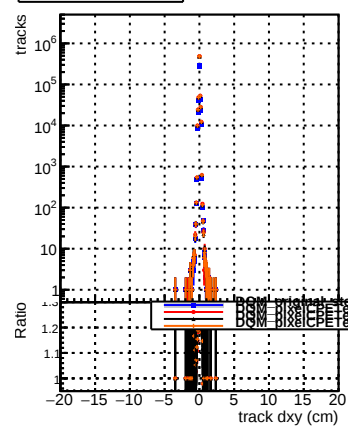


N of reco track vs dxy



N of associated (recoToSim) tracks vs dxy

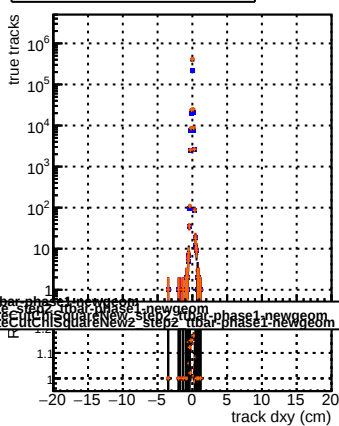
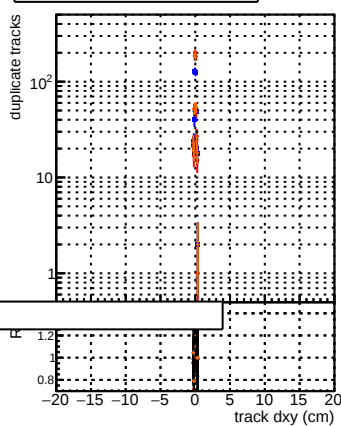
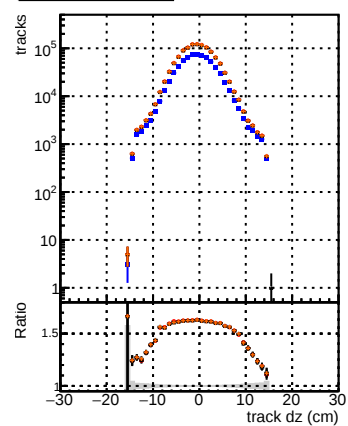


Figure 10 consists of two panels. The top panel is a log-linear plot of 'fake tracks' (y-axis, logarithmic scale from 1 to 10^5) versus 'track dxy (cm)' (x-axis, linear scale from -20 to 20). It shows a sharp peak at $d_{xy} = 0$ for all three data series: 2017 data (black), 2017 MC (red), and 2018 MC (blue). The bottom panel is a linear plot of 'F' (y-axis, linear scale from 0 to 2.0) versus 'track dxy (cm)' (x-axis, linear scale from -20 to 20). It shows a sharp peak at $d_{xy} = 0$ for the 2017 data (black) and 2017 MC (red), while the 2018 MC (blue) shows a much broader distribution centered around $d_{xy} = 0$.

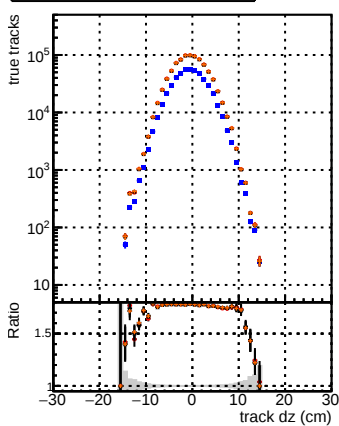
N of associated (recoToSim) looper tracks vs dxy



N of reco track vs dz



N of associated (recoToSim) tracks vs dz



N of associated (recoToSim) looper tracks vs dz

