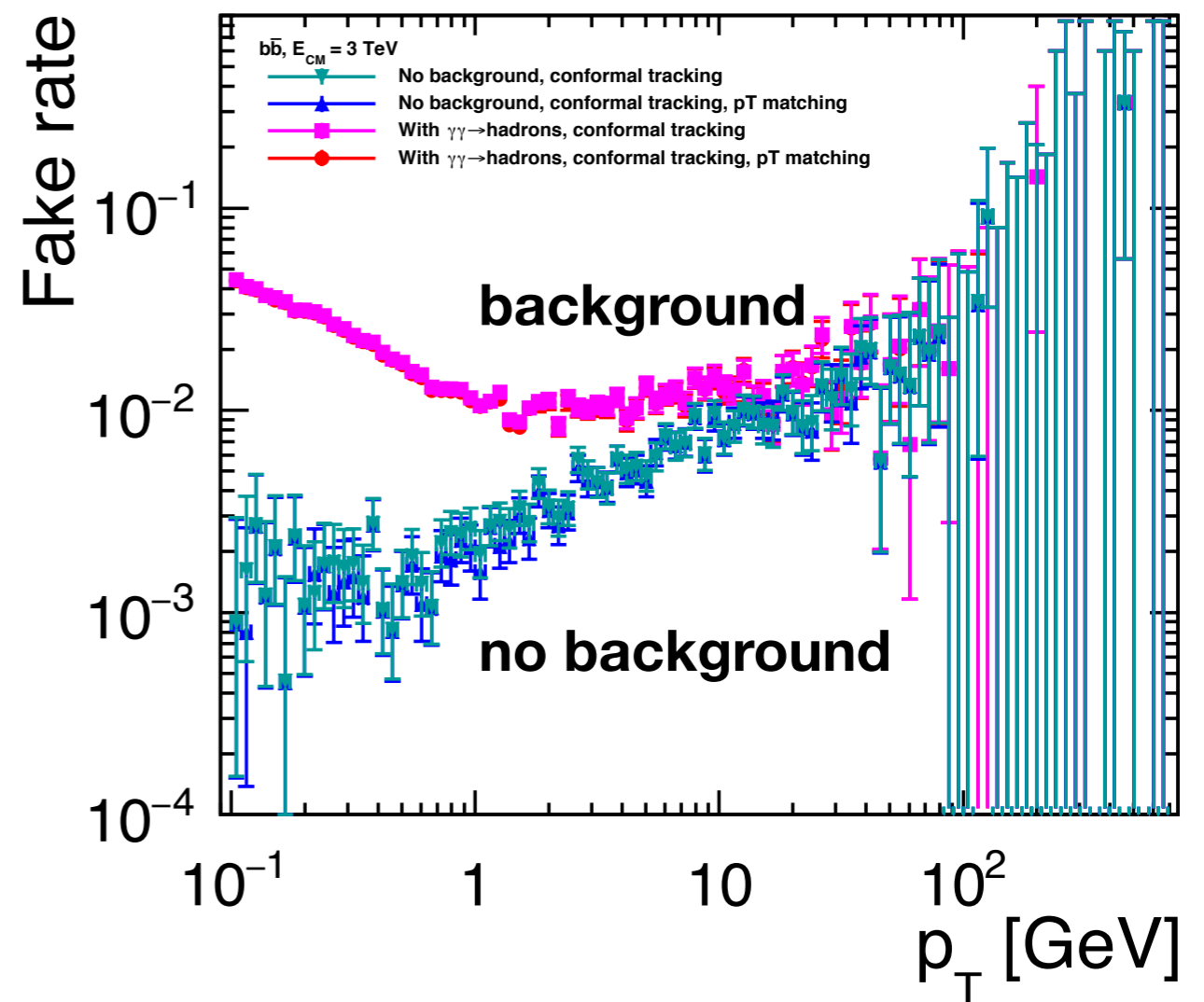
