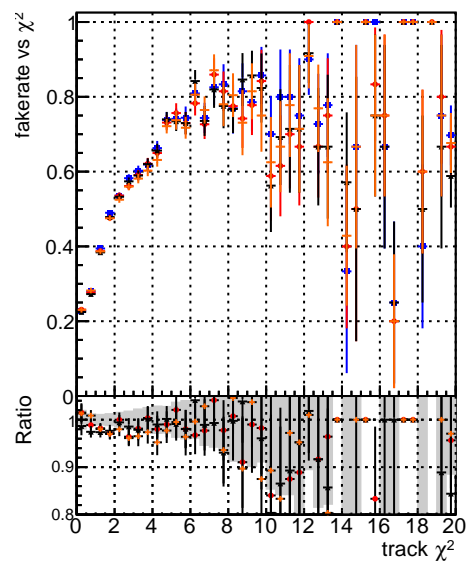
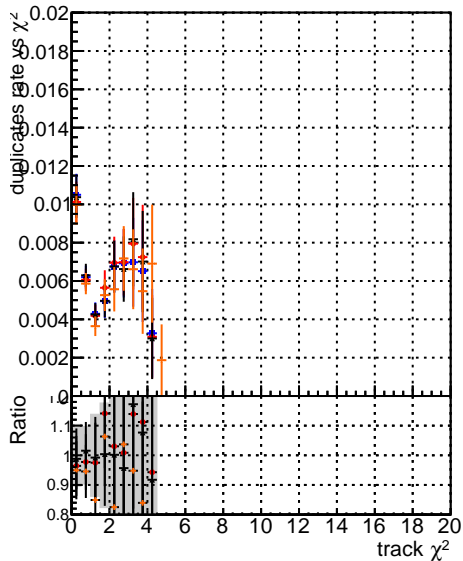


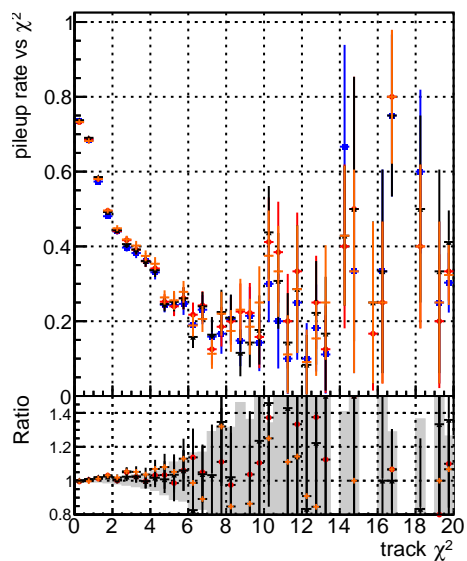
**Fake rate vs normalized  $\chi^2$**



**Duplicates Rate vs normalized  $\chi^2$**



**Pileup rate vs normalized  $\chi^2$**



**Fake rate vs.** DOM original step2 tbar-phase1-newgeom  
DOM pixelCPE template step2 tbar-phase1-newgeom  
DOM pixelCPE template curchisquares step2 tbar-phase1-newgeom test

