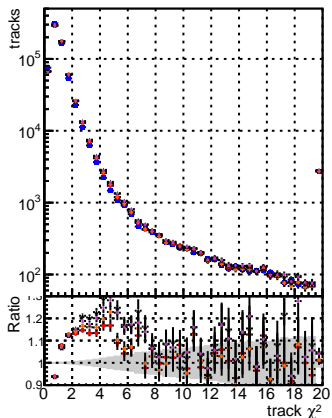


N of reco track vs normalized  $\chi^2$



N of associated (recoToSim) tracks vs normalized  $\chi^2$

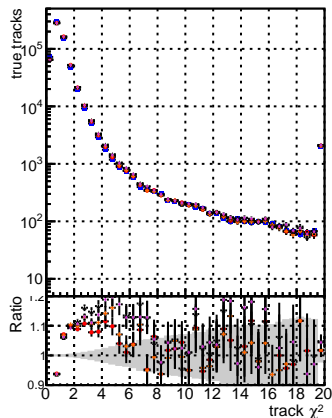
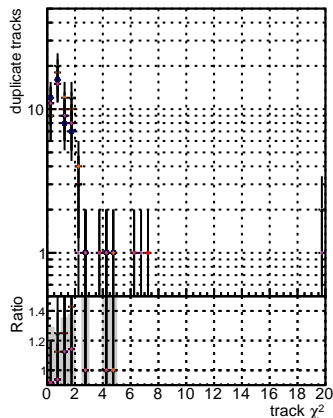


Figure 1 consists of two panels. The top panel is a log-linear plot of 'fake\_tracks' (y-axis, logarithmic scale from 1 to 10^4) versus 'track  $\gamma_0$ ' (x-axis, linear scale from 0 to 20). It shows data points for three different track types (blue, red, and black) and a solid black line representing a fit. The number of fake tracks decreases sharply from about 10^4 at  $\gamma_0 = 0$  to about 10 at  $\gamma_0 = 10$ , and then levels off. The bottom panel is a linear plot of 'Ratio' (y-axis, linear scale from 0.8 to 1.4) versus 'track  $\gamma_0$ ' (x-axis, linear scale from 0 to 20). It shows the same three data series as the top panel, with a shaded gray region representing a confidence interval or uncertainty band. The ratio fluctuates around 1.0, with a slight dip around  $\gamma_0 = 6$ .

N of associated (recoToSim) looper tracks vs normalized  $\chi^2$



N of reco track vs. s

