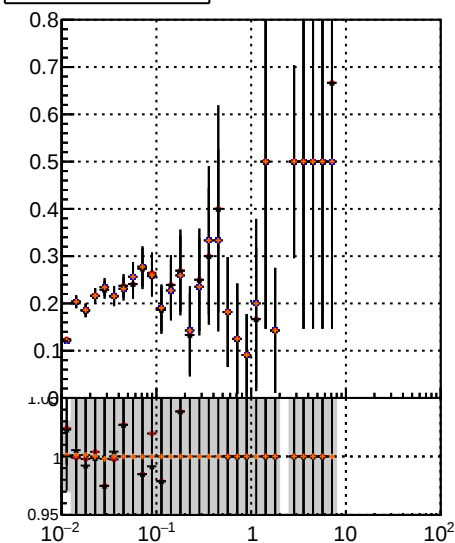


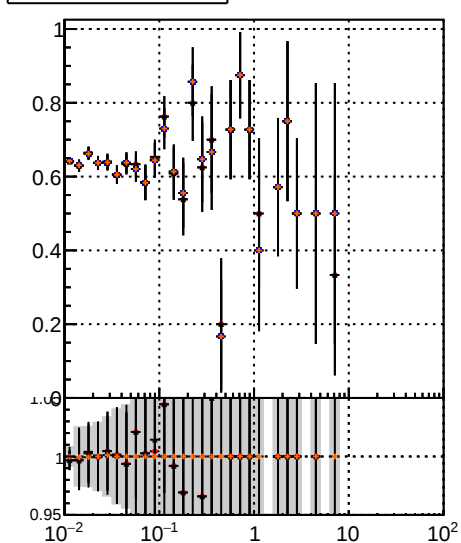
Fake rate vs vertpos



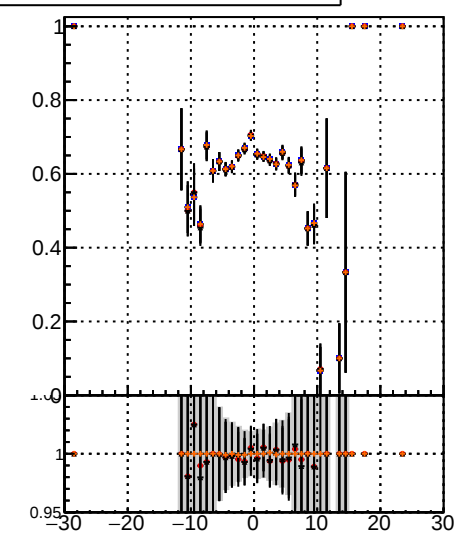
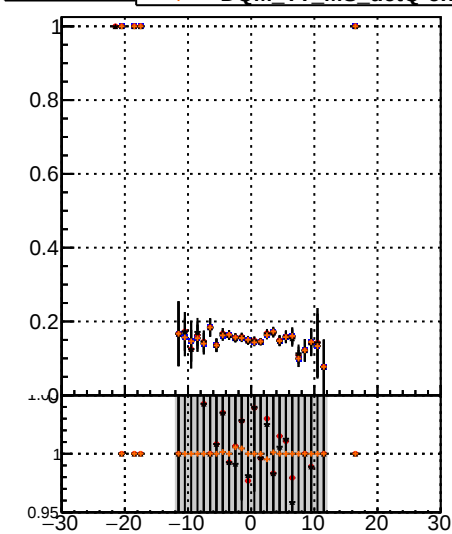
Duplicates Rate vs vertpos



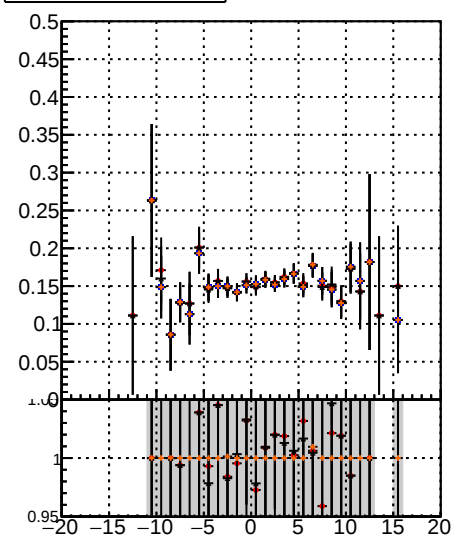
Pileup rate vs vertpos



Fake rate vs $\sqrt{s}$
 BQM TT MS det0 dndq
 BQM TT MS det0-chiz



Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

