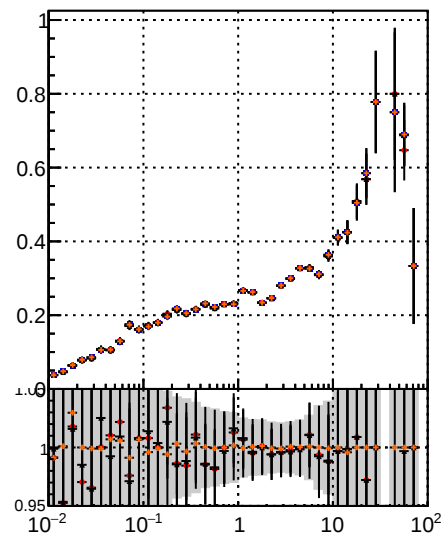
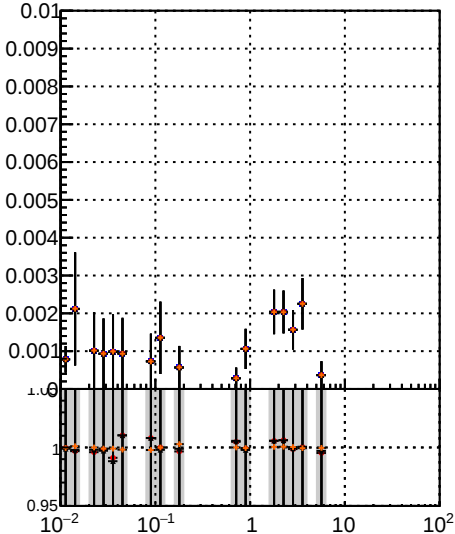


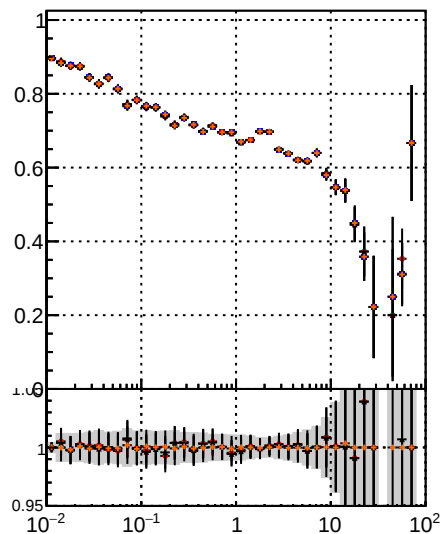
Fake rate vs vertpos



Duplicates Rate vs vertpos

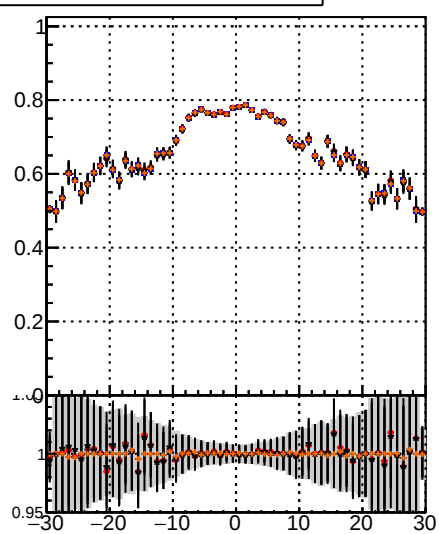
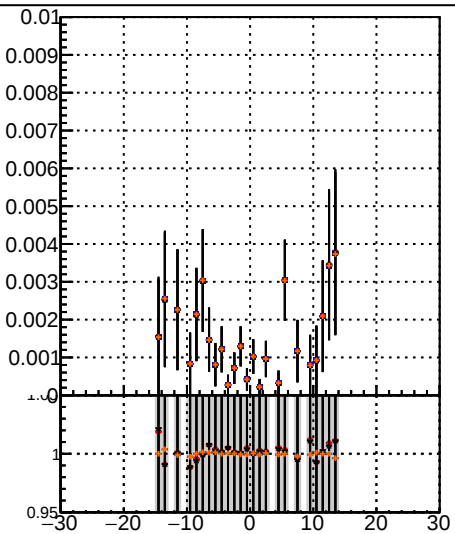
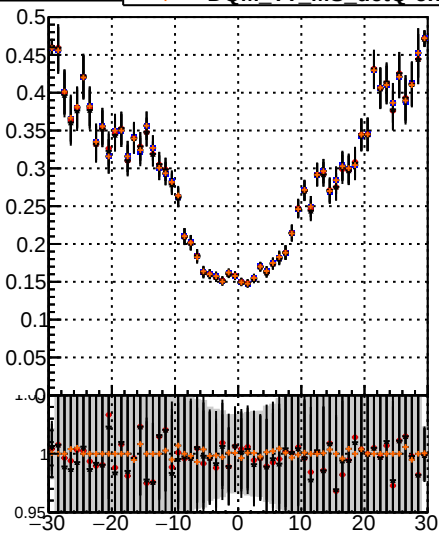


Pileup rate vs vertpos

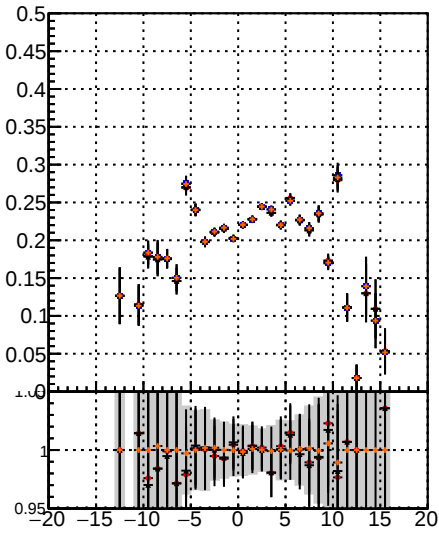


Legend for Fake rate vs v:

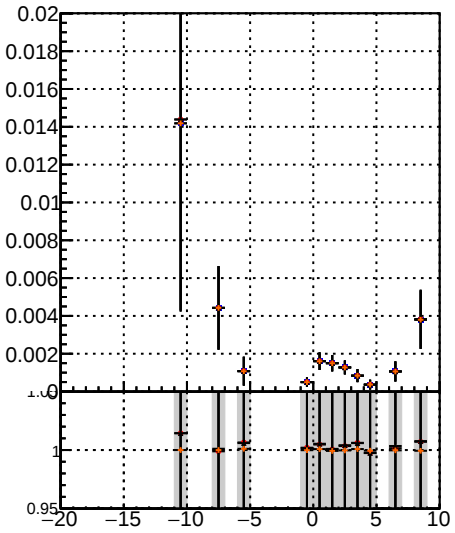
- Blue line: $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$
- Red line: $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS} \rightarrow \text{det0-dpdq}$
- Black line: $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS} \rightarrow \text{det0-chiz}$



Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

