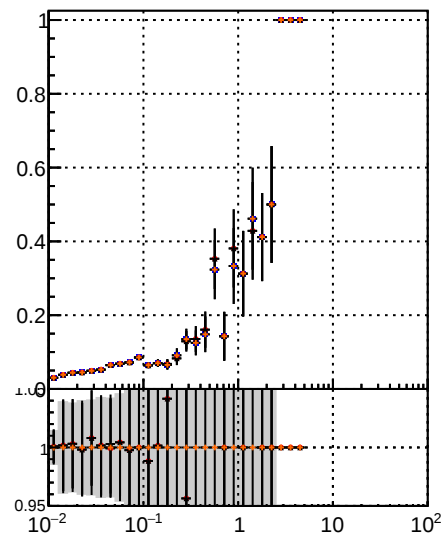
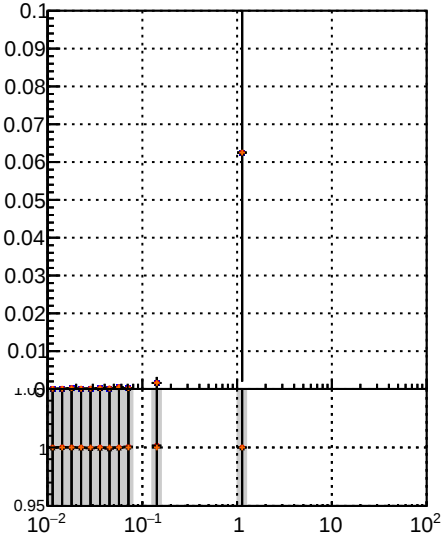


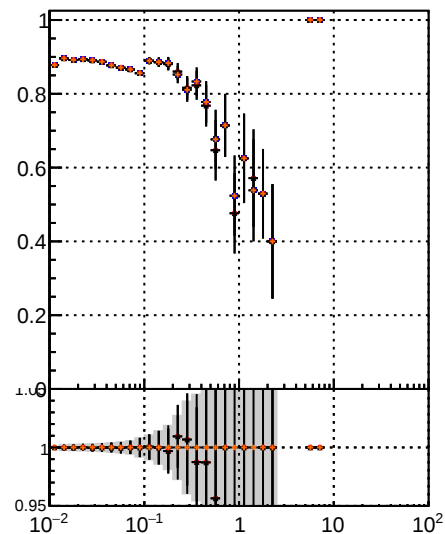
Fake rate vs vertpos



Duplicates Rate vs vertpos



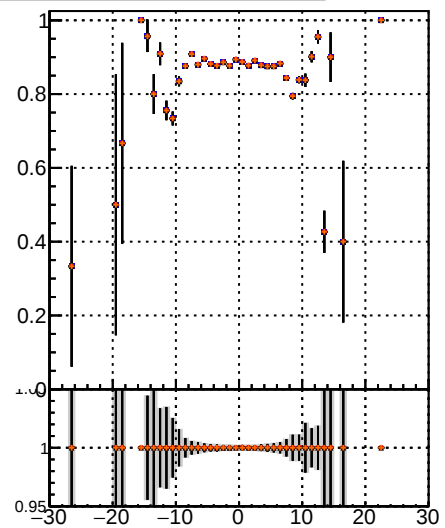
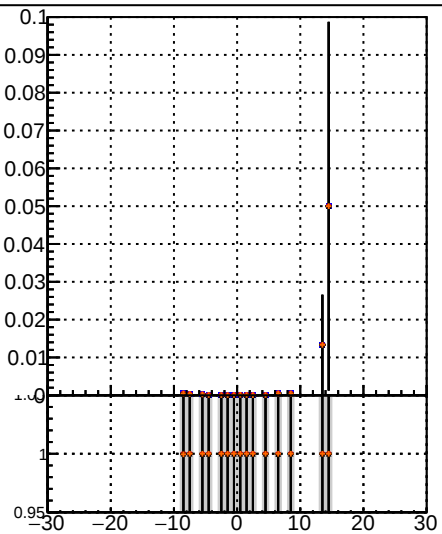
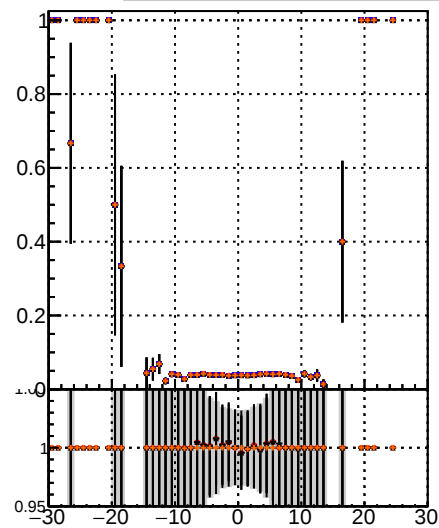
Pileup rate vs vertpos



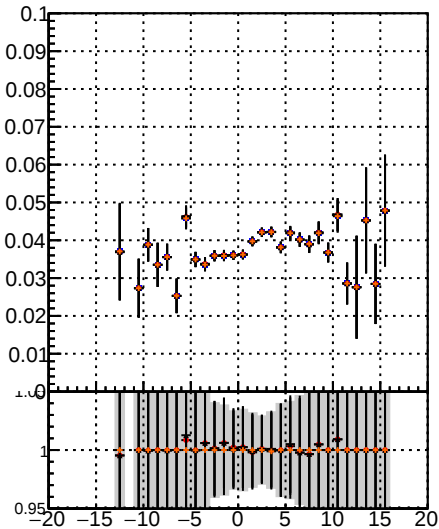
Fake rate vs v_z

Legend:

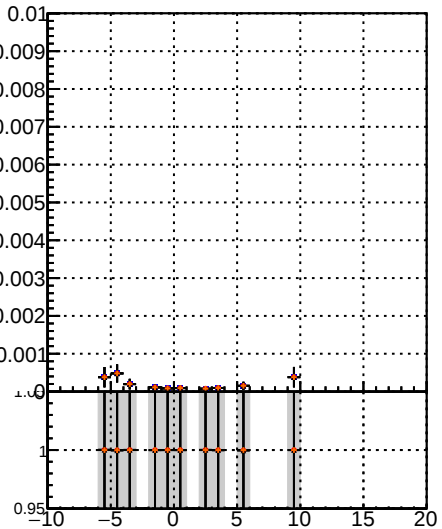
- $\text{BQM TT MS det0-dpdq}$
- $\text{BQM TT MS det0-chiz}$
- $\text{BQM TT MS det0-dpdq}$
- $\text{BQM TT MS det0-chiz}$



Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

