

Figure 1 consists of two panels. The top panel is a scatter plot with error bars showing the 'duplicates rate vs. dx' on the y-axis (ranging from 0.005 to 0.05) against 'track dx (cm)' on the x-axis (ranging from -25 to 25). Two data series are plotted: black circles with error bars representing a track dx of 0.5 cm, and orange circles with error bars representing a track dx of 1.0 cm. The duplicate rate is relatively stable around 0.015 for negative track dx values and increases slightly for positive track dx values, reaching approximately 0.025 at 25 cm. The bottom panel shows the 'Ratio' of the duplicate rates on the y-axis (ranging from 0.95 to 1.0) against 'track dx (cm)' on the x-axis (ranging from -25 to 25). The ratio is plotted as black circles with error bars, showing a slight increase from 1.0 at negative track dx values to approximately 1.05 at positive track dx values, with a significant increase to about 1.2 at 25 cm.

Figure 10 consists of two panels. The top panel is a plot of the pileup rate versus  $d_{xy}$  (cm) for the 2011 data. The x-axis ranges from -25 to 25 cm, and the y-axis ranges from 0.015 to 0.05. Data points are shown with error bars, and a solid line represents the fit. The bottom panel shows the ratio of the 2011 data to the 2010 data, with the x-axis ranging from -25 to 25 cm and the y-axis ranging from 0.95 to 1.0. Data points are shown with error bars, and a solid line represents the fit.

Figure 1 consists of two vertically stacked plots sharing a common x-axis labeled 'track dz (cm)' ranging from -30 to 30. The top plot shows the 'pile-up rate vs dz' on the y-axis, ranging from 0.005 to 0.05. It displays data points (red circles) and a fitted curve (black line) that peaks at approximately 0.046 at dz = 0. The bottom plot shows the 'Ratio' on the y-axis, ranging from 0.95 to 1.05. It displays data points (red circles) and a fitted curve (black line) that is nearly constant at 1.0 across the entire range of dz.