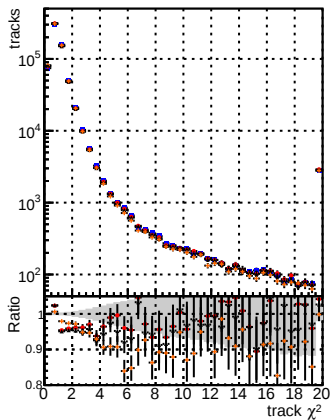
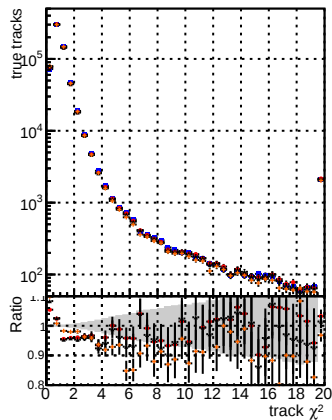


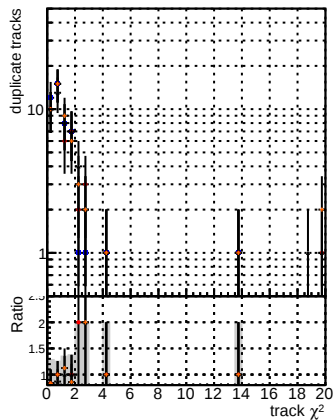
N of reco track vs normalized  $\chi^2$



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 |  | BQM<br>mkFit | --JanUupdate-date=DOF     |
|                       |  | BQM<br>mkFit | --JanUupdate-date=statErr |
|                       |  |              | --JanUupdate-systemErr    |

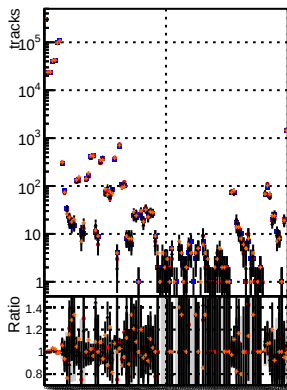


Figure 1 consists of three vertically stacked panels sharing a common x-axis labeled 'Set' with categories: 'All', '100%', '90%', '80%', '70%', '60%', '50%', '40%', '30%', '20%', '10%', '0%'. The legend indicates 'yesSet' (black) and 'noSet' (gray).

- Top Panel:** Y-axis is 'duplicate tracks' on a log scale from 1 to 100. It shows black error bars for 'yesSet' and gray error bars for 'noSet'. The 'yesSet' data points are significantly higher than the 'noSet' data points.
- Middle Panel:** Y-axis is 'Ratio' on a log scale from 0.5 to 2.0. It shows black error bars for 'yesSet' and gray error bars for 'noSet'. The 'yesSet' data points are generally higher than the 'noSet' data points.
- Bottom Panel:** Y-axis is 'Ratio' on a linear scale from 1 to 2.0. It shows black error bars for 'yesSet' and gray error bars for 'noSet'. The 'yesSet' data points are generally higher than the 'noSet' data points.