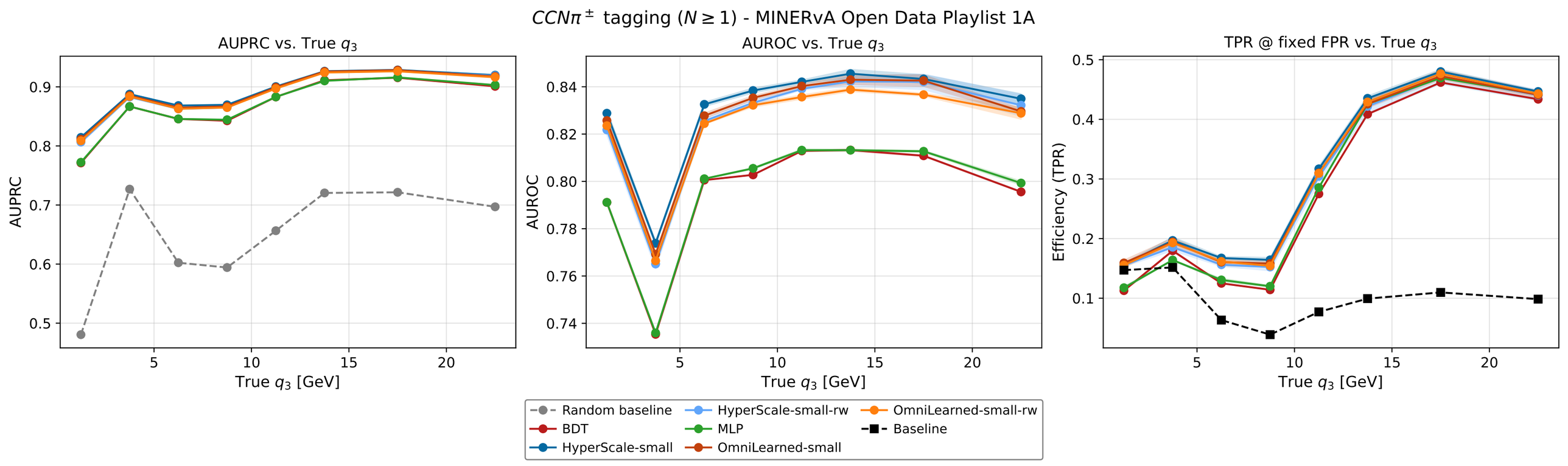
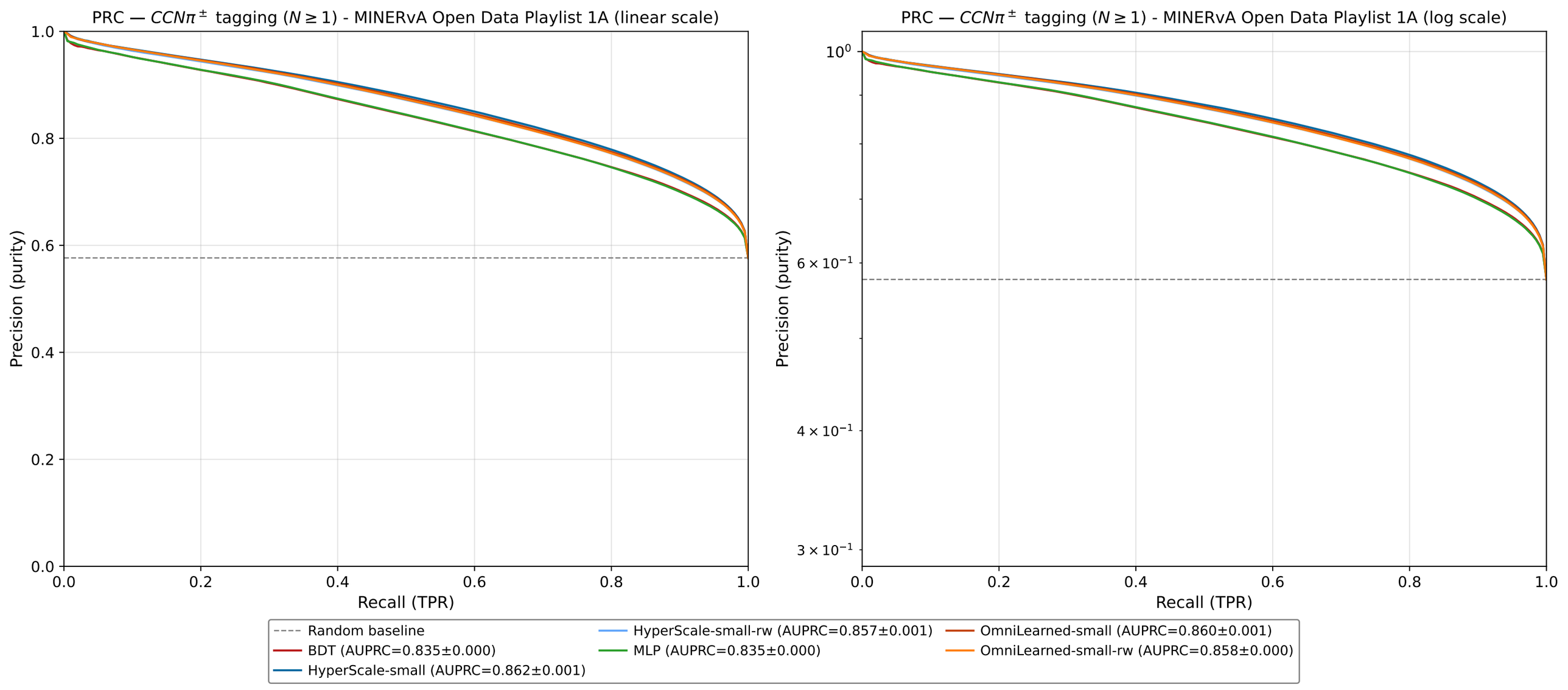
