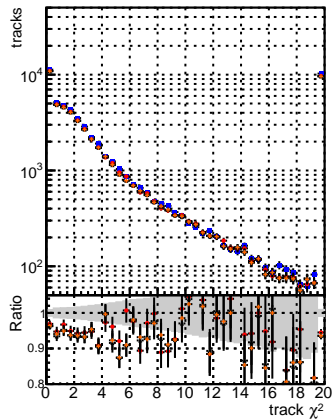


N of reco track vs normalized χ^2



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

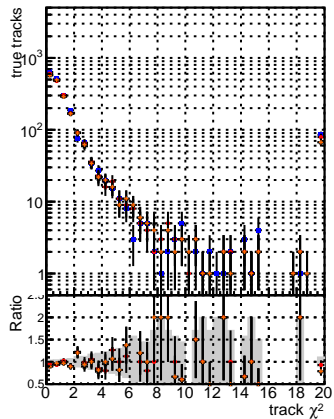
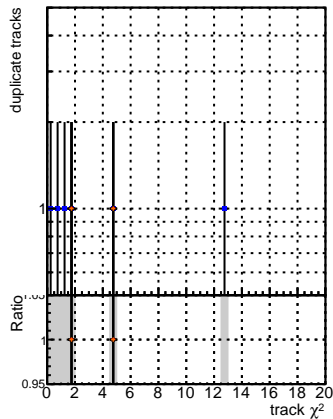
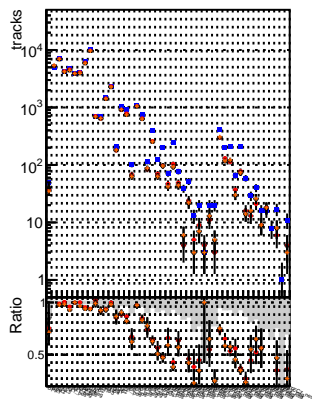


Figure 1 consists of two panels. The top panel is a log-linear plot of 'fake tracks' (y-axis, logarithmic scale from 10 to 10^4) versus 'track χ^2 ' (x-axis, linear scale from 0 to 20). It shows two data series: blue circles and red circles, both connected by lines. Both series show a decreasing trend as χ^2 increases, starting from approximately 4000 at $\chi^2=0$ and dropping to around 100 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 the ratio of the two data series from the top panel. The ratio is mostly close to 1.0, with some fluctuations and error bars. A horizontal dashed line is drawn at Ratio = 1.0.

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



N of reco track vs. s



Method	Ratio (approx.)
DECODE	1.0
DECODE-HS	1.0
RE2	1.0
REDE	1.0
REDE-HS	1.4