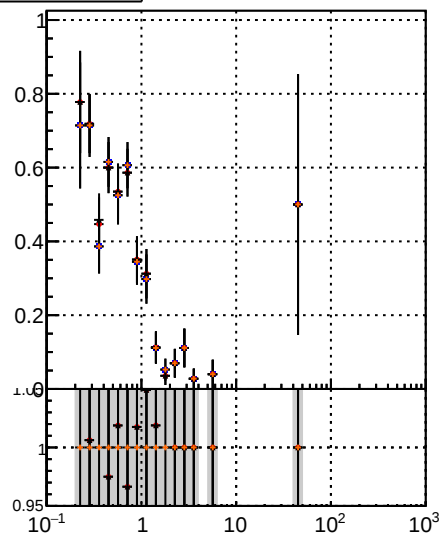
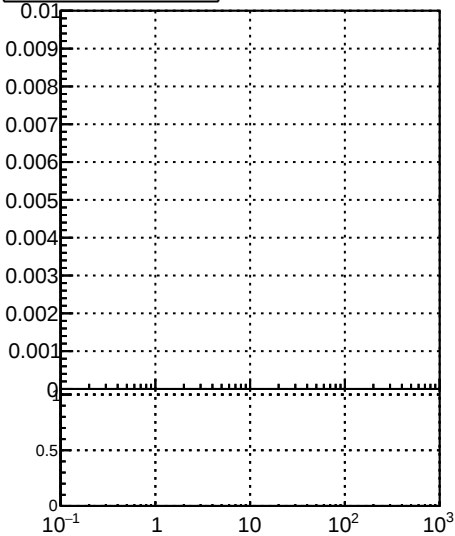
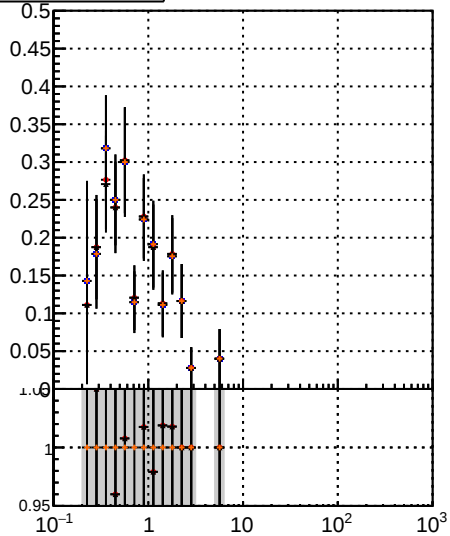
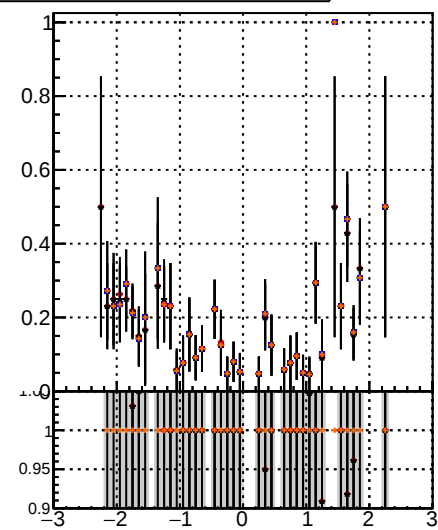
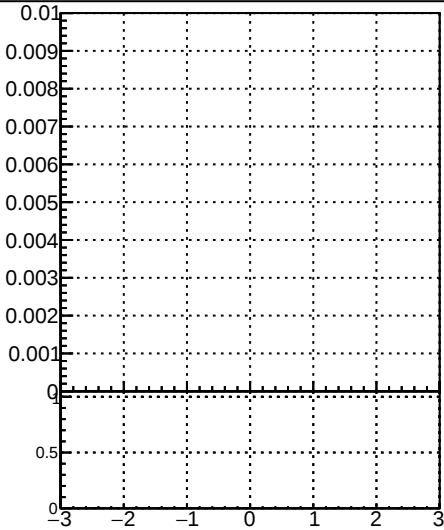
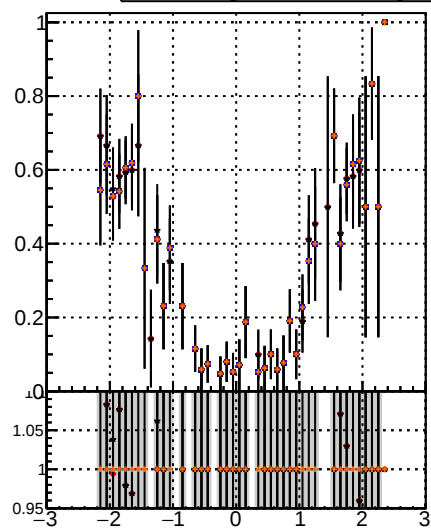
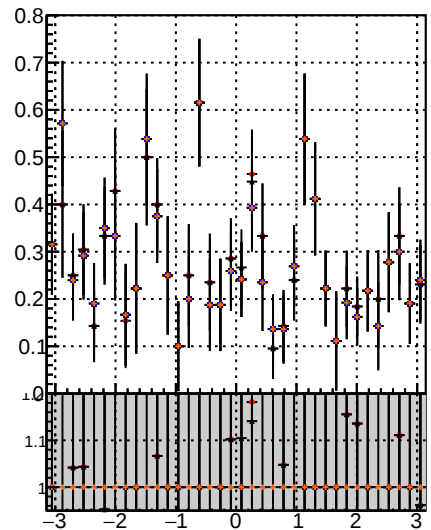


Fake rate vs p_T Duplicates Rate vs p_T Pileup rate vs p_T 

Legend for all plots:

- Blue line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Red line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Black line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Orange line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Green line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Yellow line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Purple line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light blue line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light red line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light black line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light orange line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light green line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light yellow line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light purple line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light light blue line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light light red line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light light black line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light light orange line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light light green line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light light yellow line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$
- Light light purple line: $BQM \rightarrow TT \rightarrow MS \rightarrow \det0$

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