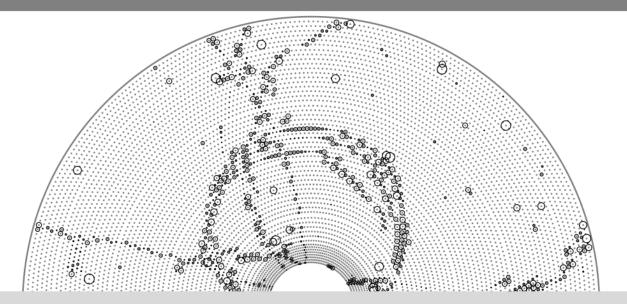




Performance of CDC Standalone Tracking (update)

Viktor Trusov 16.12.2016 | weekly tracking meeting

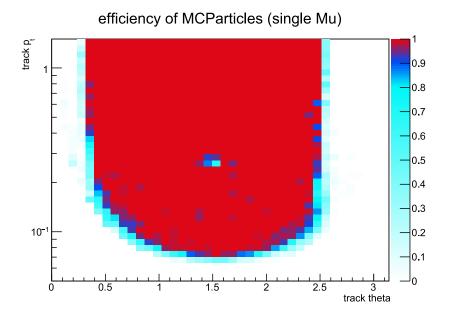
Karlsruhe Institute of Technology (KIT)



Introduction

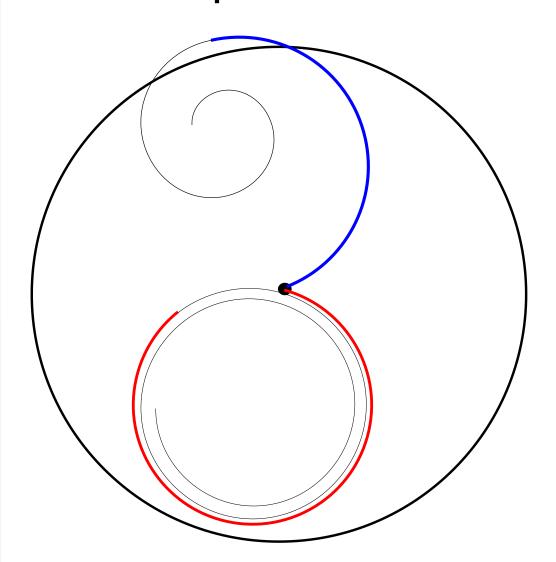


- Standard CDC tracking reconstruction is used
- No GenFit -> only track candidates are considered
- Only relations between MCTracks and PRTracks were used, no kinematic matching
- Only one MCParticle per event generated and considered in the study
 - Daughters are skipped
- Problem in case of long tracks we get wrong tracks matching



