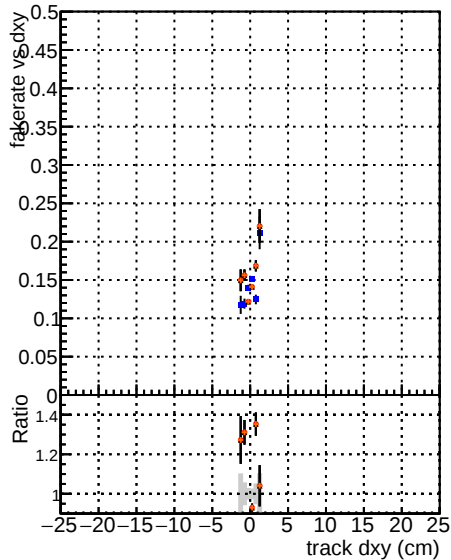
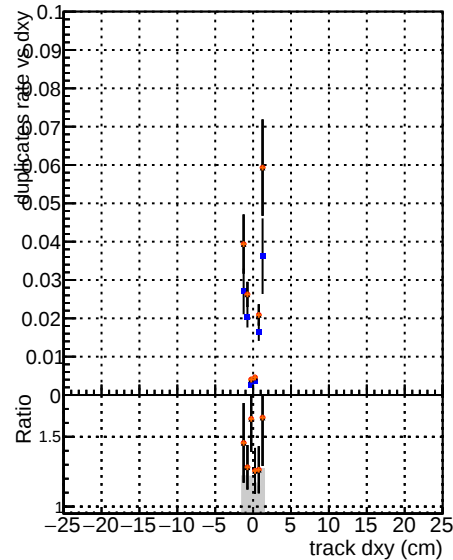


Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy

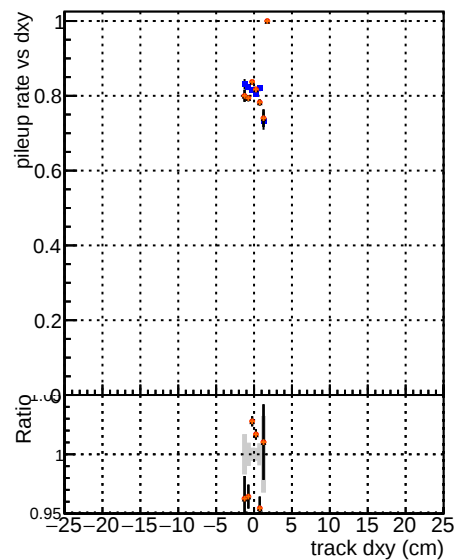
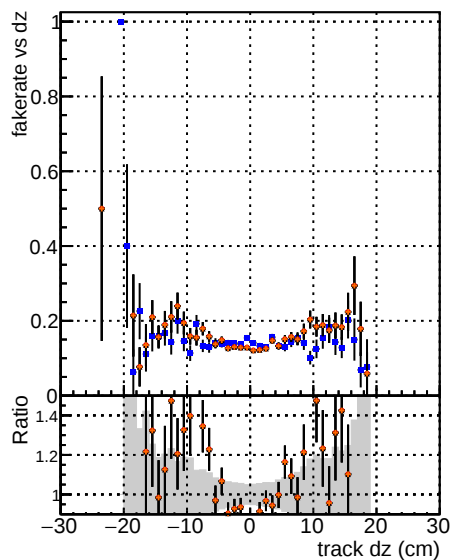


Figure 10: Fake rate vs d . The plot shows the fake rate for different models as a function of d . The models are: DGM, GKE, TThar, DGM-mkFit, TThar-PU-updated, DGM-mkFit-TThar-PU-updated-new, and PLDNN-2. The x-axis represents d from 0 to 10, and the y-axis represents the Fake rate from 0 to 1. The legend indicates that the models are color-coded: DGM (blue), GKE (orange), TThar (green), DGM-mkFit (red), TThar-PU-updated (purple), DGM-mkFit-TThar-PU-updated-new (brown), and PLDNN-2 (pink). The plot shows that the fake rate generally increases with d for most models, with DGM-mkFit-TThar-PU-updated-new showing the highest rates, reaching 1.0 at $d=10$.



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 to 0.2. It displays data points with vertical error bars, showing a peak in the duplicate rate around $dz \approx \pm 10$ cm. The bottom panel's y-axis is labeled 'Ratio' and ranges from 1 to 1.5. It shows a similar distribution with data points and error bars, also peaking around $dz \approx \pm 10$ cm. A shaded gray region in the bottom panel indicates the 1σ uncertainty.

Figure 1 consists of two panels. The top panel shows the pileup rate vs dz (cm) for two different pileup rates (0.8 and 1.0). The bottom panel shows the ratio of the two rates vs track dz (cm).