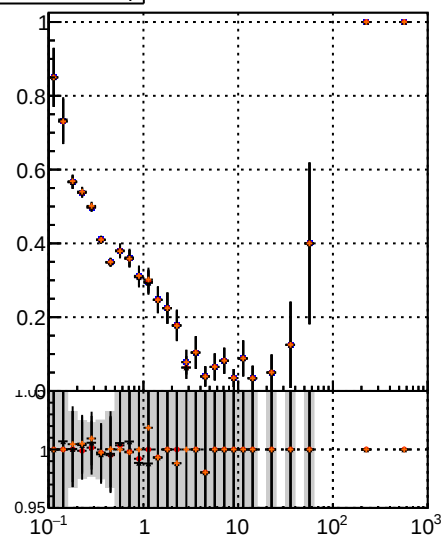
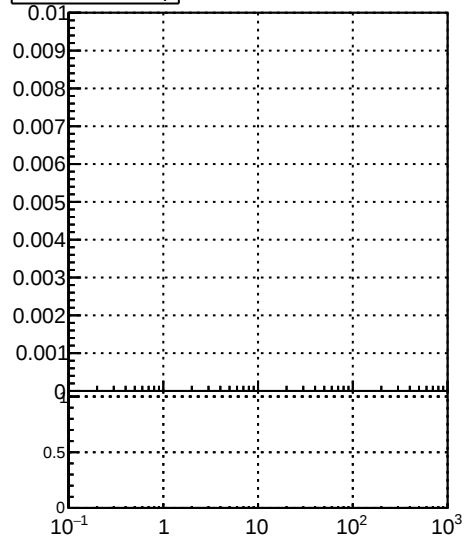
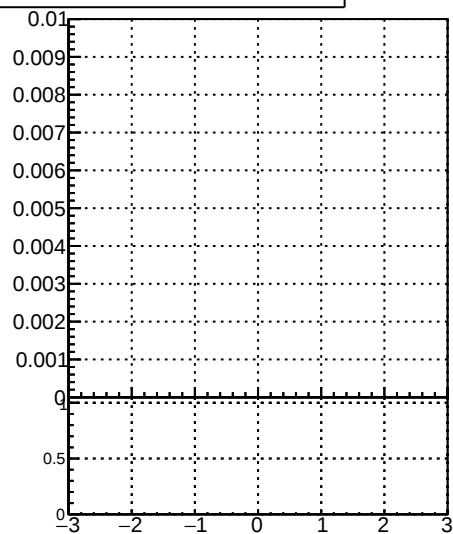
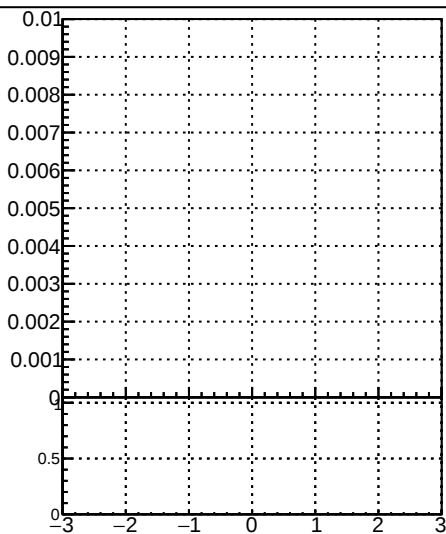
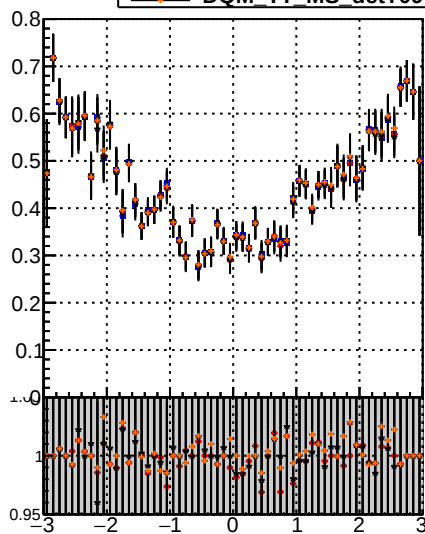
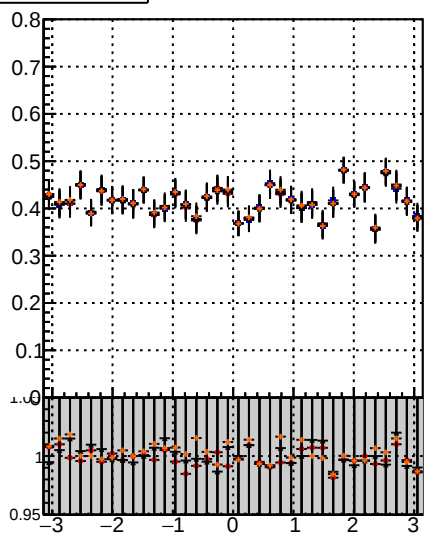
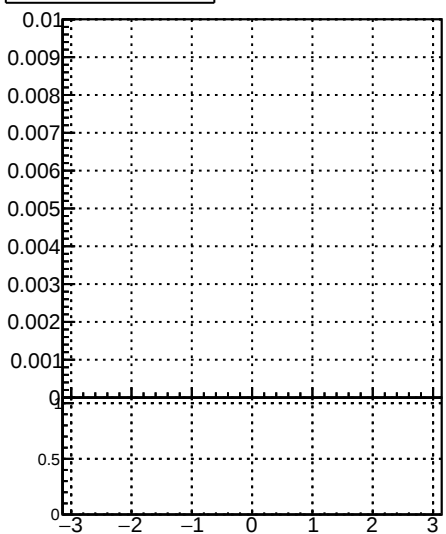


Fake rate vs  $p_T$ Duplicates Rate vs  $p_T$ Pileup rate vs  $p_T$ 

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

Fake rate vs  $\phi$ Duplicates Rate vs  $\phi$ Pileup rate vs  $\phi$ 