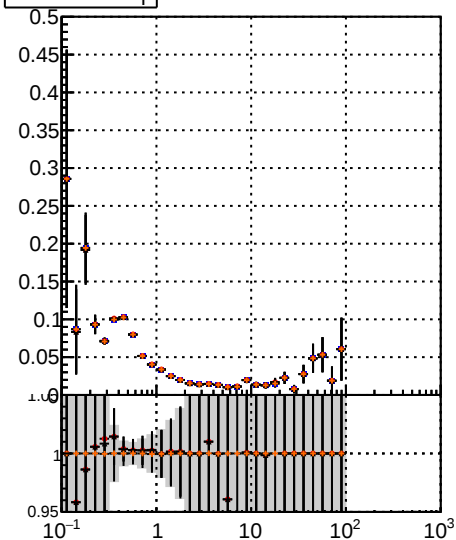
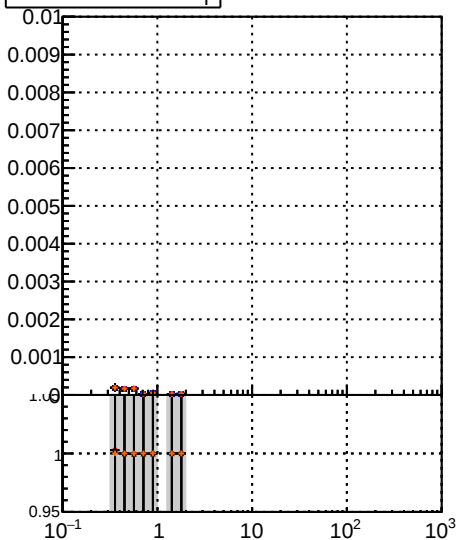
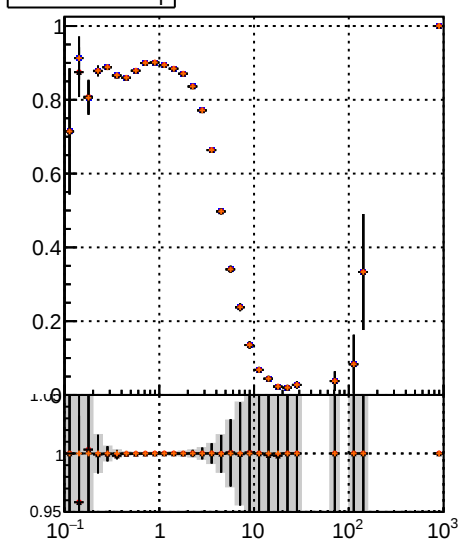
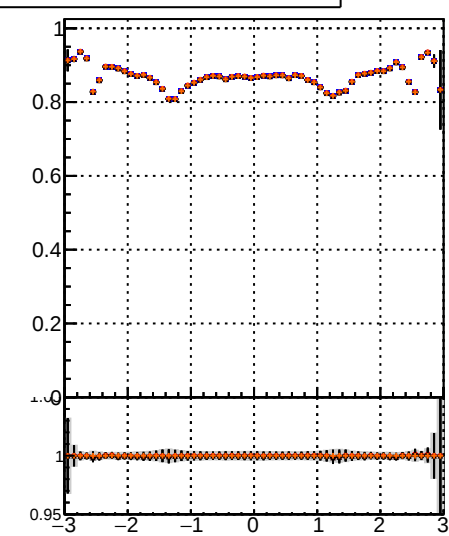
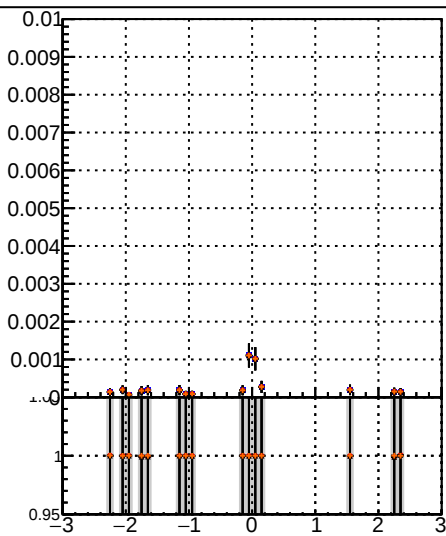
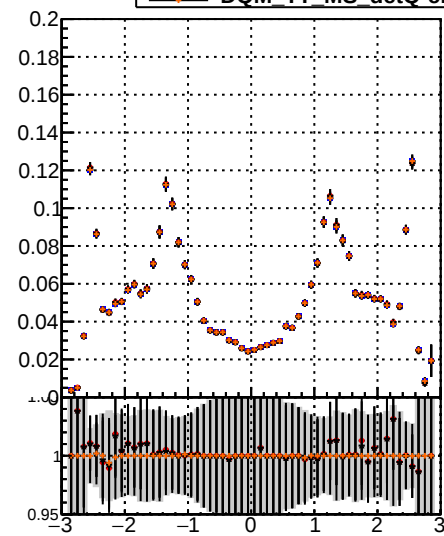
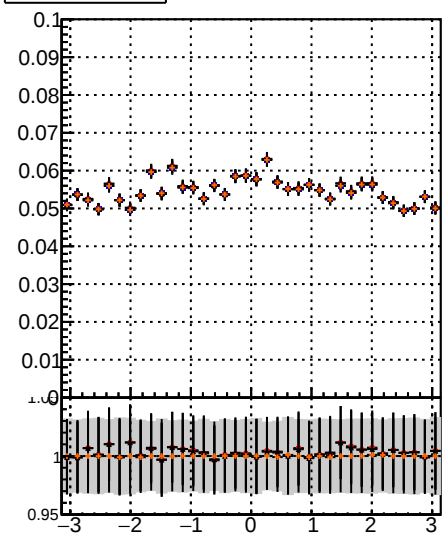
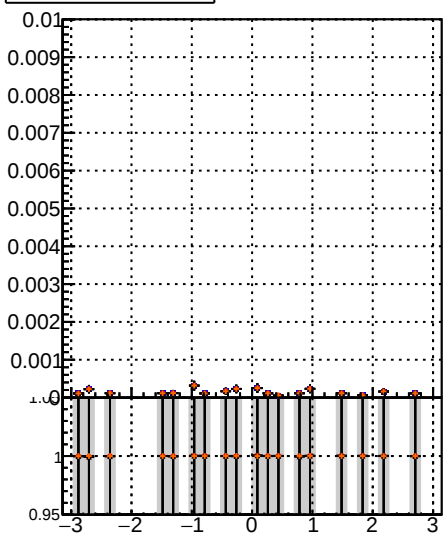


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

$\text{BQM TT MS det0-dpdq}$
 $\text{BQM TT MS det0-chiz}$
 $\text{BQM TT MS det0-chiz}$

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