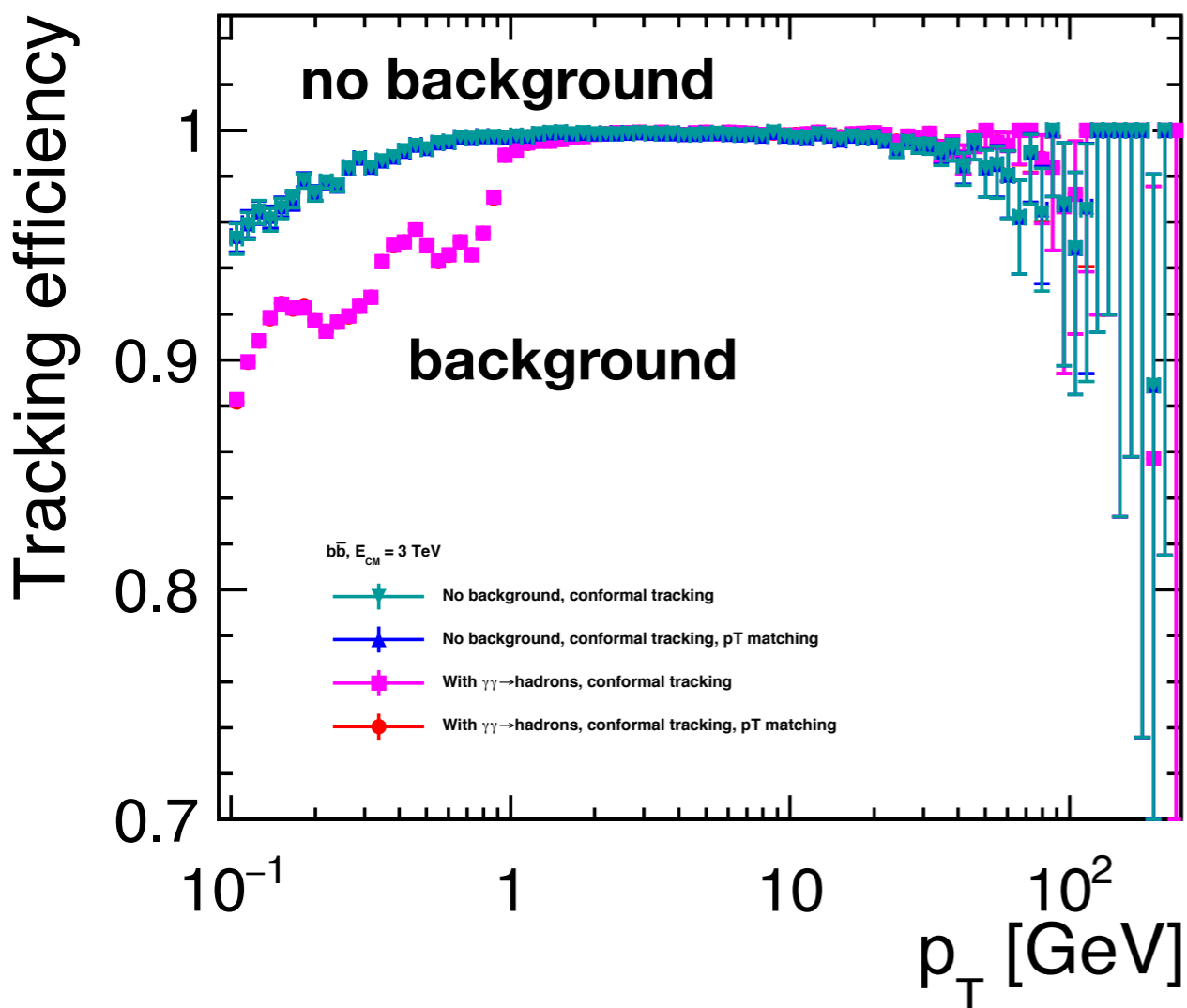


