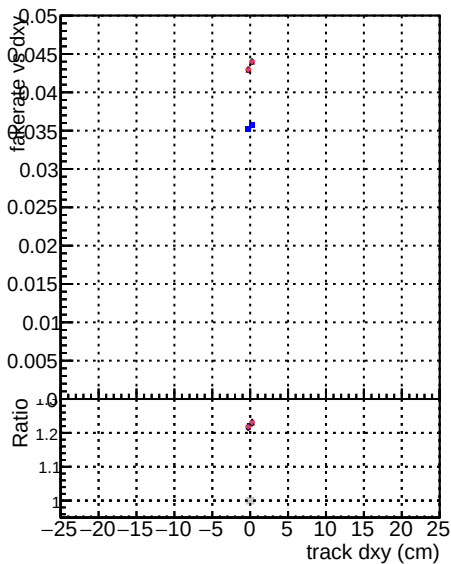
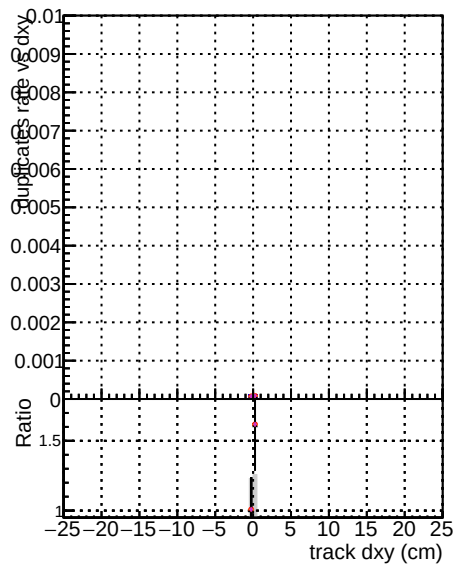


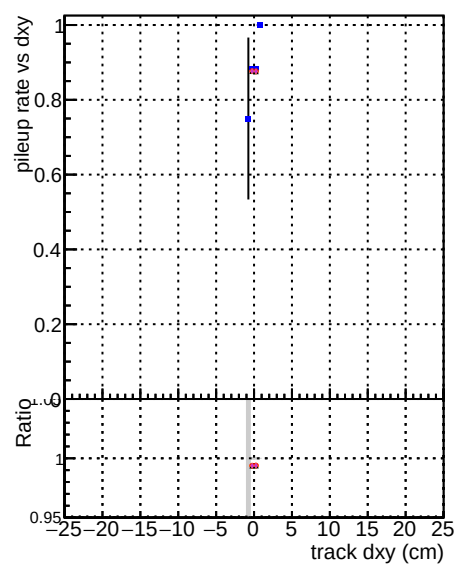
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Model	Fake rate (approx.)
DOM	0.05
GKE	0.15
TTbar	0.25
DNN	0.45
DNN+2	0.65

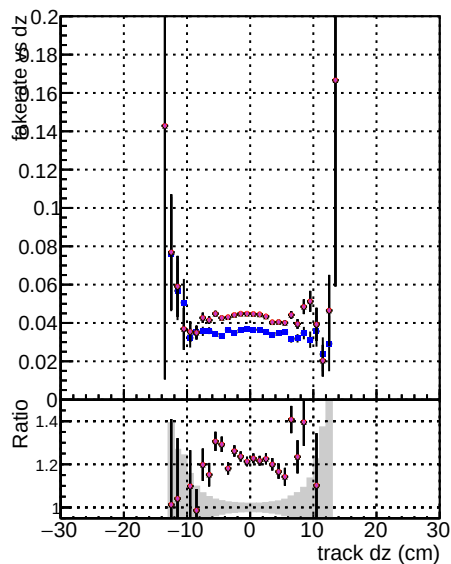


Figure 1 is a plot showing the ratio of the number of duplicated tracks to the total number of tracks as a function of track dz . The x-axis is labeled "track dz (cm)" and ranges from -30 to 30. The y-axis is labeled "Ratio" and ranges from 0 to 0.2. The plot shows data points with error bars for various track dz ranges. A shaded region is visible between track $dz = -10$ and 0.

Figure 10 consists of two panels. The top panel plots the pileup rate (y-axis, 0.6 to 1.0) against track dz (x-axis, -30 to 30 cm). The bottom panel plots the ratio (y-axis, 0.95 to 1.10) against track dz (x-axis, -30 to 30 cm). Both panels show data points with error bars and a dashed line representing the expected behavior.