Event example



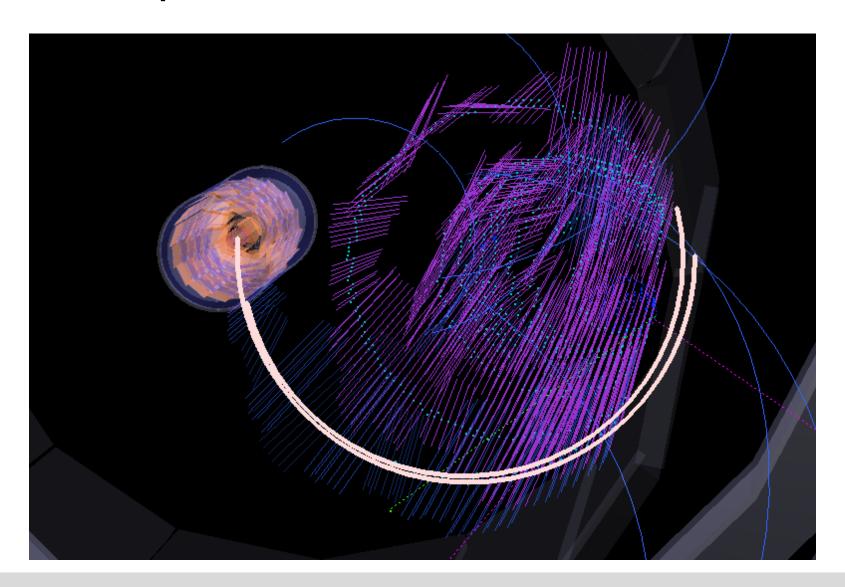


Track reached the TOP detector and lost a lot of energy

Track curls inside of the CDC

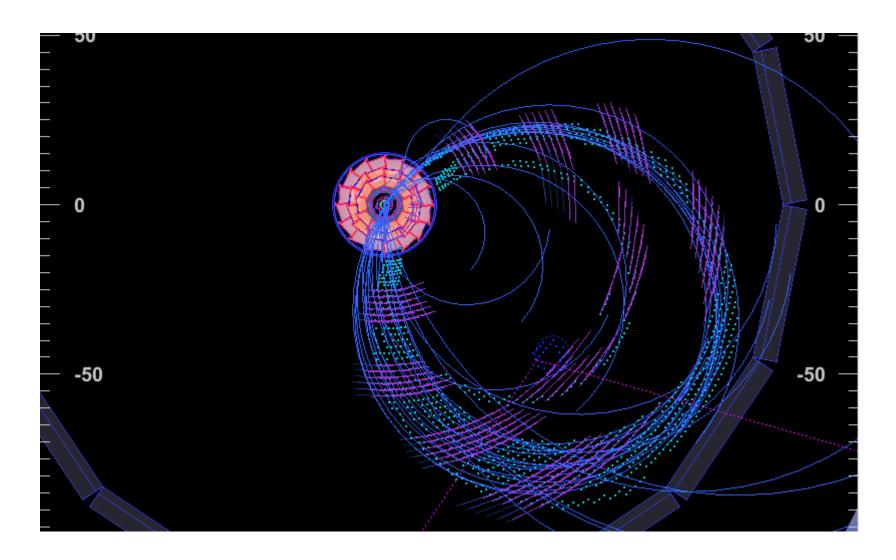
Event example





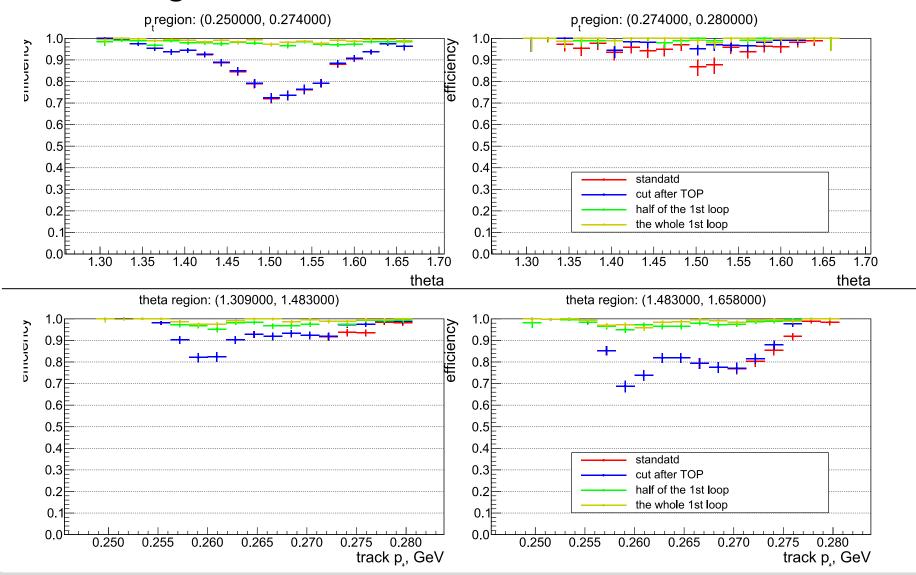
Event example





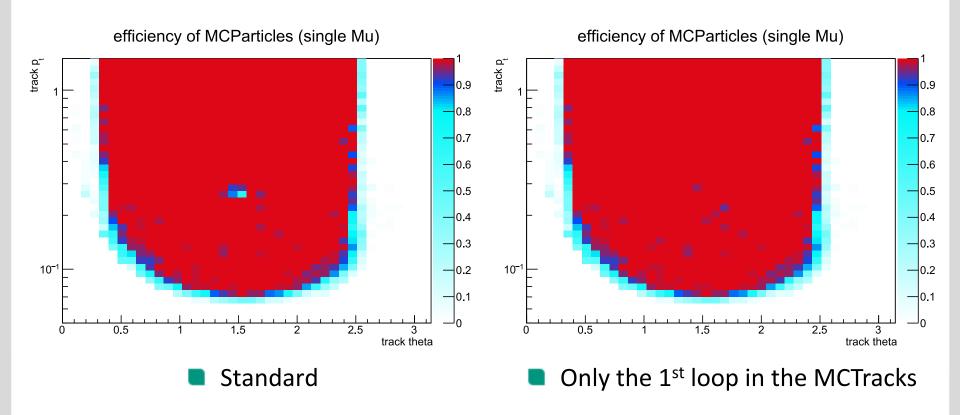
Shortening of the MC RecoTracks





