

Figure 1: A plot showing the ratio of tracking particles to total particles as a function of the number of TP hits. The y-axis is logarithmic, ranging from 0.95 to 10^5 . The x-axis is linear, ranging from 0 to 80. The plot shows a sharp drop in the ratio around 30 TP hits, followed by a plateau. The legend indicates five different simulation configurations: DQM mkFit XMinusPU retrain (blue circles), DQM mkFit XMinusPU NEWdefault_spec (red circles), DQM mkFit XMinusPU NEWdefault_spec (black circles), DQM mkFit XMinusPU NEWdefault_spec (orange circles), and DQM mkFit XMinusPU NEWdefault_spec (purple circles). The 'retrain' configuration shows the highest ratio, while the 'NEWdefault_spec' configurations show the lowest ratio.

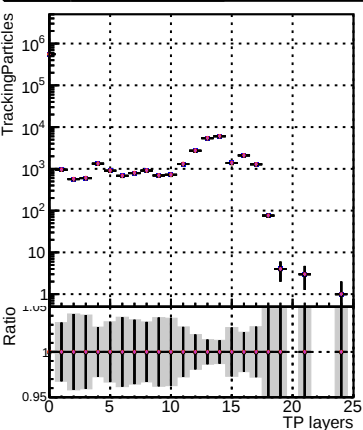


Figure 10 consists of two vertically stacked plots sharing a common x-axis labeled 'TP pixel layers' ranging from 0 to 8.

The top plot shows 'TrackingParticles' on a logarithmic y-axis, ranging from 10^0 to 10^6 . Data points are represented by black circles with horizontal error bars. The data points are approximately at (0, 5×10^5), (1, 10^3), (2, 10^3), (3, 3×10^3), (4, 2×10^4), (5, 3×10^3), (6, 3×10^1), and (7, 1×10^1).

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 around this line, which is wider at lower layer numbers and narrows as the layer number increases.

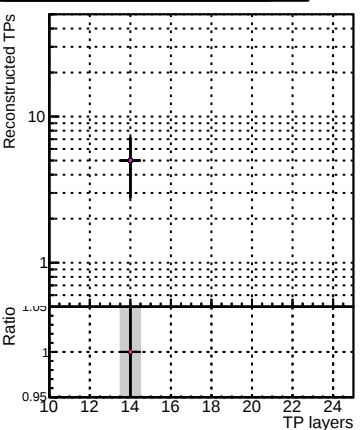
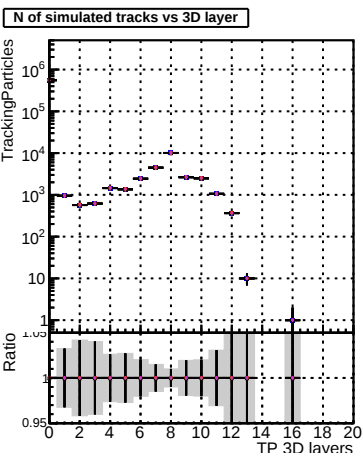


Figure 10 is a log-linear plot showing the ratio of Reconstructed TPs to TP pixel layers. The x-axis is labeled 'TP pixel layers' and ranges from 0 to 8. The y-axis is labeled 'Ratio' and is on a logarithmic scale from 0.95 to 10. A horizontal line is drawn at Ratio = 1.0. Two data points are plotted at x=4: one with a vertical error bar extending from approximately 3.5 to 8.5, and another with a horizontal error bar extending from approximately 3.5 to 4.5. A shaded gray region is located between x=3.5 and x=4.5.

