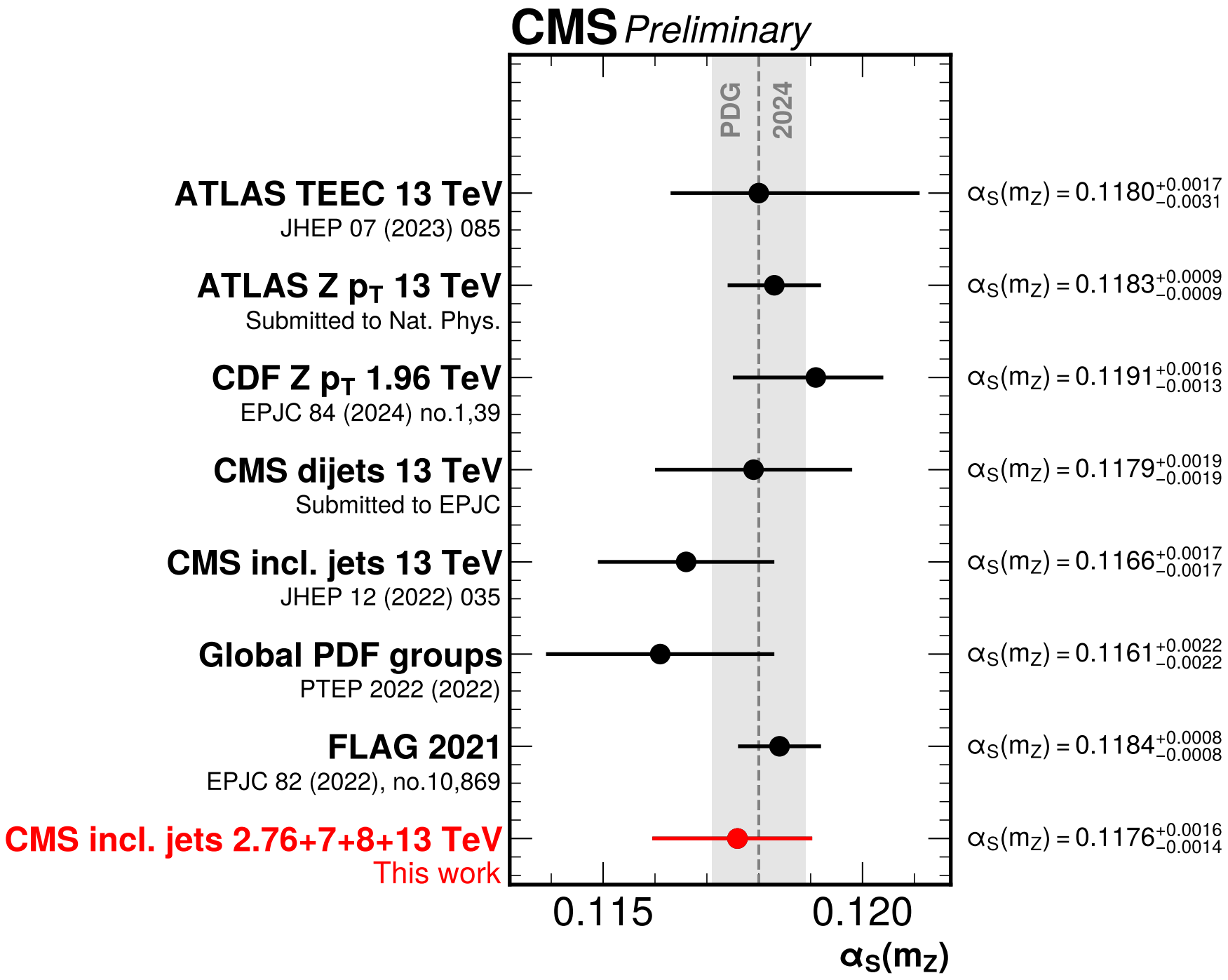
CMS Preliminary
PDG
2024
ATLAS TEEC 13 TeV
JHEP 07 (2023) 085
$\alpha_S(m_Z) = 0.1180^{+0.0017}_{-0.0031}$
ATLAS Z p_T 13 TeV
Submitted to Nat. Phys.
$\alpha_S(m_Z) = 0.1183^{+0.0009}_{-0.0009}$
CDF Z p_T 1.96 TeV
EPJC 84 (2024) no.1,39
$\alpha_S(m_Z) = 0.1191^{+0.0016}_{-0.0013}$
CMS dijets 13 TeV
Submitted to EPJC
$\alpha_S(m_Z) = 0.1179^{+0.0019}_{-0.0019}$
CMS incl. jets 13 TeV
JHEP 12 (2022) 035
$\alpha_S(m_Z) = 0.1166^{+0.0017}_{-0.0017}$
Global PDF groups
PTEP 2022 (2022)
$\alpha_S(m_Z) = 0.1161^{+0.0022}_{-0.0022}$
FLAG 2021
EPJC 82 (2022), no.10,869
$\alpha_S(m_Z) = 0.1184^{+0.0008}_{-0.0008}$
CMS incl. jets 2.76+7+8+13 TeV
This work
$\alpha_S(m_Z) = 0.1176^{+0.0016}_{-0.0014}$
0.115
0.120
$\alpha_S(m_Z)$