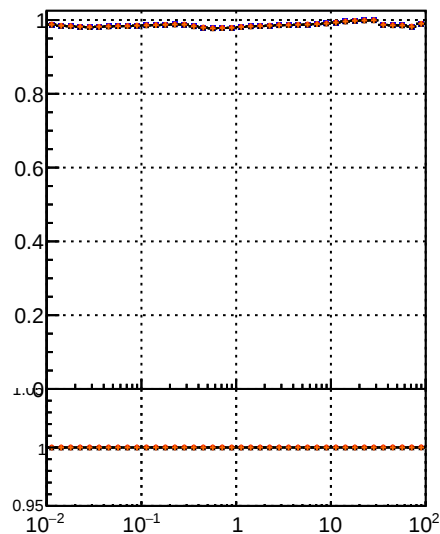
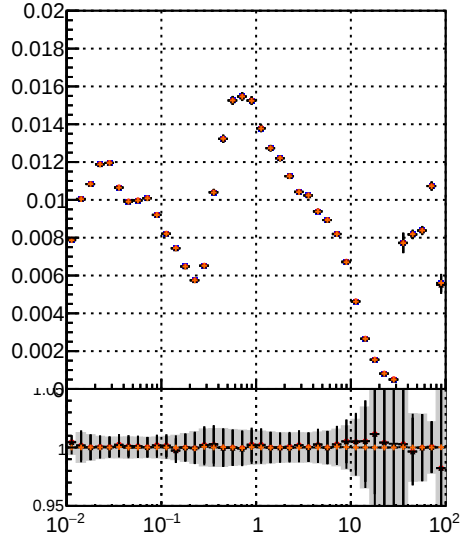


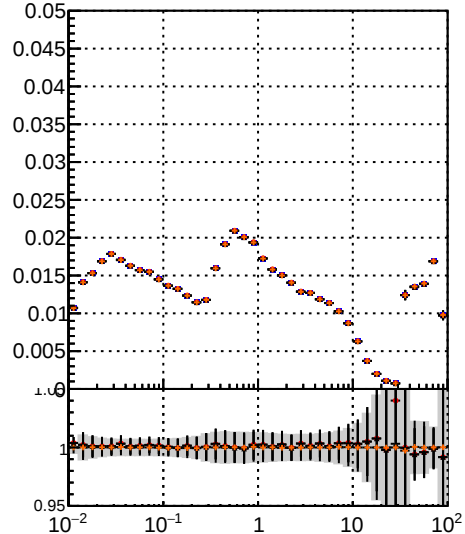
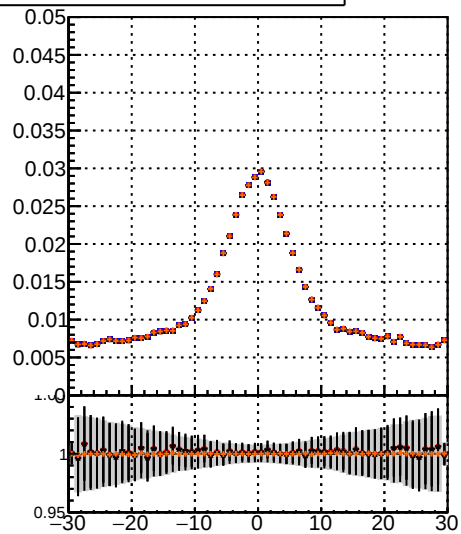
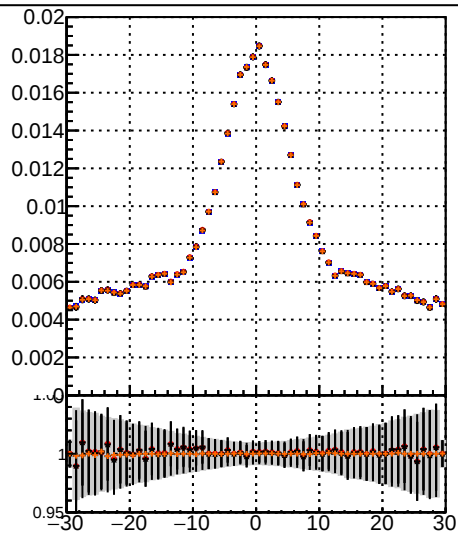
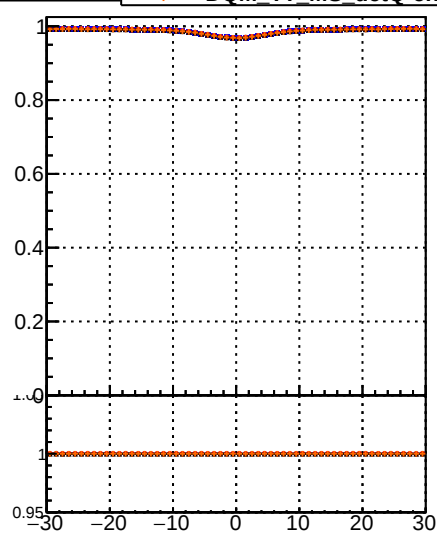
Fake rate vs vertpos



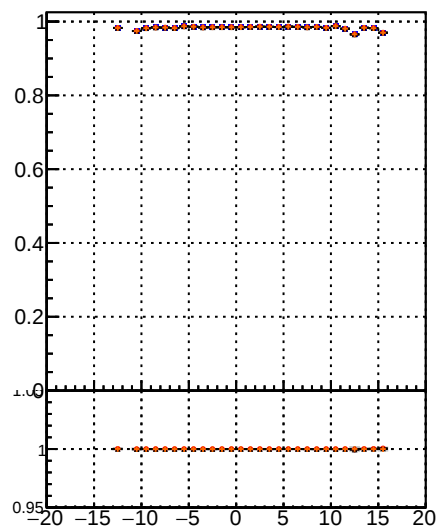
Duplicates Rate vs vertpos



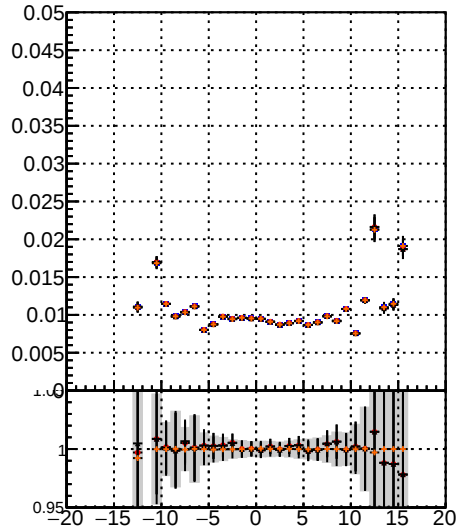
Pileup rate vs vertpos


 Fake rate vs $\sqrt{s}$
 Legend: $\text{BQM TT MS det0-dpdq}$, $\text{BQM TT MS det0-chiz}$


Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

