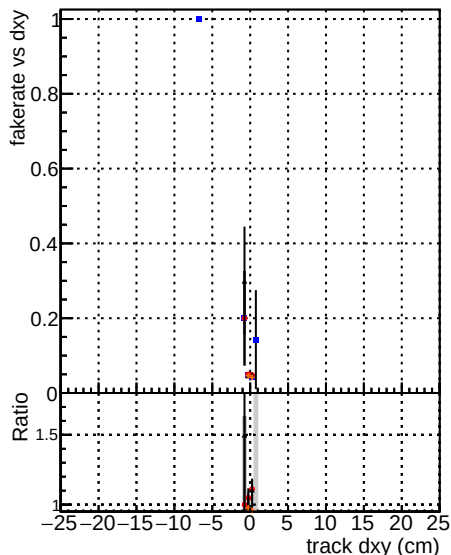
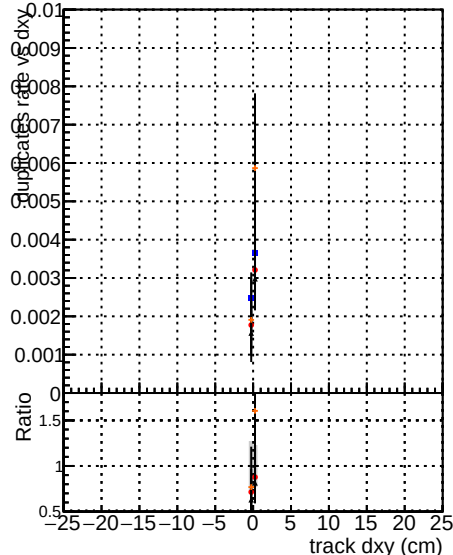


Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy

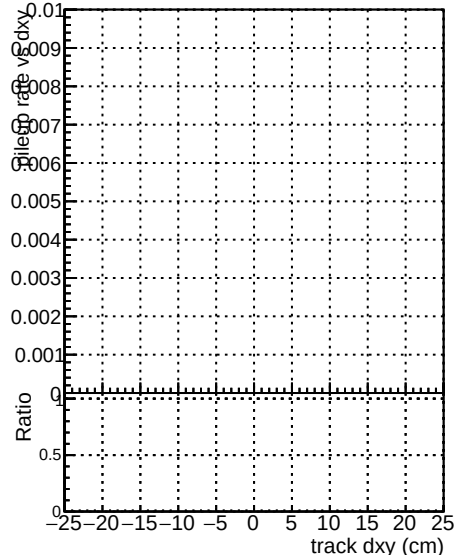


Figure 1: Comparison of the baseline and the proposed method. The figure shows two bar charts side-by-side. The left chart is titled "Fake rate vs d" and the right chart is titled "Global mkFit baseline". Both charts show the fake rate (y-axis, 0 to 1) versus the distance d (x-axis, 0 to 10). The baseline method (blue bars) shows a high fake rate (around 0.8) for d=0 and decreases to around 0.2 for d=10. The proposed method (red bars) shows a low fake rate (around 0.1) for d=0 and increases to around 0.8 for d=10. The proposed method is labeled "core50maxCand-33DUPremoval".

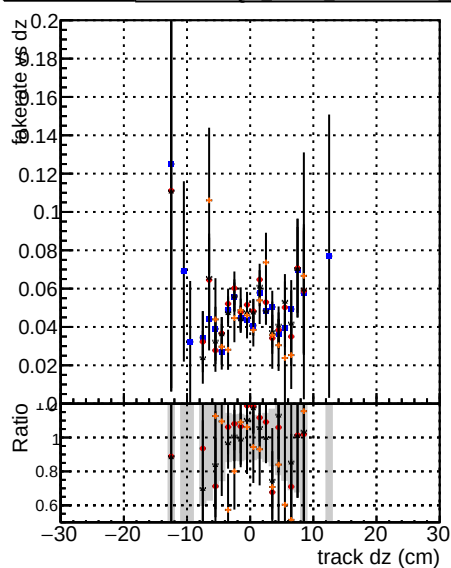


Figure 10 is a plot showing the ratio of the pile-up rate to the track dz rate as a function of track dz (cm). The y-axis is labeled "Ratio" and ranges from 0 to 0.01. The x-axis is labeled "track dz (cm)" and ranges from -30 to 30. The data points are clustered around a ratio of 0.001, with a slight increase as track dz increases.