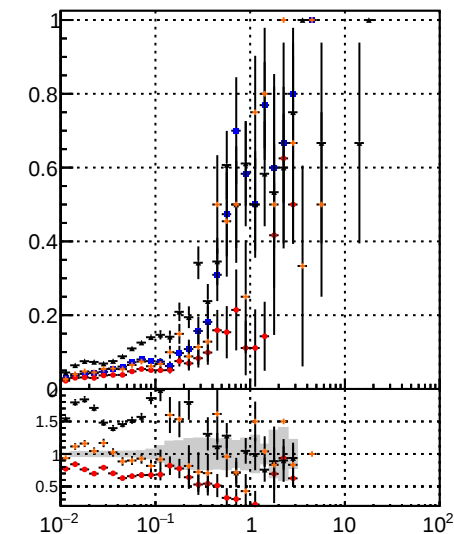
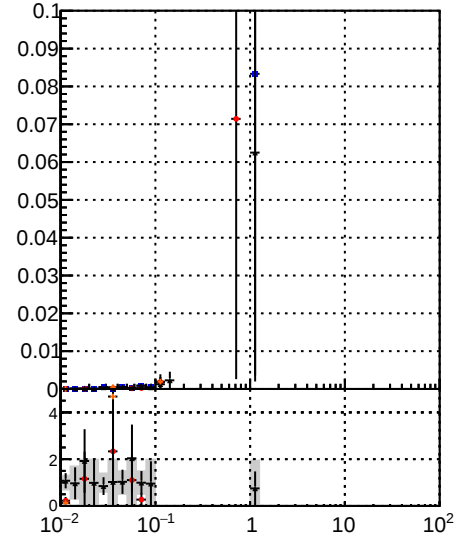


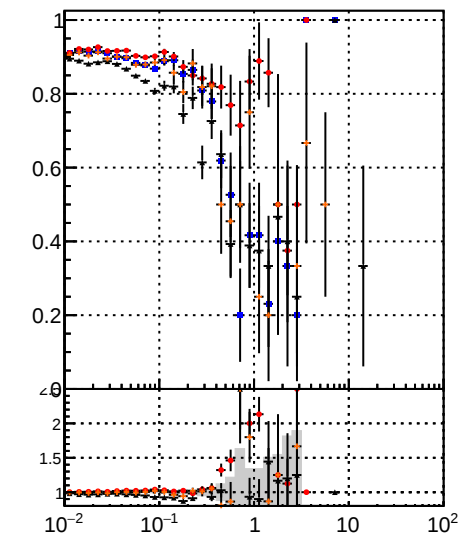
## Fake rate vs vertpos



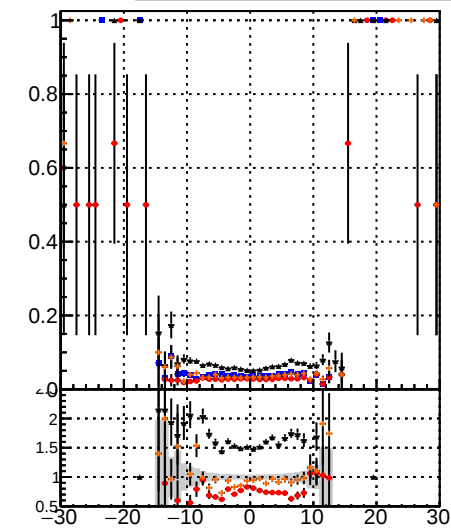
### Duplicates Rate vs vertpos



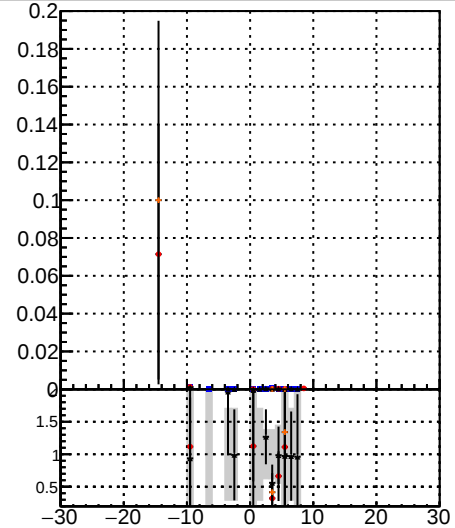
### Pileup rate vs vertpos



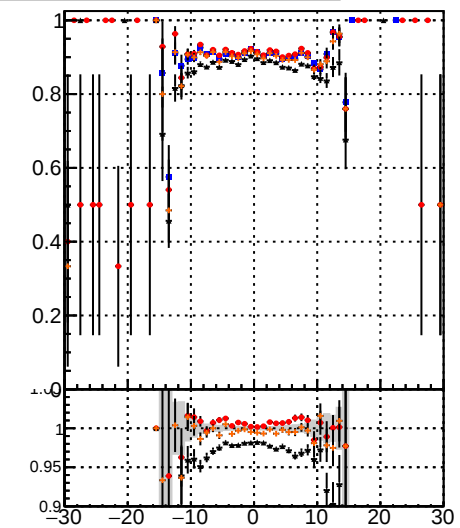
Fake rate vs  $\sqrt{s}$



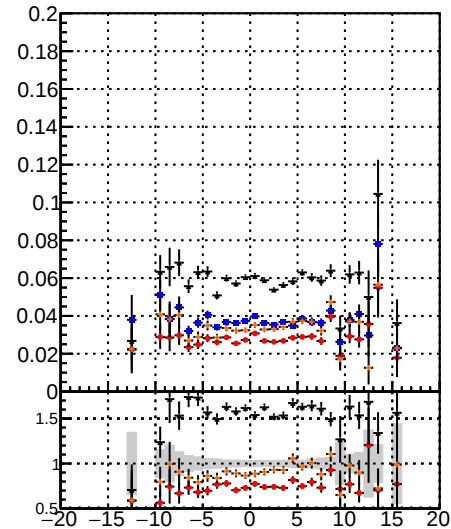
| Fit | BDT |
|-----|-----|
| Fit | BDT |



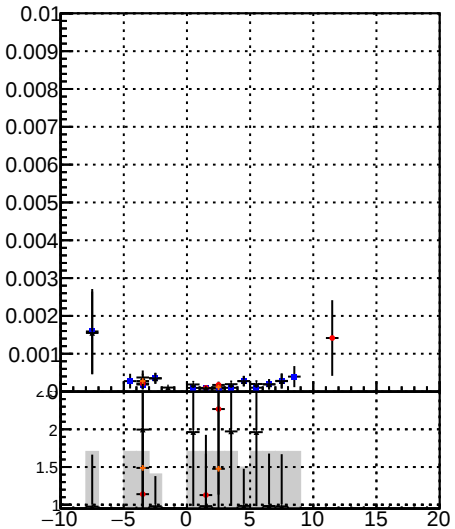
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### Fake rate vs. sim PV z



### Duplicates Rate vs sim PV z



### Pileup rate vs. sim PV z

