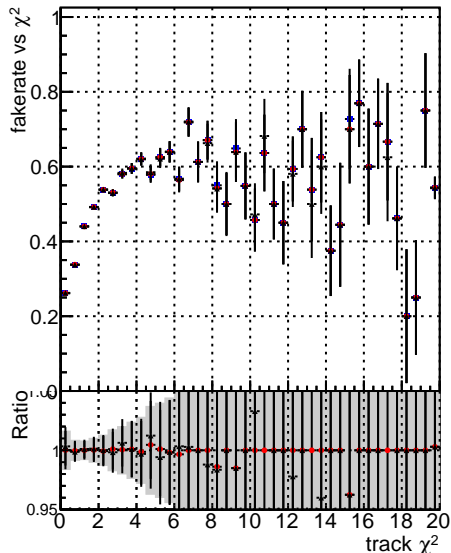
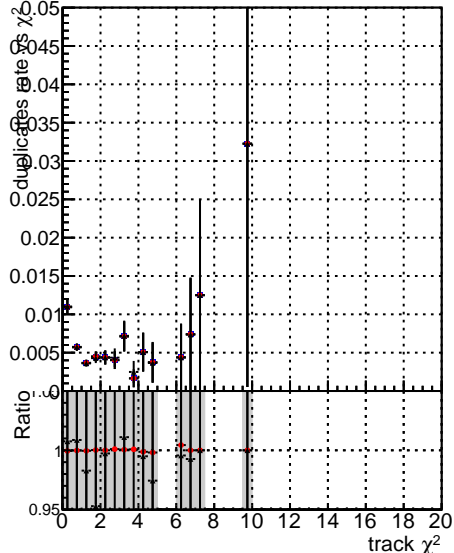


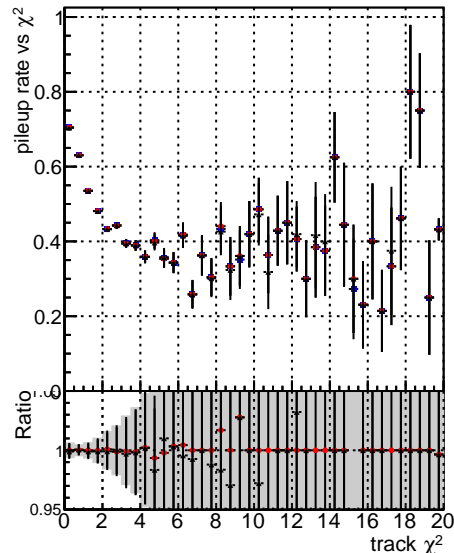
**Fake rate vs normalized  $\chi^2$**



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



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



**Fake rate vs.**

- BQM ttbarPU mkFit\_5iter
- BQM ttbarPU mkFit\_5iter updated
- BQM ttbarPU mkFit\_5iter updated PR111
- BQM ttbarPU mkFit\_5iter updated fixPropagation

