

Figure 1 is a plot showing the ratio of reconstructed TPs to the number of hits (TP hits) as a function of the number of hits. The y-axis is labeled 'Ratio' and ranges from 0.95 to 10² on a logarithmic scale. The x-axis is labeled 'TP hits' and ranges from 0 to 40. The plot shows data points with error bars, indicating the ratio of reconstructed TPs to the number of hits. The ratio starts around 2.5 for 1 hit, increases to a peak of approximately 80 at 18 hits, and then decreases towards 1.0 as the number of hits increases further. A horizontal line is drawn at Ratio = 1.0, representing the ideal case where the ratio is 1.0.

The figure consists of two vertically stacked plots sharing a common x-axis labeled 'TP layers' ranging from 0 to 25.

The top plot shows 'TrackingParticles' on a logarithmic y-axis from 10^2 to 10^4 . Data points are represented by black circles with vertical error bars. The number of tracking particles starts at approximately 1000 at layer 0, fluctuates between 1000 and 2000 until layer 10, then increases to a peak of about 15,000 at layer 14, before decreasing to around 1000 at layer 18 and then dropping sharply to below 10 by layer 23.

The bottom plot shows 'Ratio' on a logarithmic y-axis from 0.95 to 1.05. The data is represented by a series of vertical grey bars, each with a black error bar. A horizontal red line is drawn at Ratio = 1.0. The ratio values are mostly clustered around 1.0, with some fluctuations, particularly a slight dip around layer 12 and a slight rise around layer 18.

Figure 10 consists of two vertically stacked plots sharing a common x-axis labeled "TP pixel layers" ranging from 0 to 8.

The top plot shows "TrackingParticles" on a logarithmic y-axis, ranging from 10^0 to 10^5 . Data points are plotted for layers 0 through 7, each with a horizontal error bar. The data points are approximately at (0, 800), (1, 800), (2, 1000), (3, 8000), (4, 40000), (5, 5000), (6, 10), and (7, 5).

The bottom plot shows the "Ratio" on a linear y-axis, ranging from 0.95 to 1.05. A horizontal line is drawn at Ratio = 1.0. A shaded gray region represents the uncertainty band, which is wider at lower layer numbers and narrows as the layer number increases.

Figure 10 is a log-linear plot showing the relationship between the number of TP pixel layers and the reconstructed TPs. The x-axis represents the number of TP pixel layers (0 to 8). The top y-axis represents Reconstructed TPs on a logarithmic scale (0.5 to 100). The bottom y-axis represents the Ratio on a linear scale (0.95 to 1.05). The plot shows data points with error bars for Reconstructed TPs and Ratio. The Ratio is constant at 1.0 for all layers. The Reconstructed TPs increase with the number of layers, starting around 1.5 at layer 0 and reaching approximately 30 at layer 5.

Figure 1 consists of two vertically stacked plots sharing a common x-axis labeled 'TP 3D layers' ranging from 0 to 20.

The top plot shows 'TrackingParticles' on a logarithmic y-axis from 10^1 to 10^4 . Data points are represented by black circles with vertical error bars. The number of tracking particles starts at approximately 1000 for 0 layers, peaks at about 3000 for 6 layers, and then generally decreases, with a notable outlier at 13 layers (around 20 particles).

The bottom plot shows the 'Ratio' on a linear y-axis from 0.95 to 1.05. The data is represented by grey vertical bars with black error bars. A horizontal line is drawn at Ratio = 1.0. The ratio starts around 1.02 for 0 layers, decreases to about 0.98 for 10 layers, and then fluctuates around 1.0 for higher layer counts.

Figure 1 is a log-linear plot showing the relationship between the number of TP 3D layers (X-axis, ranging from 0 to 20) and the Reconstructed TPs (Y-axis, logarithmic scale from 0.95 to 10²). The plot displays data points with error bars and a shaded region representing the ratio of Reconstructed TPs to the ground truth. The ratio is consistently near 1.0 across all layers.