

[p_T(t \bar{t}), M(t \bar{t}), y(t \bar{t})]

● $\alpha_s(m_Z)$ with total unc.

— data unc.

— PDF unc.

— μ unc.

— $m_t^{\text{pole}} \pm 1$ GeV unc.

ABMP16

HERAPDF20

CT14

World average [PDG2018]

0.09

0.1

0.11

0.12

0.13

$\alpha_s(m_Z)$