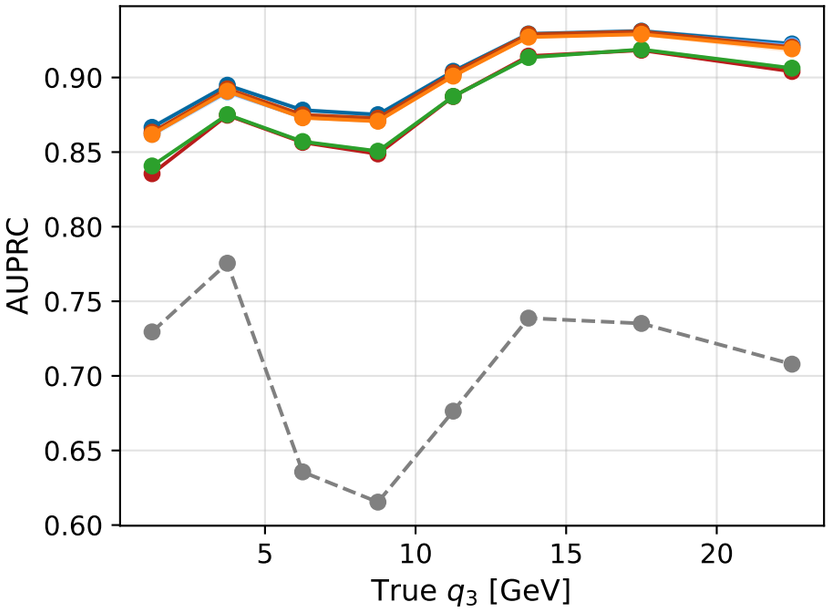

