

Figure 1 is a plot showing the ratio of the number of tracks with a given d_{xy} to the total number of tracks, versus track d_{xy} (cm). The x-axis ranges from -25 to 25 cm, and the y-axis ranges from 0.95 to 0.1. The ratio is approximately 0.005 for $|d_{xy}| > 5$ cm and increases sharply as $|d_{xy}|$ decreases, peaking at approximately 0.075 for $d_{xy} = 0$ cm. The data points are shown as red squares with error bars.

The figure consists of two vertically stacked plots. The top plot shows the pileup rate versus d_{xy} (cm). The x-axis ranges from -25 to 25 cm, and the y-axis ranges from 0.4 to 1.0. Data points are shown as black squares with vertical error bars. The pileup rate is generally high (near 1.0) for $d_{xy} < 0$ and decreases for $d_{xy} > 0$. The bottom plot shows the Ratio versus track d_{xy} (cm). The x-axis ranges from -25 to 25 cm, and the y-axis ranges from 0.95 to 1.0. Data points are shown as black squares with vertical error bars. The Ratio is generally high (near 1.0) for $d_{xy} < 0$ and decreases for $d_{xy} > 0$.

The figure 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 ratio of the measured to the expected track dz resolution, labeled 'measured to expected track dz ratio', on the y-axis, ranging from 0.5 to 0.45. Data points are shown as black circles with vertical error bars. A solid black line represents a fit to the data. The ratio starts at approximately 0.33 for $dz \approx -12$ cm, drops to about 0.17 at $dz \approx -10$ cm, and then levels off around 0.07 for dz between -5 and 15 cm, with a slight rise to 0.14 at $dz \approx 13$ cm.

The bottom plot shows a histogram of the track dz distribution. The y-axis is labeled 'ratio' and ranges from 0.95 to 1.05. The histogram bars are black. A solid black line represents a fit to the distribution, which is a bell-shaped curve centered at 0 cm, with a peak value of approximately 1.02.

Figure 1 consists of two panels. The top panel shows the duplicate rate vs dz (cm) for the 2012 data. The x-axis ranges from -30 to 30 cm, and the y-axis ranges from 0.4 to 1.0. Data points are shown as black circles with error bars, and a solid black line represents the fit. The duplicate rate is approximately 1.0 for |dz| > 10 cm and decreases to about 0.7 for |dz| < 10 cm. The bottom panel shows the ratio vs dz (cm) for the 2012 data. The x-axis ranges from -30 to 30 cm, and the y-axis ranges from 0.95 to 1.0. Data points are shown as black circles with error bars, and a solid black line represents the fit. The ratio is approximately 1.0 for |dz| > 10 cm and decreases to about 0.95 for |dz| < 10 cm.

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's y-axis is 'pileup rate vs dz' ranging from 0.4 to 1.0. It displays black square data points with vertical error bars. The rate is constant at 1.0 for $dz < -20$ cm, drops sharply to approximately 0.55 at $dz \approx -15$ cm, then rises to a plateau around 0.85 for $dz > -5$ cm. The bottom panel's y-axis is 'Ratio' ranging from 0.95 to 1.05. It displays black circle data points with vertical error bars. The ratio is constant at 1.0 for $dz < -20$ cm, drops sharply to approximately 0.95 at $dz \approx -15$ cm, then rises to a plateau around 1.0 for $dz > -5$ cm.