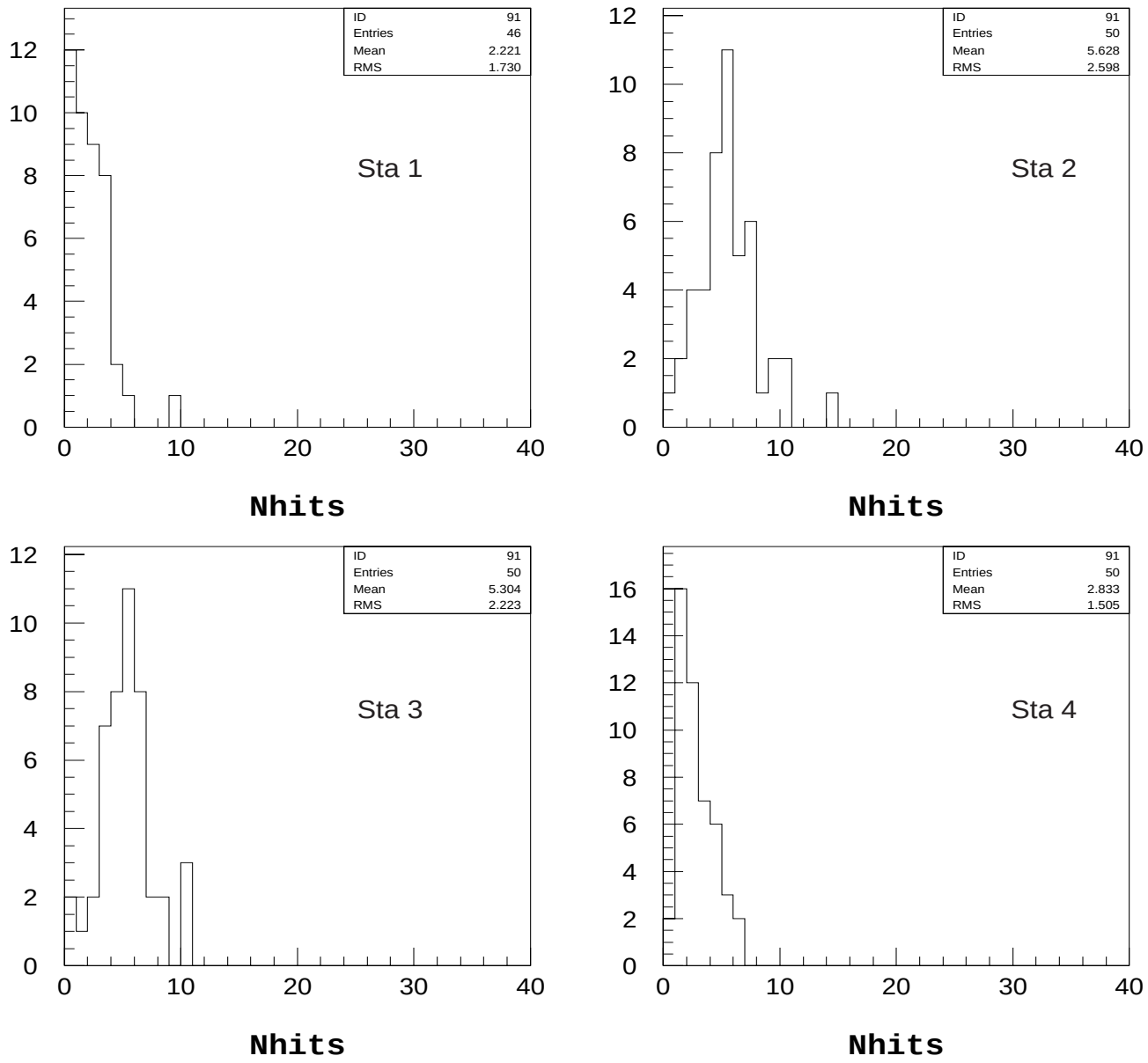


MC SFT Energy

- resolution 40% @ 3 GeV
  20% @ 8 GeV
- uses both pulse height and development
- needs > 2 stations
- above 10 GeV degrades, add Ecal

