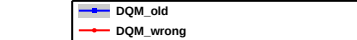


Figure 1 is a plot showing the number of simulated tracks versus hit (TP hits) on the x-axis (0 to 40) and TrackingParticles on the y-axis (log scale, 0.95 to 100). The plot displays data points with error bars, showing a peak around 20 hits. A horizontal line is drawn at Ratio = 1.0, and a shaded region indicates the ratio range from 0.95 to 1.05.



N of associated tracks (simToReco) vs hit

Reconstructed TPs

Ratio

TP hits



Figure 1 consists of two panels. The top panel is a scatter plot showing the number of Tracking Particles (Y-axis, logarithmic scale from 1 to 100) versus the number of TP layers (X-axis, linear scale from 0 to 25). The data points are represented by black dots with vertical error bars. The number of tracking particles generally increases with the number of TP layers, peaking around 15 layers and then decreasing. The bottom panel is a bar chart showing the Ratio (Y-axis, linear scale from 0.95 to 1.05) versus the number of TP layers (X-axis, linear scale from 0 to 25). The ratio is consistently close to 1.0 for all TP layers from 0 to 25.

Figure 10 is a plot showing the ratio of reconstructed TPs to ground truth TPs versus the number of TP layers. The x-axis is labeled 'TP layers' and ranges from 6 to 24. The y-axis is labeled 'Ratio' and ranges from 0.95 to 1.05. A horizontal line is drawn at Ratio = 1.0. Grey bars represent the ratio for each layer, and red crosses with error bars represent the mean and standard deviation. The ratio is generally close to 1.0, with some fluctuations and a slight increase in error bars for higher layer counts.

Figure 1 is a log-linear plot showing the ratio of Tracking Particles (TP) to Total Particles (TP) as a function of the number of TP pixel layers. The y-axis is logarithmic, ranging from 0.95 to 10^3 . The x-axis is linear, ranging from 0 to 8. Data points are shown for 0, 2, 3, 4, and 5 layers, with error bars. A horizontal line is drawn at Ratio = 1.0. The ratio increases with the number of layers, reaching approximately 0.6 at 5 layers.

TP pixel layers	Ratio (approx.)
0	1.1
2	1.1
3	60
4	500
5	0.6

Figure 10 is a log-linear plot showing the relationship between the number of TP pixel layers (X-axis, ranging from 0 to 8) and the Reconstructed TPs (Y-axis, logarithmic scale from 0.5 to 100). The plot displays data points with error bars for different TP pixel layer configurations. A horizontal line is drawn at Ratio = 1.0. The data points are clustered around the Ratio = 1.0 line, indicating that the reconstructed TPs are close to the true TPs.

Figure 1 is a log-linear plot showing the ratio of Tracking Particles to TP 3D layers versus the number of TP 3D layers. The y-axis is logarithmic, ranging from 0.95 to 100. The x-axis is linear, ranging from 0 to 20. Data points with error bars show an increasing trend. A shaded gray region at the bottom indicates the ratio of 1.0.

TP 3D layers	Ratio (approx.)
1	8.0
2	7.0
3	7.0
4	18.0
5	22.0
6	60.0
7	100.0
8	150.0
9	55.0
10	50.0
11	35.0
12	12.0

TP 3D layers	Ratio (approx.)
5	1.00
7	1.05
8	1.15
9	1.05
10	1.00
11	1.05