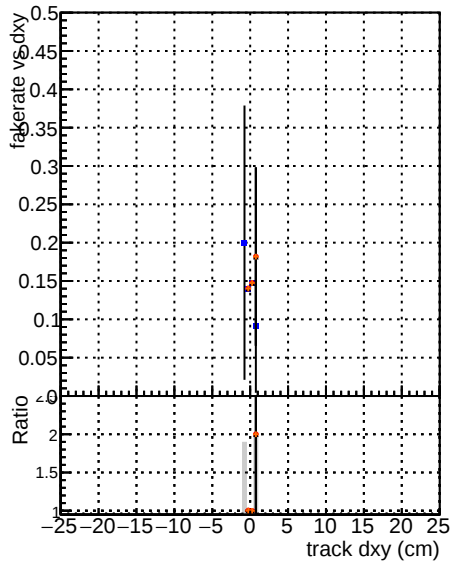
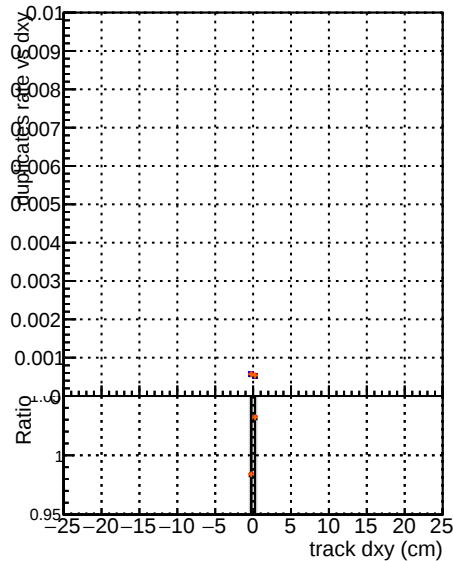


Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy

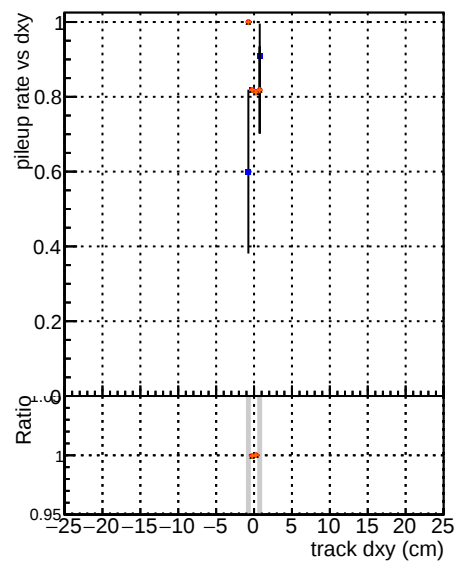


Figure 10: Fake rate vs d . The plot shows the fake rate for different models as a function of d . The models are: DGM, GKE, TThar, DGM-mkFit, TThar-PU-updated, DGM-mkFit-TThar-PU-updated-new, and PLDNN-2. The DGM-mkFit-TThar-PU-updated-new model shows the highest fake rate, increasing from approximately 0.2 at $d=0$ to 1.0 at $d=10$. The other models show much lower fake rates, generally below 0.2.

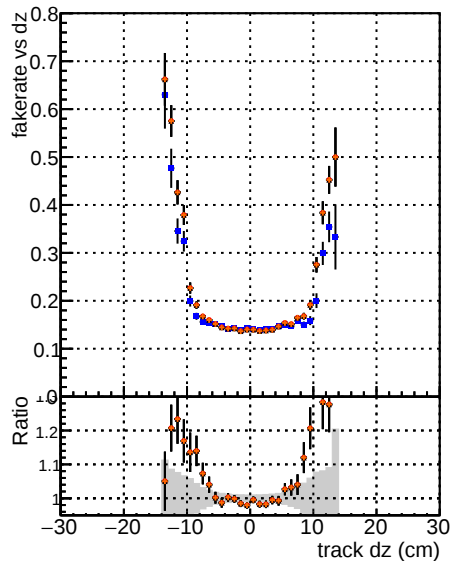


Figure 1 consists of two panels. The top panel shows the pileup rate vs dz (cm) for three different pileup rates (0.4, 0.6, 0.8) and a ratio of 1.0. The bottom panel shows the ratio vs track dz (cm) for the same three pileup rates. The x-axis ranges from -30 to 30 cm. The y-axis for the top panel ranges from 0.2 to 1.0, and for the bottom panel from 0.8 to 1.0. The data points are shown with error bars and a solid line fit.