$CCN\pi^{\pm}$ tagging ($N \geq 1$) - MINERvA Open Data Playlist 1A
AUPRC vs. True q_3
AUPRC
True q_3 [GeV]
AUROC vs. True q_3
AUROC
True q_3 [GeV]
TPR @ fixed FPR vs. True q_3
Efficiency (TPR)
True q_3 [GeV]
Random baseline
HyperScale-small-rw
OmniLearned-small-rw
BDT
MLP
Baseline
HyperScale-small
OmniLearned-small

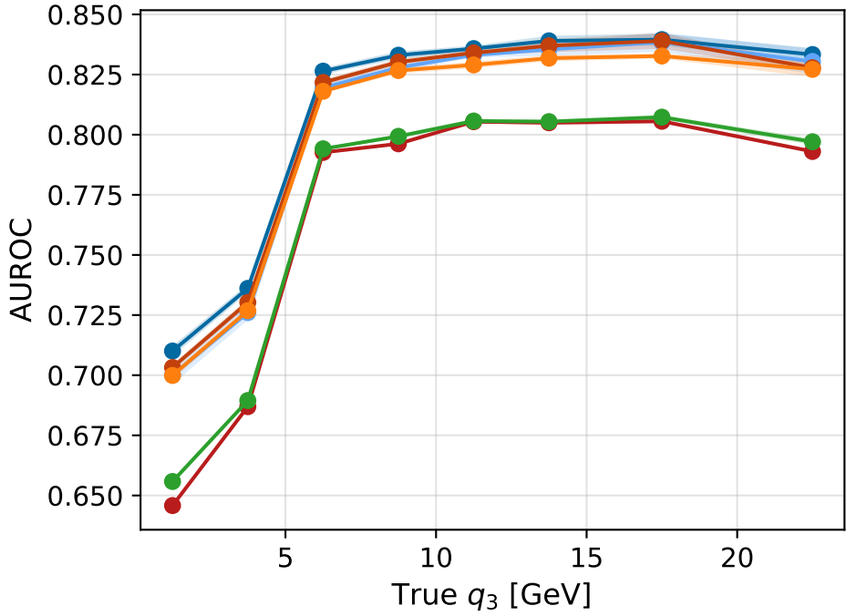

PRC — $CCN\pi^{\pm}$ tagging ($N \geq 1$) - MINERvA Open Data Playlist 1A (linear scale)
PRC — $CCN\pi^{\pm}$ tagging ($N \geq 1$) - MINERvA Open Data Playlist 1A (log scale)
Precision (purity)
Recall (TPR)
1.0
0.8
0.6
0.4
0.2
0.0
10^{0}
6×10^{-1}
4×10^{-1}
3×10^{-1}
Random baseline
BDT (AUPRC=0.835±0.000)
HyperScale-small (AUPRC=0.862±0.001)
HyperScale-small-rw (AUPRC=0.857±0.001)
MLP (AUPRC=0.835±0.000)
OmniLearned-small (AUPRC=0.860±0.001)
OmniLearned-small-rw (AUPRC=0.858±0.000)

$CCN\pi^{\pm}$ tagging ($N \geq 1$) - MINERvA Open Data Playlist 1A - by interaction type

