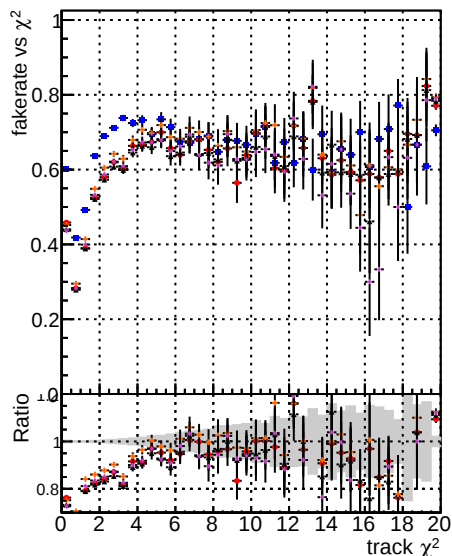
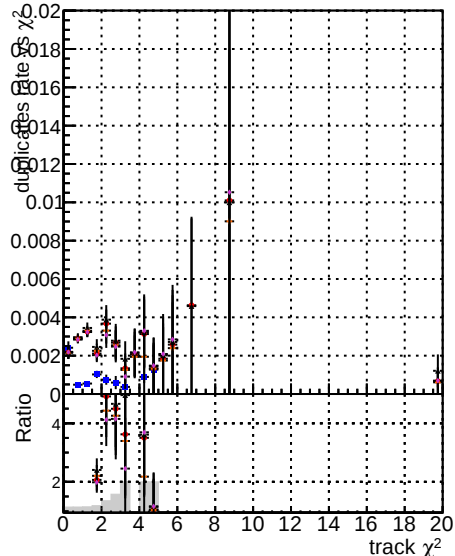


Fake rate vs normalized  $\chi^2$



Duplicates Rate vs normalized  $\chi^2$



pileup rate vs normalized  $\chi^2$

