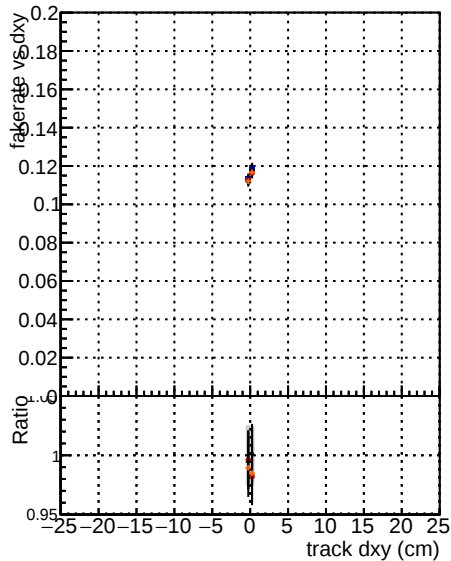


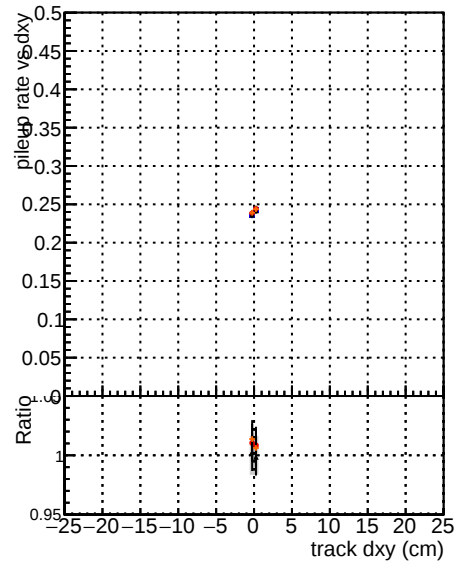
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Fake rate vs d

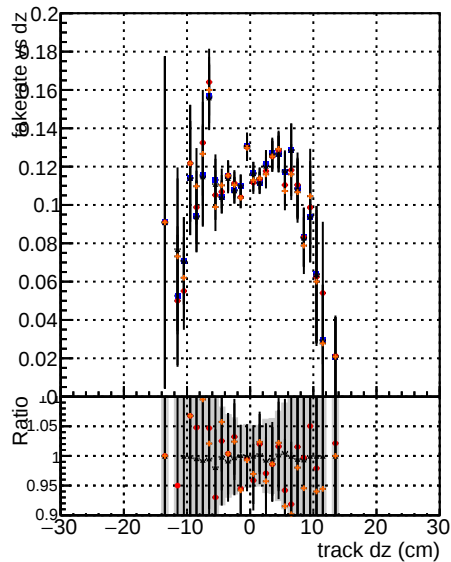


Figure 1 consists of two vertically stacked plots sharing a common x-axis labeled 'track dz (cm)' ranging from -30 to 30. The top plot's y-axis is 'pile-up rate vs dz' ranging from 0 to 0.5. It shows data points with error bars (black and red) and a solid black line representing a fit. The pile-up rate peaks at approximately 0.32 around dz = 0. The bottom plot's y-axis is 'Ratio' ranging from 0.95 to 1.0. It shows the same data points and fit line. The ratio is mostly near 1.0, with some fluctuations between dz = -10 and dz = 10.