

$\alpha_s(M_Z)$ results from LHC

Inclusive jets, NLO

7 TeV, p_T , $\alpha_s(M_Z)$

7 TeV, p_T , $\alpha_s(M_Z)$ +PDF

8 TeV, p_T , $\alpha_s(M_Z)$

8 TeV, p_T , $\alpha_s(M_Z)$ +PDF

Dijets, NLO

8 TeV, $\langle p_{1,2} \rangle$, $\alpha_s(M_Z)$ +PDF

3-jets, NLO

7 TeV, M_3 , $\alpha_s(M_Z)$

7 TeV, $R_{3/2}$, $\alpha_s(M_Z)$

8 TeV, $R_{3/2}$, $\alpha_s(M_Z)$, prel.

top-antitop

7 TeV, σ_{tot} , $\alpha_s(M_Z)$, NNLO+NNLL

13 TeV, σ_{tot} , $\alpha_s(M_Z)$, NNLO

13 TeV, σ_{diff} , $\alpha_s(M_Z)$, NLO, prel.

13 TeV, σ_{diff} , $\alpha_s(M_Z)$ +PDF, NLO, prel.

(Inner uncertainty: All except scale)

World average [PDG 2016]

0.11 0.12 0.13
 $\alpha_s(M_Z)$

