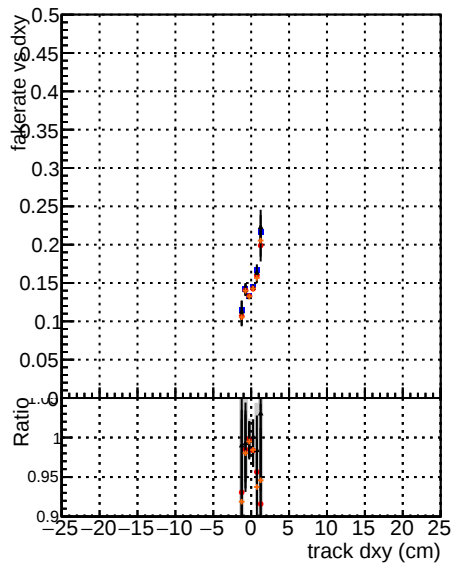
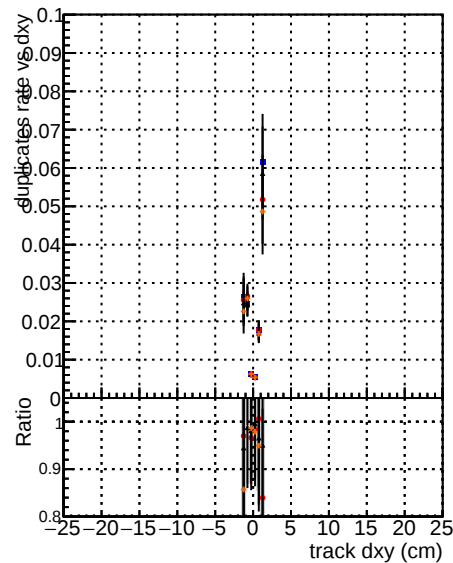


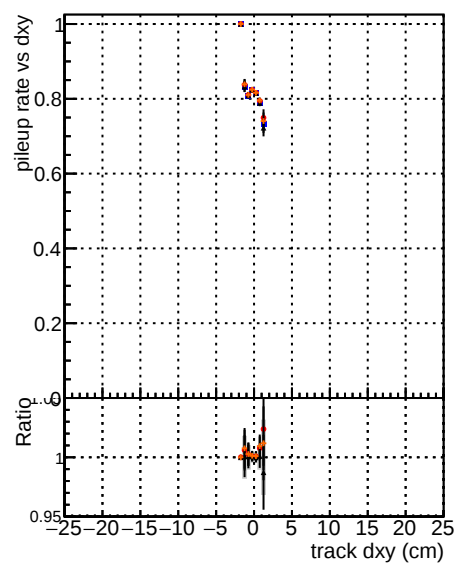
Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy



Fake rate vs d

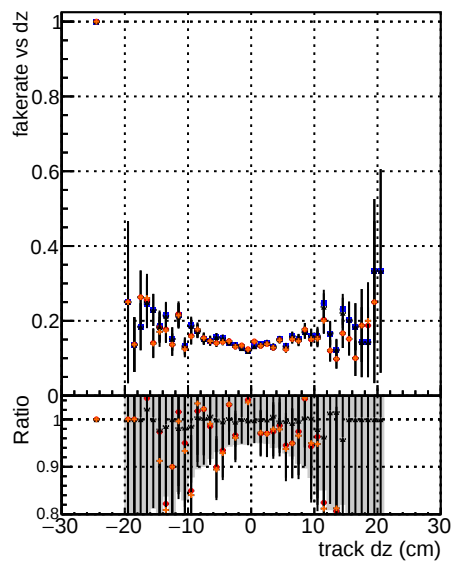


Figure 1 consists of two panels. The top panel shows the pileup rate versus dz (cm) for the 2011 data. The y-axis ranges from 0.4 to 1.0, and the x-axis ranges from -30 to 30 cm. Data points are shown for 2011 (blue circles) and 2012 (orange circles). The pileup rate is generally around 0.8, with a slight dip around $dz = 0$. The bottom panel shows the Ratio versus track dz (cm). The y-axis ranges from 0.95 to 1.0, and the x-axis ranges from -30 to 30 cm. The ratio is generally around 1.0, with some fluctuations. Both panels include vertical dashed lines at $dz = \pm 10$ cm.