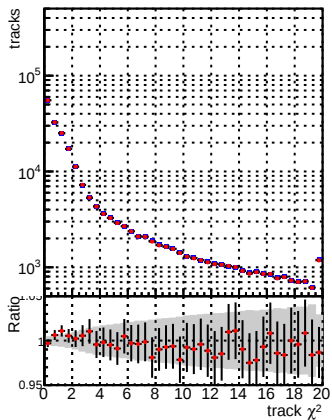
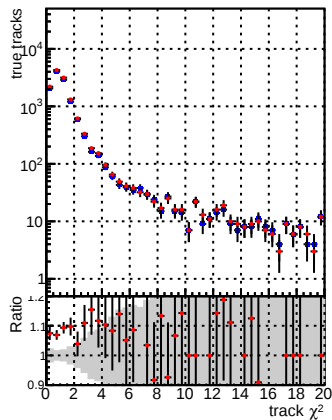


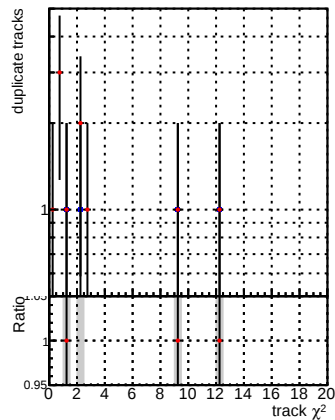
N of reco track vs normalized  $\chi^2$



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



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



N of reco track vs. s

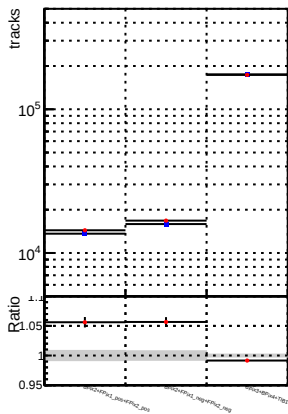


Figure 1 is a log-linear plot showing the ratio of true tracks to estimated tracks for three different track-finding methods: Best Threshold, Best Threshold + Threshold, and Best Threshold + Threshold + Threshold. The y-axis is 'Ratio' on a log scale from 10<sup>3</sup> to 10<sup>4</sup>. The x-axis is 'true tracks' on a log scale from 10<sup>3</sup> to 10<sup>4</sup>. The plot shows that the ratio is generally close to 1, indicating good performance, with some scatter at higher track counts.

Figure 1 consists of two vertically stacked panels. The top panel is labeled 'duplicate tracks' on the y-axis, and the bottom panel is labeled 'Ratio' on the y-axis. Both panels have a logarithmic y-axis with major ticks at 1, 10, and 100. The x-axis for both panels has two categories: 'duplicate tracks' and 'Ratio'. In the top panel, the 'duplicate tracks' category has a red dot at approximately 3.5, and the 'Ratio' category has a blue dot at 10. In the bottom panel, the 'duplicate tracks' category has a red dot at approximately 1.5, and the 'Ratio' category has a red dot at 4. Both dots have vertical error bars. The bottom panel also features a shaded gray area at the bottom, representing a baseline or reference range.