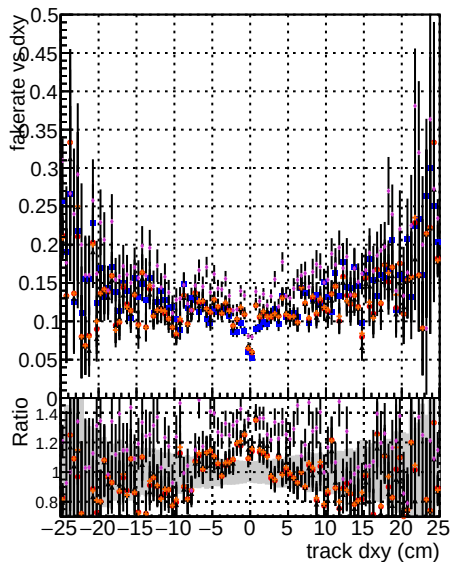
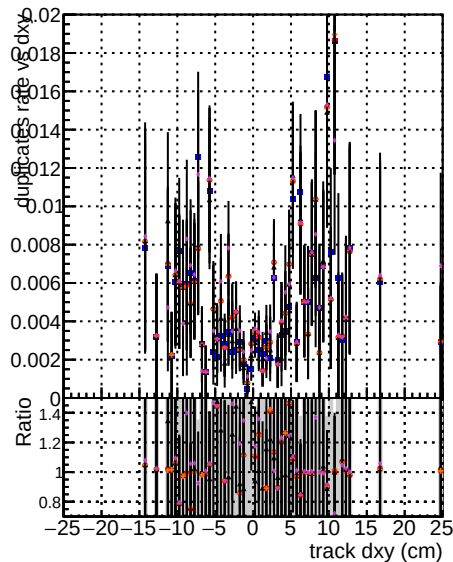


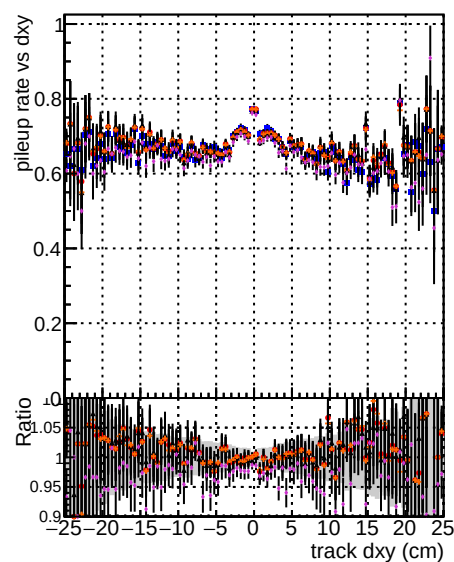
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Fake rate vs d

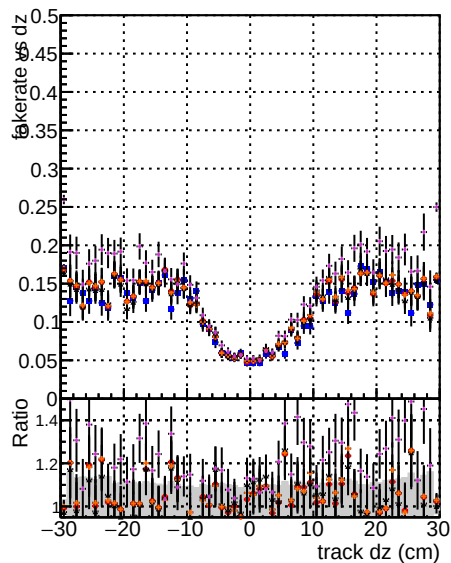


Figure 10 consists of two panels sharing a common x-axis labeled 'track dz (cm)' ranging from -30 to 30. The top panel is labeled 'pileup rate vs dz' on the y-axis, ranging from 0.6 to 1.0. It shows data points with error bars for different track dz ranges: $dz < -10$ cm (blue), $-10 < dz < 0$ cm (red), $0 < dz < 10$ cm (green), and $dz > 10$ cm (purple). The bottom panel is labeled 'Ratio' on the y-axis, ranging from 0.9 to 1.0. It shows data points with error bars for the same track dz ranges, and a shaded gray region representing the uncertainty.