CMS

Summary of $\alpha_s(m_Z)$

■ ■ NLO   ▼ NNLL   ▲ ▲ ▲ NNLO

Reference	$\sqrt{s}$ (TeV)	Observable		
JHEP 06:018 (2020)	7, 8	W/Z cross sec.		Vector boson
PLB 728:496 (2014)	7	$t\bar{t}$ cross sec.		$t\bar{t}$
EPJC 79:368 (2019)	13	$t\bar{t}$ cross sec.		
EPJC 80:658 (2020)	13	$t\bar{t}$ cross sec.		
EPJC 73:2604 (2013)	7	R_{32}		
EPJC 75:288 (2015)	7	Inclusive jet		
EPJC 75:186 (2015)	7	3-jet mass		
JHEP 03:156 (2017)	8	Inclusive jet		
EPJC 77:746 (2017)	8	Dijets (3D)		Jets
JHEP 02:142 (2022)	13	Inclusive jet		
Submitted to EPJC (2024)	13	Dijets (2D/3D)		
PRL 133:071903 (2024)	13	Energy correlators		
EPJC 84:842 (2024)	13	$R_{\Delta\phi}$		
Prog. Theor. Exp. Phys. 083C01 (2023 update) : World average				

$\alpha_s(m_Z)$