

Figure 10 is a 2D histogram showing the distribution of the number of jets ( $N_j$ ) as a function of the transverse momentum of the top quark ( $p_T^{\text{top}}$ ). The x-axis is labeled  $p_T^{\text{top}}$  and ranges from -2 to 2. The y-axis is labeled  $N_j$  and ranges from -2 to 2. The color scale on the right indicates the number of events, ranging from 0 (dark blue) to 900 (yellow). The distribution is centered around  $p_T^{\text{top}} = 0$  and  $N_j = 0$ , with a peak value of 976.66. Other significant values include 942.34, 623.36, 212.80, 189.57, and 18.92.

