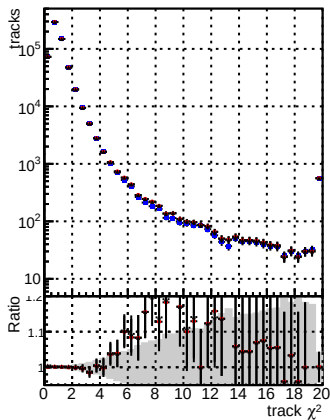


N of reco track vs normalized χ^2



N of associated (recoToSim) tracks vs normalized χ^2

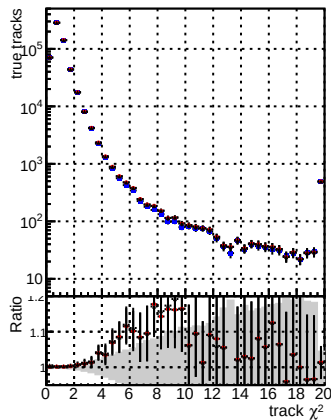
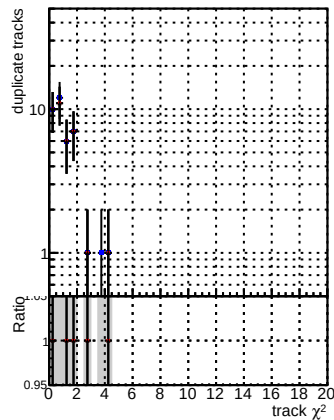
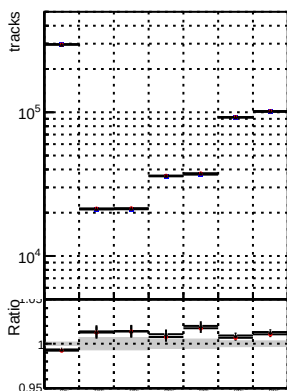


Figure 1 consists of two panels. The top panel is a log-linear plot of 'fake tracks' (y-axis, logarithmic scale from 10¹ to 10⁴) versus 'track γ^2 ' (x-axis, linear scale from 0 to 20). It shows two data series: one with blue circles and another with black circles, both with error bars. Both series show a sharp decrease from approximately 10⁴ at $\gamma^2 = 0$ to about 10 at $\gamma^2 = 10$, then level off. The bottom panel is a linear plot of 'Ratio' (y-axis, linear scale from 0.8 to 1.4) versus 'track γ^2 ' (x-axis, linear scale from 0 to 20). It shows a single data series with black circles and error bars, fluctuating around a ratio of 1.0. A shaded gray region is visible in the background of the bottom panel, representing a confidence interval.

N of associated (recoToSim) looper tracks vs normalized χ^2



N of reco track vs. s



The figure consists of two vertically stacked plots. The top plot has 'true tracks' on the y-axis, with a logarithmic scale ranging from 10^4 to 10^5 . The bottom plot has 'Ratio' on the y-axis, with a linear scale ranging from 0.95 to 1.0. Both plots share an x-axis representing the number of true tracks, with major ticks at 10^4 , 10^5 , and 10^6 . The data points are represented by black dots with vertical error bars. In the top plot, the ratio starts at approximately 10^4 for 10^4 true tracks and increases to approximately 10^5 for 10^5 true tracks. In the bottom plot, the ratio starts at approximately 0.98 for 10^4 true tracks and increases to approximately 0.99 for 10^5 true tracks, then approaches 1.0 for 10^6 true tracks.

Figure 1 consists of two vertically stacked plots. The top plot, labeled 'fake tracks' on the y-axis, shows data points with error bars on a logarithmic scale ranging from 10^3 to 10^4 . The bottom plot, labeled 'Ratio' on the y-axis, shows data points with error bars on a linear scale ranging from 0.95 to 1.05. Both plots include a shaded gray region representing the uncertainty or confidence interval.