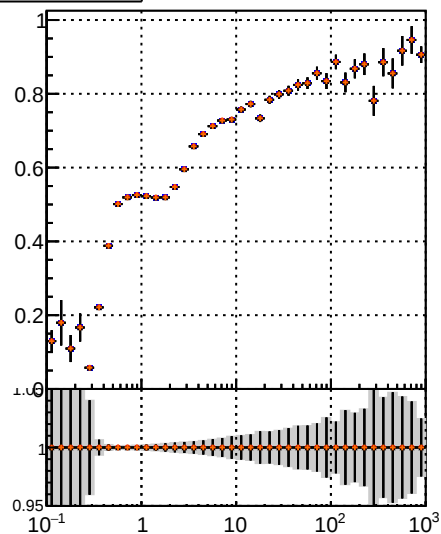
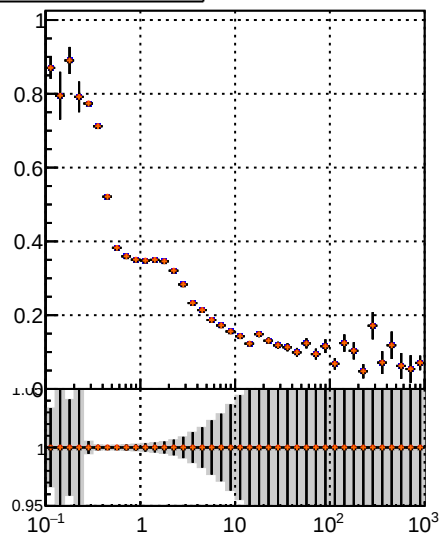
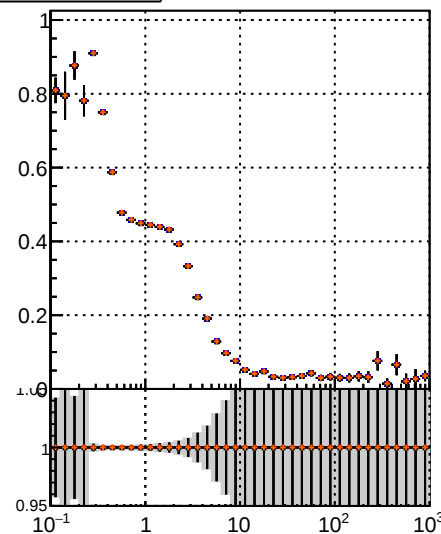
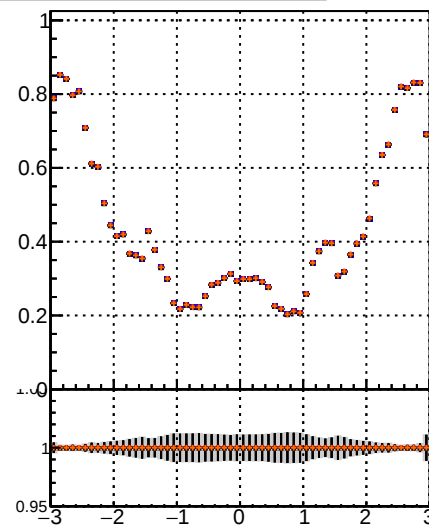
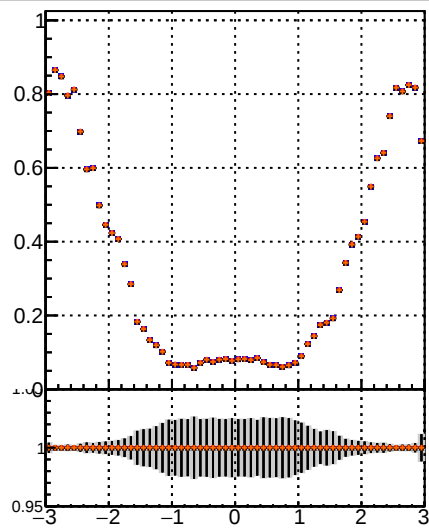
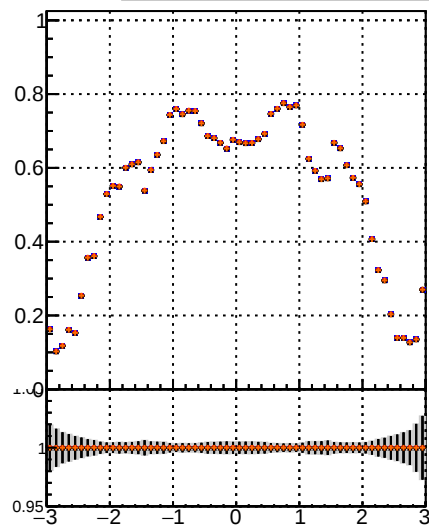
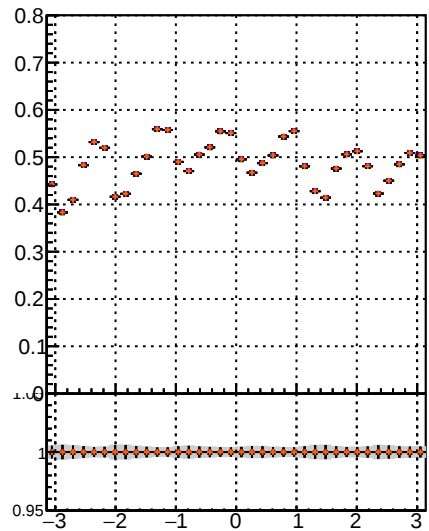
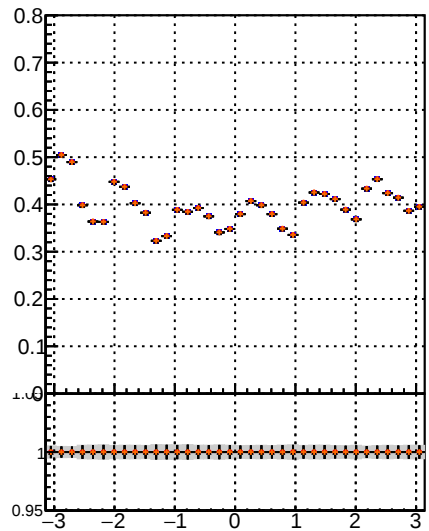


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

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

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