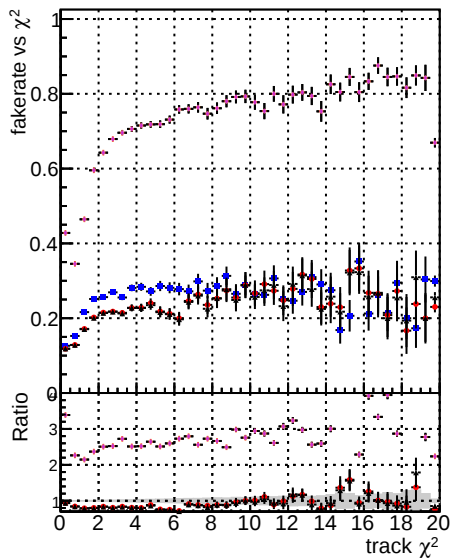
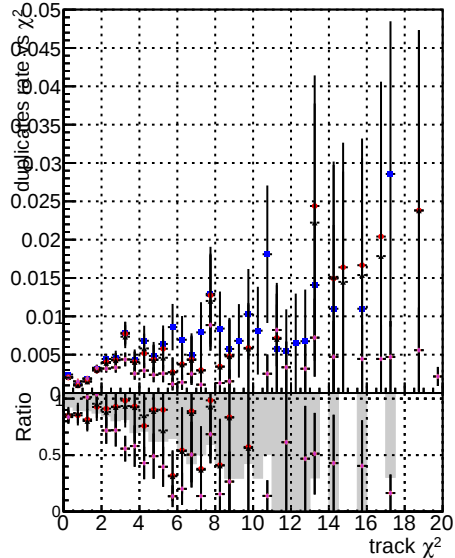


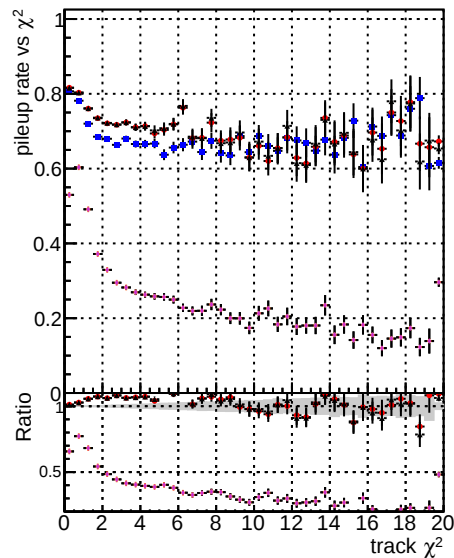
Fake rate vs normalized  $\chi^2$



Duplicates Rate vs normalized  $\chi^2$



Pileup rate vs normalized  $\chi^2$



Fake rate vs.   
 DOMestep3   
 DOMestep3+GKF   
 DOMestep3+GKF+PileupLess   
 DOMestep3+GKF+PileupLess+DefaultNewTOLDsample-ref4

