Summary of $\alpha_s(m_Z)$

CMS

Legend: ■ ■ 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.	
EPJC 79:368 (2019)	13	$t\bar{t}$ cross sec.	$t\bar{t}$
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)	
JHEP 02:142 (2022)	13	Inclusive jet	Jets
Submitted to EPJC (2024)	13	Dijets (2D/3D)	
Accepted by PRL (2024)	13	Energy correlators	
Accepted by EPJC (2024)	13	$R_{\Delta\phi}$	
Prog. Theor. Exp. Phys. 083C01 (2023 update) : World average			

$\alpha_s(m_Z)$