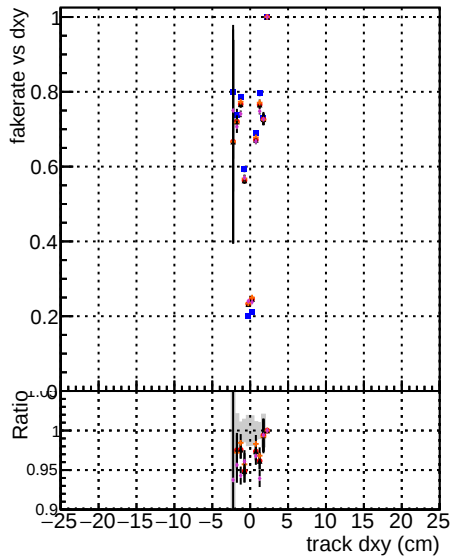
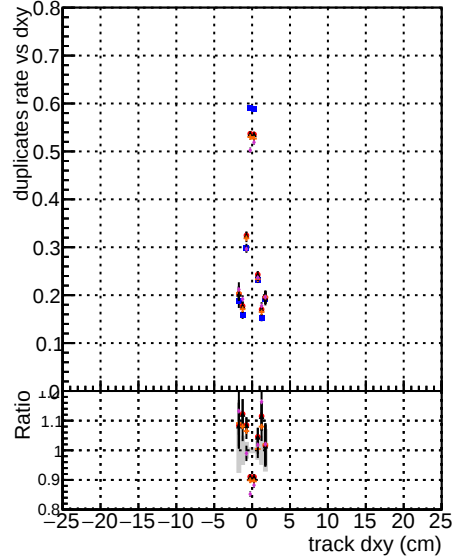


Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy

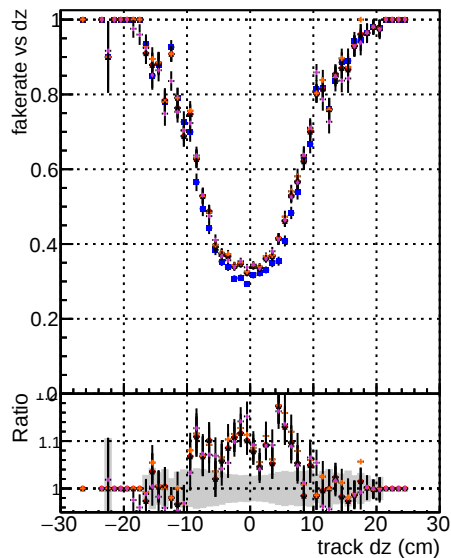
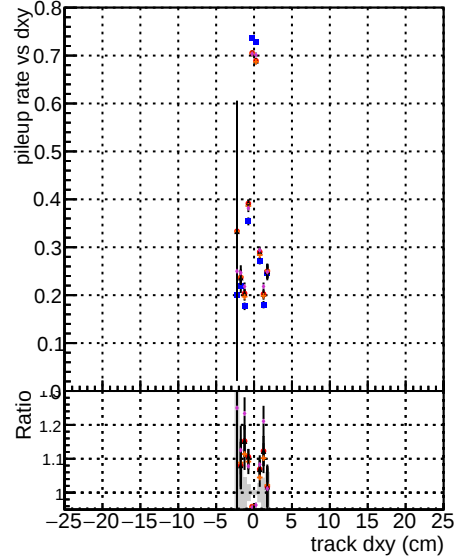


Figure 1 consists of two panels. The top panel shows the ratio of duplicate rates vs track dz (cm) for three different track dz ranges: -10 to 0 cm (blue), 0 to 10 cm (orange), and 10 to 20 cm (black). The bottom panel shows the ratio of duplicate rates vs track dz (cm) for three different track dz ranges: -10 to 0 cm (blue), 0 to 10 cm (orange), and 10 to 20 cm (black). Both panels show a peak in the ratio around 0 cm track dz.

Figure 1 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 'pileup rate vs dz' ranging from 0.0 to 0.8. It displays data points with error bars for various pileup conditions (blue, orange, green, red, black) and a solid black curve representing the fit. The data shows a peak around dz = 0. The bottom panel's y-axis is 'Ratio' ranging from 0.8 to 1.0. It shows the ratio of the pileup rate to the fit, with a shaded gray region indicating the uncertainty. The ratio is generally close to 1.0, with some fluctuations and a slight dip around dz = 0.