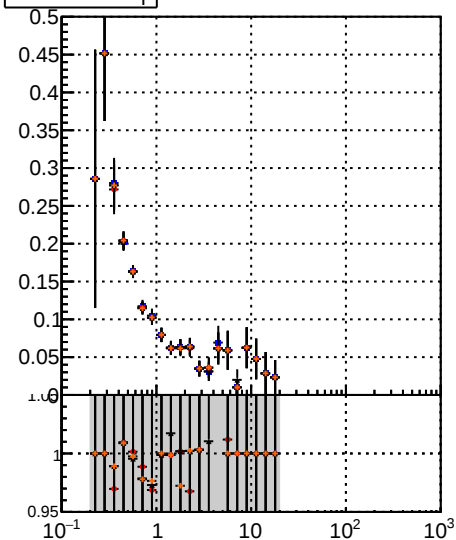
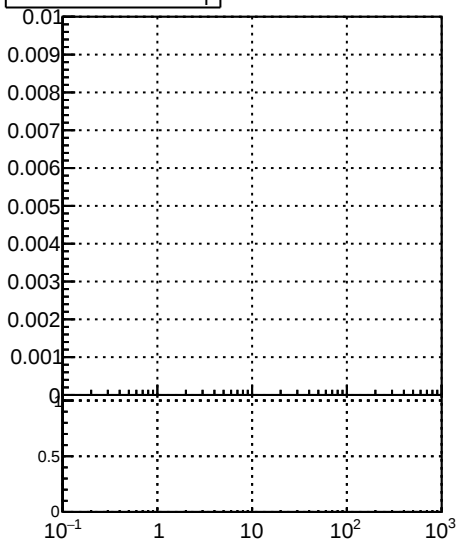
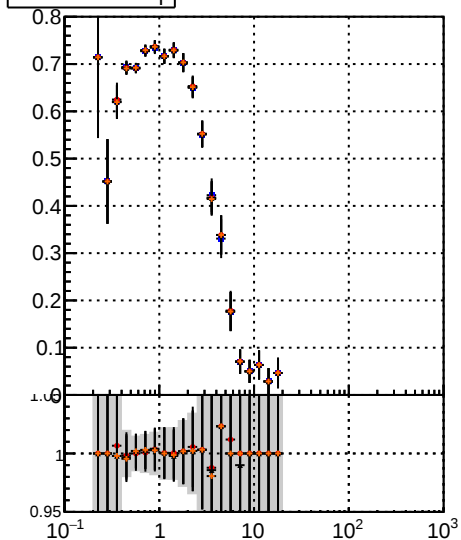
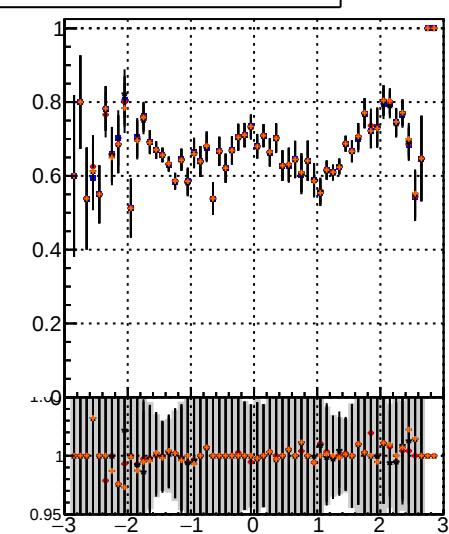
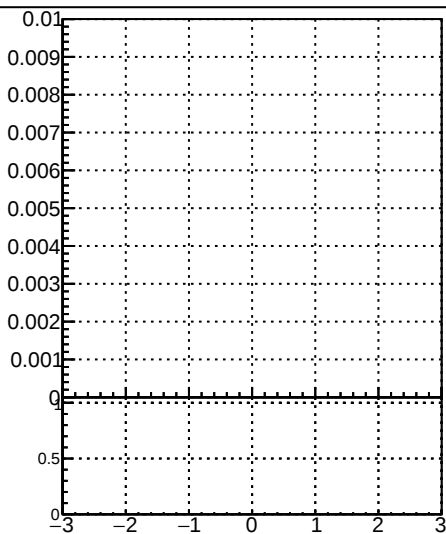
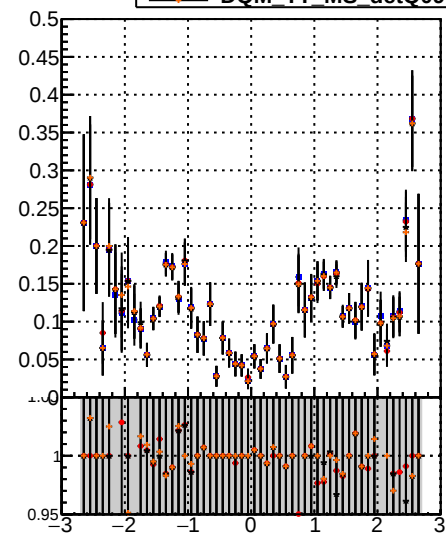
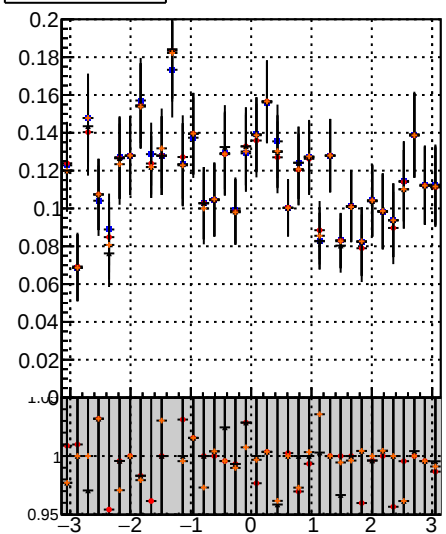
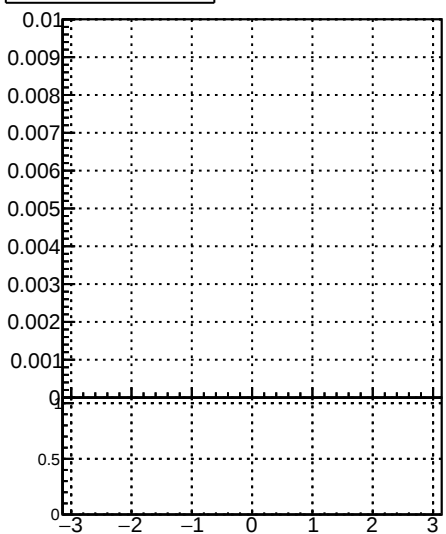


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

$\text{BQM} \rightarrow \text{TT}$ $\text{MS} \rightarrow \text{detQ0}$
 $\text{BQM} \rightarrow \text{TT}$ $\text{MS} \rightarrow \text{detQ1}$
 $\text{BQM} \rightarrow \text{TT}$ $\text{MS} \rightarrow \text{detQ9}$

Fake rate vs ϕ Duplicates Rate vs ϕ Pileup rate vs ϕ 