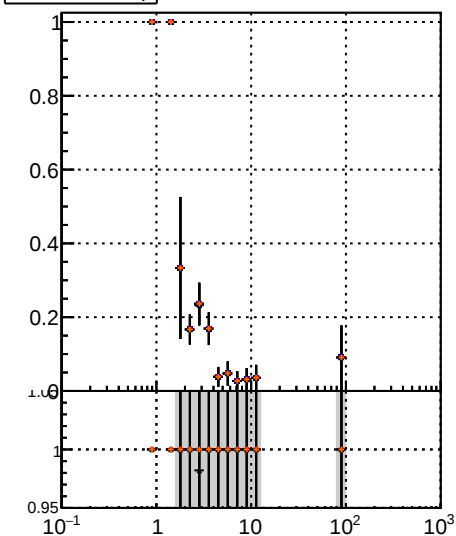


Fake rate vs p_T



Duplicates Rate vs p_T

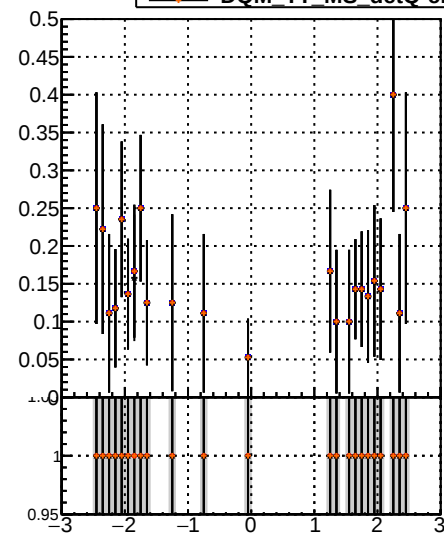


Pileup rate vs p_T

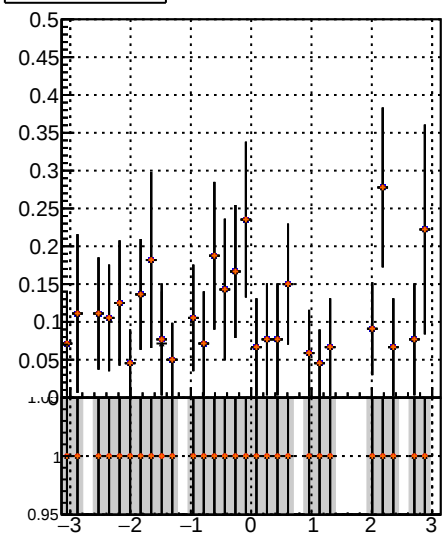


Legend for Fake rate vs p_T , Duplicates Rate vs p_T , and Pileup rate vs p_T :

- $\text{BQM TT MS det0-dpdq}$ (Blue line with dots)
- $\text{BQM TT MS det0-chiz}$ (Red line with dots)
- $\text{BQM TT MS det0-chiz}$ (Black line with dots)



Fake rate vs ϕ



Duplicates Rate vs ϕ



Pileup rate vs ϕ