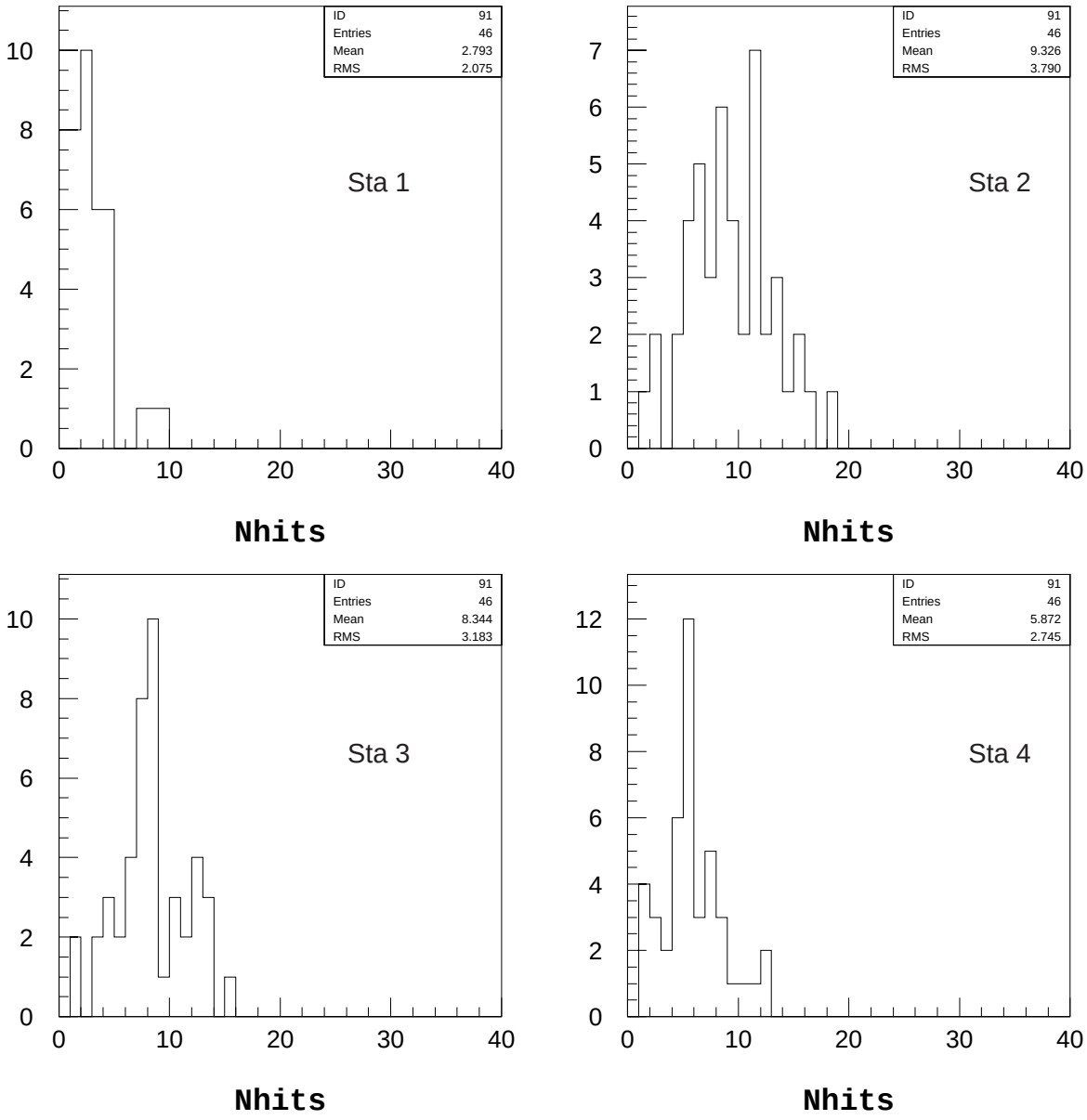
MC SFT Energy

3 GeV



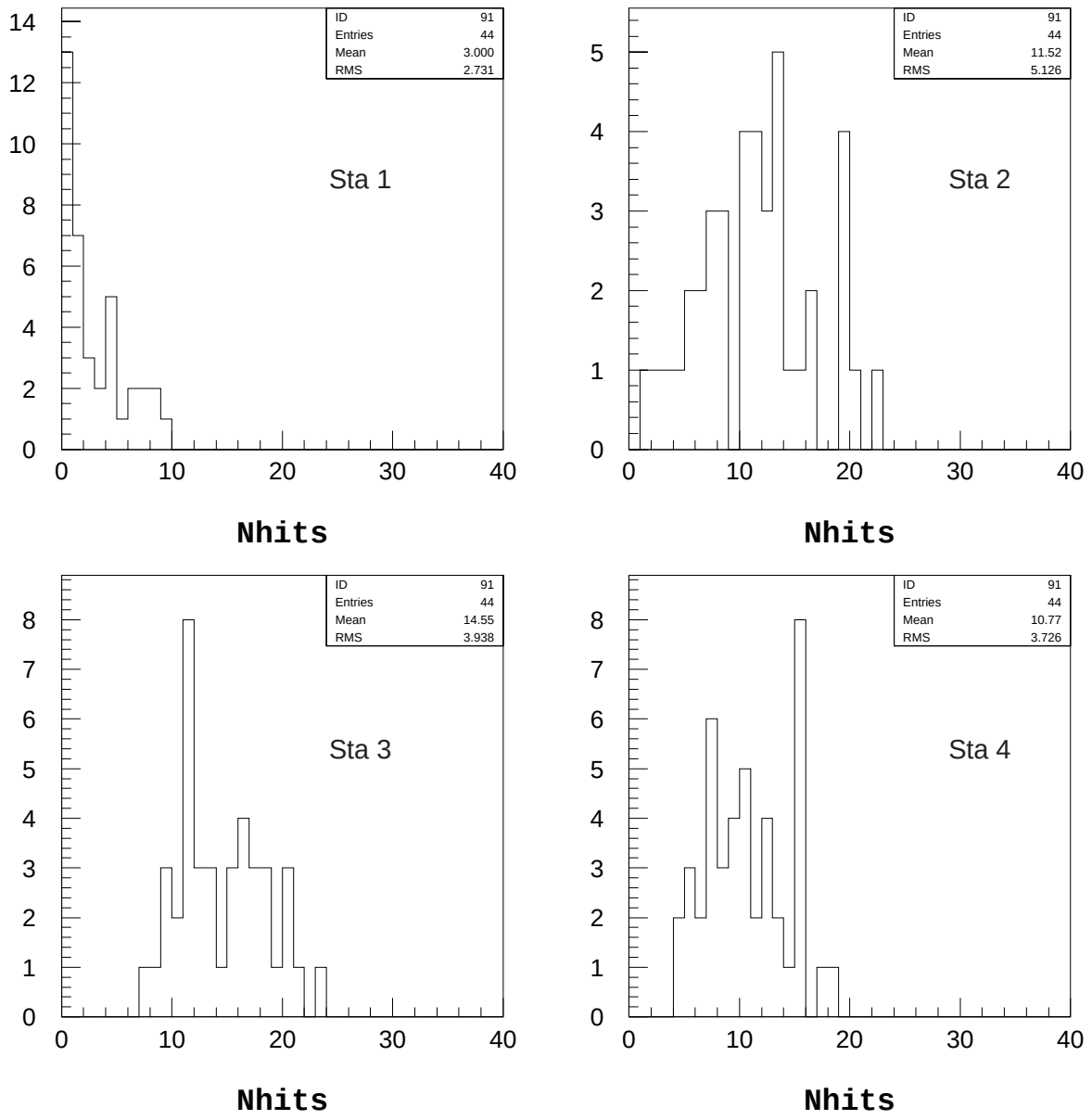
MC SFT Energy

5 GeV



MC SFT Energy

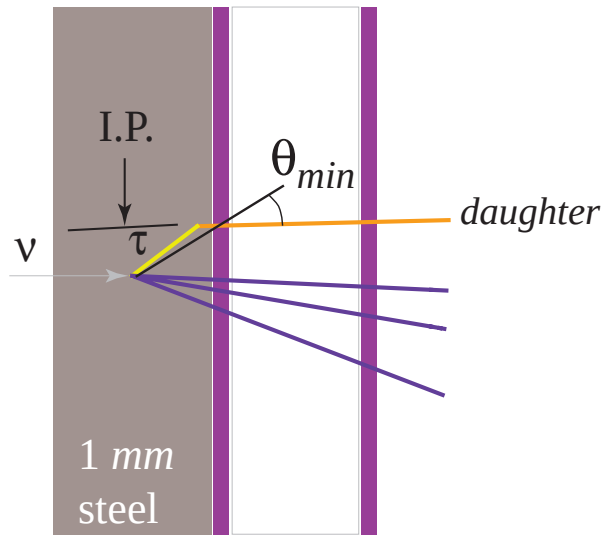
8 GeV



