

Analysis	\sqrt{s} (TeV)	$\alpha_S(m_Z)$	fit unc.	PDF unc.	scale unc.	other unc.	PDF	pQCD order
R_{32} [190]	7	0.1148	± 0.0014	± 0.0018	± 0.0050	theo incl. scale	NNPDF2.1	NLO
2D inclusive jet [149] [147]	7	0.1185	± 0.0019	± 0.0028	$+0.0053$ -0.0024	± 0.0004 NP	—	NLO
Inclusive 3-jet mass [195]	7	0.1171	± 0.0013	± 0.0024	$+0.0069$ -0.0040	± 0.0008 NP	CT10	NLO
$t\bar{t}$ cross section [196]	7	0.1151	$+0.0017$ -0.0018	$+0.0013$ -0.0011	$+0.0009$ -0.0008	$\underbrace{\pm 0.0013}_{m_t} \underbrace{\pm 0.0008}_{\sqrt{s}}$	NNPDF2.3	NNLO
2D inclusive jet [144]	8	0.1185	$+0.0019$ -0.0021	$+0.0002$ +0.0000 -0.0015 -0.0004 model param	$+0.0022$ -0.0018	—	—	NLO
3D dijet mass [186]	8	0.1199	± 0.0015	± 0.0002 +0.0002 -0.0004 -0.0004 model param	$+0.0026$ -0.0016	—	—	NLO
W, Z cross section [197]	7, 8	0.1163	$\underbrace{\pm 0.0007}_{\text{stat}} \underbrace{\pm 0.0010}_{\text{syst}}$	$+0.0016$ -0.0022	± 0.0009	$\underbrace{\pm 0.0013}_{\text{lumi}} \underbrace{\pm 0.0006}_{\text{num}}$	CT14	NNLO
$t\bar{t}$ (dilepton) [198]	13	0.1151	± 0.0035 fit + PDF		$+0.0020$ -0.0002	—	MMHT14	NNLO
Normalized $t\bar{t}$ [187]	13	0.1135	± 0.0016	$+0.0002$ +0.0008 -0.0004 -0.0001 model param	$+0.0011$ -0.0005	—	—	NLO
2D inclusive jet [151]	13	0.1166	± 0.0014	± 0.0007 ± 0.0001 model param	± 0.0004	—	—	NNLO
2D & 3D dijet mass [188]	13	0.1181	± 0.0013	± 0.0006 ± 0.0002 model param	± 0.0009	—	—	NNLO
$R_{\Delta\phi}$ [199]	13	0.1177	± 0.0013	± 0.0010 ± 0.0020 NNPDF3.1 choice	$+0.0114$ -0.0068	$\underbrace{\pm 0.0011}_{\text{NP}} \underbrace{\pm 0.0003}_{\text{EW}}$	NNPDF3.1	NLO
Energy correlators in jets [191]	13	0.1229	$+0.0014$ +0.0023 -0.0012 -0.0036 stat syst	—	$+0.0030$ -0.0033	—	—	aNNLL