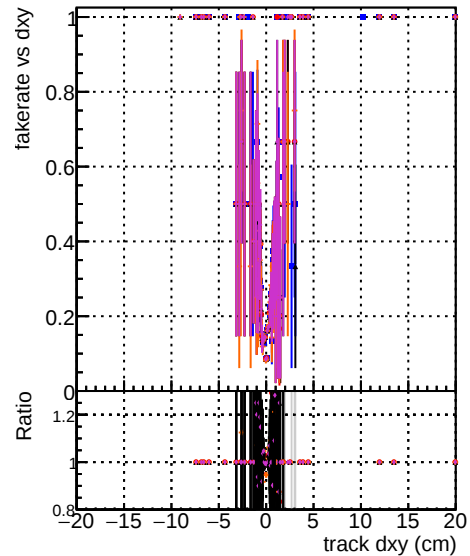
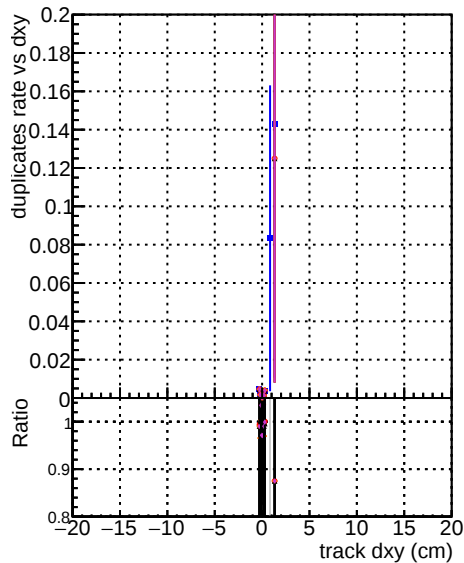


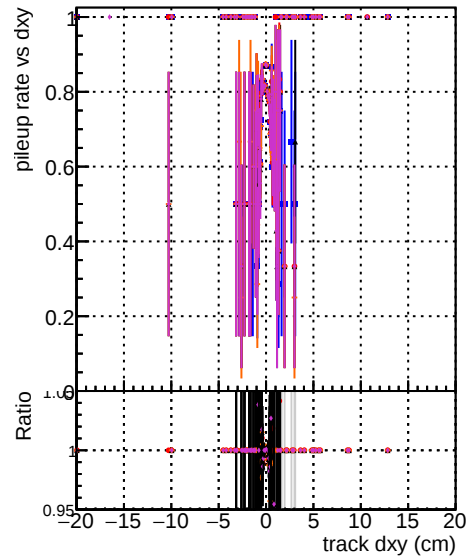
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Fake rate vs d

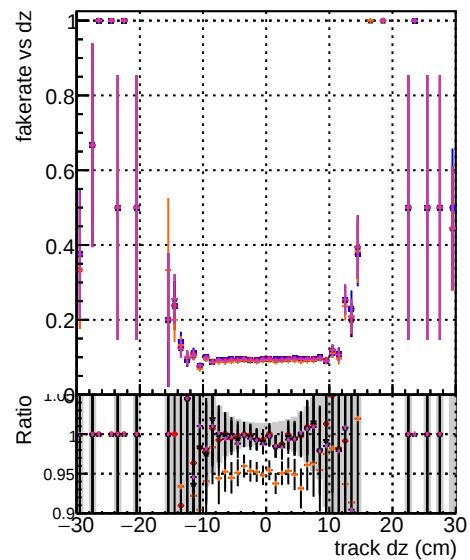


Figure 1 consists of two panels. The top panel is a plot of 'duplicates rate vs dz' (y-axis, 0 to 0.1) versus 'track dz (cm)' (x-axis, -30 to 30). It shows data points with vertical error bars, mostly clustered around a ratio of 0.01, with some peaks at approximately -15 cm, -10 cm, and 15 cm. The bottom panel is a plot of 'Ratio' (y-axis, 0.8 to 1.0) versus 'track dz (cm)' (x-axis, -30 to 30). It shows data points with vertical error bars, mostly clustered around a ratio of 1.0, with some peaks at approximately -15 cm, -10 cm, and 15 cm.

Figure 1 consists of two panels. The top panel shows the pileup rate vs dz (cm) from -30 to 30. The y-axis ranges from 0 to 1.0. Data points are shown for different track types: γ (blue circles), e^+e^- (orange circles), $\mu^+\mu^-$ (green circles), $\tau^+\tau^-$ (red circles), W^+W^- (purple circles), Z^0 (brown circles), and $W^\pm Z^0$ (pink circles). The bottom panel shows the ratio of pileup rates vs dz (cm) from -30 to 30. The y-axis ranges from 0.95 to 1.05. Data points are shown for the same track types as the top panel. Both panels include a grid of dashed lines.