Decay Search - "S" distributions

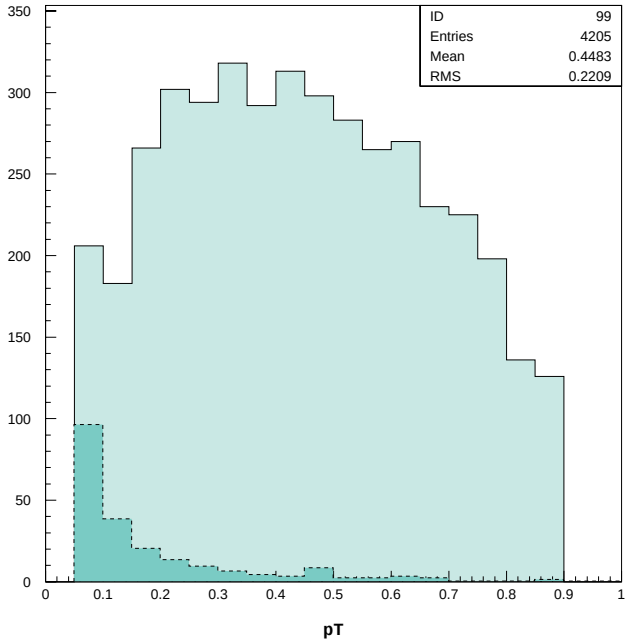
- decay in same steel plate as vertex
- approx. 25% of τ decays
- cannot measure θ_{kink} or p_T directly
- need to define appropriate quantity

