

Figure 1 is a log-linear plot showing the ratio of true tracks to track χ^2 for the ATLAS detector. The y-axis is labeled 'Ratio' and ranges from 0.95 to 10^2 on a logarithmic scale. The x-axis is labeled 'track χ^2 ' and ranges from 0 to 20 on a linear scale. The plot displays data points with error bars for true tracks (black dots) and simulated tracks (red dots). A horizontal line is drawn at Ratio = 1. The data points are clustered around the Ratio = 1 line, indicating that the track χ^2 is a good estimator of the true number of tracks. The ratio is generally close to 1, with some fluctuations at lower χ^2 values.

