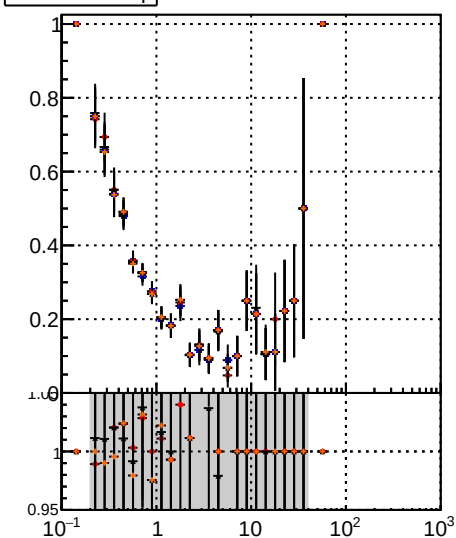
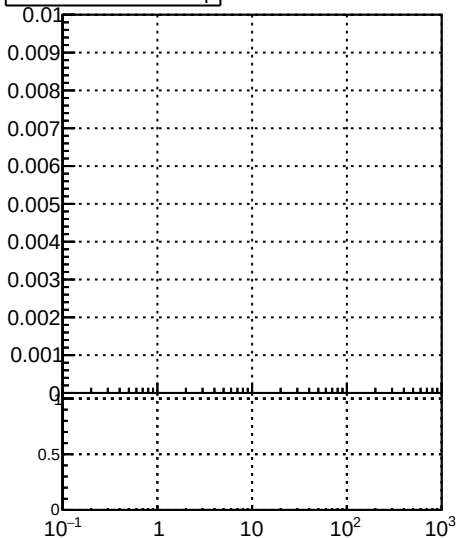
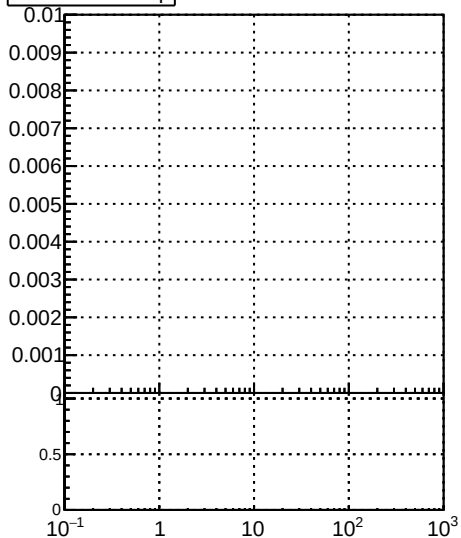
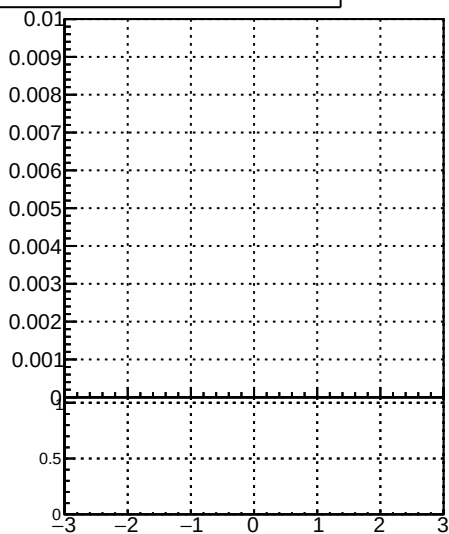
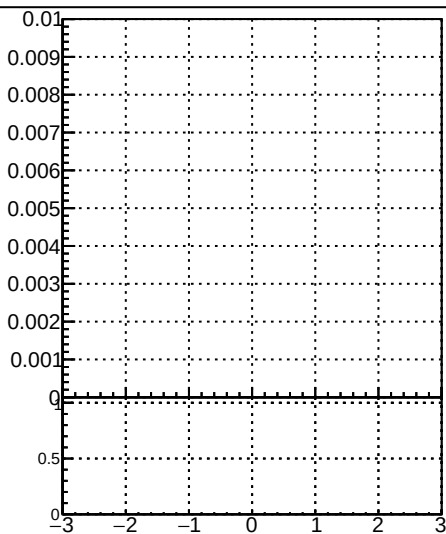
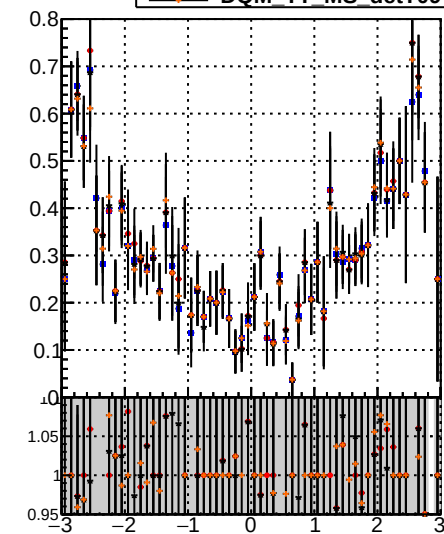
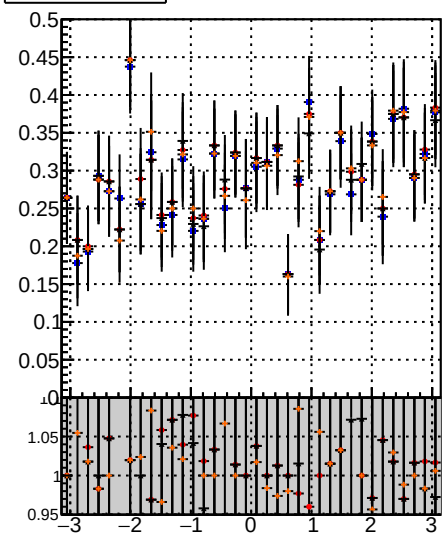
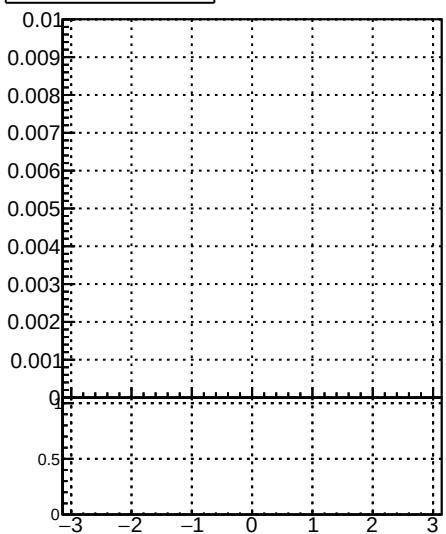


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

$\text{BQM} \rightarrow \text{TT}$ MS detT
 $\text{BQM} \rightarrow \text{TT} + \text{MS}$ detT
 $\text{BQM} \rightarrow \text{TT} + \text{MS} + \text{detT}$

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