Efficiency

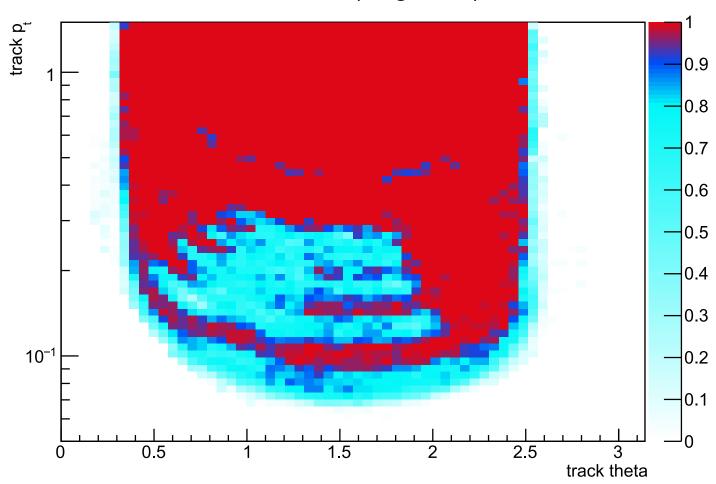






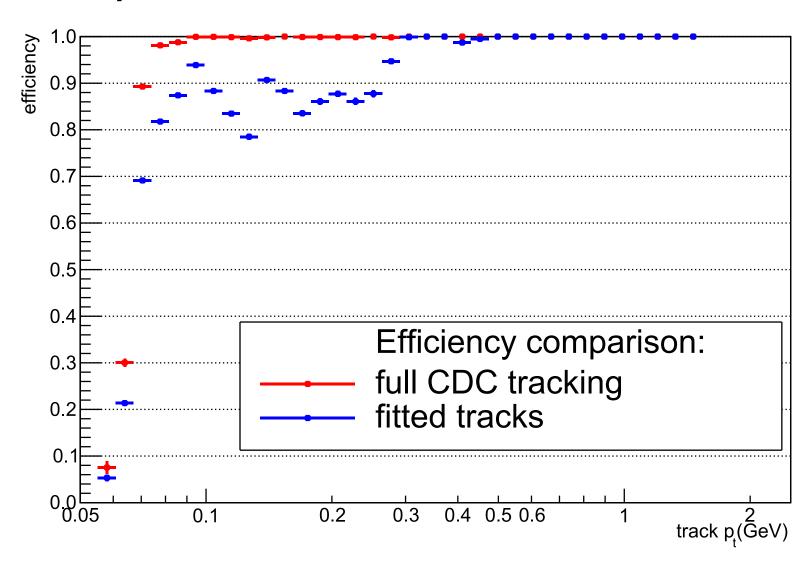


fitted tracks (single Mu)



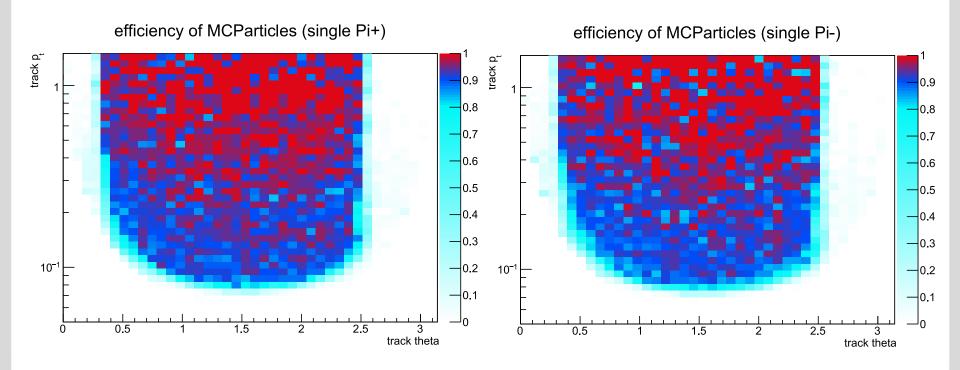
Efficiency after GenFit





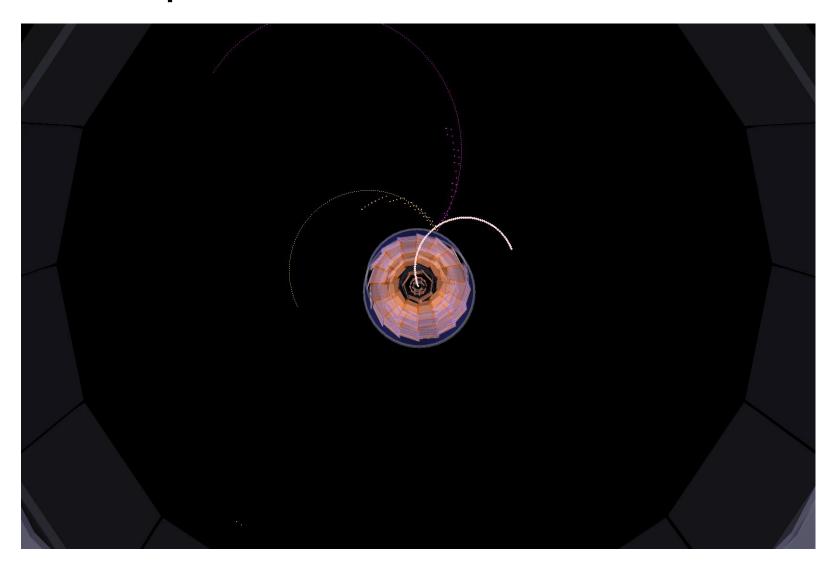
Material effects (pions)





Event examples





Event examples



