

CMS Simulation Preliminary

14 TeV

Number pileup tracks / PV

$t\bar{t}$ event tracks, PU 200

$p_T > 0.7$ GeV, $|\eta| < 3.0$

● 3D vertex (no timing)

● 4D vertex, 30 ps, 100% eff

● 4D vertex, 40 ps, 100% eff

● 4D vertex, 50 ps, 100% eff

0

0.2

0.4

0.6

0.8

1.0

1.2

1.4

1.6

1.8

Line density (mm^{-1})

0

5

10

15

20

25

30

35

40

45

50