# Introducing pT matching for recovering fakes

- ◆ Default definition of fakes: tracks whose hits belonging to the associated MC particles are less than 75%
- ◆ pT matching applied to recover some fakes: if  $p_{T\_track} - p_{T\_true} < 1\% p_{T\_true}$  it is not fake

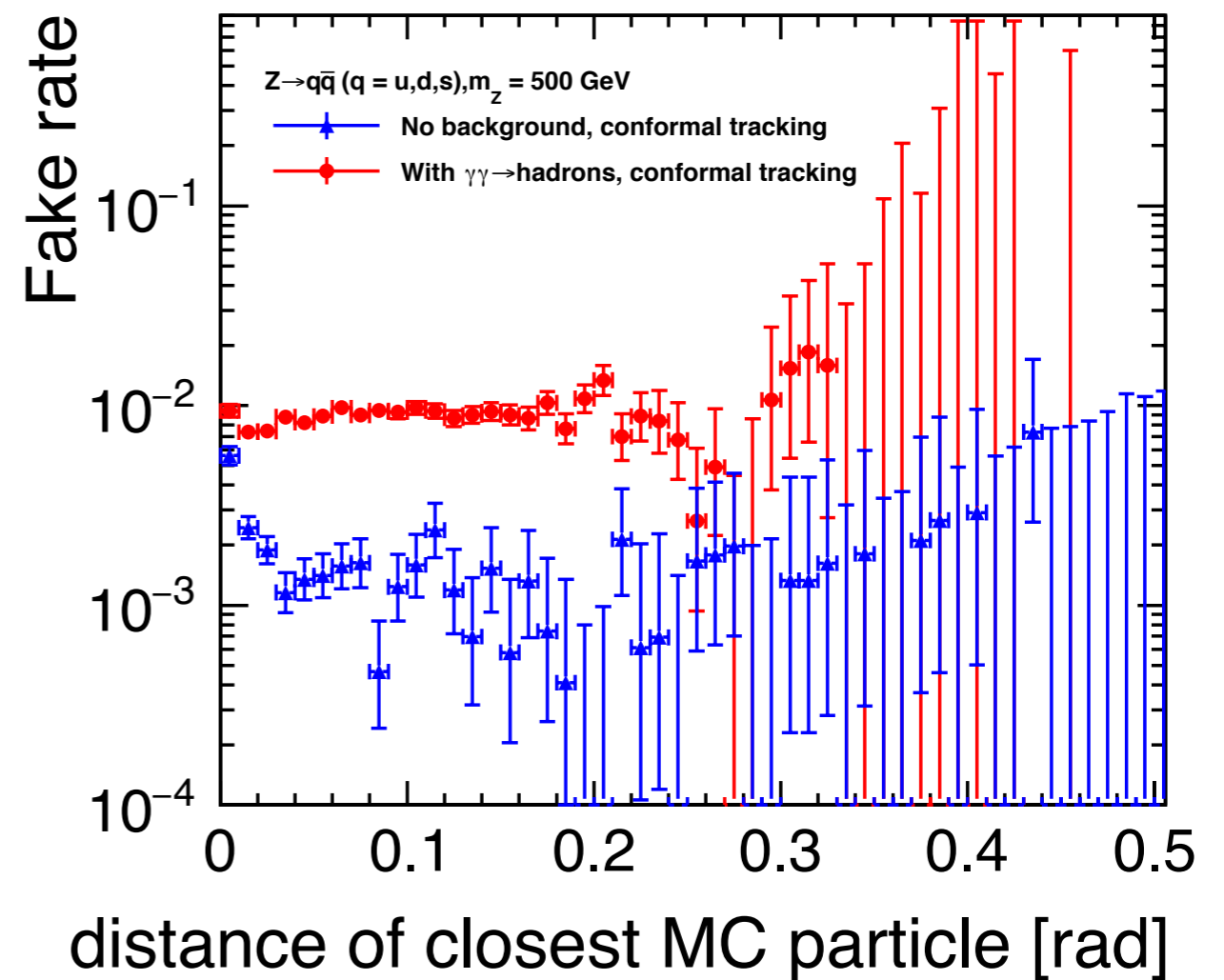
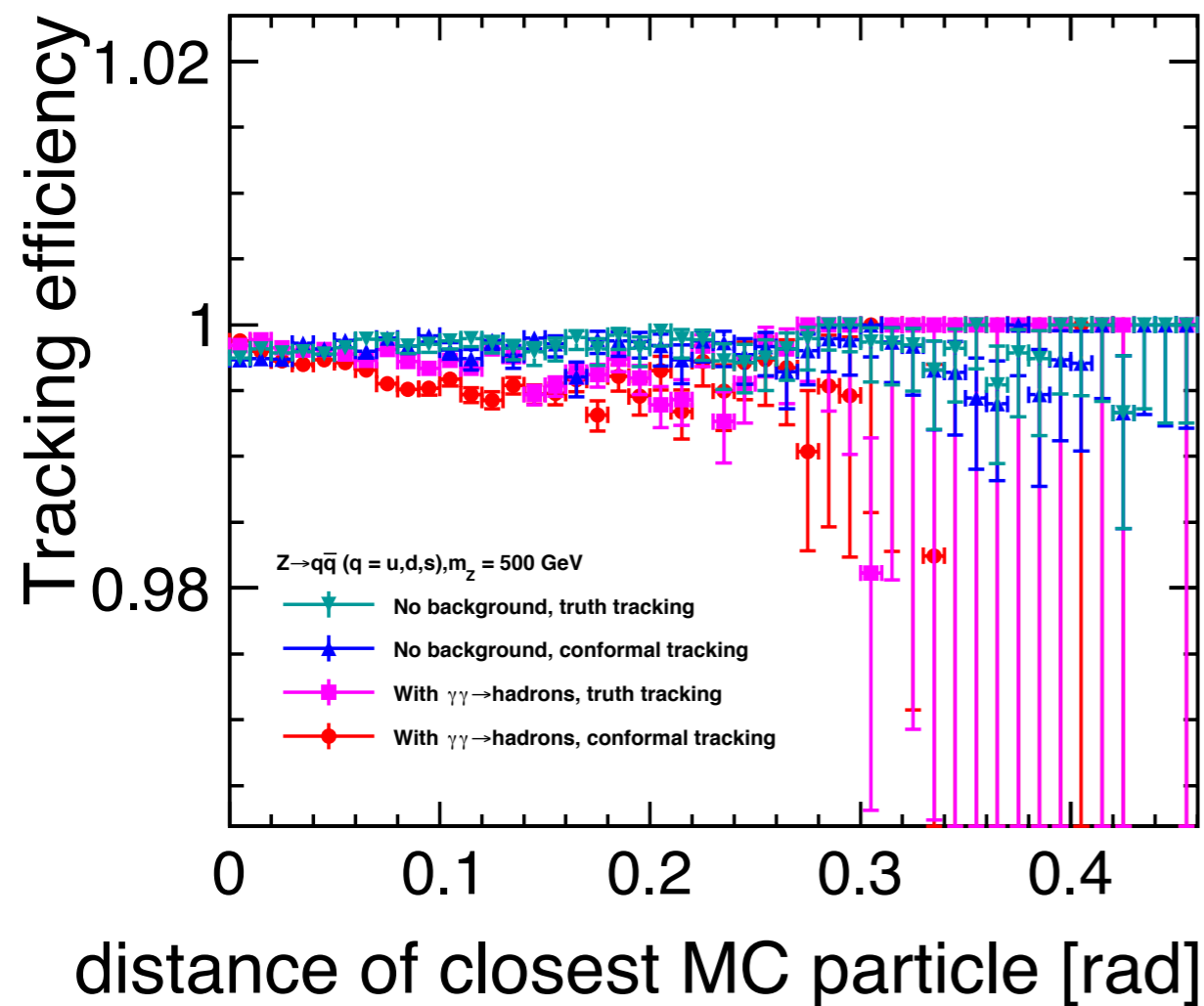


