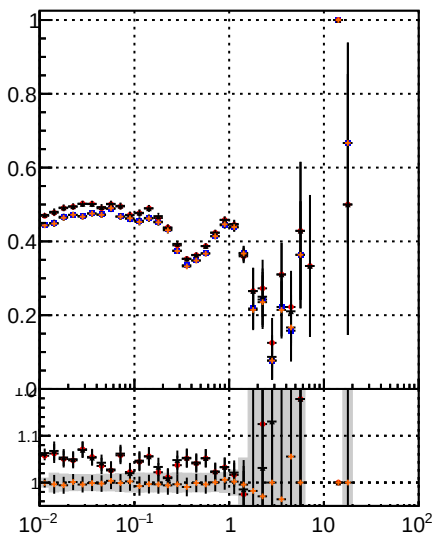
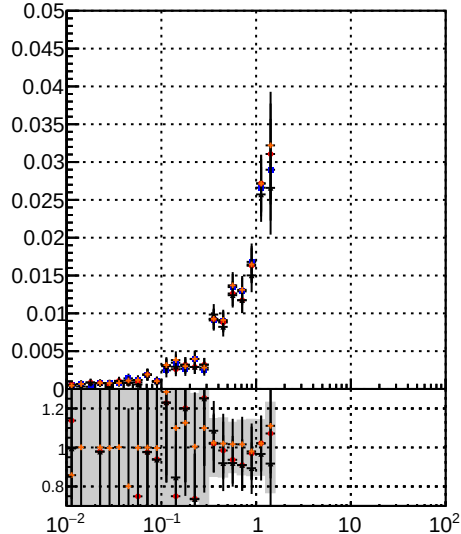


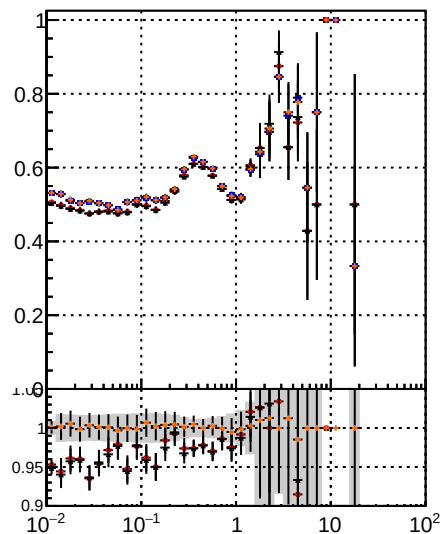
Fake rate vs vertpos



Duplicates Rate vs vertpos



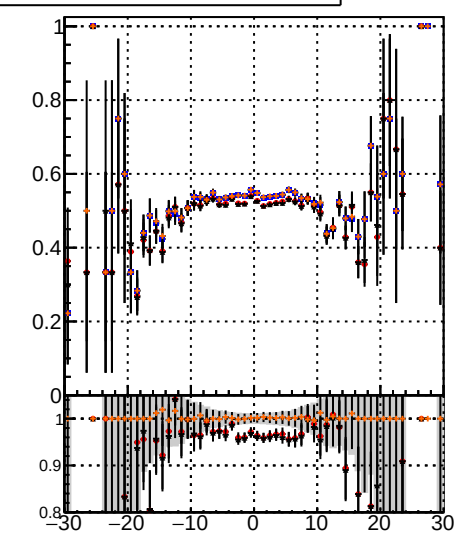
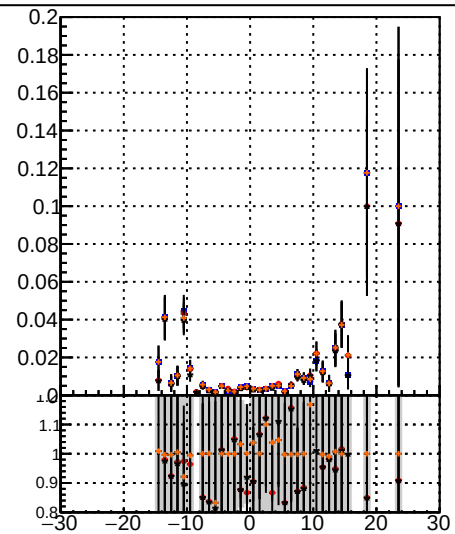
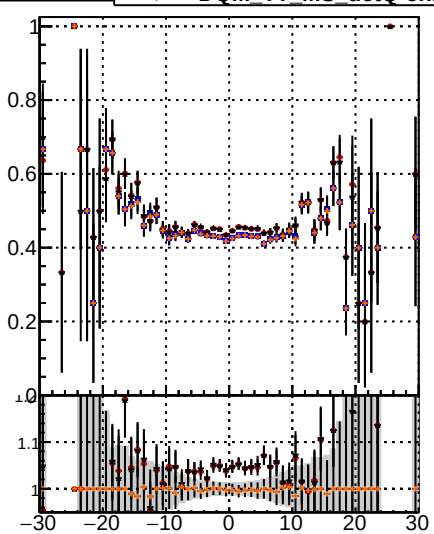
Pileup rate vs vertpos



