

**ATLAS** Preliminary

October 2014

single top-quark production

t-channel

Wt

s-channel

— NLO+NNLL at  $m_t = 172.5$  GeV  
— MSTW2008 NNLO PDF  
I stat. uncertainty

• t-channel  $4.59 \text{ fb}^{-1}$  arXiv:1406.7844

• t-channel  $20.3 \text{ fb}^{-1}$  ATLAS-CONF-2014-007

■ Wt  $2.05 \text{ fb}^{-1}$  PLB 716 (2012) 142

■ Wt  $20.3 \text{ fb}^{-1}$  ATLAS-CONF-2013-100

▼ s-channel 95% C.L. limit  $0.7 \text{ fb}^{-1}$  ATLAS-CONF-2011-118

△ s-channel 95% C.L. limit  $20.3 \text{ fb}^{-1}$  arXiv:1410.0647

single top-quark cross-section  $\sigma$  [pb]

$\sqrt{s}$  [TeV]