

ATLAS+CMS

LHCtopWG

$$|f_{LV} V_{tb}| = \sqrt{\frac{\sigma_{\text{meas.}}}{\sigma_{\text{theo.}}}} \text{ from single-top-quark production}$$

$\sigma_{\text{theo.}}$: NLO (t- and s-channel), NLO+NNLL (tW)

$\delta\sigma_{\text{theo.}}$: scale \oplus PDF \oplus α_s \oplus m_t \oplus E_{beam}

$m_t = 172.5$ GeV



$|f_{LV} V_{tb}| \pm (\text{meas.}) \pm (\text{theo.})$

ATLAS+CMS LHCtopWG

t-channel, $\sqrt{s} = 7, 8$ TeV



$1.02 \pm 0.04 \pm 0.02$

ATLAS+CMS LHCtopWG

tW, $\sqrt{s} = 7, 8$ TeV



$1.02 \pm 0.09 \pm 0.04$

ATLAS+CMS LHCtopWG

s-channel, $\sqrt{s} = 8$ TeV



$0.97 \pm 0.15 \pm 0.02$

ATLAS+CMS LHCtopWG

t-channel, tW, s-channel, $\sqrt{s} = 7, 8$ TeV



$1.02 \pm 0.04 \pm 0.02$

0.6

0.8

$|f_{LV} V_{tb}|$

1.2

1.4