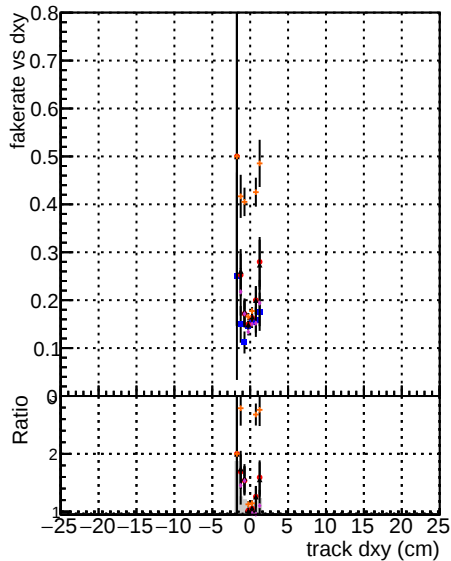
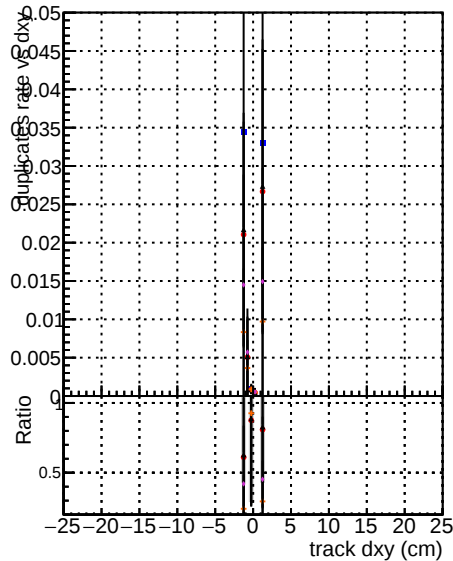


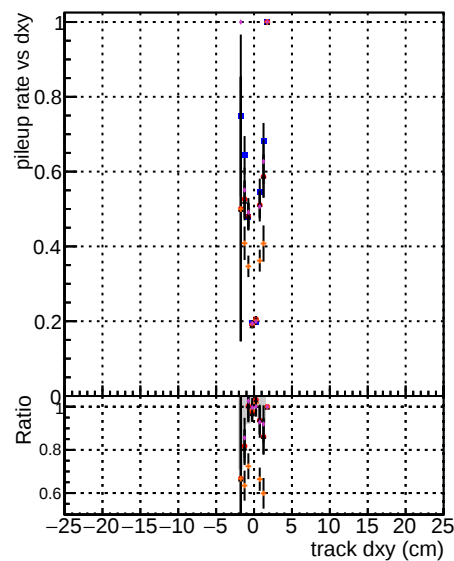
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Fake rate vs d

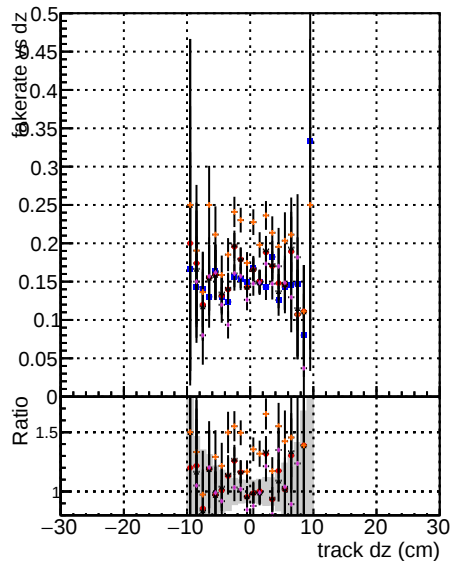


Figure 1 is a plot showing the ratio of pileup rate to track dz as a function of track dz . The y-axis is labeled "Ratio" and ranges from 0.8 to 0.8. The x-axis is labeled "track dz (cm)" and ranges from -30 to 30. The plot shows a central peak around 0 cm, with data points and error bars for various track dz values. A vertical line is drawn at track $dz = -10$ cm.