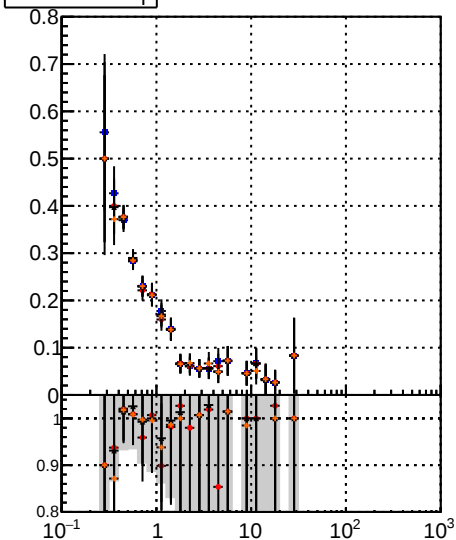
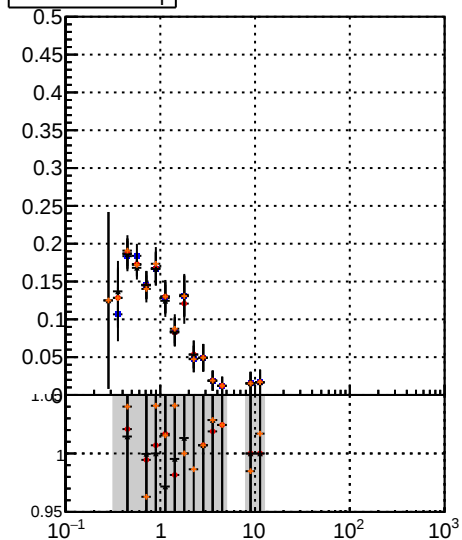
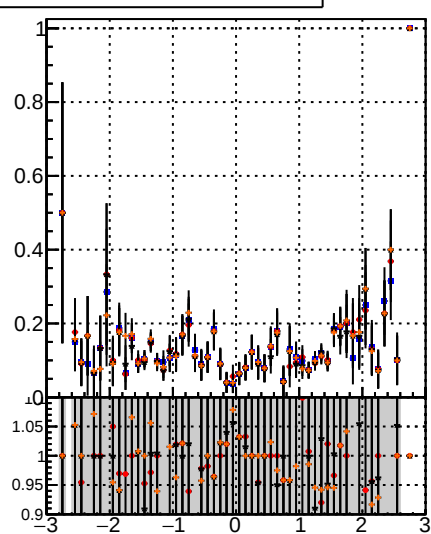
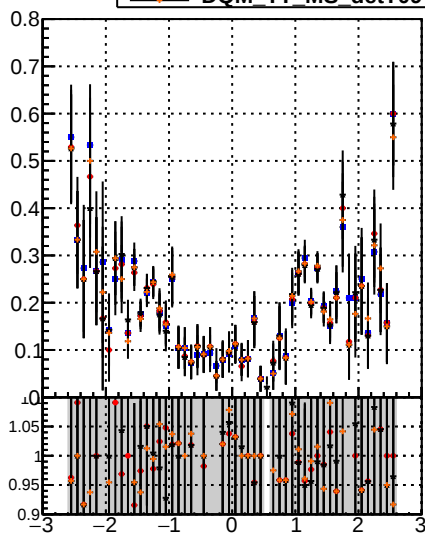
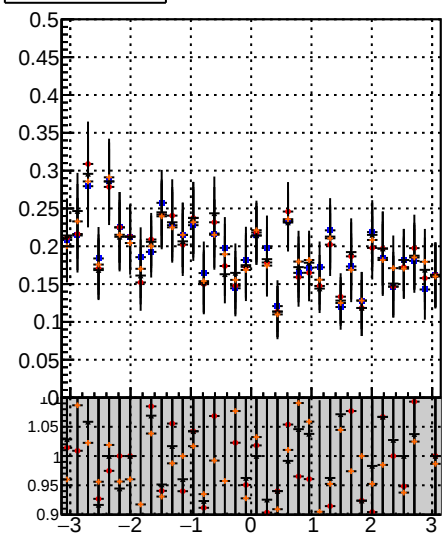


Fake rate vs  $p_T$ Duplicates Rate vs  $p_T$ Pileup rate vs  $p_T$ 

$MS_{detT}$  (blue)  
 $MS_{detL1}$  (orange)  
 $MS_{detR9}$  (red)

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