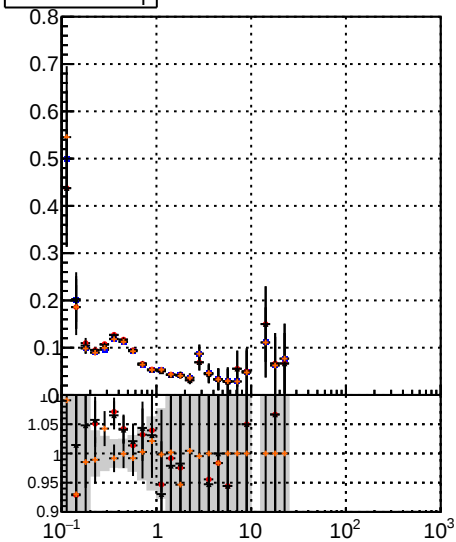
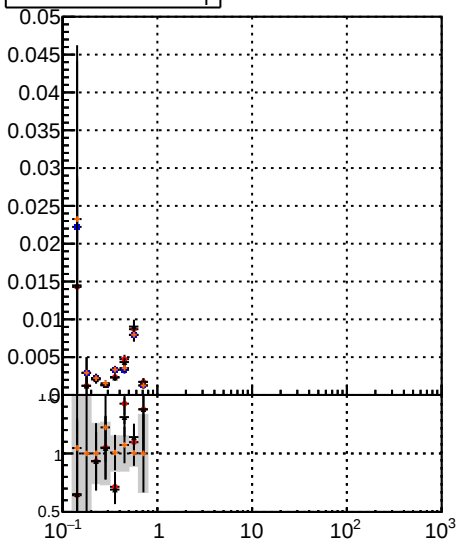
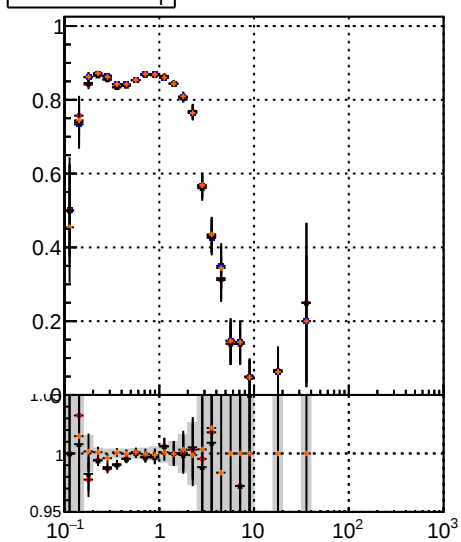
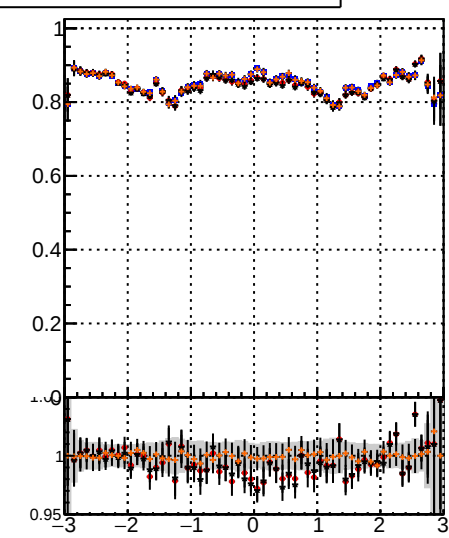
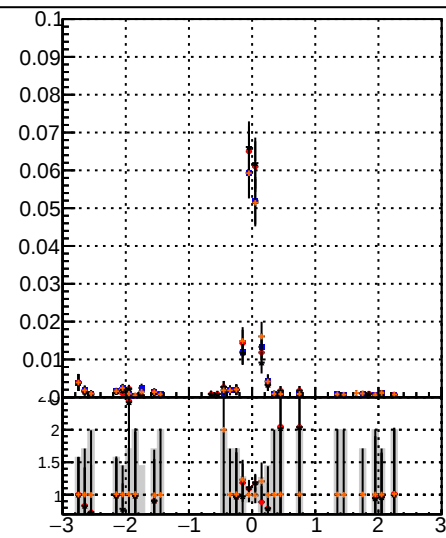
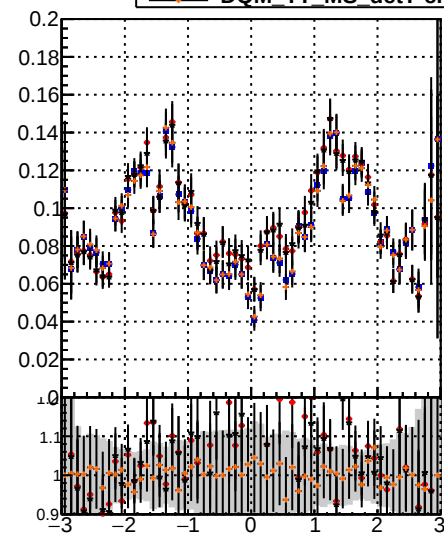
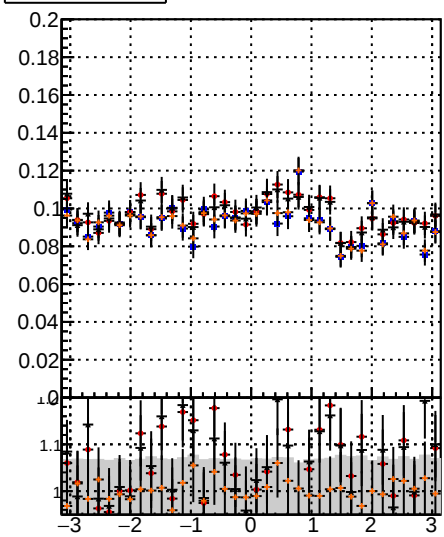
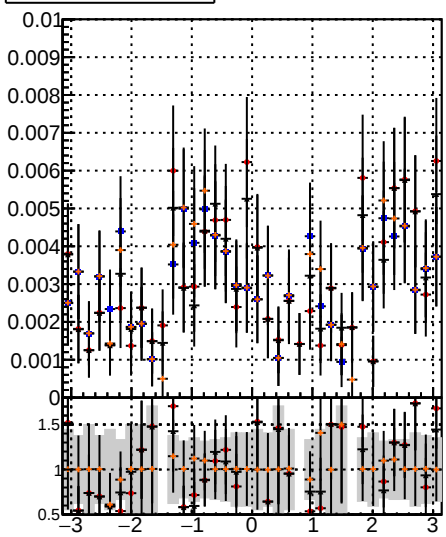


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

BQM TT MS $detT$ $dpdq$
 BQM TT MS $detT$ $ch2$
 BQM TT MS $detT$ $ch2$

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