

# Single Top Quark Cross Section

August 2009

**CDF** Lepton+jets  $3.2 \text{ fb}^{-1}$



$2.17^{+0.56}_{-0.55} \text{ pb}$

**CDF** MET+jets  $2.1 \text{ fb}^{-1}$



$5.0^{+2.6}_{-2.3} \text{ pb}$

**DØ** Lepton+jets  $2.3 \text{ fb}^{-1}$



$3.94^{+0.88}_{-0.88} \text{ pb}$

**Tevatron Combination**

*Preliminary*



$2.76^{+0.58}_{-0.47} \text{ pb}$

 B.W. Harris et al., PRD 66, 054024 (2002)

 N. Kidonakis, PRD 74, 114012 (2006)

$m_{top} = 170 \text{ GeV}$

$\sigma (p\bar{p} \rightarrow tb+X, tqb+X) \text{ [pb]}$