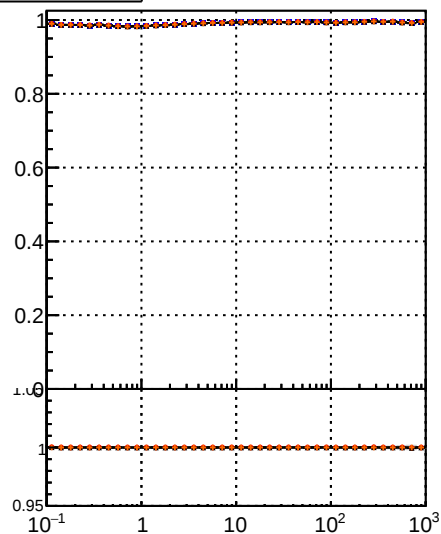
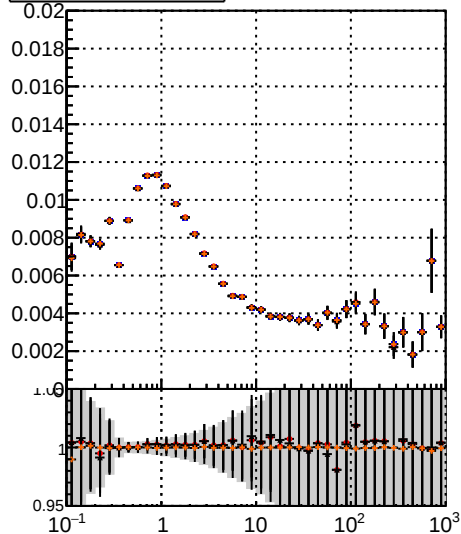
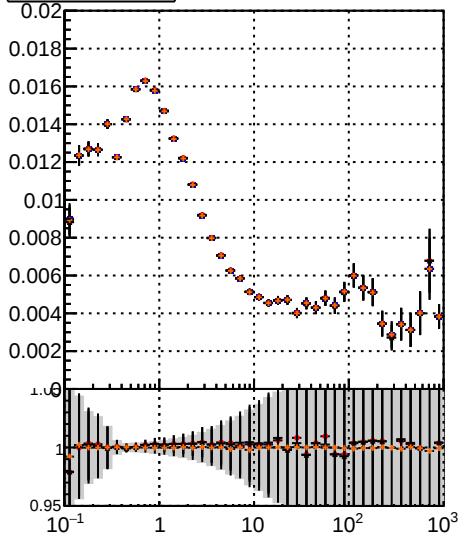
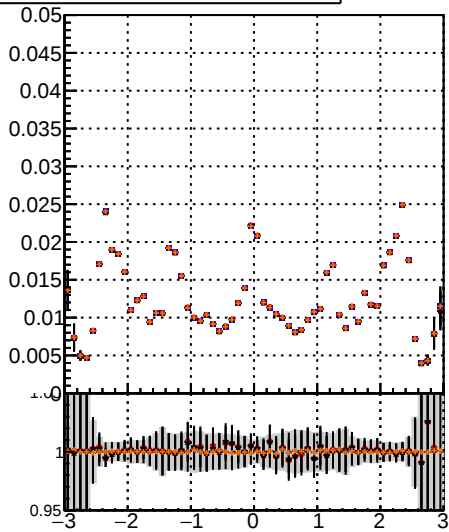
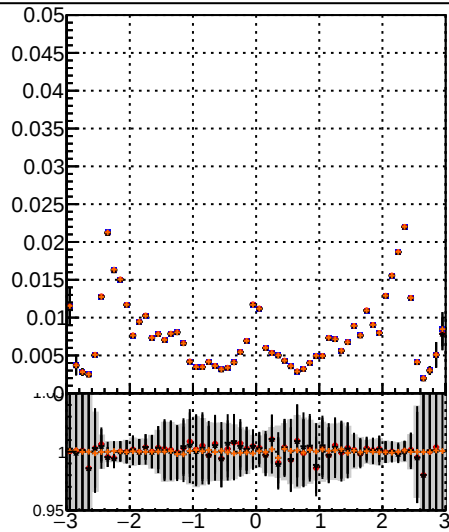
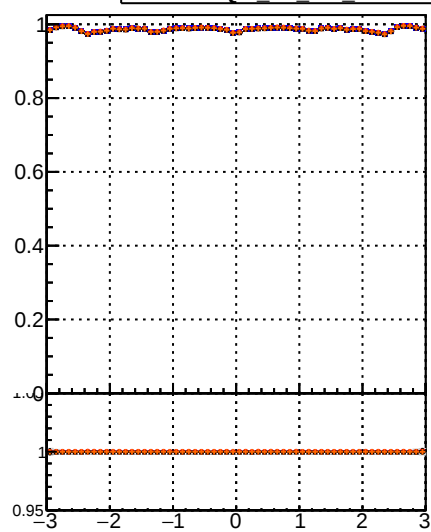
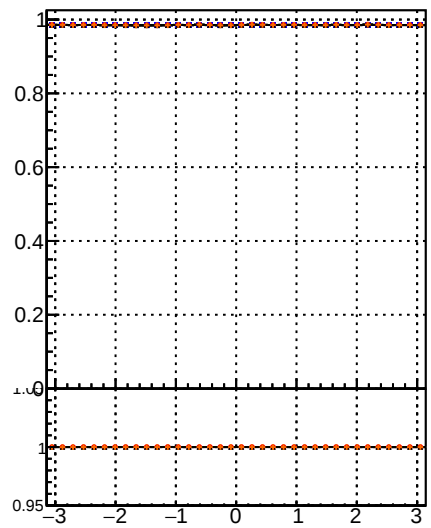
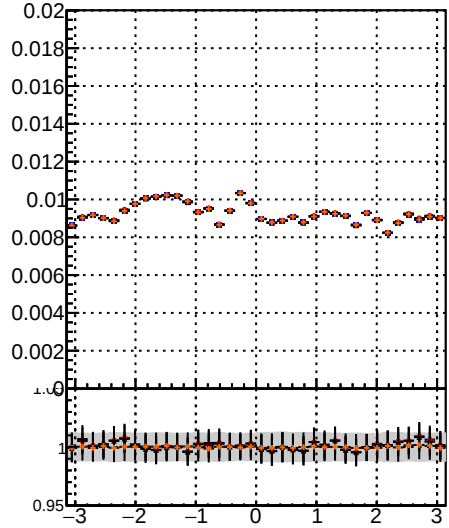


Fake rate vs  $p_T$ Duplicates Rate vs  $p_T$ Pileup rate vs  $p_T$ 

Legend for the plots:

- $\text{BQM TT MS detT dndq}$  (Blue line with circles)
- $\text{BQM TT MS detT dndq}$  (Red line with circles)
- $\text{BQM TT MS detT dndq}$  (Black line with circles)
- $\text{BQM TT MS detT dndq}$  (Grey line with circles)

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