

$137 \text{ fb}^{-1}$  (13 TeV)

**CMS**

$\times 10^3$

in progress simulation

400

300

200

100

0

50

45

40

35

30

25

20

15

10

5

2000

4000

A 3D histogram plot showing the distribution of particles in phase space. The vertical axis represents the multiplicity or count, ranging from 0 to 500. The horizontal axes represent the transverse momentum ( $p_T$ ) in GeV (ranging from 0 to 4000) and the pseudorapidity ( $\eta$ ) in units of 10 (ranging from 5 to 50). The plot shows a complex, multi-peaked structure with several distinct peaks along the  $p_T$  axis.