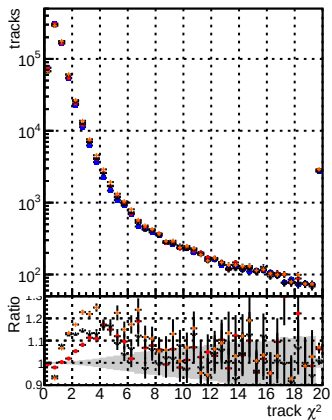


N of reco track vs normalized χ^2



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

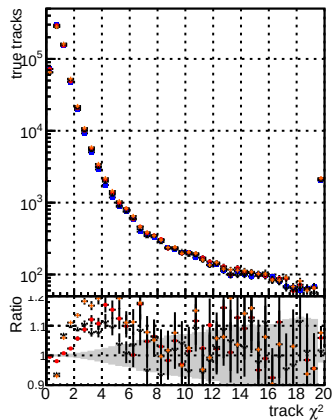
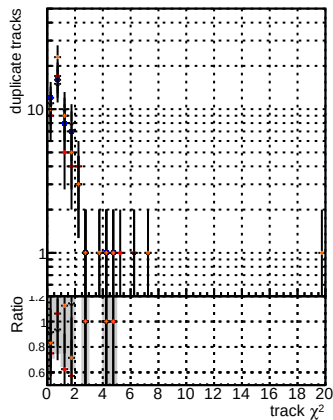


Figure 1 consists of two panels. The top panel is a log-linear plot of 'fake tracks' (y-axis, logarithmic scale from 1 to 10^4) versus 'track χ^2 ' (x-axis, linear scale from 0 to 20). It shows four data series: black circles, red squares, blue triangles, and orange crosses, all connected by lines. All series show a sharp decrease in fake tracks as χ^2 increases, starting from approximately 10^4 at $\chi^2 = 0$ and dropping to around 10 at $\chi^2 = 10$, then leveling off. The bottom panel is a linear plot of 'Ratio' (y-axis, linear scale from 0.8 to 1.4) versus 'track χ^2 ' (x-axis, linear scale from 0 to 20). It shows the same four data series with error bars. The ratios fluctuate around 1.0, with a shaded gray region indicating a trend that starts at approximately 1.05 at $\chi^2 = 0$ and decreases to about 0.9 at $\chi^2 = 10$, then remains relatively flat.

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



N of reco track vs. s