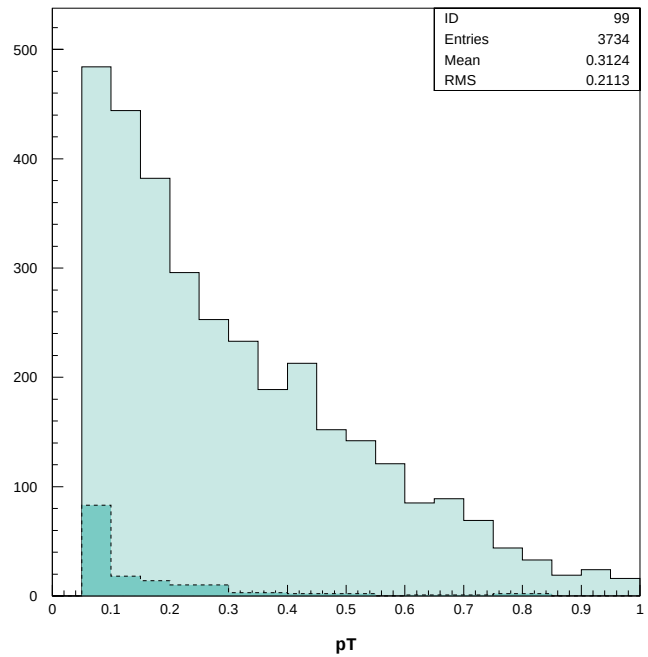
Unit used in MC simulations to follow



The usual quantity is the angle using a line from the vertex to the intersection of the end of the steel plate: θ_{min} ; p_{Tmin}

