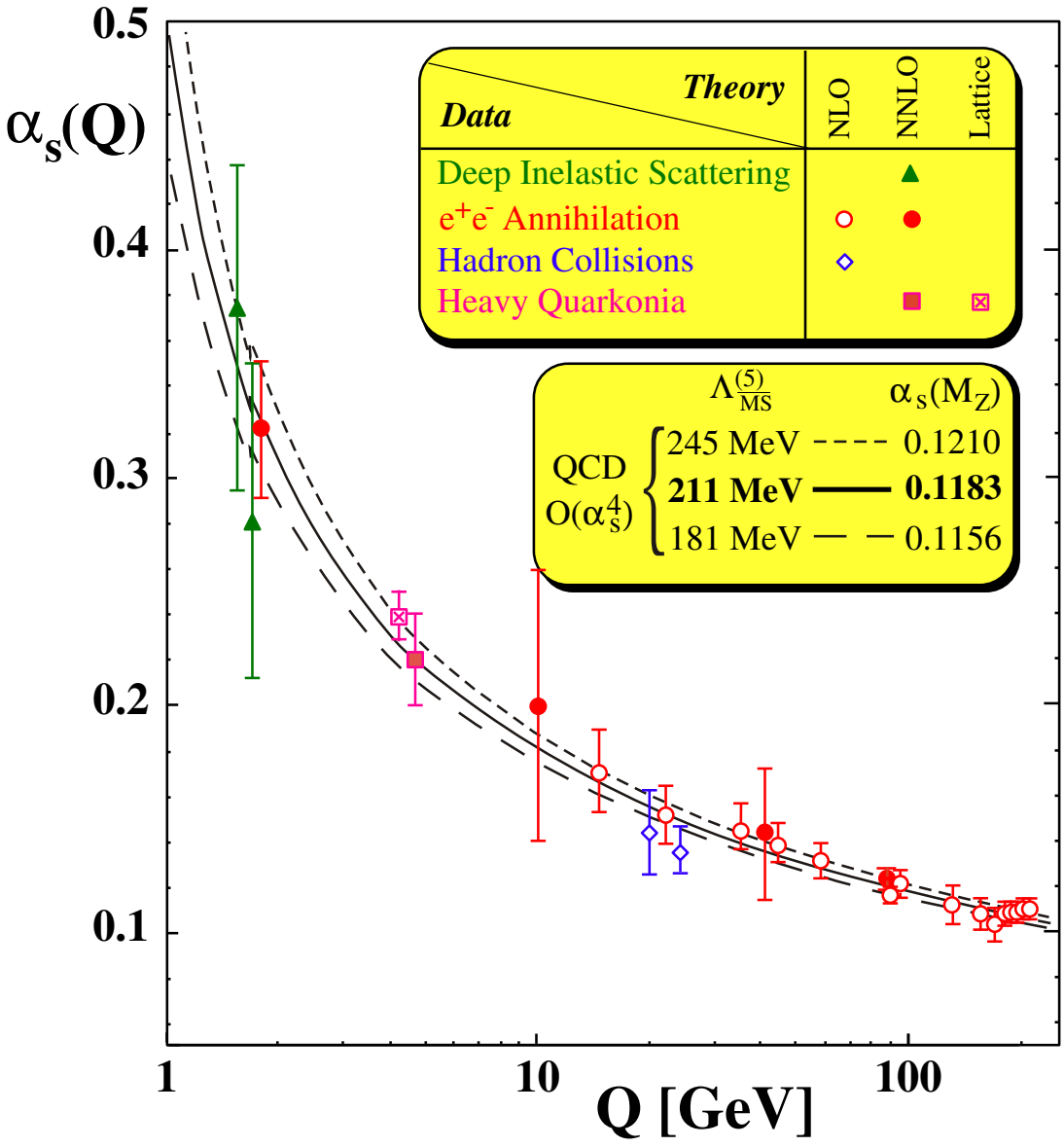
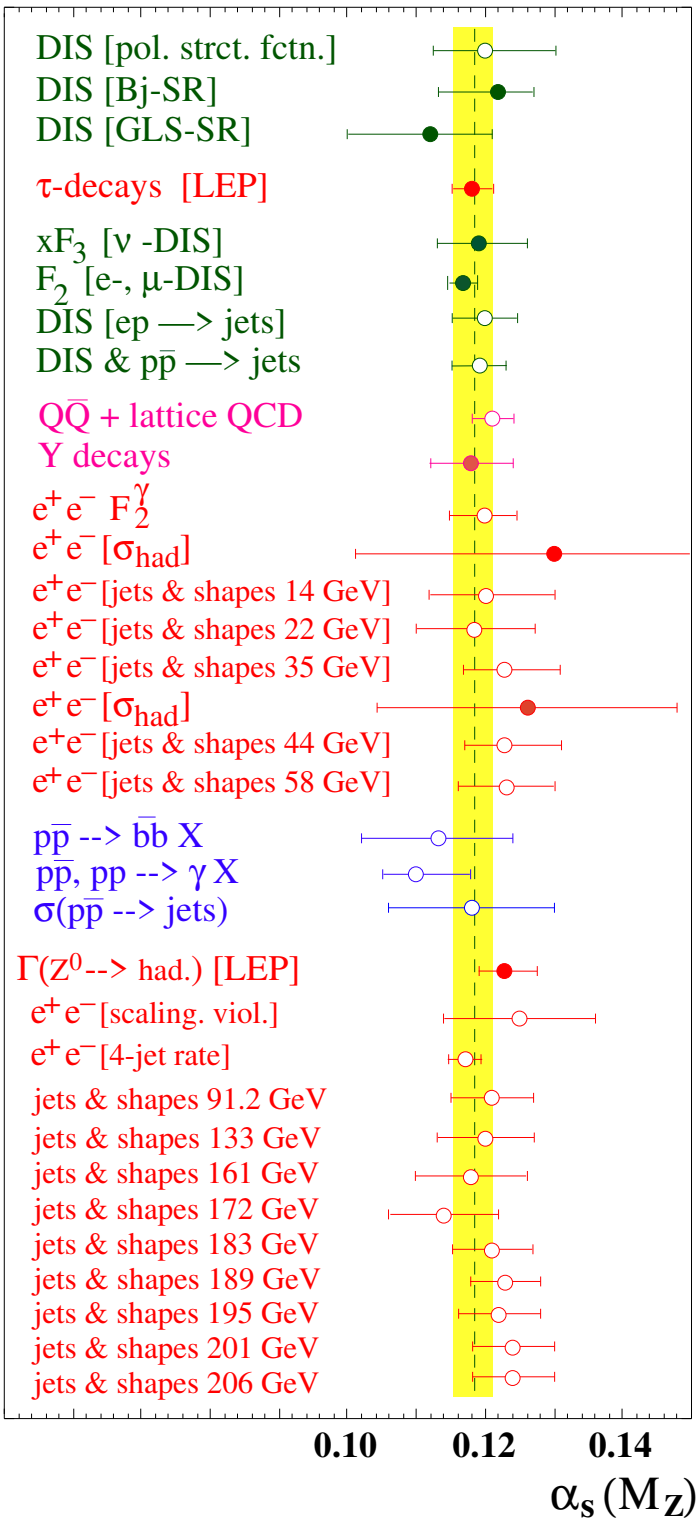

0.5
0.4
0.3
0.2
0.1
$\alpha_s(Q)$
1
10
100
Q [GeV]
Theory
Data
NLO
NNLO
Lattice
Deep Inelastic Scattering
e^+e^- Annihilation
Hadron Collisions
Heavy Quarkonia
$\Lambda^{(5)}_{\overline{MS}}$
$\alpha_s(M_Z)$
QCD
$O(\alpha_s^4)$
245 MeV ---- 0.1210
211 MeV —— 0.1183
181 MeV — — 0.1156


DIS [pol. strct. fctn.]
DIS [Bj-SR]
DIS [GLS-SR]
τ-decays [LEP]
xF3 [ν -DIS]
F2 [e-, μ-DIS]
DIS [ep —> jets]
DIS & pp̄ —> jets
QQ̄ + lattice QCD
Υ decays
e+e− F2γ
e+e− [σhad]
e+e− [jets & shapes 14 GeV]
e+e− [jets & shapes 22 GeV]
e+e− [jets & shapes 35 GeV]
e+e− [σhad]
e+e− [jets & shapes 44 GeV]
e+e− [jets & shapes 58 GeV]
pp̄ --> bb̄ X
pp̄, pp --> γ X
σ(pp̄ --> jets)
Γ(Z0--> had.) [LEP]
e+e− [scaling. viol.]
e+e− [4-jet rate]
jets & shapes 91.2 GeV
jets & shapes 133 GeV
jets & shapes 161 GeV
jets & shapes 172 GeV
jets & shapes 183 GeV
jets & shapes 189 GeV
jets & shapes 195 GeV
jets & shapes 201 GeV
jets & shapes 206 GeV
0.10
0.12
0.14
αs (MZ)