

Figure 1 is a log-log plot showing the reconstructed transverse polarization (TPs) as a function of the transverse momentum (p_T) for the decay of the $\rho(770)$ meson into $\pi^+ \pi^-$ pairs. The x-axis represents p_T in GeV, ranging from 10^{-1} to 10^3 . The y-axis represents the Reconstructed TPs, ranging from 10^0 to 10^2 . The plot includes data points with error bars (black dots with vertical error bars) and a solid line representing the fit. A horizontal line at Ratio = 1.0 is shown for comparison. The data points show a peak around $p_T \approx 10$ GeV, reaching a value of approximately 30. The fit curve follows the data points, showing a peak around $p_T \approx 10$ GeV and a dip around $p_T \approx 1$ GeV.

The figure consists of two vertically stacked panels sharing a common x-axis labeled 'TP ϕ ' ranging from -3 to 3. The top panel's y-axis is labeled 'tracking-particles' and shows data points with vertical error bars, fluctuating around a value of 10^2 . The bottom panel's y-axis is labeled 'Ratio' and shows a histogram of the ratio, with a red horizontal line at 1.0. The histogram bars are centered around 1.0, indicating that the number of tracking particles is approximately equal to the total number of particles.