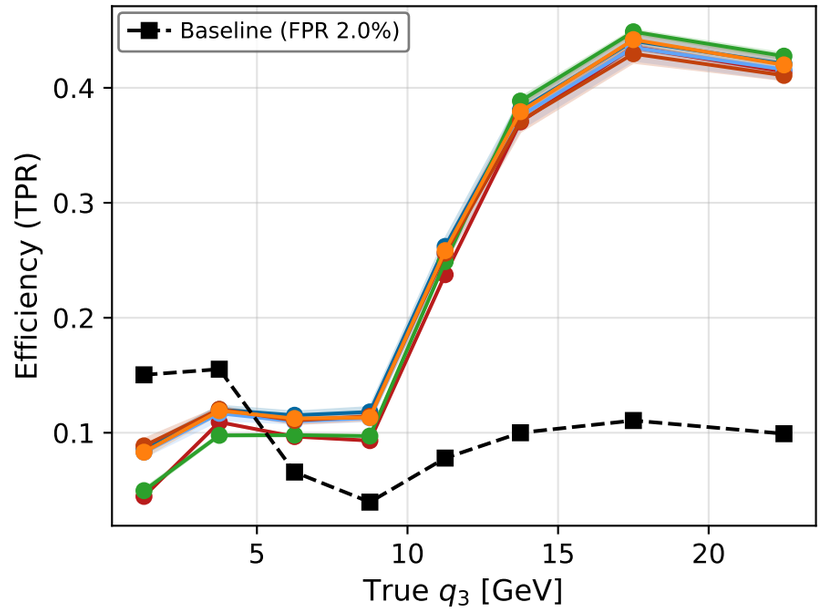
DIS (N=468,531) — AUPRC vs. True q_3



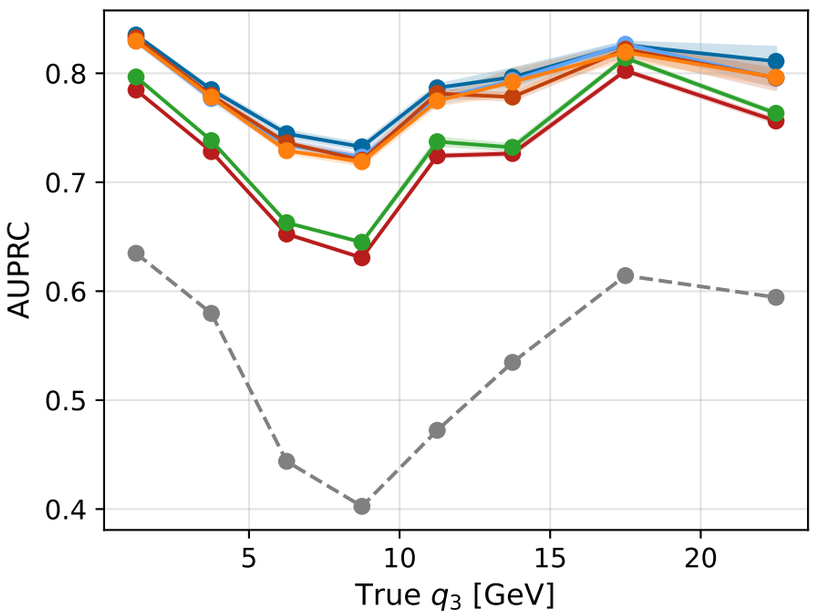
DIS (N=468,531) — AUROC vs. True q_3



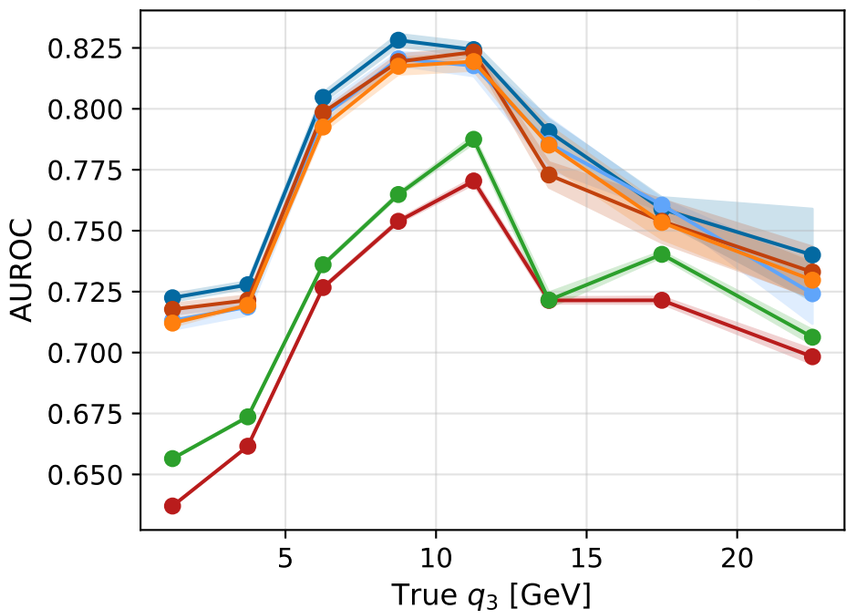
DIS (N=468,531) — TPR @ fixed FPR vs. True q_3



