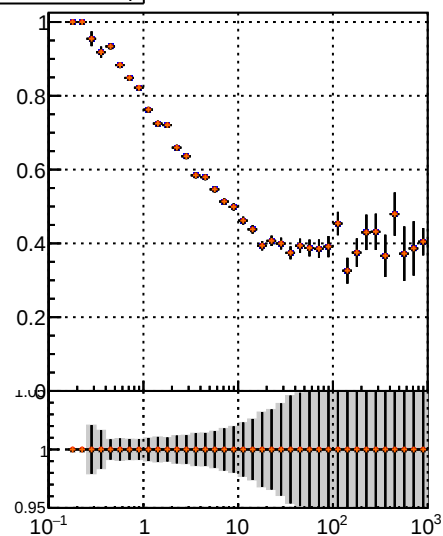
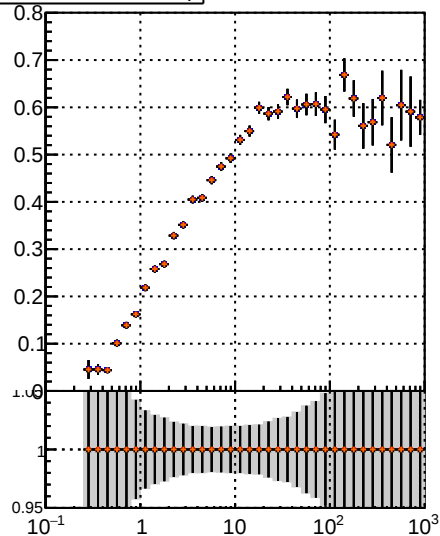
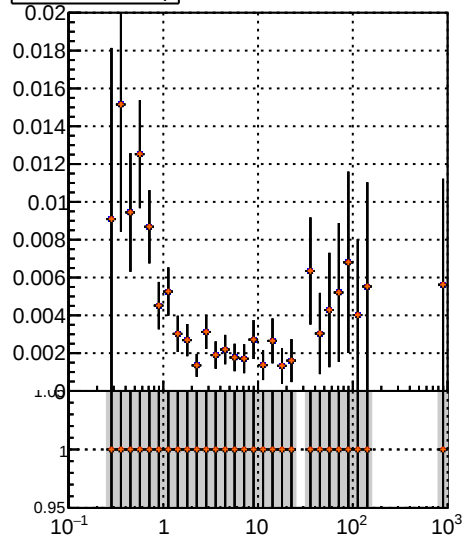


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

Legend for the top row of plots:

- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (blue line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (red line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (black line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (orange line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (green 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)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light blue line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light green line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light orange line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light purple line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light brown line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light pink line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light gray line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light blue line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light green line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light orange line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light purple line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light brown line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light pink line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light gray line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light light blue line)
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- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light light light light light brown line)
- $\text{BQM} \rightarrow \text{TT} \rightarrow \text{MS}$ (light light light light light light pink line)
- $\text{BQM} \rightarrow \text{$