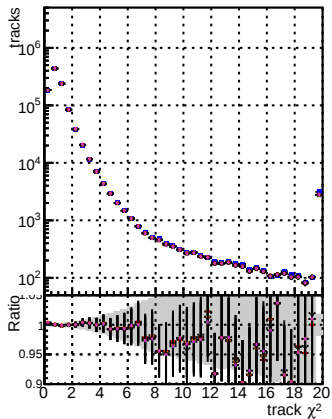


N of reco track vs normalized χ^2



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

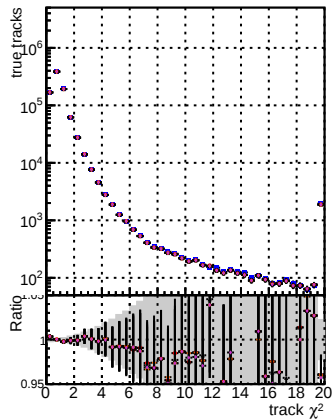
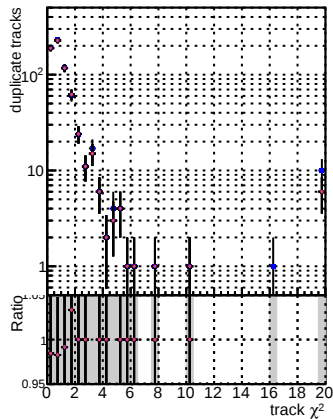


Figure 1 consists of two panels. The top panel is a log-linear plot of 'fake tracks' (y-axis, logarithmic scale from 10¹ to 10⁵) versus 'track χ^2 ' (x-axis, linear scale from 0 to 20). It shows two data series: purple circles and blue circles, both connected by lines. Both series show a sharp decrease in the number of fake tracks as χ^2 increases, starting from approximately 10^{4.5} at $\chi^2 = 0$ and dropping to around 10¹ at $\chi^2 = 20$. The bottom panel is a linear plot of 'Ratio' (y-axis, linear scale from 0.8 to 1.2) versus 'track χ^2 ' (x-axis, linear scale from 0 to 20). It shows two data series: purple circles and blue circles, both connected by lines. The ratio starts at 1.0 for $\chi^2 < 4$ and then fluctuates around 1.0, with a slight downward trend as χ^2 increases, reaching approximately 0.9 at $\chi^2 = 20$.

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



N of reco track vs. s