◆ Conclusion: pT matching not significant

# Efficiencies and fakes vs dist closest MC particle

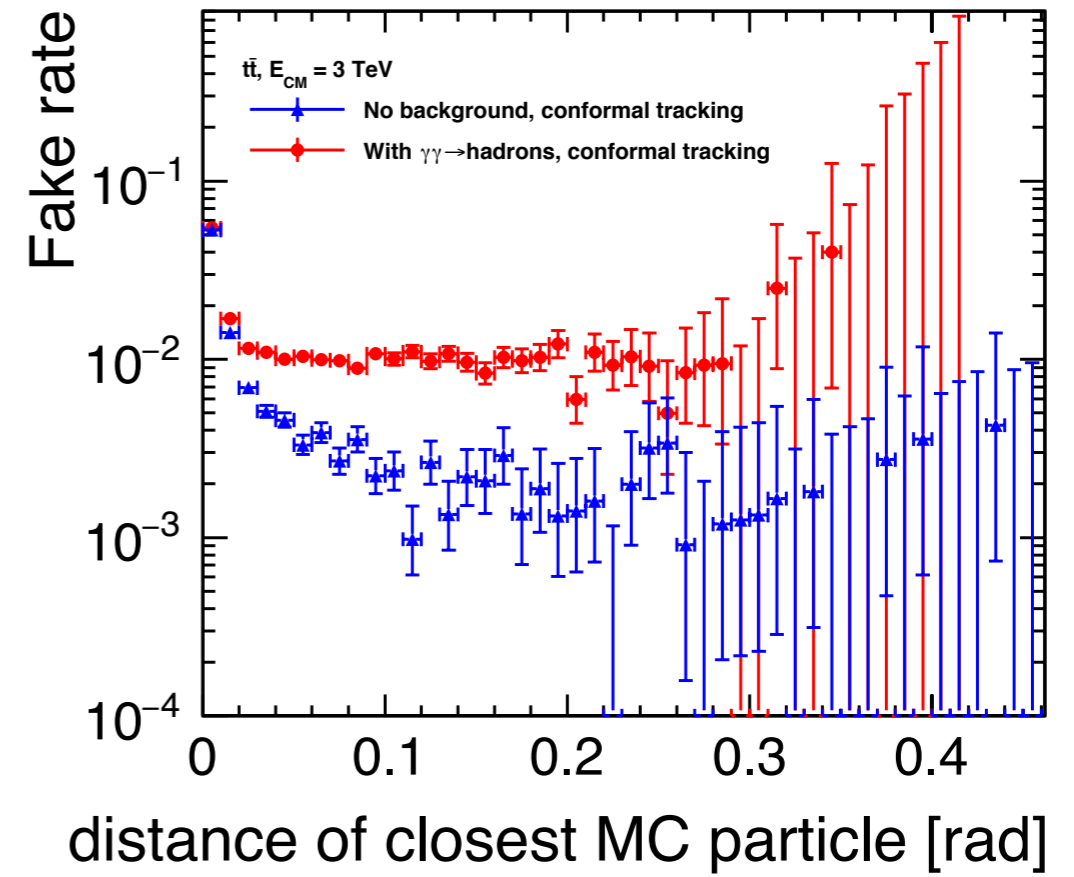
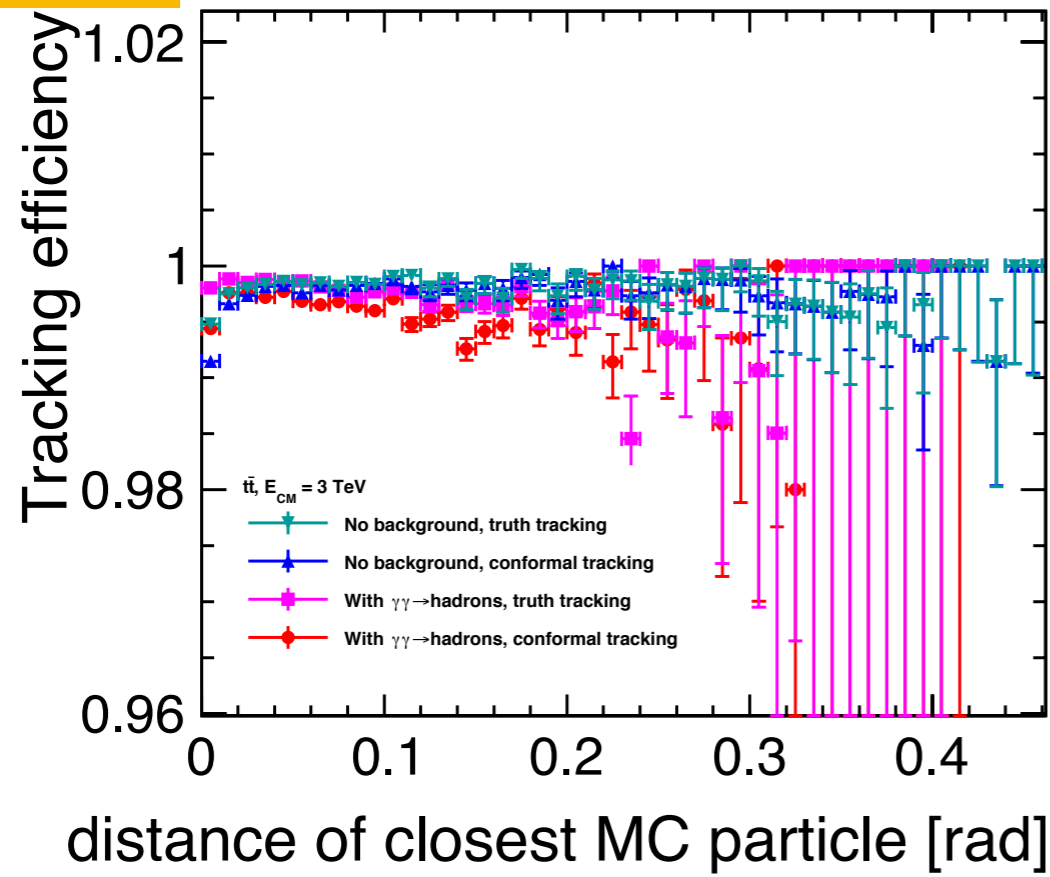
- ◆ Dist closest MC Particle = TLorentzVector.DeltaR => 2D dist in (eta,phi) space
- ◆ The close MCParticle is required to be stable and charged

Zuds@500GeV



- ◆ Conclusion: pT matching not significant

# tt̄@3TeV



# bb̄@3TeV

