

Figure 1: A plot showing the ratio of TrackingParticles to TP dxy(PV) (cm) for four different simulation scenarios. The top panel shows the ratio on a logarithmic scale from 10^0 to 10^5 . The bottom panel shows the ratio on a linear scale from 0.95 to 1.05. The x-axis ranges from -25 to 25 cm. The legend indicates: DQM_TT_original_noPU (blue line with circles), DQM_TT_paretofrontMaxEffOnlyFWD_PU (red line with circles), DQM_TT_paretofrontMinFROnlyFWD_PU (black line with circles), and DQM_TT_paretofrontMaxHitsOnlyFWD_PU (orange line with circles). The bottom panel shows a ratio of 1.0 for the original case and a ratio of approximately 0.95 for the PU cases.

