

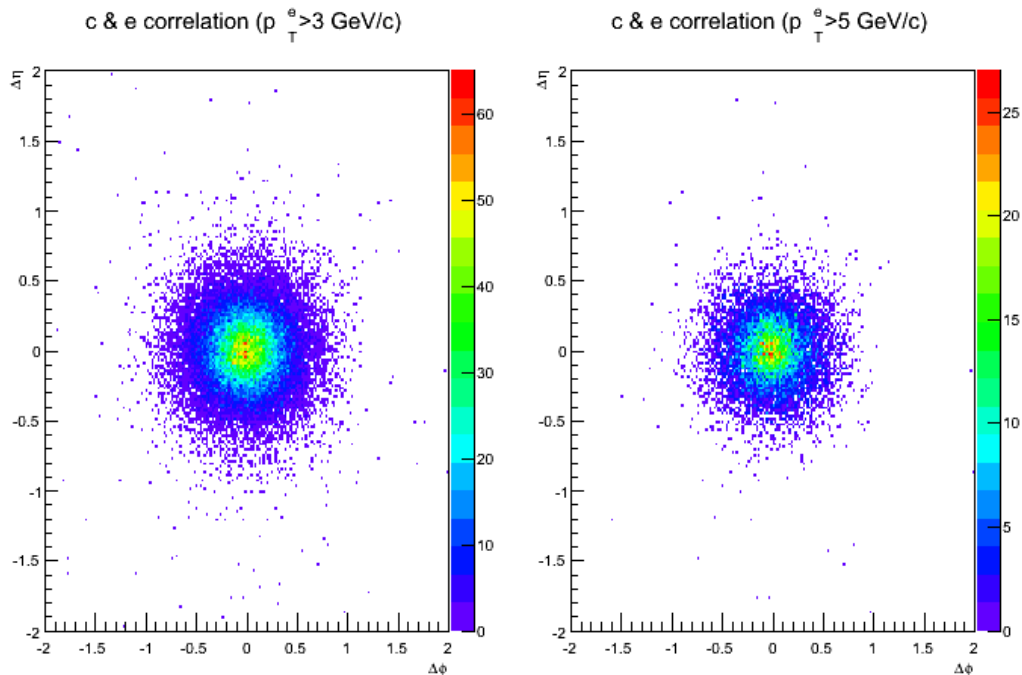
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# kinematic study with PYTHIA

## charm and electron correlation in phi vs. eta

- checked correlation between charm and decay electron in phi and eta
- charm generated  $p_T > 10 \text{ GeV}/c$

