

**CMS**  $5 \text{ fb}^{-1}$  (2016),  $5 \text{ fb}^{-1}$  (2017),  $5 \text{ fb}^{-1}$  (2018) (13 TeV)

L1 efficiency

Tight quality

$p_{\text{T}}^{\text{L1}} > 22 \text{ GeV}$

$p_{\text{T}}^{\text{offline}} > 24 \text{ GeV}$

2016

2017

2018

