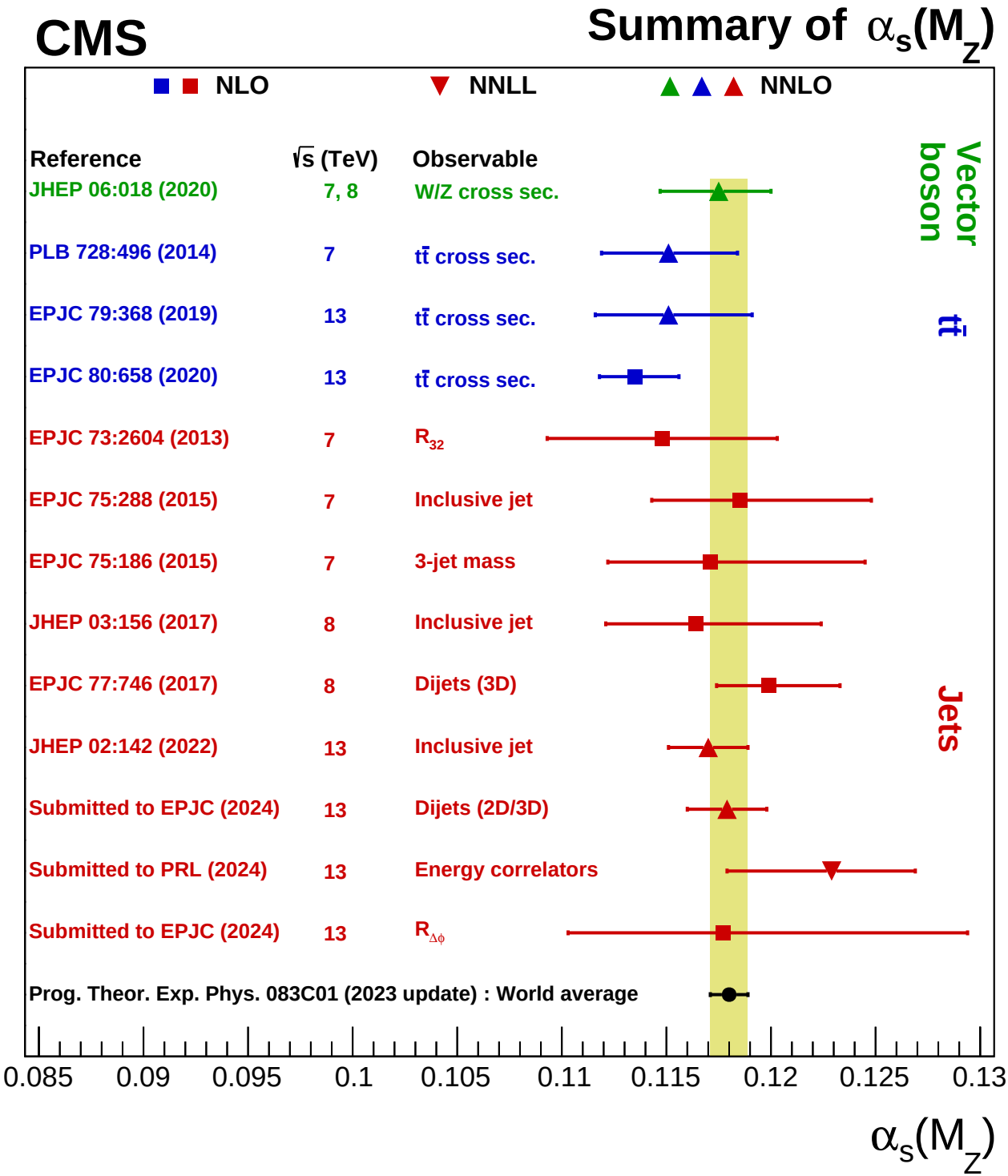
CMS
Summary of $\alpha_s(M_Z)$
NLO
NNLL
NNLO
Reference
$\sqrt{s}$ (TeV)
Observable
JHEP 06:018 (2020) 7, 8 W/Z cross sec.
PLB 728:496 (2014) 7 $t\bar{t}$ cross sec.
EPJC 79:368 (2019) 13 $t\bar{t}$ cross sec.
EPJC 80:658 (2020) 13 $t\bar{t}$ cross sec.
EPJC 73:2604 (2013) 7 R_{32}
EPJC 75:288 (2015) 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)
JHEP 02:142 (2022) 13 Inclusive jet
Submitted to EPJC (2024) 13 Dijets (2D/3D)
Submitted to PRL (2024) 13 Energy correlators
Submitted to EPJC (2024) 13 $R_{\Delta\phi}$
Prog. Theor. Exp. Phys. 083C01 (2023 update) : World average
Vector boson
$t\bar{t}$
Jets
0.085
0.09
0.095
0.1
0.105
0.11
0.115
0.12
0.125
0.13
$\alpha_s(M_Z)$