

Figure 1 is a log-log plot showing the ratio of reconstructed to true transverse momentum (p_T) for 100 GeV photons. The x-axis represents p_T in GeV, ranging from 10^{-1} to 10^3 . The y-axis represents the ratio, ranging from 1 to 10. The plot displays data points with error bars for three different photon reconstruction methods: a central method (black), and two side methods (red and blue). A horizontal line at ratio = 1.4 indicates the nominal resolution. Shaded regions represent the 1-sigma and 2-sigma resolution bands.

Figure 1 consists of two vertically stacked panels sharing a common x-axis labeled 'TP η ' ranging from -3 to 3. The top panel shows 'TrackingParticles' on a logarithmic y-axis from 10^2 to 10^3 . It displays a series of red circles representing data points, which form a smooth, symmetric, bell-shaped curve peaking at approximately 1.5×10^3 around $\eta = 0$. The bottom panel shows 'Ratio' on a linear y-axis from 0.95 to 1.05. It features a solid red horizontal line at $y = 1.0$ and a dense collection of vertical black bars representing individual data points, which are mostly clustered around the $y = 1.0$ line.