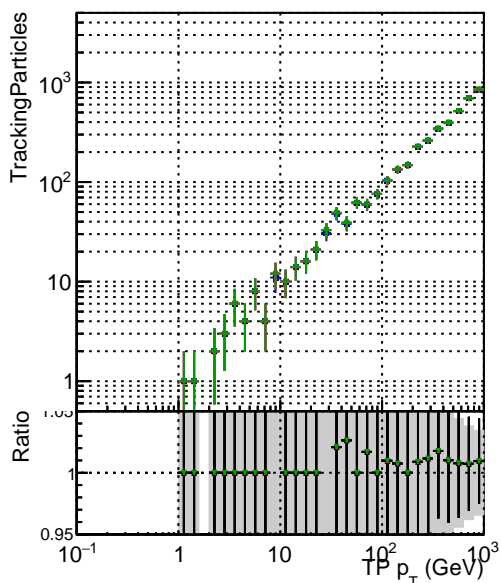


**N of simulated tracks vs pT**



**N of associated tracks (simToReco) vs pT**

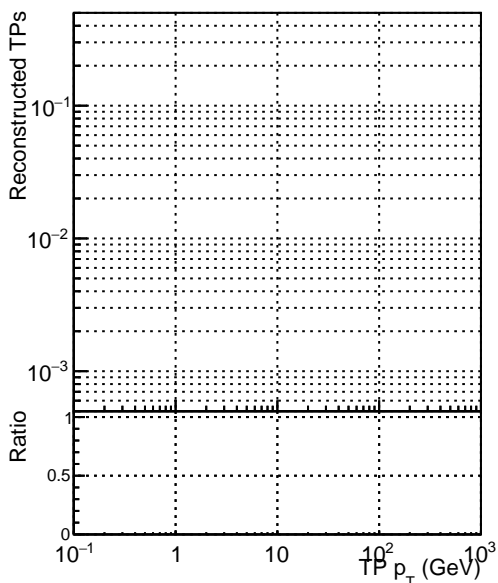
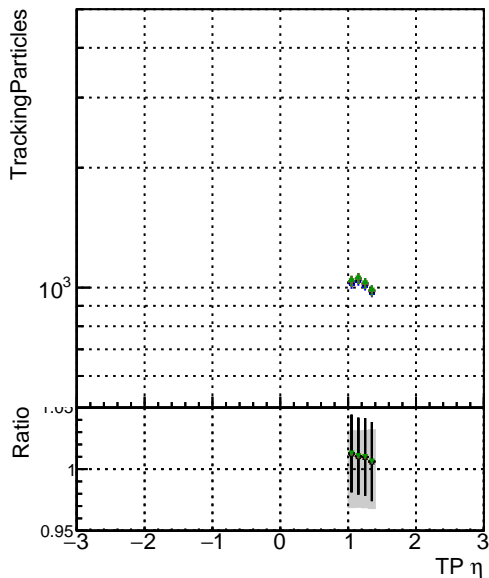
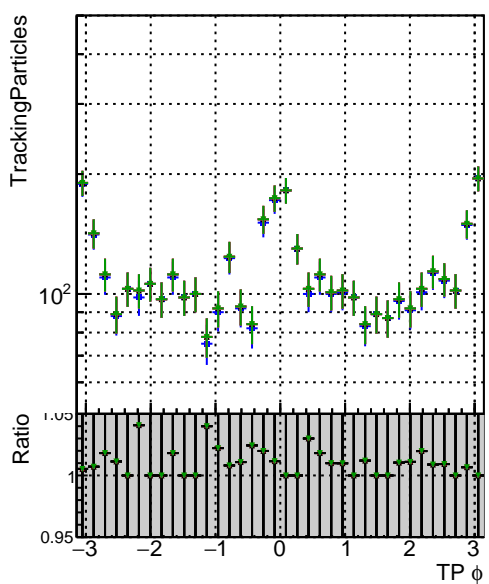


Figure 1 is a horizontal bar chart showing the number of simulations (N of simulations) for various combinations of parameters (step, p1, p2, p3, p4) for different values of  $\alpha$  (0.00, 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50). The x-axis represents the number of simulations, ranging from 0 to 1000. The y-axis lists the parameter combinations. The legend indicates the number of simulations for each  $\alpha$  value: 0.00 (blue), 0.05 (orange), 0.10 (green), 0.15 (red), 0.20 (purple), 0.25 (brown), 0.30 (pink), 0.35 (grey), 0.40 (light blue), 0.45 (light green), and 0.50 (light orange).



### N of simulated tracks vs phi



N of associated tracks (simToReco) vs phi

