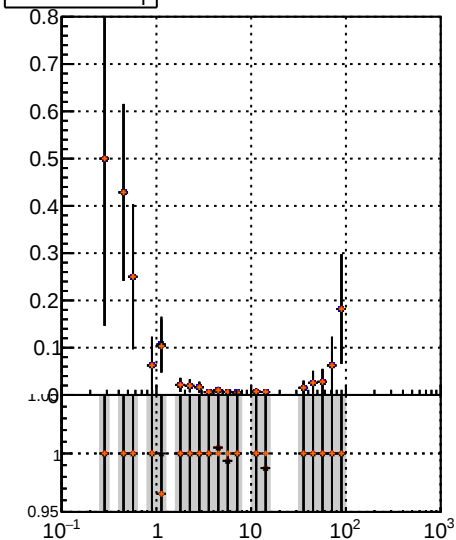
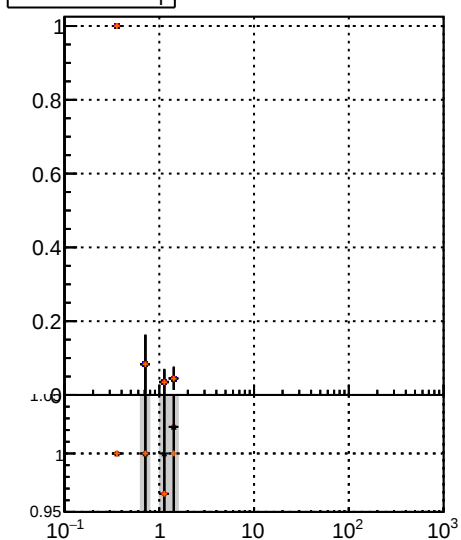
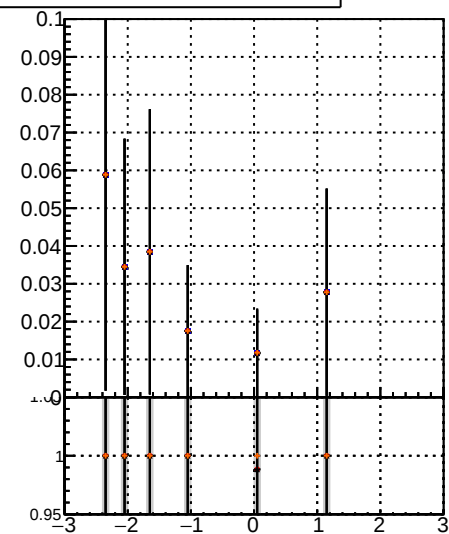
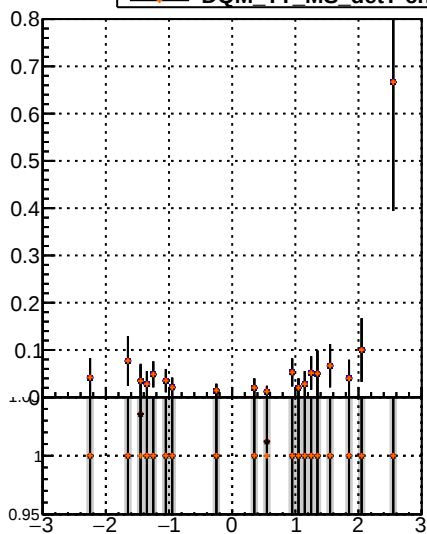
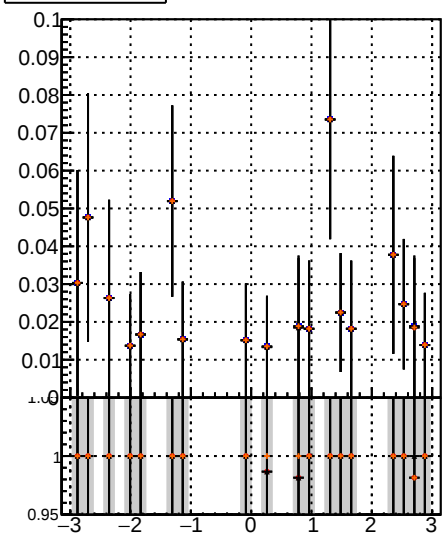


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

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

- MS_{detT} (blue)
- $MS_{detT-dpdq}$ (orange)
- $MS_{detT-chi2}$ (red)
- $MS_{detT-dpdq-chi2}$ (green)

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