

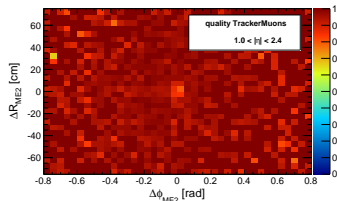
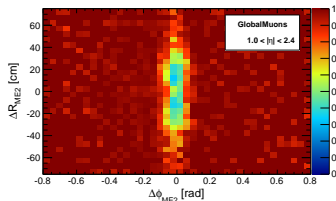
# Muon Selection for MuJets



Signature: groups of muons ( $\geq 2$ ) pointing in nearly the same direction

$p_T > 5 \text{ GeV}/c$ ,  $|\eta| < 2.4$ , TrackerMuons with  $N_{\text{segments}} \geq 2$  (arbitrated segments),  $N_{\text{tracker hits}} \geq 8$

- Why TrackerMuons? GlobalMuon efficiency degrades when muons cross in muon system (from StandAloneMuon-building stage)



- Fake rates in inclusive-muon backgrounds are minimized with  $N_{\text{segments}} \geq 2$  (the arbitration is crucial for eliminating tracks that happen to be pointing at the same segments)

