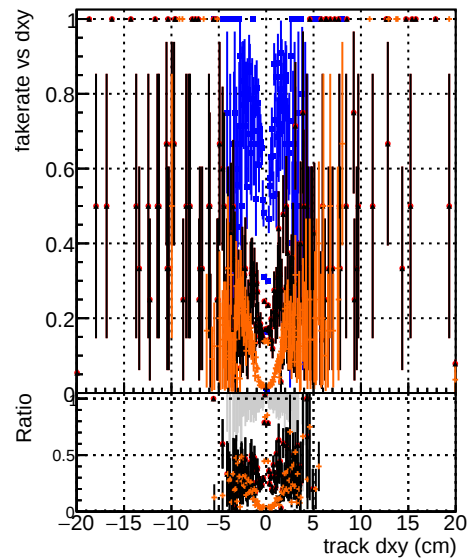
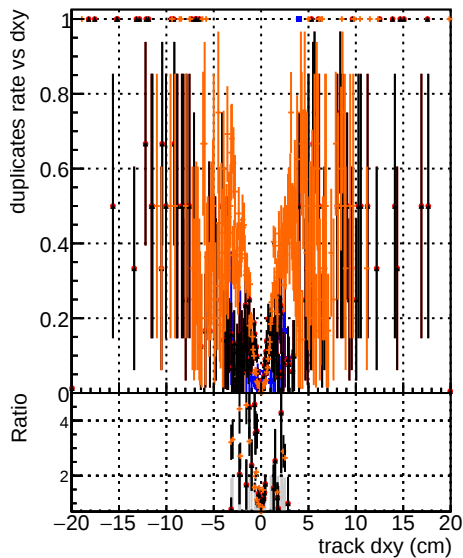


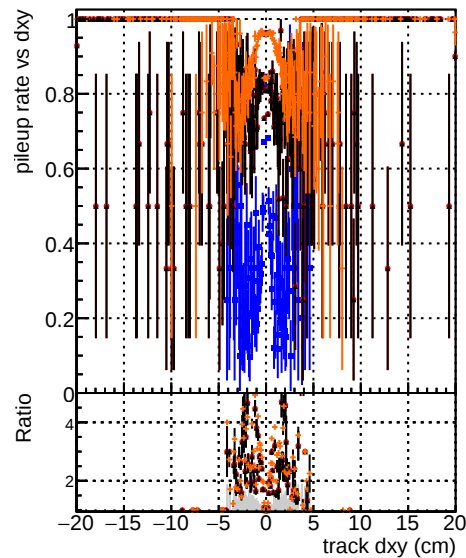
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Fake rate vs d

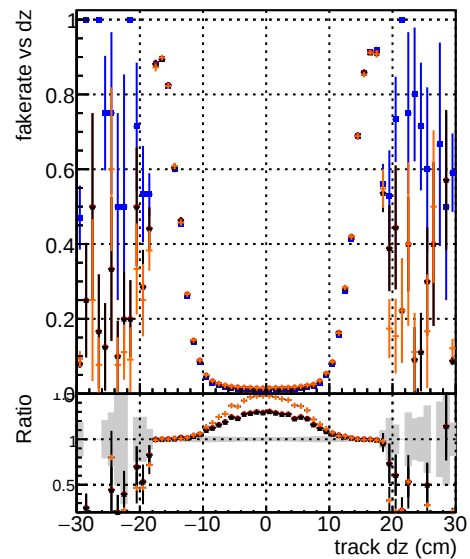


Figure 1 consists of two panels. The top panel is a plot of 'pileup rate vs dz' (y-axis, ranging from 0 to 1) versus 'track dz (cm)' (x-axis, ranging from -30 to 30). It shows three data series: blue circles, orange squares, and black diamonds, each with vertical error bars. The data points are connected by lines, showing a peak in the pileup rate around dz = 0. The bottom panel is a plot of 'Ratio' (y-axis, ranging from 1 to 4) versus 'track dz (cm)' (x-axis, ranging from -30 to 30). It shows the ratio of the pileup rate to the pileup rate at dz = 0 for the same three models. The ratios are shown as grey bars with error bars, indicating a significant increase in the ratio for the blue and orange models at large |dz| values.