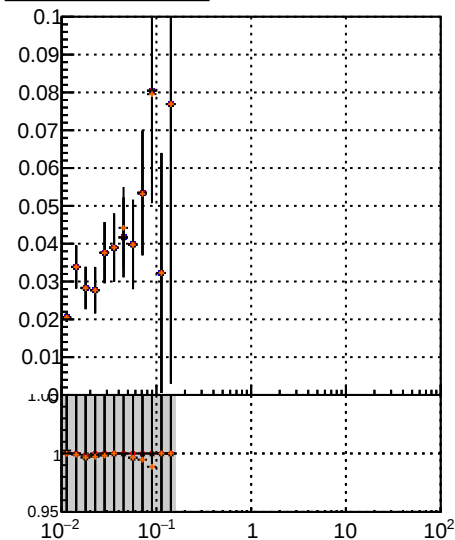


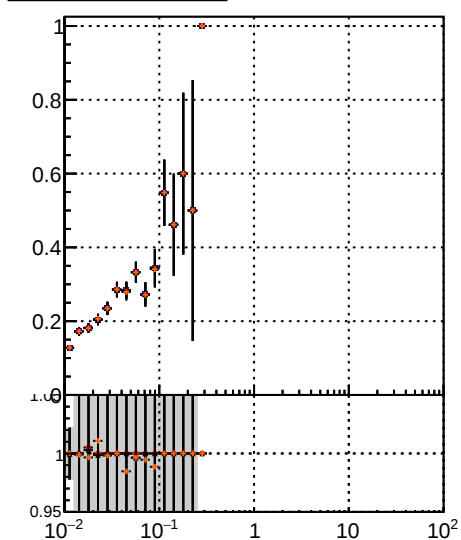
Fake rate vs vertpos



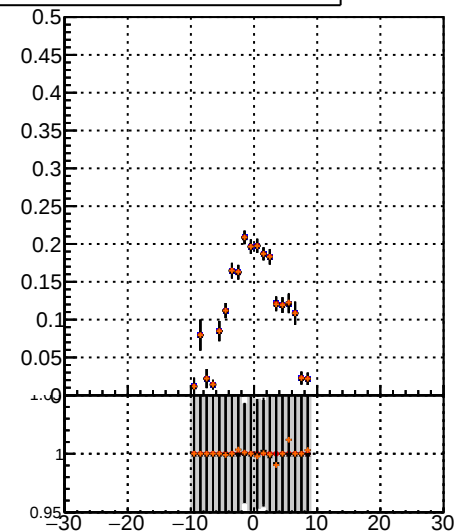
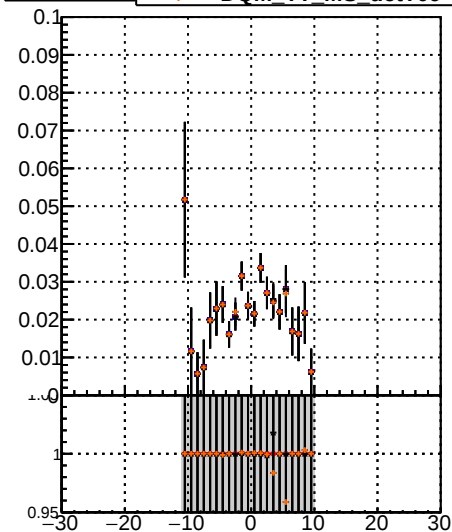
Duplicates Rate vs vertpos



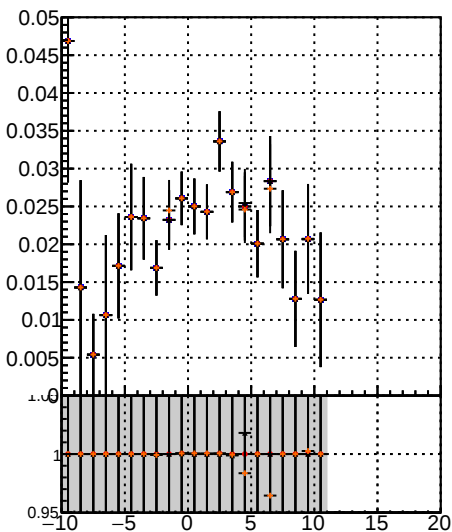
Pileup rate vs vertpos


 Fake rate vs $\sqrt{s}$

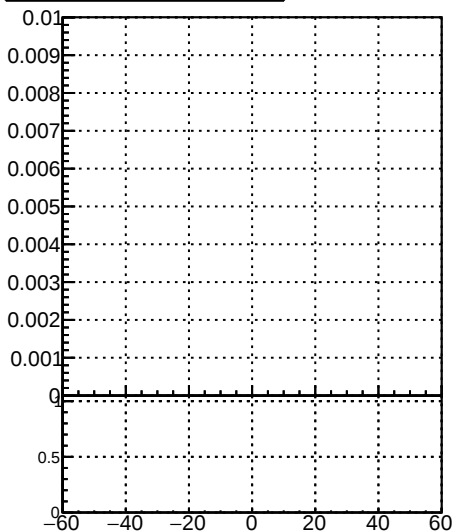
$\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$
 $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS} \rightarrow \text{detT}$
 $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS} \rightarrow \text{detT1}$
 $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS} \rightarrow \text{detT09}$



Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

