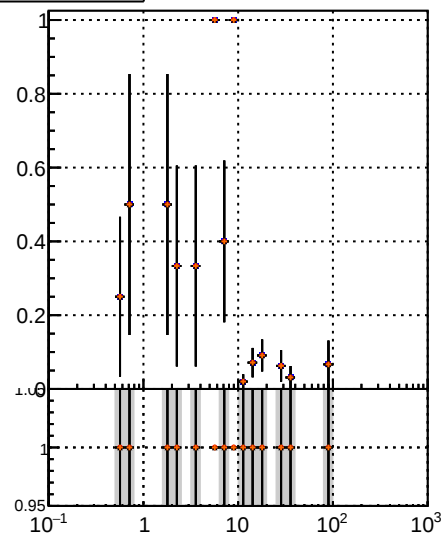
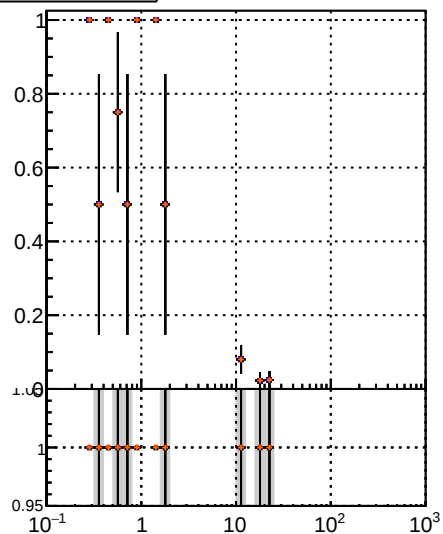
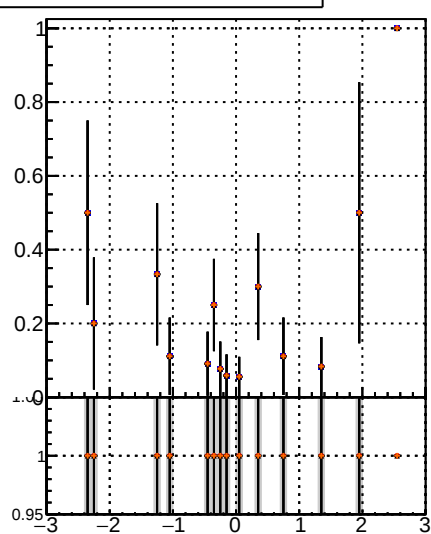
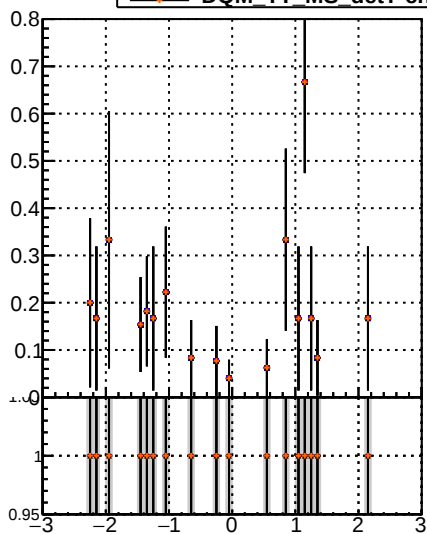
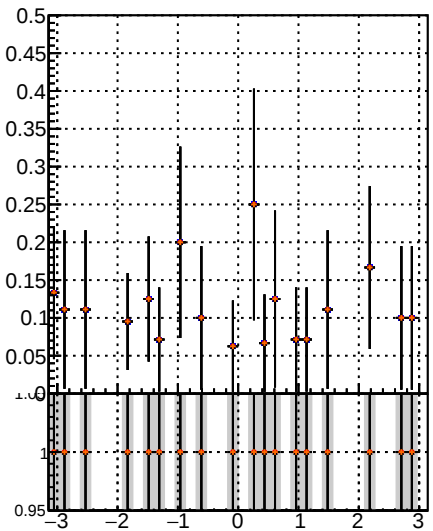


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

Legend for Fake rate vs p_T , Duplicates Rate vs p_T , and Pileup rate vs p_T :

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

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