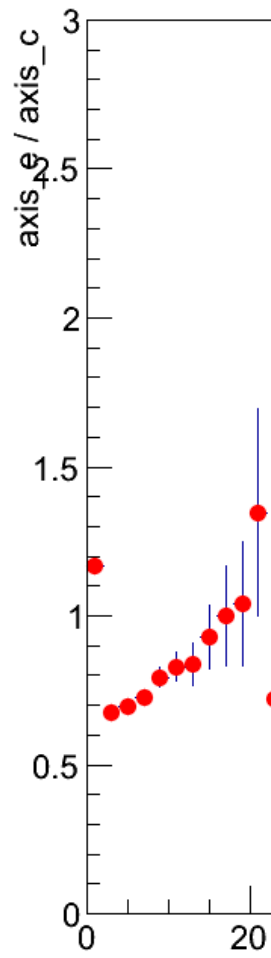
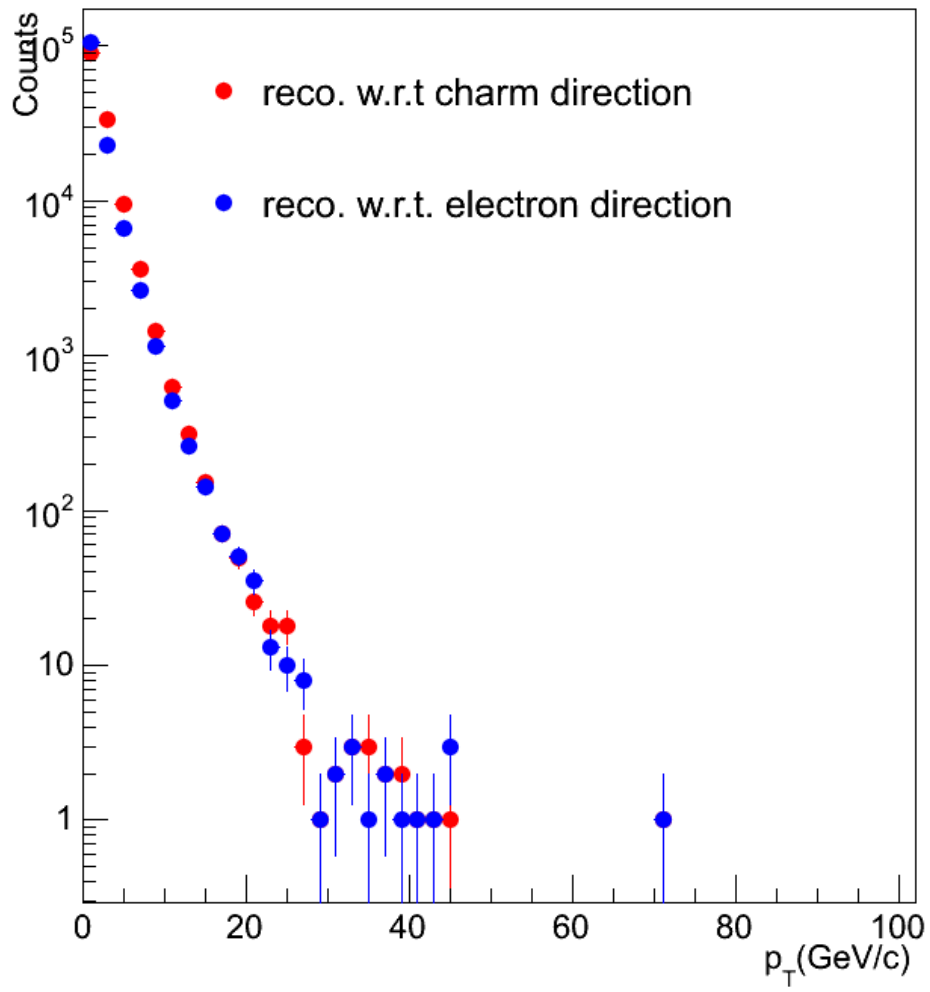


## reco $p_T$ w.r.t. charm and electron axes

- comparison of reconstructed jets
  - ◆ reconstruct jet along charm direction or electron direction
  - ◆  $R < 0.7$
  - ◆ associate particles  $p_T > 0.15 \text{ GeV}/c$
  - ◆ MB & minimum  $p_T$  of hard scattering ( $p_{T\text{hat } M m}$ ) of charm  $p_T > 3, 6, 10$  and  $20 \text{ GeV}/c$
  - ◆ X axis: reconstructed jet  $p_T$

