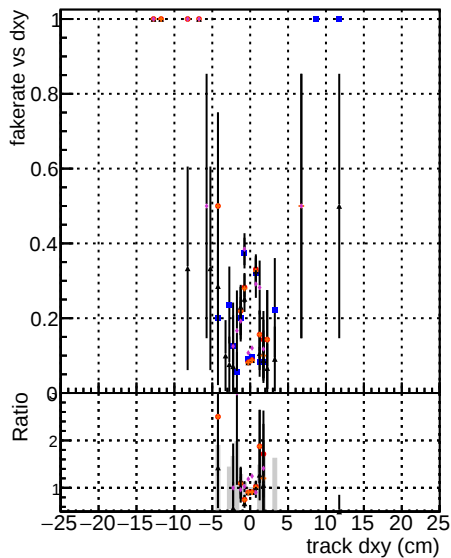
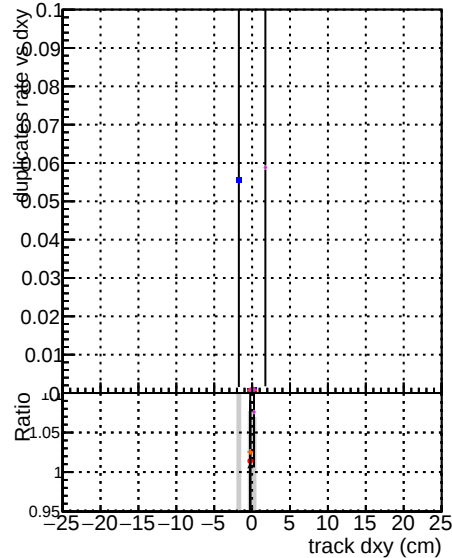


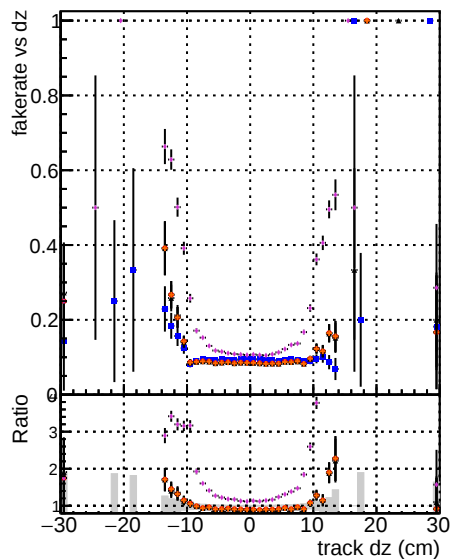
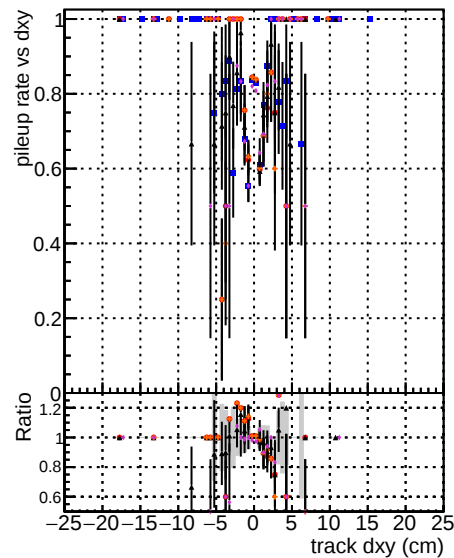
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



The figure consists of two vertically stacked panels sharing a common x-axis labeled 'track dz (cm)' ranging from -30 to 30. The top panel's y-axis is labeled 'duplicate rate vs dz' and ranges from 0.0 to 0.1. It shows data points with vertical error bars, with a prominent peak around -10 cm reaching a ratio of approximately 0.075. The bottom panel's y-axis is labeled 'Ratio' and ranges from 0.8 to 1.0. It shows data points with vertical error bars, mostly clustered around a ratio of 1.0. A shaded gray region is present in the bottom panel, spanning from approximately -15 cm to 15 cm on the x-axis.

Figure 1 consists of two panels. The top panel shows the pileup rate versus dz (cm) from -30 to 30. The y-axis ranges from 0.2 to 1.0. Data points are shown with error bars, and a solid line represents the fit. The bottom panel shows the Ratio versus track dz (cm) from -30 to 30. The y-axis ranges from 0.6 to 1.0. Data points are shown with error bars, and a solid line represents the fit. Both panels show a peak in the pileup rate and a dip in the ratio around $dz = 0$.