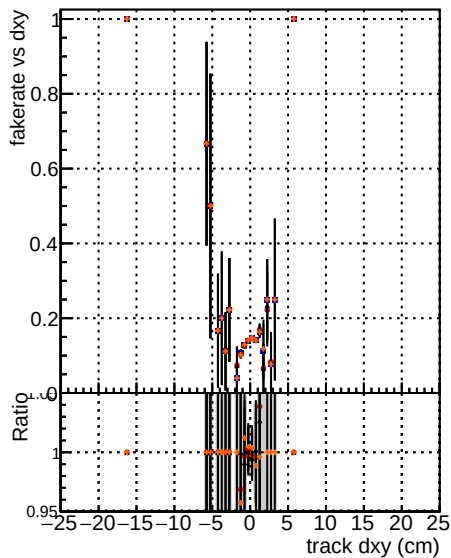
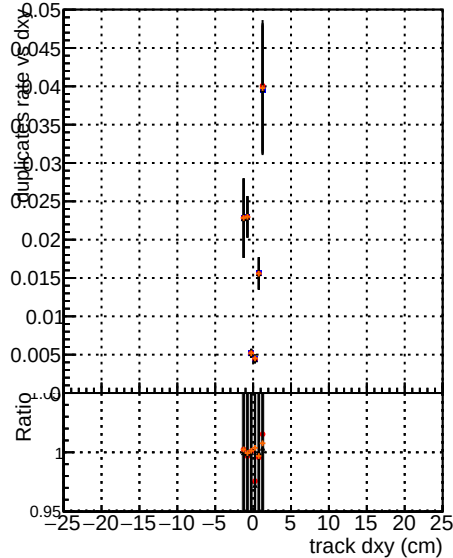


Fake rate vs dxy



Duplicates Rate vs Dxy



Pileup rate vs dxy

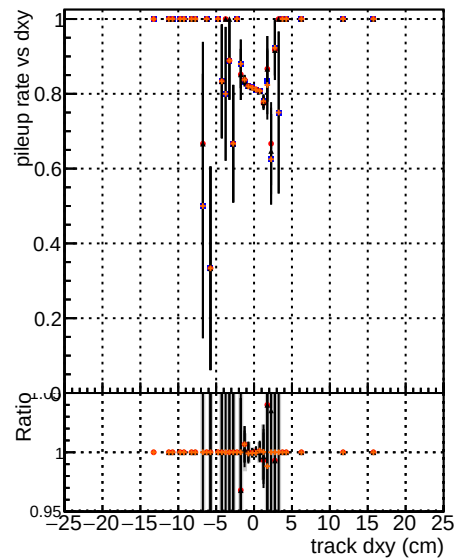


Figure 1: Fake rate vs d. The plot shows the fake rate (y-axis, 0 to 1) versus the distance d (x-axis, 0 to 1). The legend indicates the following series: BGM (blue line with circles), mkrfit (red line with triangles), TTT (green line with squares), original (black line with diamonds), and NEWHS (orange line with crosses). The BGM method consistently shows the highest fake rate, followed by mkrfit, and TTT shows the lowest fake rate. The NEWHS dataset generally shows higher fake rates than the original dataset.

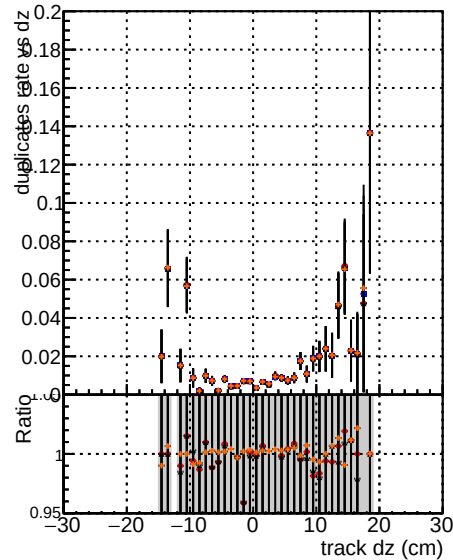
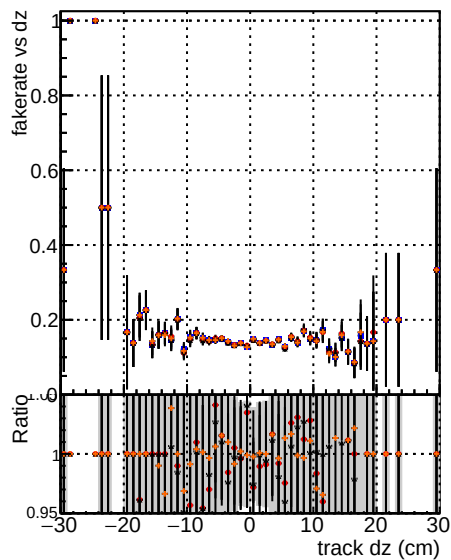


Figure 1 consists of two panels. The top panel shows the pileup rate vs dz (cm). The y-axis ranges from 0.4 to 1.0, and the x-axis ranges from -30 to 30 cm. Data points are shown as orange circles with black error bars. The pileup rate is approximately 1.0 for $dz < -10$ cm and $dz > 20$ cm, and decreases to about 0.8 for dz between -10 and 20 cm. The bottom panel shows the Ratio vs track dz (cm). The y-axis ranges from 0.95 to 1.0, and the x-axis ranges from -30 to 30 cm. Data points are shown as orange circles with black error bars. The Ratio is approximately 1.0 for $dz < -10$ cm and $dz > 20$ cm, and decreases to about 0.95 for dz between -10 and 20 cm.