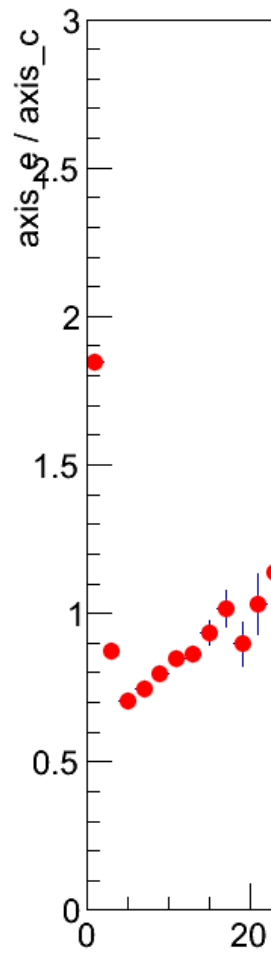
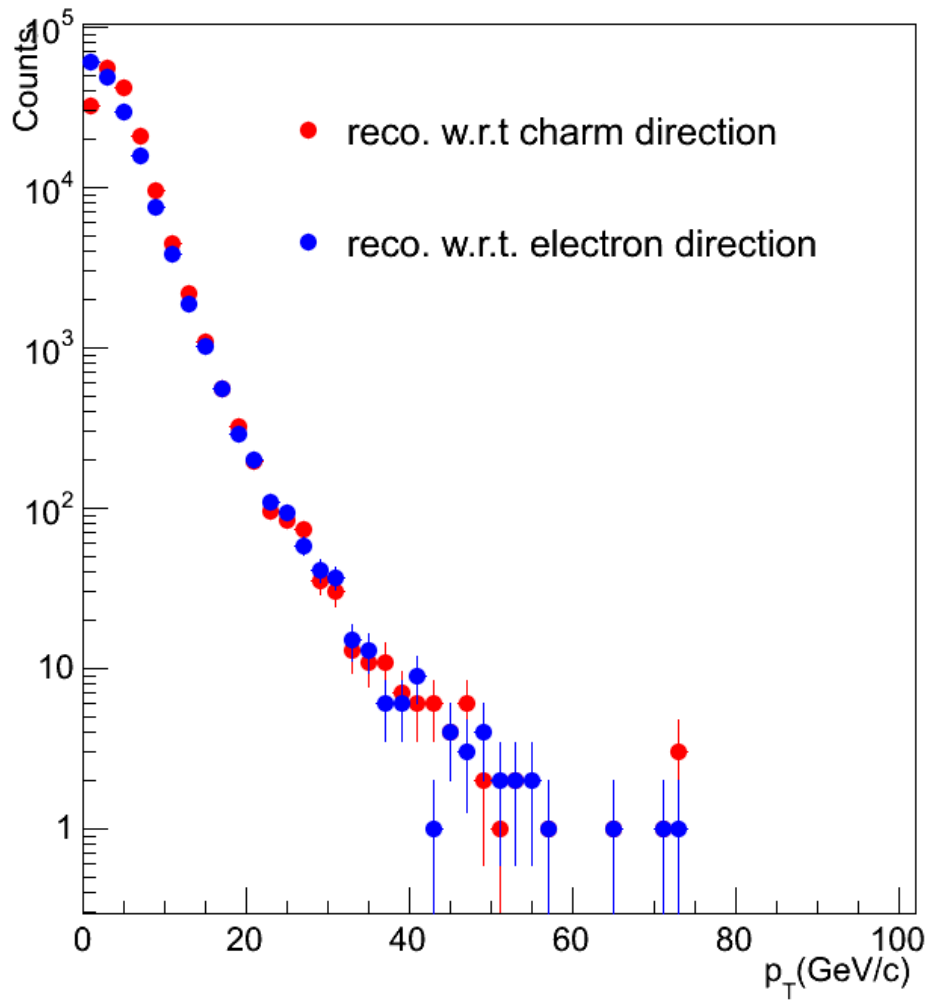
MB

