

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 distribution  $N(dz)$  on a logarithmic y-axis from  $10^2$  to  $10^4$ . It features a red line with square markers representing data points and a black dotted line representing a Gaussian fit. The distribution is centered at 0 cm. The bottom plot shows the 'Ratio' on a linear y-axis from 0.95 to 1.05. It displays a black line with vertical error bars representing the ratio of data to fit, and an orange line with circular markers representing the ratio of the two Gaussian fits. The ratio fluctuates around 1.0 across the entire range of track dz.