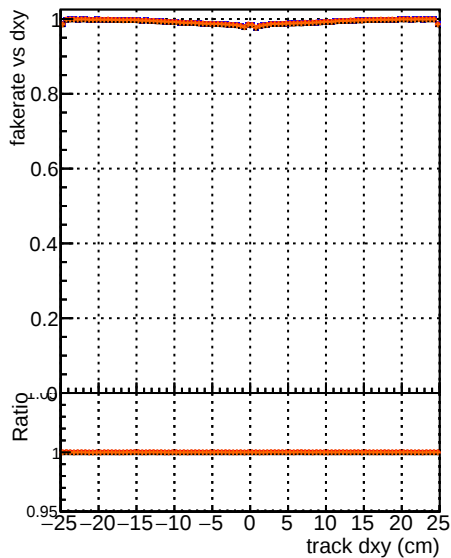
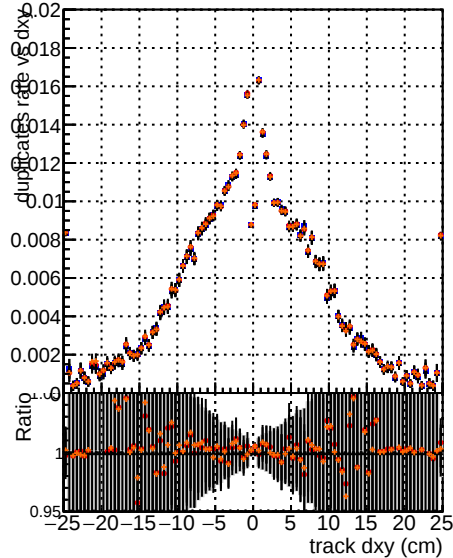


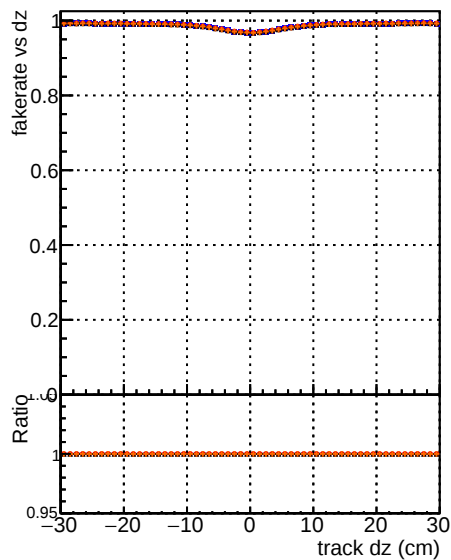
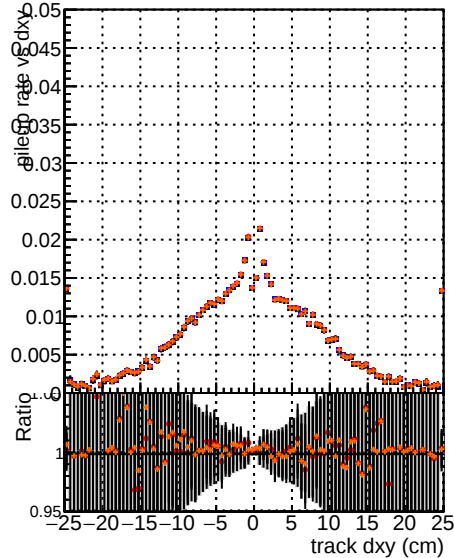
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



The figure consists of two vertically stacked panels sharing a common x-axis labeled 'track dz (cm)' ranging from -30 to 30.

The top panel plots the 'pile-up rate dN/dp/dz' on the y-axis, ranging from 0.005 to 0.05. It shows data points represented by red squares and a solid black line representing a Gaussian fit. The distribution is centered at 0 cm, with a peak rate of approximately 0.03.

The bottom panel plots the 'Ratio' on the y-axis, ranging from 0.95 to 1.0. It shows data points represented by orange circles and a solid black line. The ratio is mostly constant at 1.0, with some fluctuations, particularly at the edges of the x-axis range.