### reco w.r.t. electron or charm



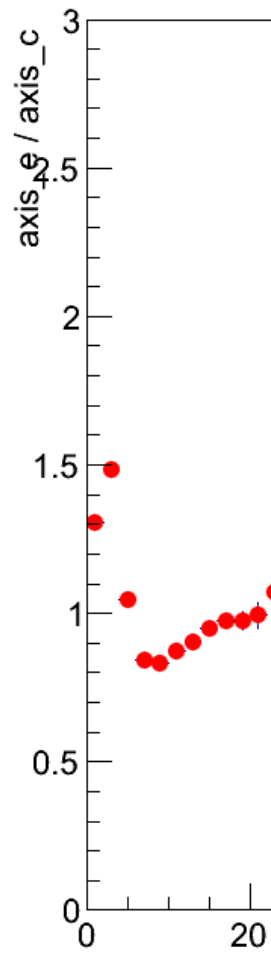
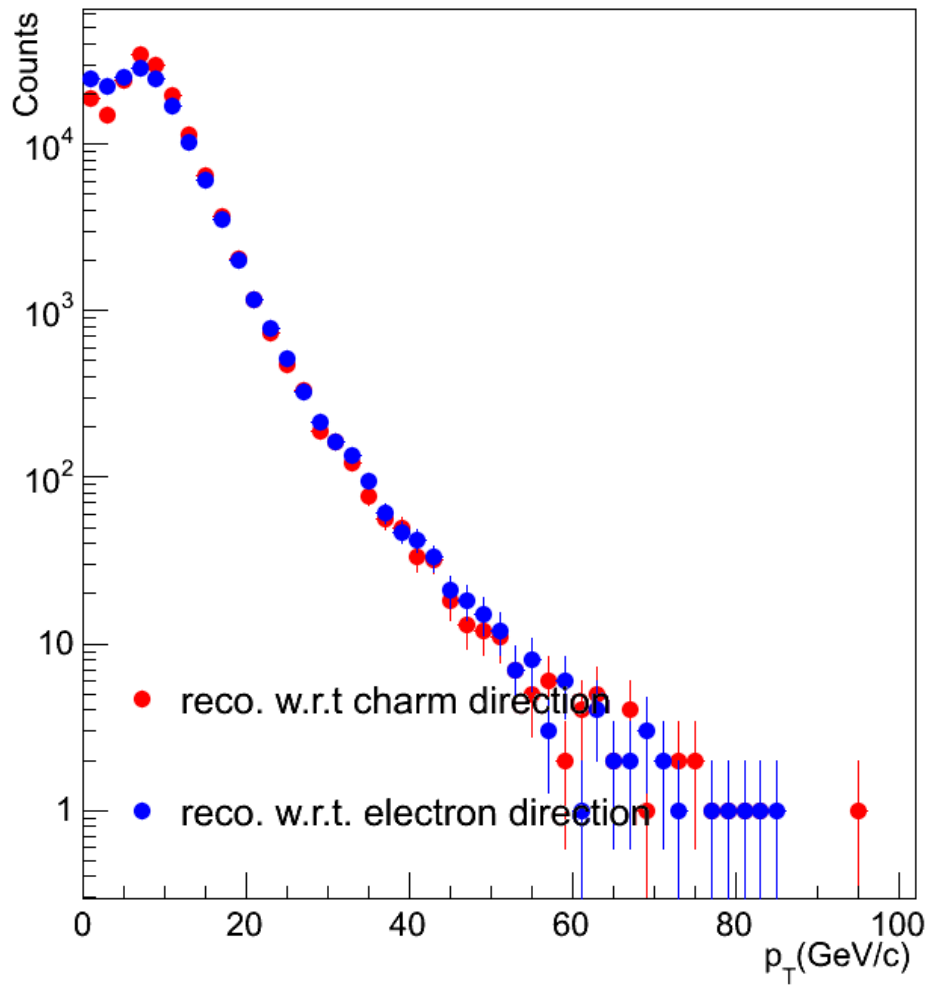
$p_T \text{ at } M_{m} > 3$

