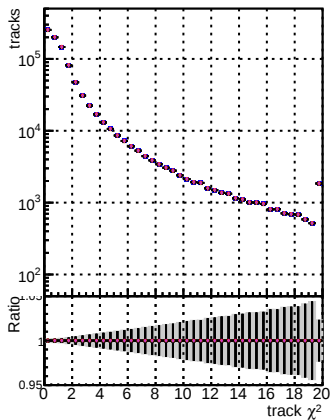


N of reco track vs normalized χ^2



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

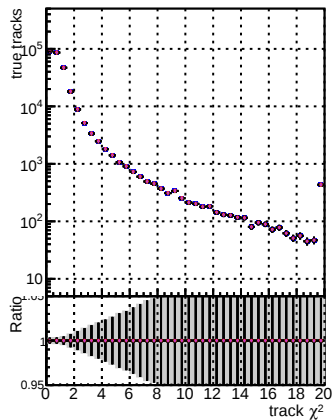
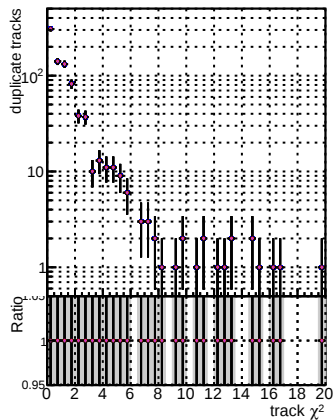


Figure 1 consists of two vertically stacked plots sharing a common x-axis labeled 'track χ^2 ' ranging from 0 to 20. The top plot has a y-axis labeled 'fake tracks' on a logarithmic scale from 10^2 to 10^5 . It shows data points (black dots) and a red line representing a fit. The bottom plot has a y-axis labeled 'Ratio' on a linear scale from 0.95 to 1.05. It shows a shaded region representing the uncertainty and a red line representing the fit.

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



N of reco track vs. s

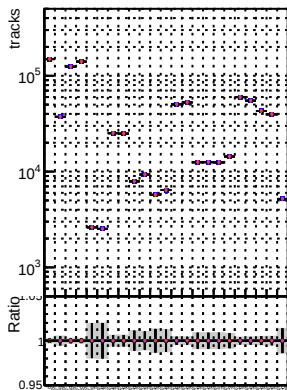


Figure 1 is a log-linear plot showing the number of duplicate tracks (Y-axis, logarithmic scale from 1 to 10²) versus the ratio of tracks (X-axis, linear scale from 0.95 to 1.0). The data points are represented by black dots with vertical error bars. A horizontal line is drawn at Ratio = 1.0. The plot shows that the number of duplicate tracks increases as the ratio of tracks increases, with a significant increase observed for ratios greater than 0.98.