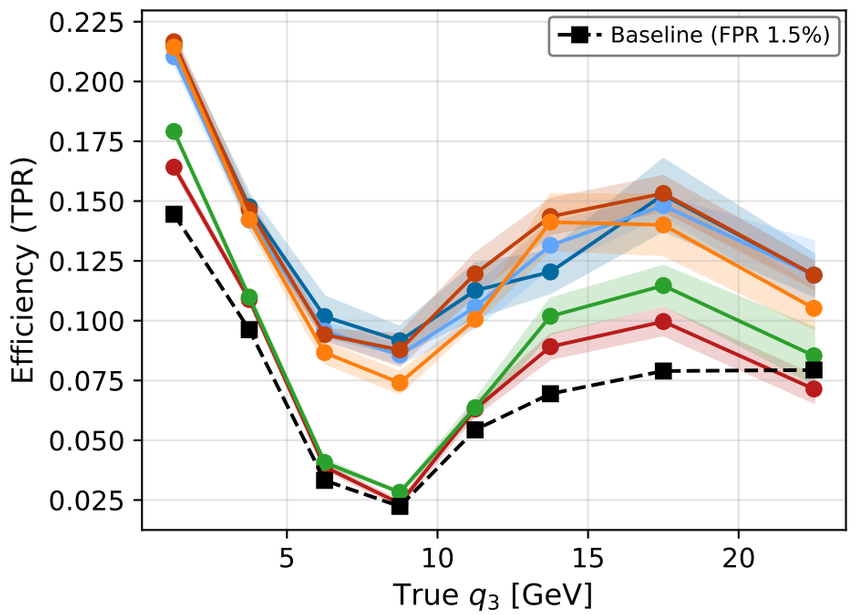
RES (N=162,809) — AUPRC vs. True q_3



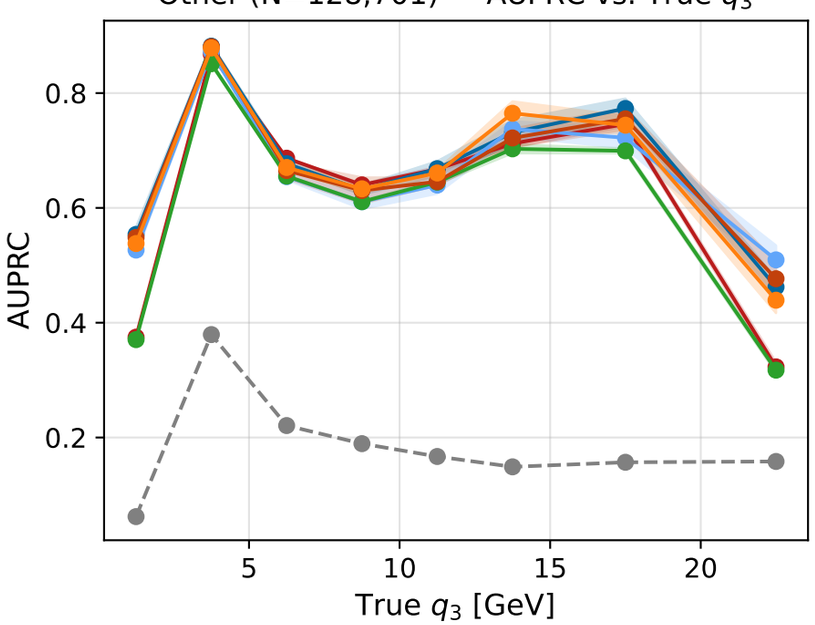
RES (N=162,809) — AUROC vs. True q_3



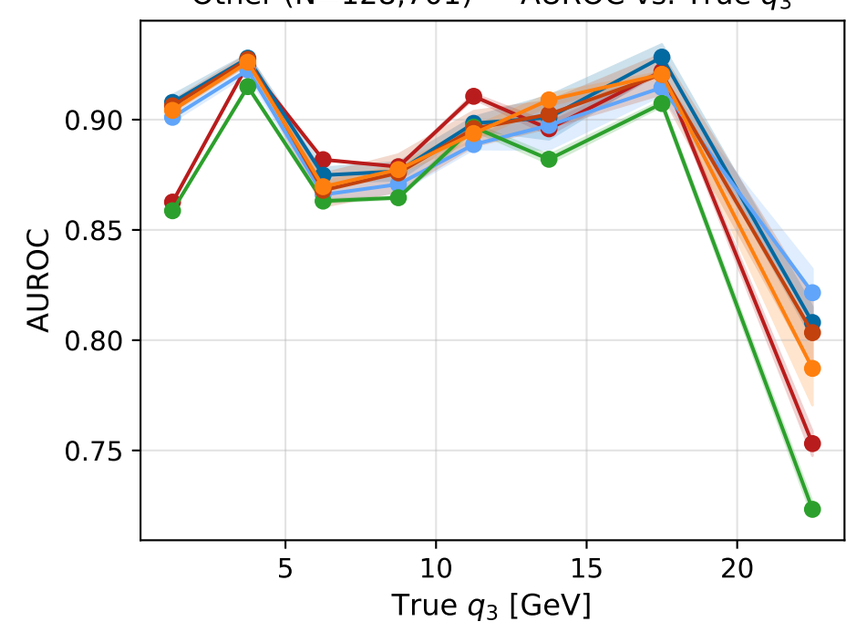
RES (N=162,809) — TPR @ fixed FPR vs. True q_3



Other (N=128,701) — AUPRC vs. True q_3



Other (N=128,701) — AUROC vs. True q_3



Other (N=128,701) — TPR @ fixed FPR vs. True q_3