reco w.r.t. electron or charm



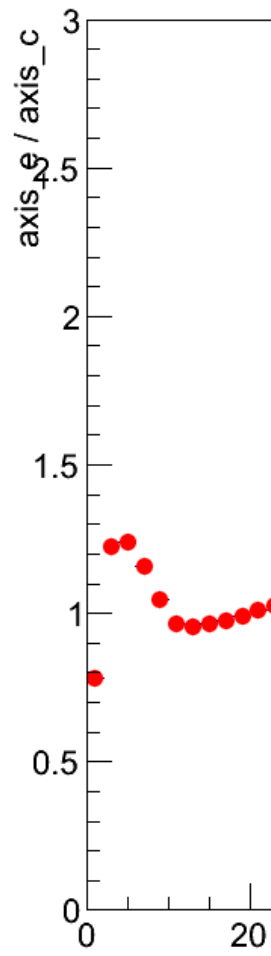
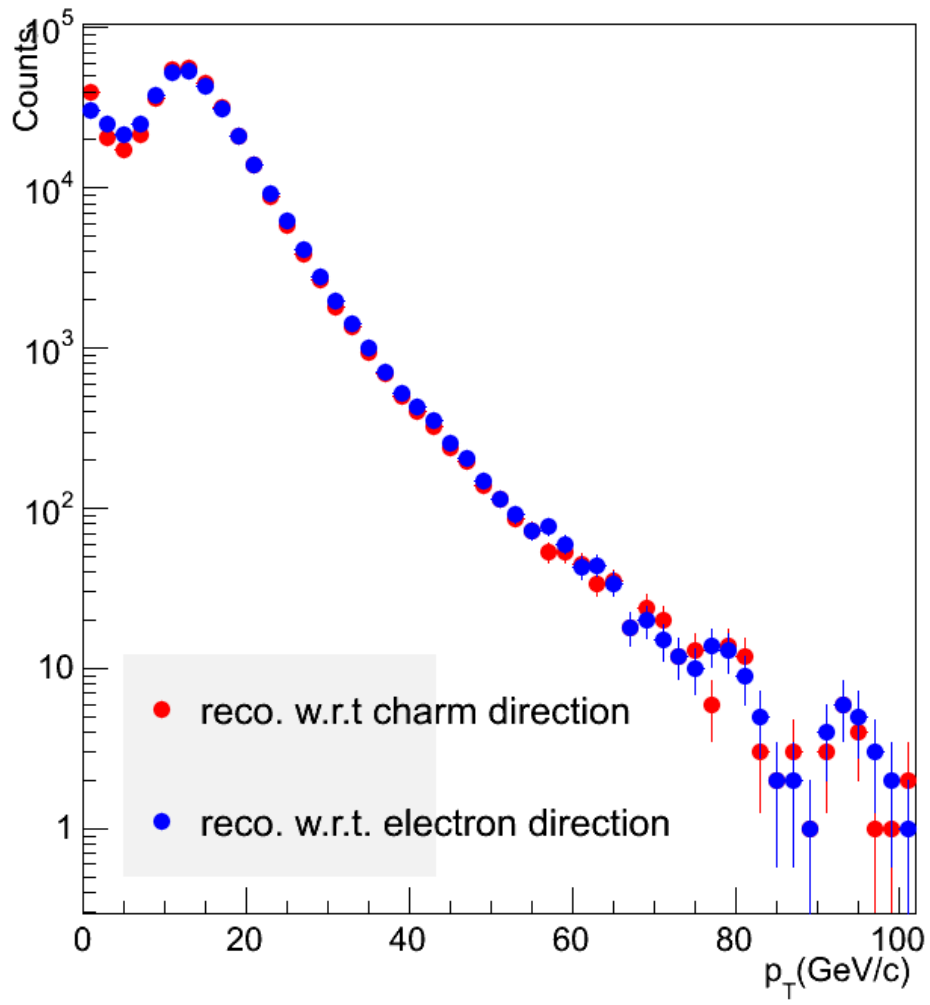
$p_{T\hat{M}} > 6$

