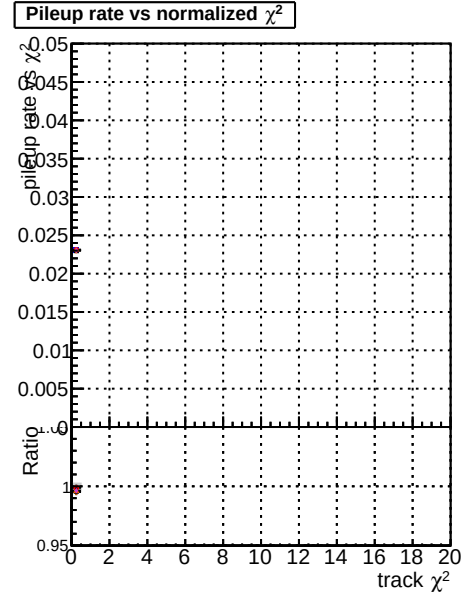
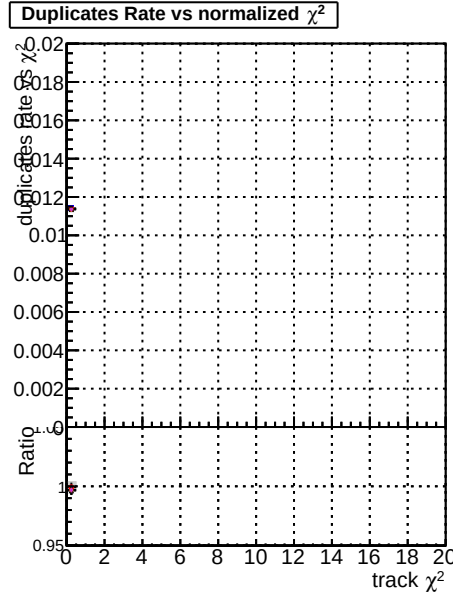
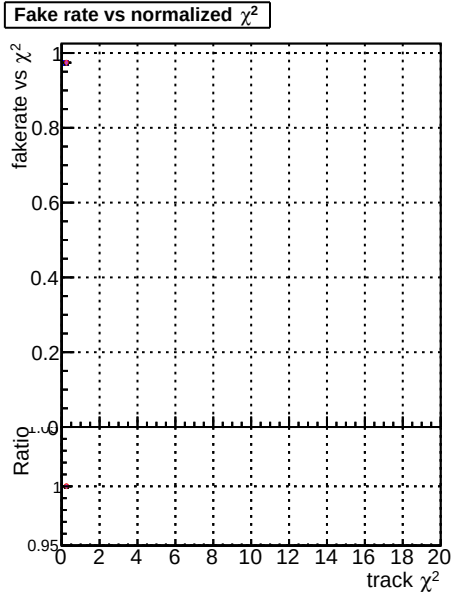
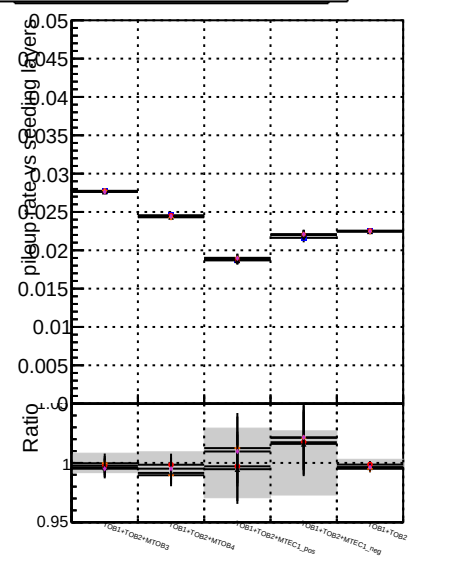
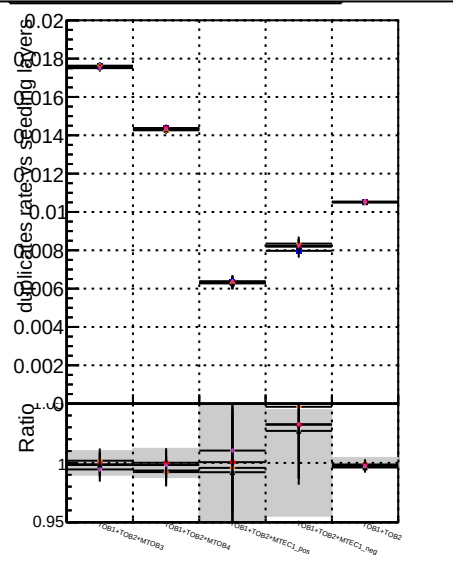
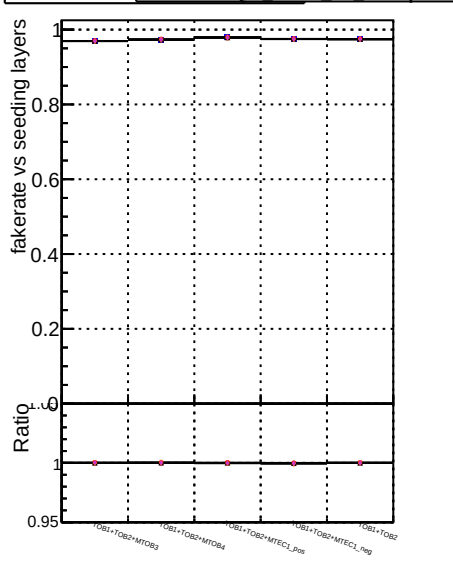




Fake rate vs.  $\chi^2$

Duplicates Rate vs normalized  $\chi^2$

Pileup rate vs normalized  $\chi^2$



Fake rate vs. seeding layers

Duplicates rate vs seeding layers

Pileup rate vs seeding layers