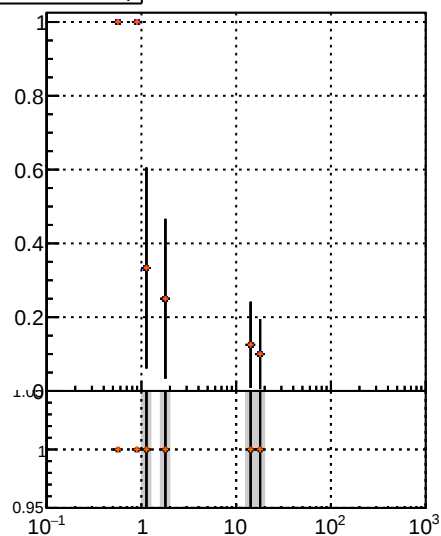
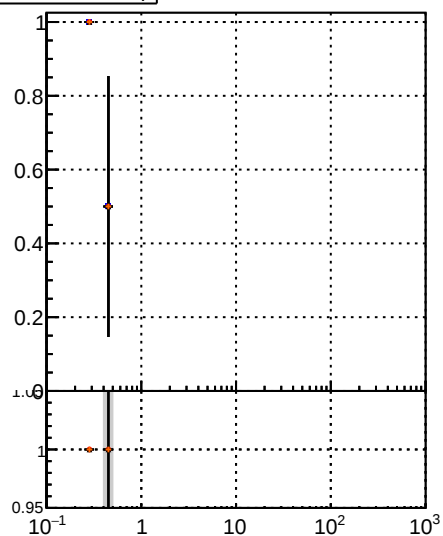
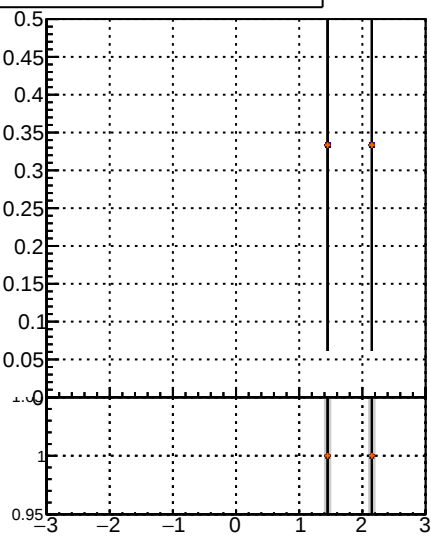
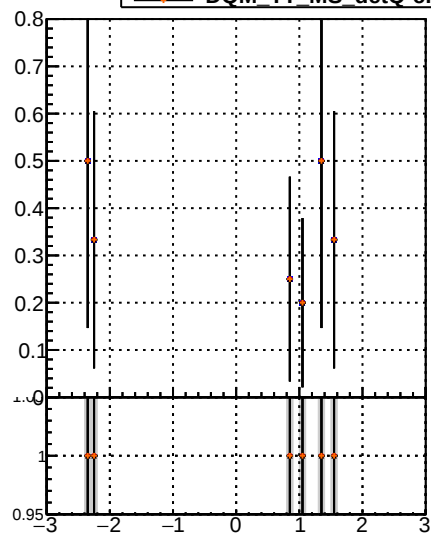
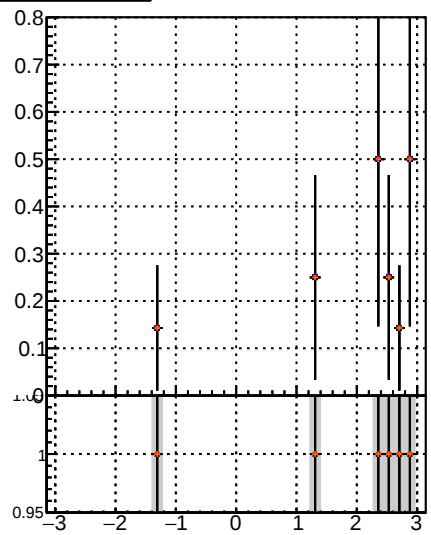


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

Legend for all plots:

- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (blue line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (red line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (green line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (orange line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (purple line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (brown line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (pink line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (gray line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (black line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (white line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (yellow line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (cyan line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (magenta line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark blue line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark red line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark green line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark orange line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark purple line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark brown line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark pink line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark gray line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark black line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark white line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark yellow line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark cyan line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (dark magenta line)

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