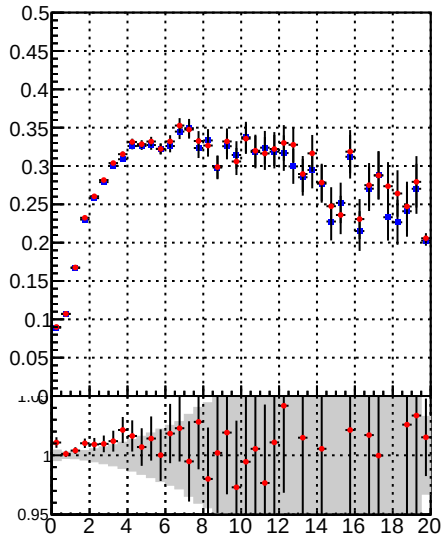
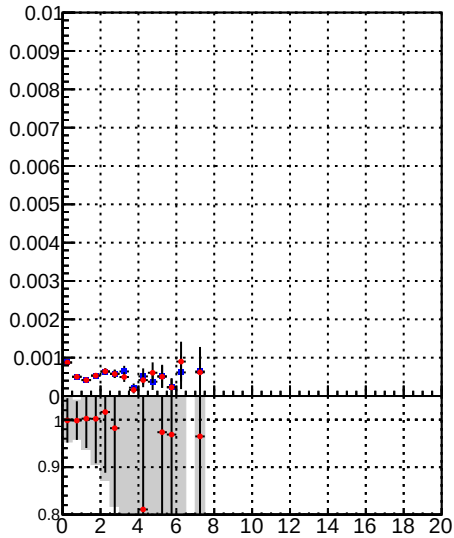
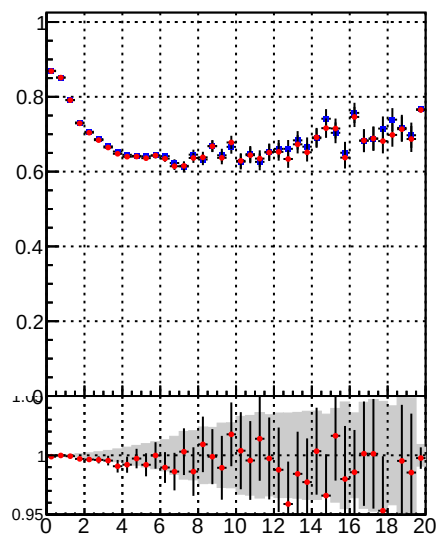


Fake rate vs normalized χ^2 Duplicates Rate vs normalized χ^2 Pileup rate vs normalized χ^2 Fake rate vs.

/data2/legianni/BDT-vs-DNN/real-BDT/CMSSW_13_0_0_pre4/src/runrem/DQM_TT_mkFit_

DQM_TT_mkFitRETEST

Top panel: Fake rate vs. BDT configurations. The y-axis ranges from 0.12 to 0.2, and the x-axis lists various BDT configurations. Data points are shown for two datasets: /data2/legianni/BDT-vs-DNN/real-BDT/CMSSW_13_0_0_pre4/src/runrem/DQM_TT_mkFit_ (blue) and DQM_TT_mkFitRETEST (red). Both datasets show a similar trend, peaking around the configuration $\text{BDT1+BDT2+BDT3+BDT4}$ and then decreasing. Error bars are included for all points.

Bottom panel: Difference between the two datasets. The y-axis ranges from 0.95 to 1.05, and the x-axis lists various BDT configurations. The difference is mostly within the shaded gray band, indicating good agreement between the two datasets.

Top panel: Duplicates Rate vs. BDT configurations. The y-axis is on a logarithmic scale from 0.9 to 0.01, and the x-axis lists various BDT configurations. Data points are shown for two datasets: /data2/legianni/BDT-vs-DNN/real-BDT/CMSSW_13_0_0_pre4/src/runrem/DQM_TT_mkFit_ (blue) and DQM_TT_mkFitRETEST (red). Both datasets show a similar trend, peaking around the configuration $\text{BDT1+BDT2+BDT3+BDT4}$ and then decreasing. Error bars are included for all points.

Bottom panel: Difference between the two datasets. The y-axis ranges from 0.9 to 1.05, and the x-axis lists various BDT configurations. The difference is mostly within the shaded gray band, indicating good agreement between the two datasets.

Top panel: Pileup rate vs. BDT configurations. The y-axis ranges from 0.6 to 1.0, and the x-axis lists various BDT configurations. Data points are shown for two datasets: /data2/legianni/BDT-vs-DNN/real-BDT/CMSSW_13_0_0_pre4/src/runrem/DQM_TT_mkFit_ (blue) and DQM_TT_mkFitRETEST (red). Both datasets show a similar trend, peaking around the configuration $\text{BDT1+BDT2+BDT3+BDT4}$ and then decreasing. Error bars are included for all points.

Bottom panel: Difference between the two datasets. The y-axis ranges from 0.95 to 1.05, and the x-axis lists various BDT configurations. The difference is mostly within the shaded gray band, indicating good agreement between the two datasets.