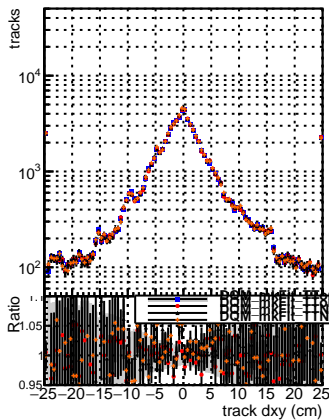


N of reco track vs dxy



N of associated (recoToSim) tracks vs dxy

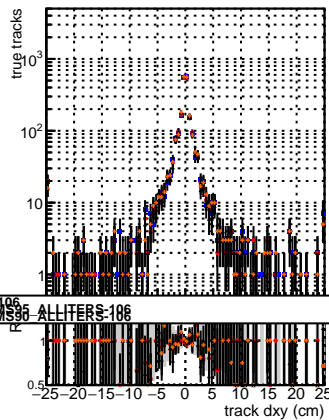
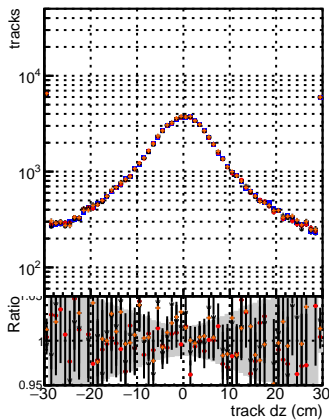


Figure 1 consists of two panels. The top panel is a log-linear plot of 'fake tracks' versus 'track dxy (cm)'. The y-axis is logarithmic, ranging from 10^2 to 10^4 . The x-axis ranges from -25 to 25 cm. Data points are shown for three different $\Delta\eta$ ranges: $\Delta\eta \in [0, 1]$ (red circles), $\Delta\eta \in [1, 2]$ (blue squares), and $\Delta\eta \in [2, 3]$ (black triangles). A solid black line represents the total fit. The distribution is peaked at $dxy = 0$ with a maximum value of approximately 4×10^3 . The bottom panel is a linear plot of the ratio $\frac{f_{\text{fake}}}{f_{\text{signal}}}$ versus 'track dxy (cm)'. The y-axis ranges from 0.95 to 1.05. The x-axis ranges from -25 to 25 cm. Data points are shown for the same three $\Delta\eta$ ranges as the top panel. The ratio is mostly constant at 1.0, with some fluctuations and a slight dip around $dxy = 0$.

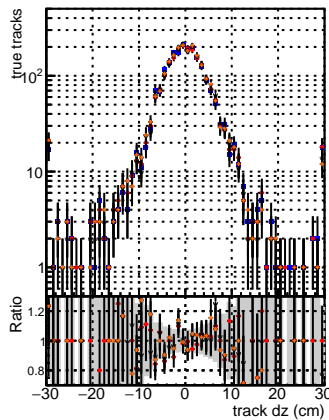
N of associated (recoToSim) looped tracks vs dxy



N of reco track vs dz



N of associated (recoToSim) tracks vs dz



N of associated (recoToSim) looper tracks vs dz

