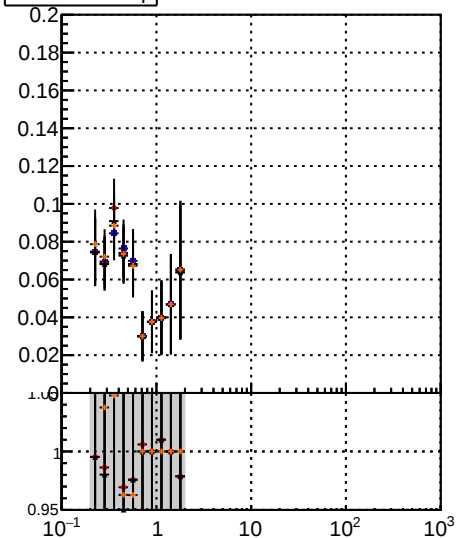
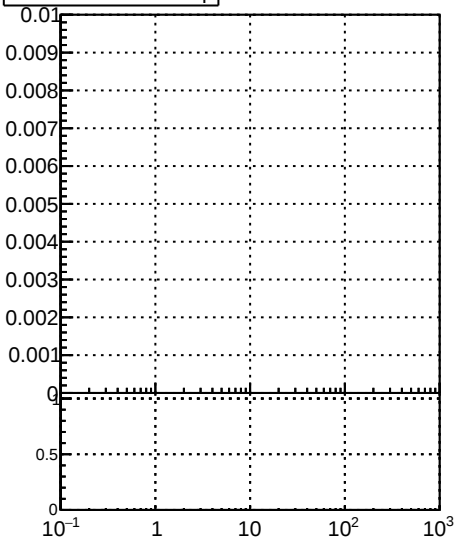
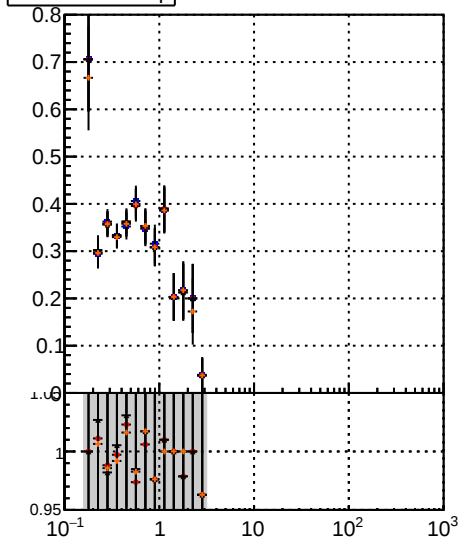
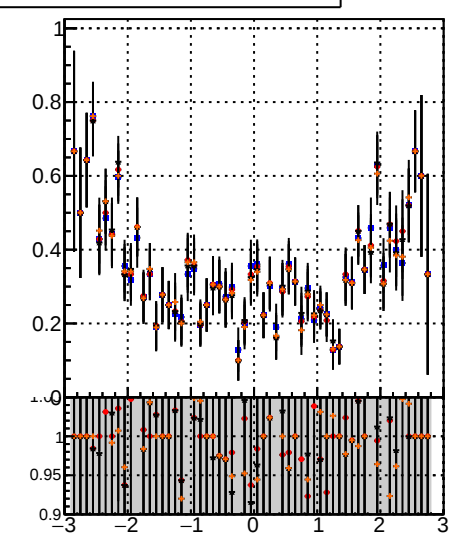
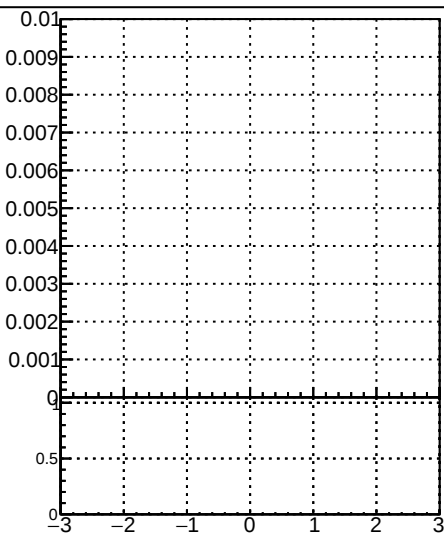
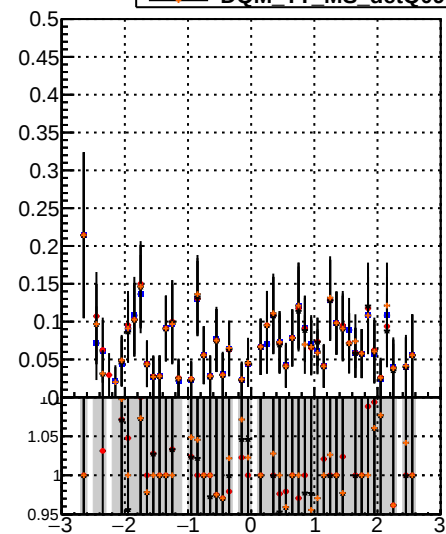
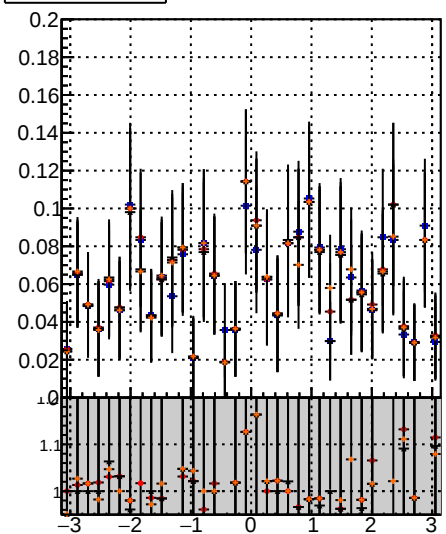
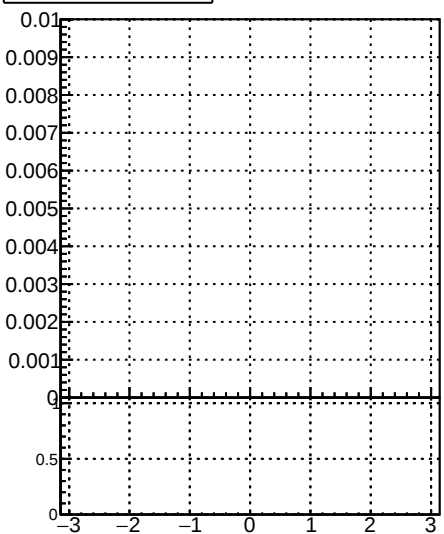


Fake rate vs  $p_T$ Duplicates Rate vs  $p_T$ Pileup rate vs  $p_T$ 

Legend for the top row of plots:

- $tt$  (blue circles)
- $MS$  (red circles)
- $detQ$  (black circles)
- $detQ09$  (orange circles)

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