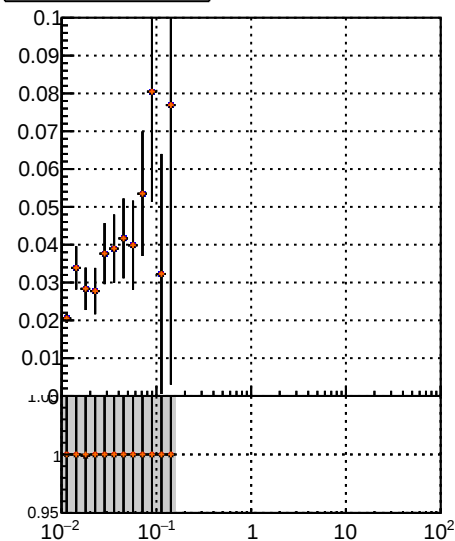


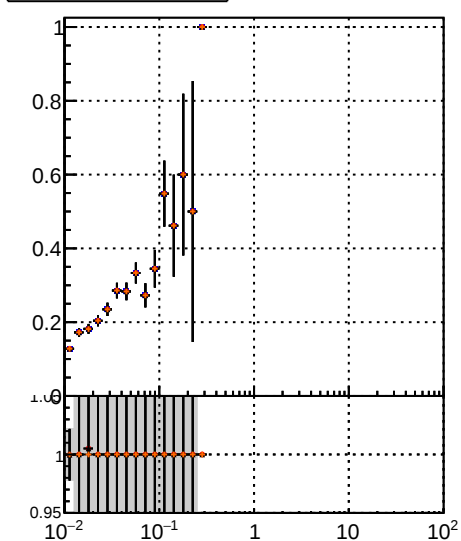
Fake rate vs vertpos



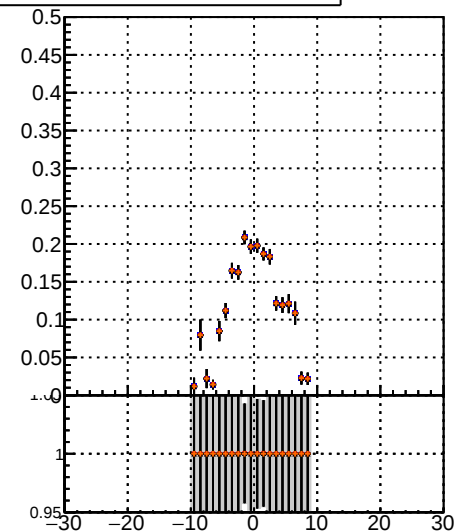
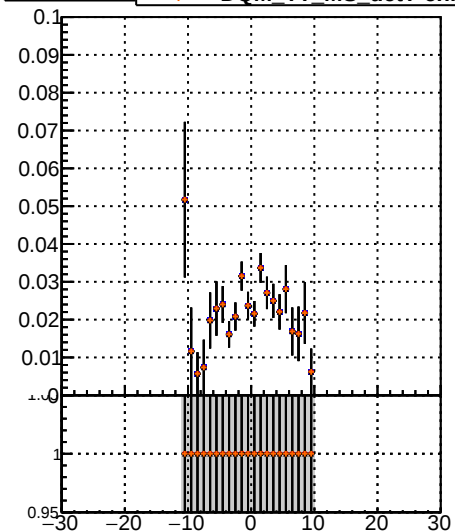
Duplicates Rate vs vertpos



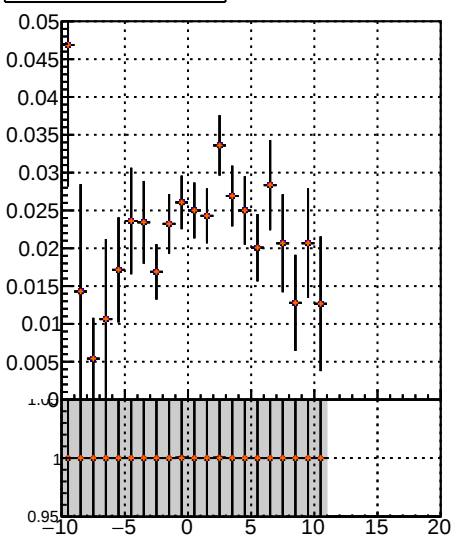
Pileup rate vs vertpos


 Fake rate vs $\sqrt{s}$

—●— BQM TT MS detT
 —●— $\text{BQM TT MS detT-dpdq}$
 —●— $\text{BQM TT MS detT-chi2}$



Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

