

CMS Phase-2 Simulation

PU 200 (14 TeV)

a.u.

W-1 MB2
 $p_T > 20 \text{ GeV}$

RPC only

$$\sigma = 1.02 \pm 0.01$$

DT AM w/ RPC

$$\sigma = 1.84 \pm 0.02$$

0.16

0.14

0.12

0.10

0.08

0.06

0.04

0.02

0

-10 -8 -6 -4 -2 0 2 4 6 8 10

Time of the TPs associated with prompt muons [ns]

RPC only

$$\sigma = 1.02 \pm 0.01$$

DT AM w/ RPC

$$\sigma = 1.84 \pm 0.02$$

W-1 MB2
 $p_T > 20 \text{ GeV}$