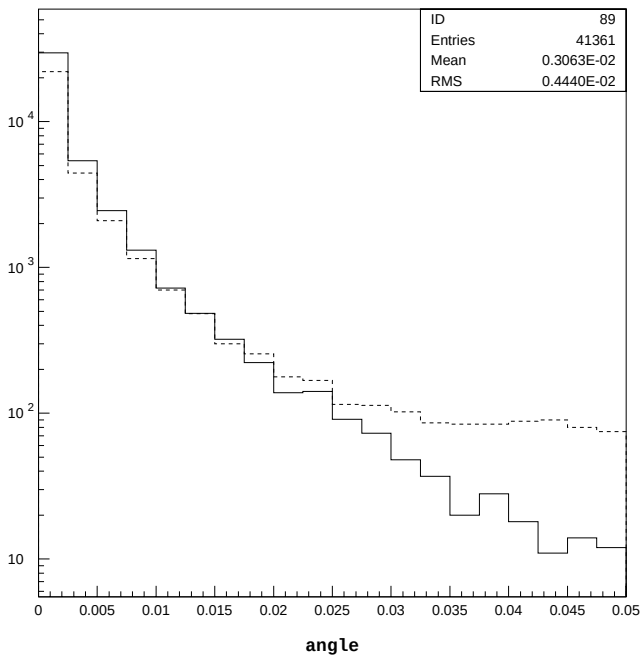
MC data

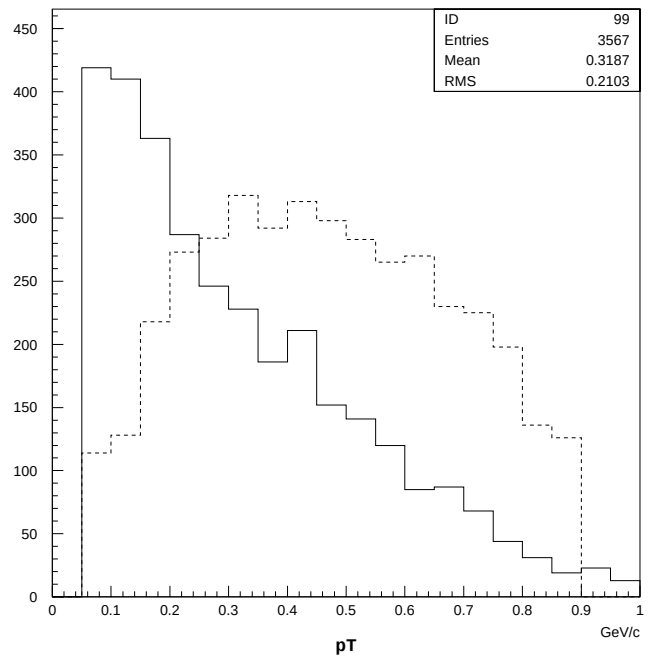




1. $p_T(\tau,\mathrm{bkg})$

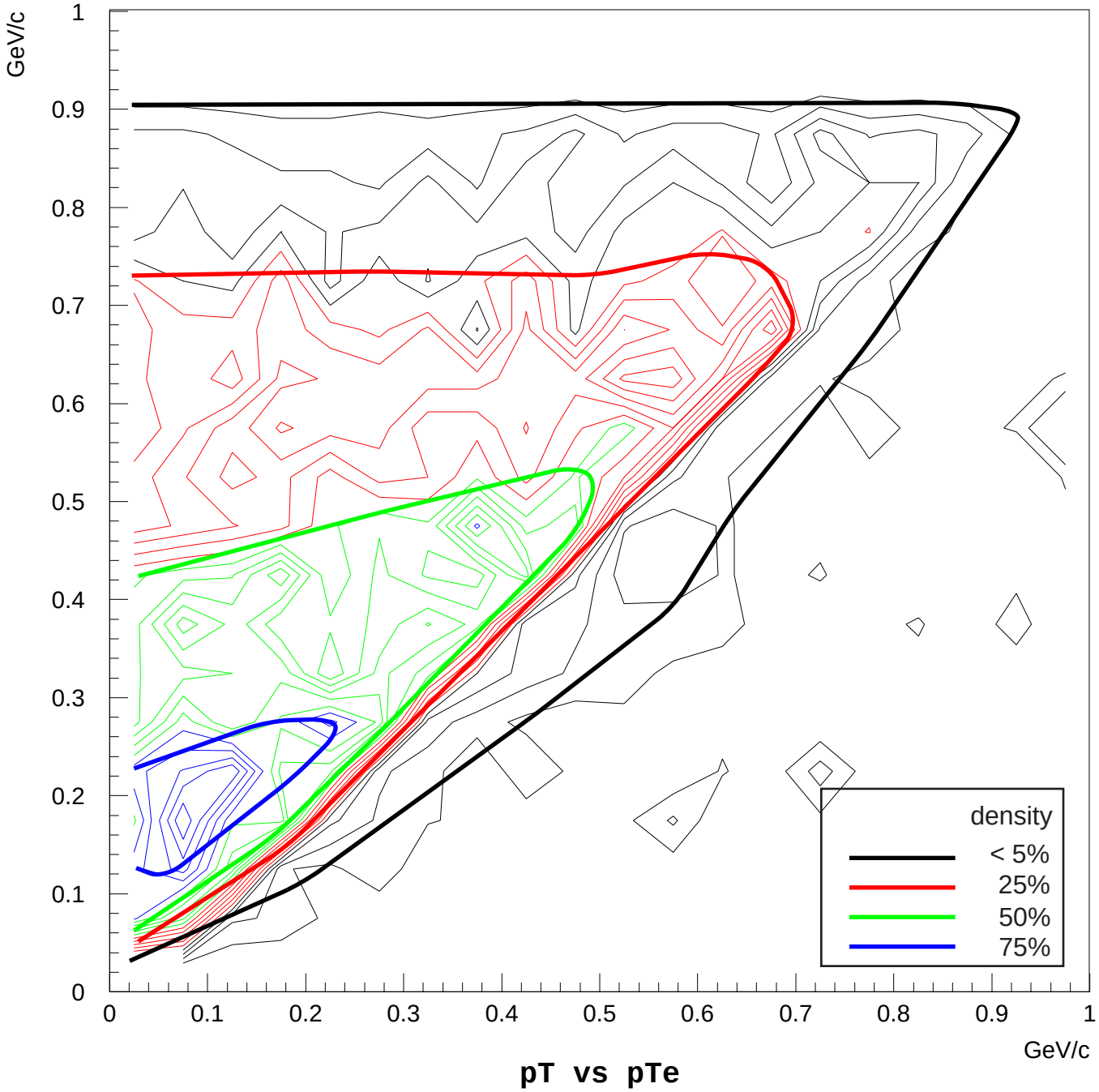
2. $p_T(\tau,\mathrm{bkg})$ est.





3. $\theta(\tau,\mathrm{bkg})$

4. $p_T(\tau)$ true,est.


GeV/c
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
GeV/c
density
< 5%
25%
50%
75%

pT vs pTe