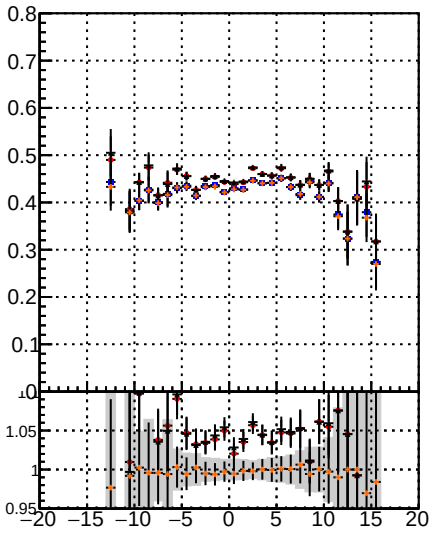
Fake rate vs $\sqrt{s}$

Legend:

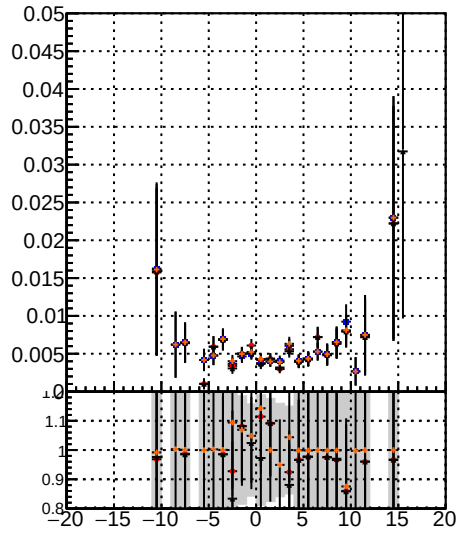
- Blue line: $\sqrt{s}$
- Red line: $\sqrt{s}$
- Black line: $\sqrt{s}$
- Orange line: $\sqrt{s}$
- Green line: $\sqrt{s}$
- Yellow line: $\sqrt{s}$
- Purple line: $\sqrt{s}$
- Light blue line: $\sqrt{s}$
- Light red line: $\sqrt{s}$
- Light green line: $\sqrt{s}$
- Light orange line: $\sqrt{s}$
- Light purple line: $\sqrt{s}$
- Light yellow line: $\sqrt{s}$
- Light pink line: $\sqrt{s}$
- Light brown line: $\sqrt{s}$
- Light grey line: $\sqrt{s}$
- Light blue line: $\sqrt{s}$
- Light red line: $\sqrt{s}$
- Light green line: $\sqrt{s}$
- Light orange line: $\sqrt{s}$
- Light purple line: $\sqrt{s}$
- Light yellow line: $\sqrt{s}$
- Light pink line: $\sqrt{s}$
- Light brown line: $\sqrt{s}$
- Light grey line: $\sqrt{s}$



Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

