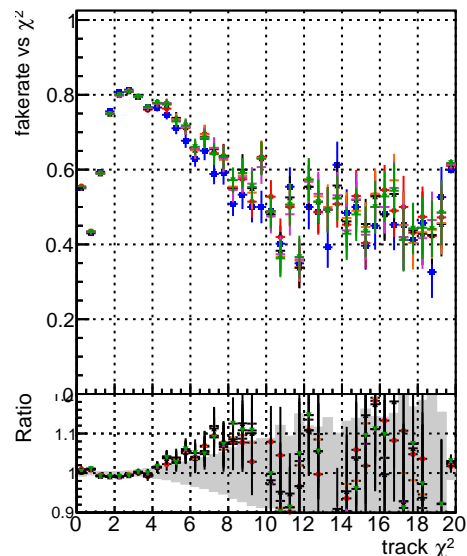
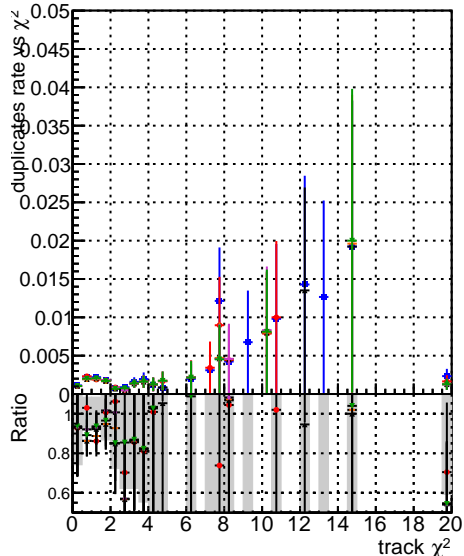


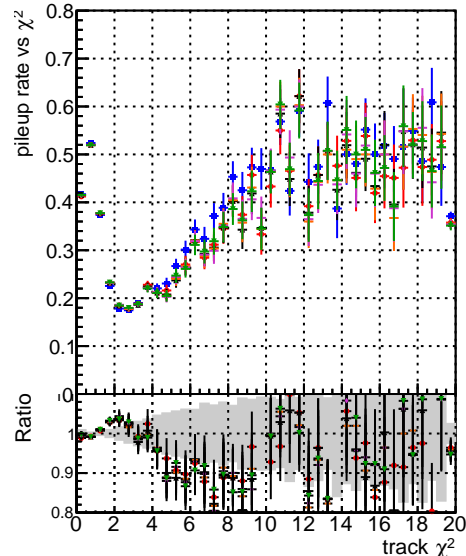
### Fake rate vs normalized $\chi^2$



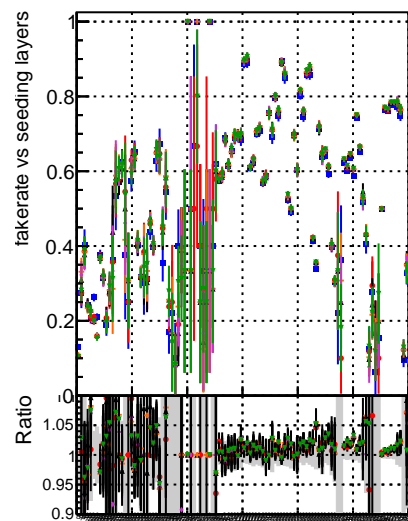
### Duplicates Rate vs normalized $\chi^2$



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



Fake rate vs.
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Ratio  
duplicates rate vs seeding layers

Ratio  
pileup rate vs seeding layers