### reco w.r.t. electron or charm



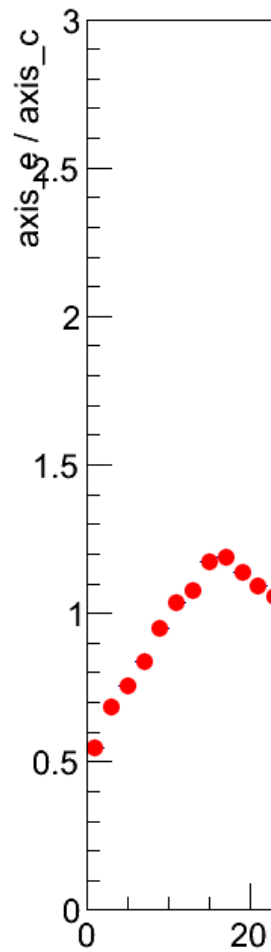
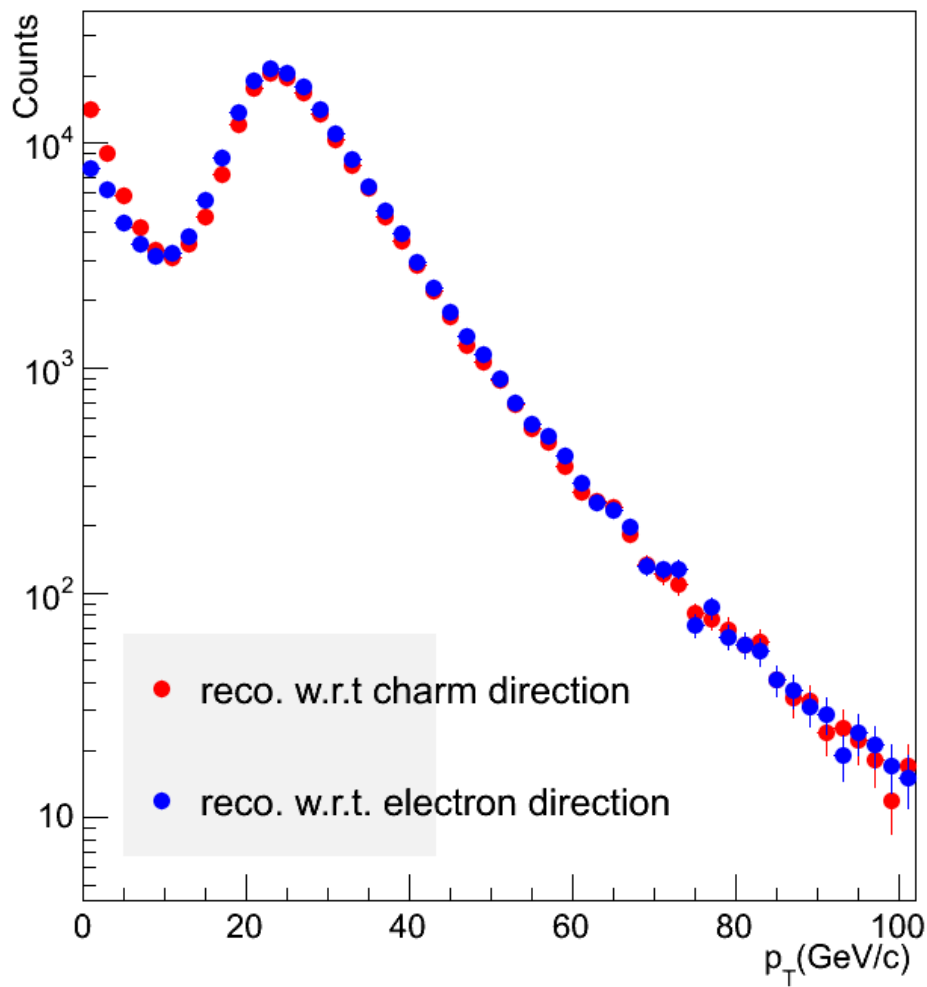
**$p_{T\text{Hat}} M m > 10$**

reco w.r.t. electron or charm



$p_{T\text{Hat}} M m > 20$

reco w.r.t. electron or charm



This topic: Main > 07092013: PYTHIA AStudy  
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