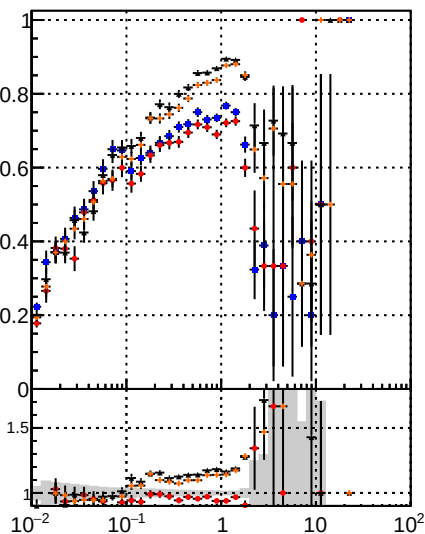
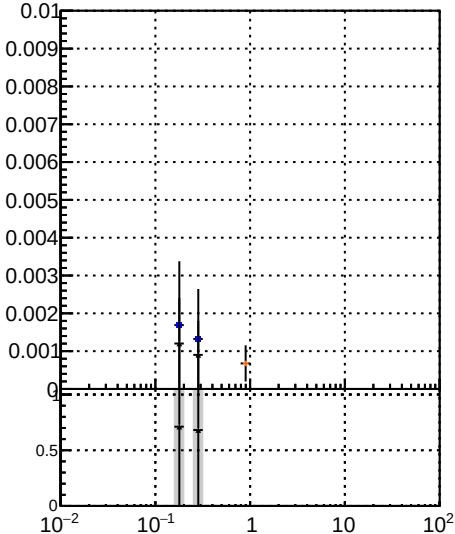


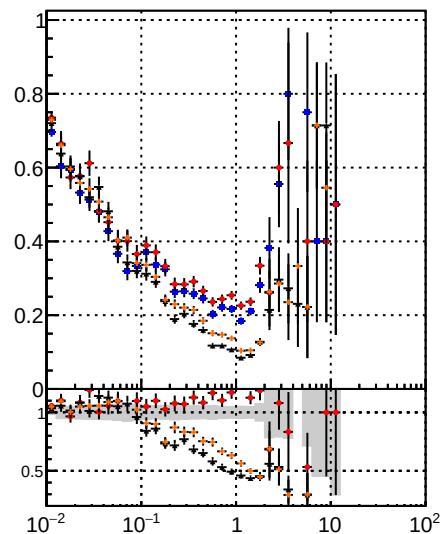
### Fake rate vs vertpos



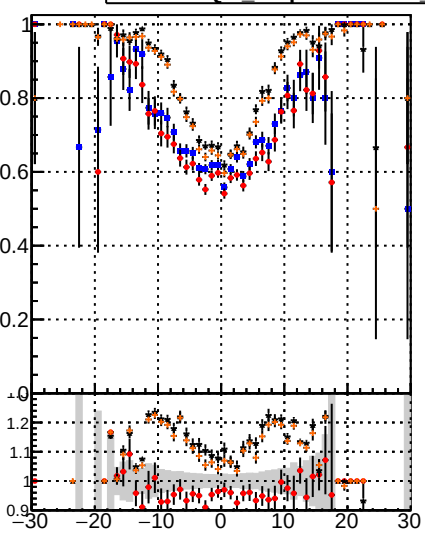
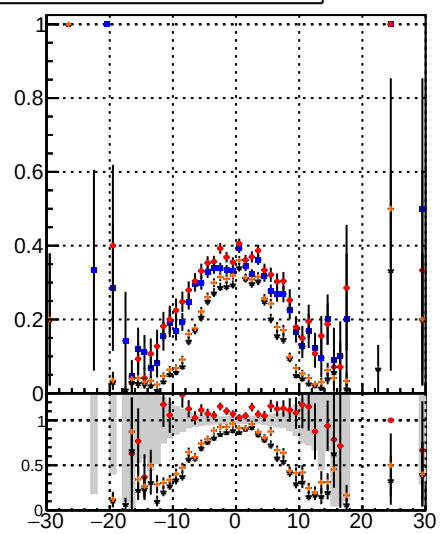
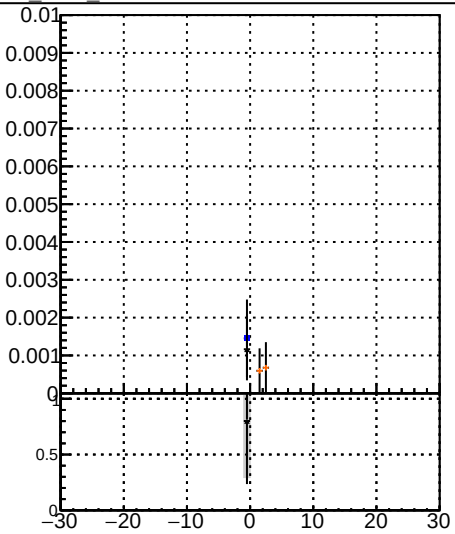
### Duplicates Rate vs vertpos



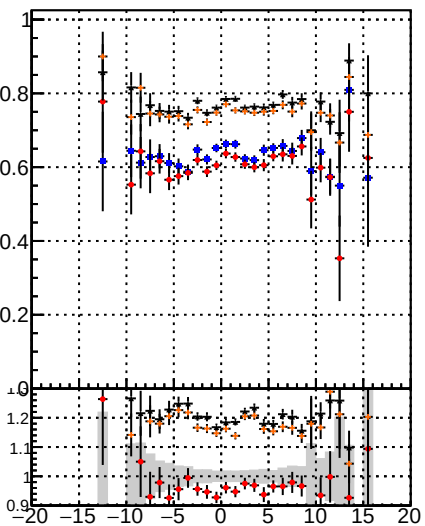
### Pileup rate vs vertpos



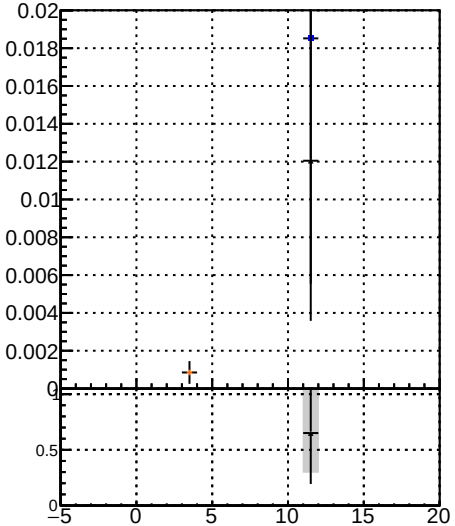
### Fake rate vs v


$$\frac{E_{it}^{BDT}}{E_{it}^{BDT}}$$


### Fake rate vs. sim PV z



### Duplicates Rate vs sim PV z



### Pileup rate vs. sim PV z

