

Figure 1 consists of two vertically stacked plots sharing a common x-axis labeled "TP dx y(PV) (cm)" ranging from -1 to 1. The top plot shows "TrackingParticles" on a logarithmic y-axis from  $10^0$  to  $10^5$ . It displays a distribution of data points (black dots) with a prominent peak at  $x=0$  reaching approximately  $4 \times 10^4$ . A red line with square markers shows a broader distribution peaking at  $x=0$  with a value of about  $3 \times 10^2$ . The bottom plot shows "Ratio" on a logarithmic y-axis from 0.95 to 1.05. It features a histogram of the ratio distribution (black bars) and a red line with circular markers representing the ratio of the two distributions in the top plot. The ratio is mostly between 0.98 and 1.02, with a slight dip around  $x=0$ .