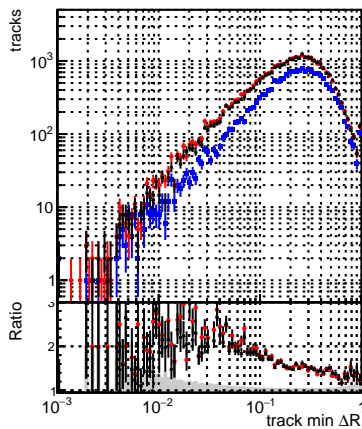
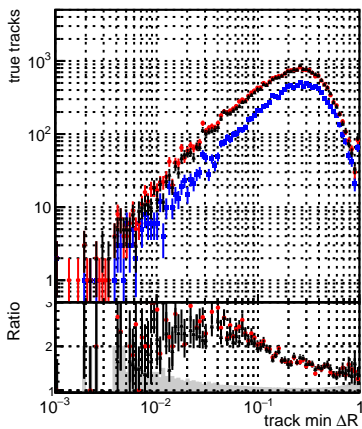


N of reconstructed tracks vs dR



N of associated tracks (recoToSim) vs dR



N of associated (recoToSim) looper tracks vs dR

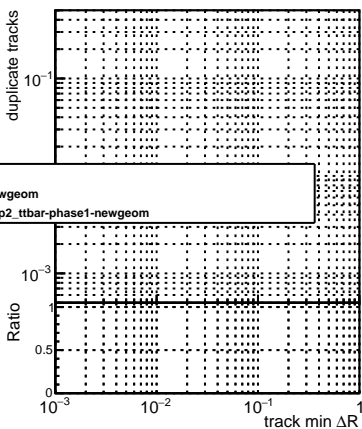
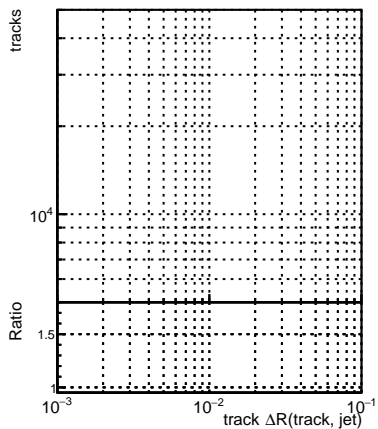
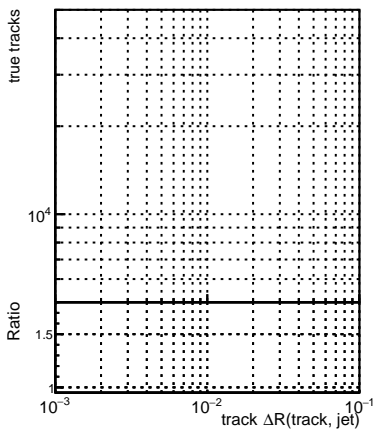


Figure 1 consists of two panels. The top panel is a log-log plot of 'Ratio' (y-axis, ranging from 10 to 1000) versus 'track min ΔR ' (x-axis, ranging from 10^{-3} to 10^0). It shows three data series: 'DQM_original_step2_ttbar-phase1-newgeometric' (blue line with circles), 'DQM_pixelCPETemplate_step2_ttbar-phase1-newgeometric' (red line with circles), and 'DQM_pixelCPETemplateCutChiSquareNewgeometric' (black line with circles). All three series show a peak around 0.1 track min ΔR , with the pixelCPETemplate methods showing a higher ratio (around 100) compared to the original DQM method (around 50). The bottom panel is a log-log plot of 'Ratio' (y-axis, ranging from 1 to 1.5) versus 'track min ΔR ' (x-axis, ranging from 10^{-3} to 10^0). It shows the same three data series, but the ratios are much lower, generally below 1.5, indicating that the pixelCPETemplate methods perform similarly to or slightly better than the original DQM method in this specific comparison.

N of reconstructed tracks vs dR(track,jet)



N of associated tracks (recoToSim) vs dR(track,jet)



N of associated (recoToSim) looper tracks vs dR(track,jet)

