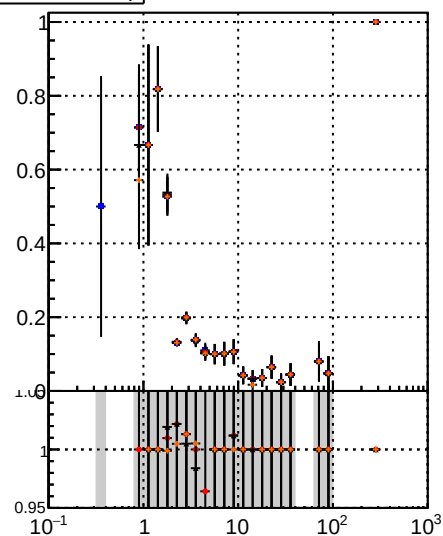
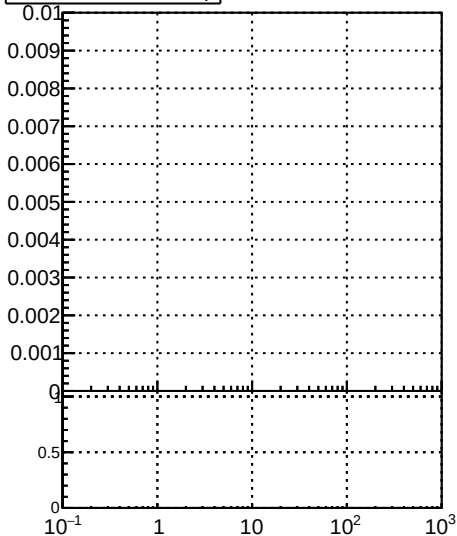
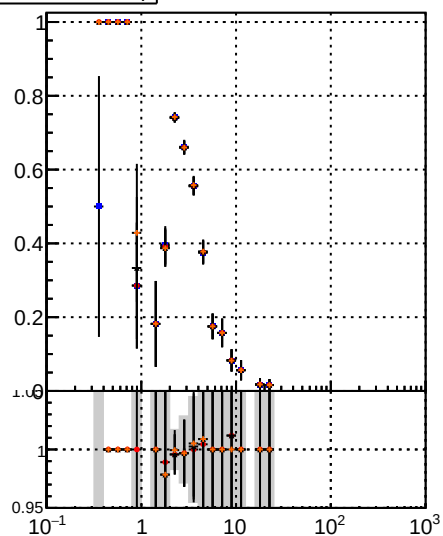
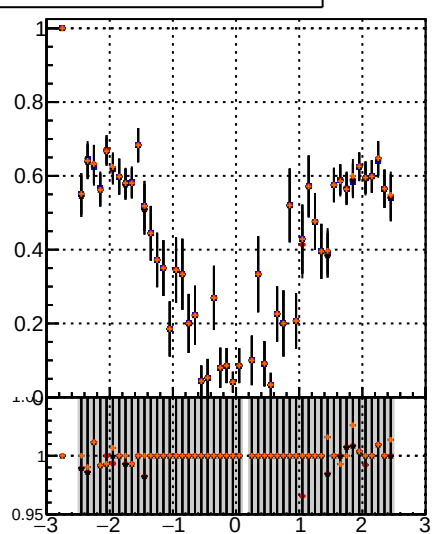
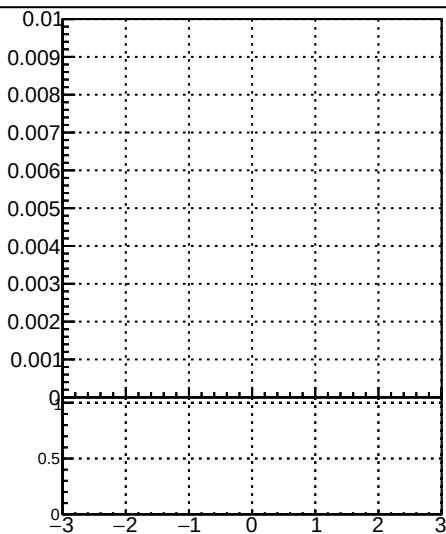
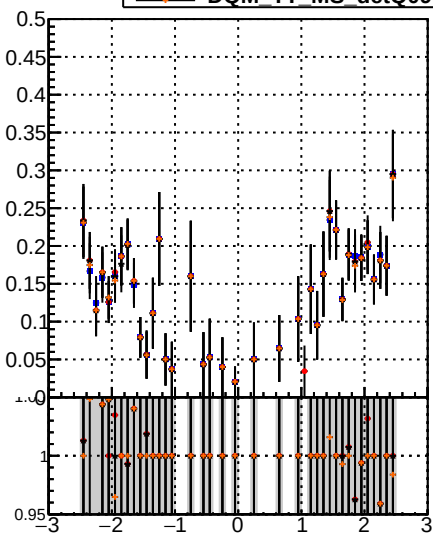
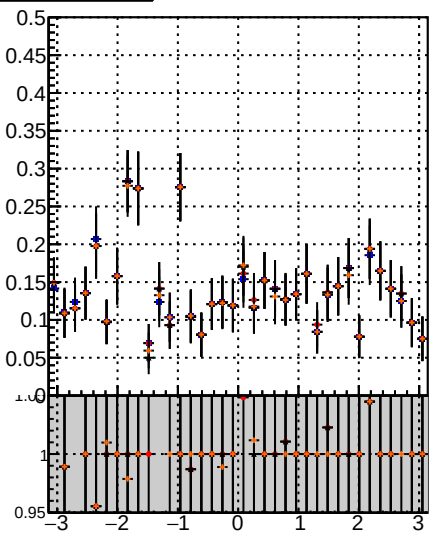
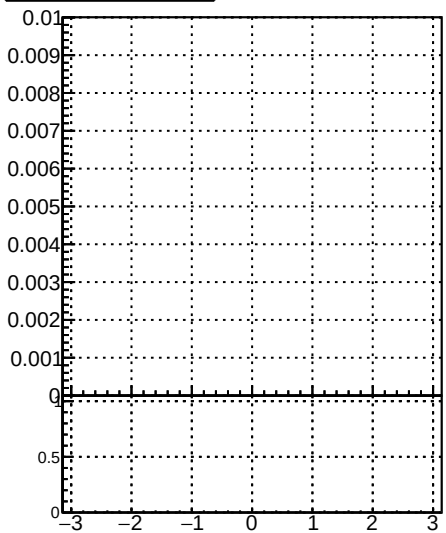


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

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

- BQM TT MS detQ0 (Blue line with dots)
- BQM TT MS detQ1 (Red line with dots)
- BQM TT MS detQ9 (Orange line with dots)

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