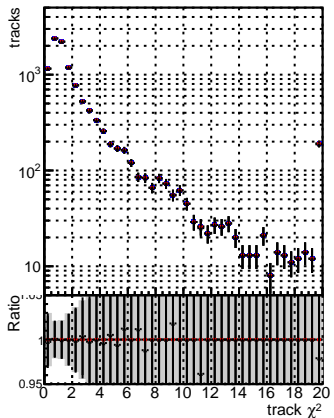
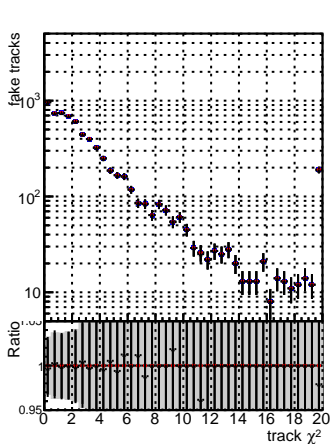
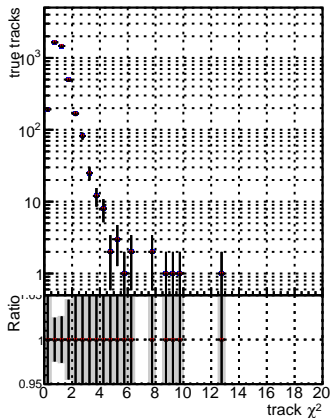


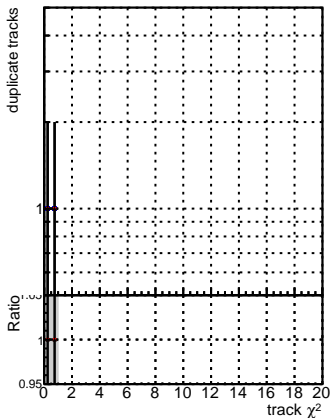
N of reco track vs normalized  $\chi^2$



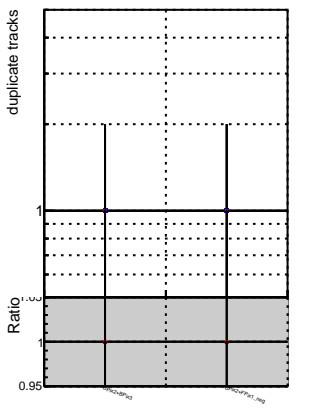
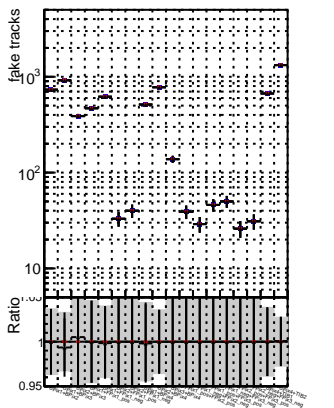
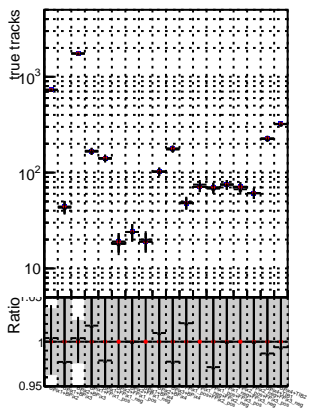
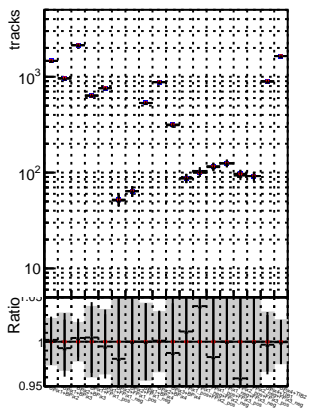
N of associated (recoToSim) tracks vs normalized  $\chi^2$



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



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



Legend for track types: DGM (blue dot), ttbar (black dot), PU (red dot), mkFit (green dot), Siter (purple dot), updatedPR111 (orange dot), update (yellow dot), fixPropagation (grey dot).  
 Legend for track ratios: DGM (blue bar), ttbar (black bar), PU (red bar), mkFit (green bar), Siter (purple bar), updatedPR111 (orange bar), update (yellow bar), fixPropagation (grey bar).  
 Legend for looper tracks: DGM (blue bar), ttbar (black bar), PU (red bar), mkFit (green bar), Siter (purple bar), updatedPR111 (orange bar), update (yellow bar), fixPropagation (grey bar).