Global Fitting

黄 震 2017.10.12

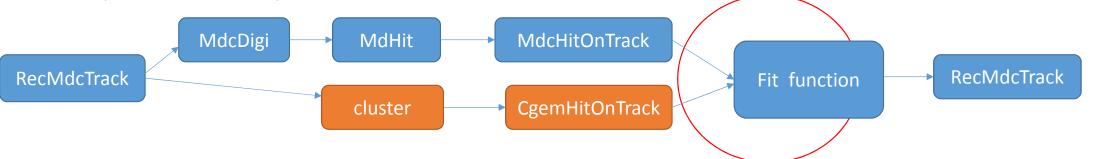
motivation

- Create a new fitting package (CgemMdcFitAlg)that fit tracks which contain ODC hits and CGEM clusters.
- Take the track reconstruction results (RecMdcTrack) which contains hit list and helix initial parameters of a track as input, and output the fitting result(RecMdcTrack)
- Can still work in case of without CGEM



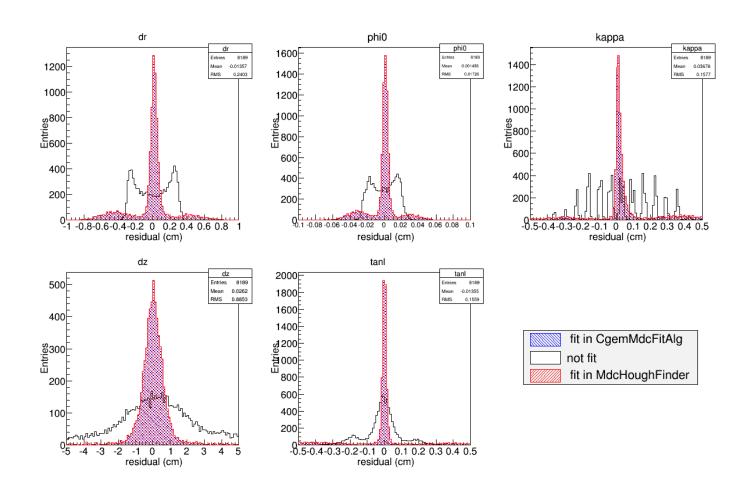
Algorithm

 For MDC hits, it invoke the fitting functions of MdcPatRec package (almost done)



 For CGEM clusters, we intend to extent the fitting functions of MdcPatRec package to deal with the CGEM clusters.(next to do)

Fitting Result of ODC Hits



Sample:

10000 Events of fix Pt muon reconstructed by MdcHoughFinder

Momentum: 1Gev/c

dr cut : 3cm dz cut : 30 cm

Hit number cut: 9

Note: we take single reconstructed

tracks into account only