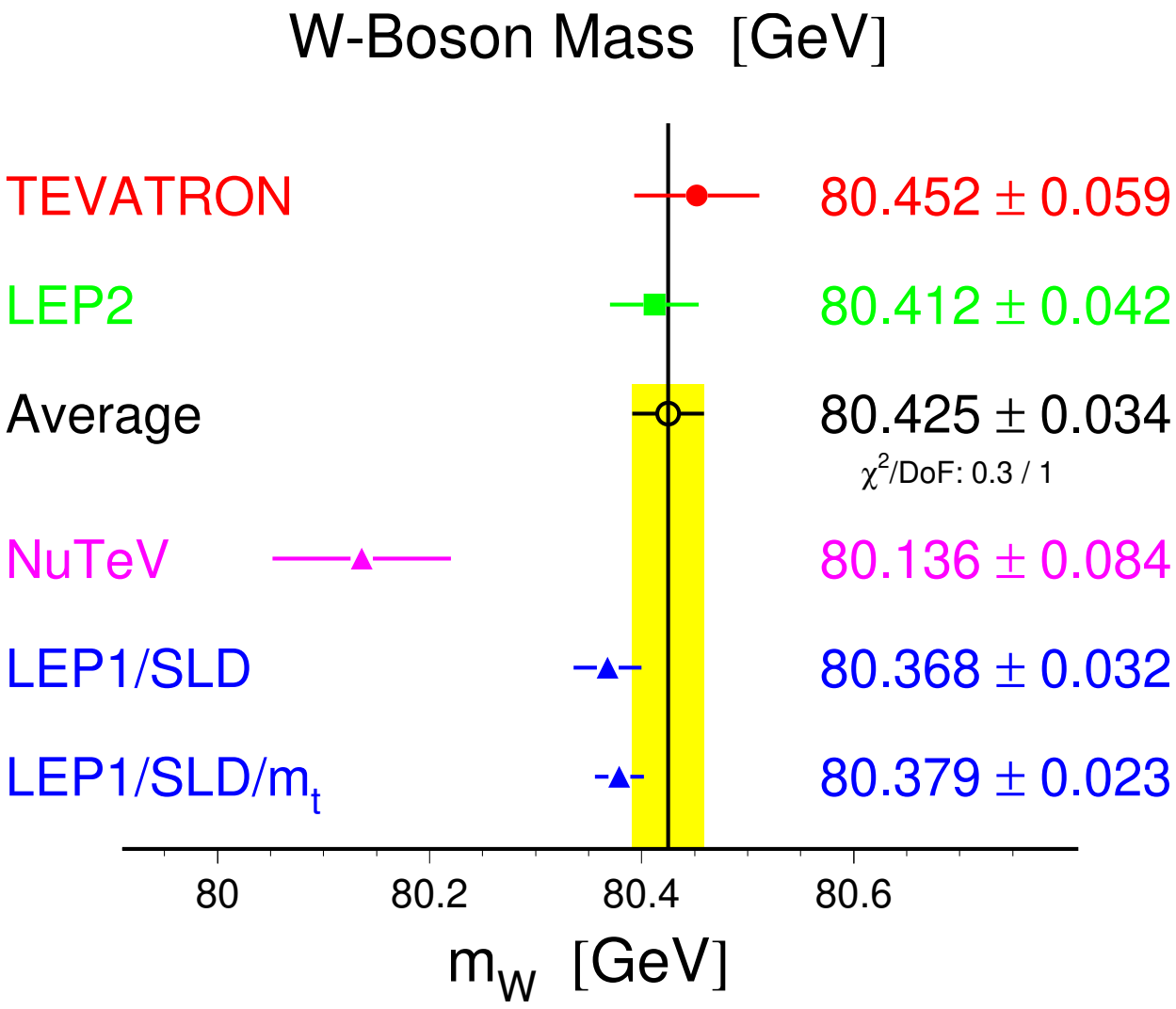
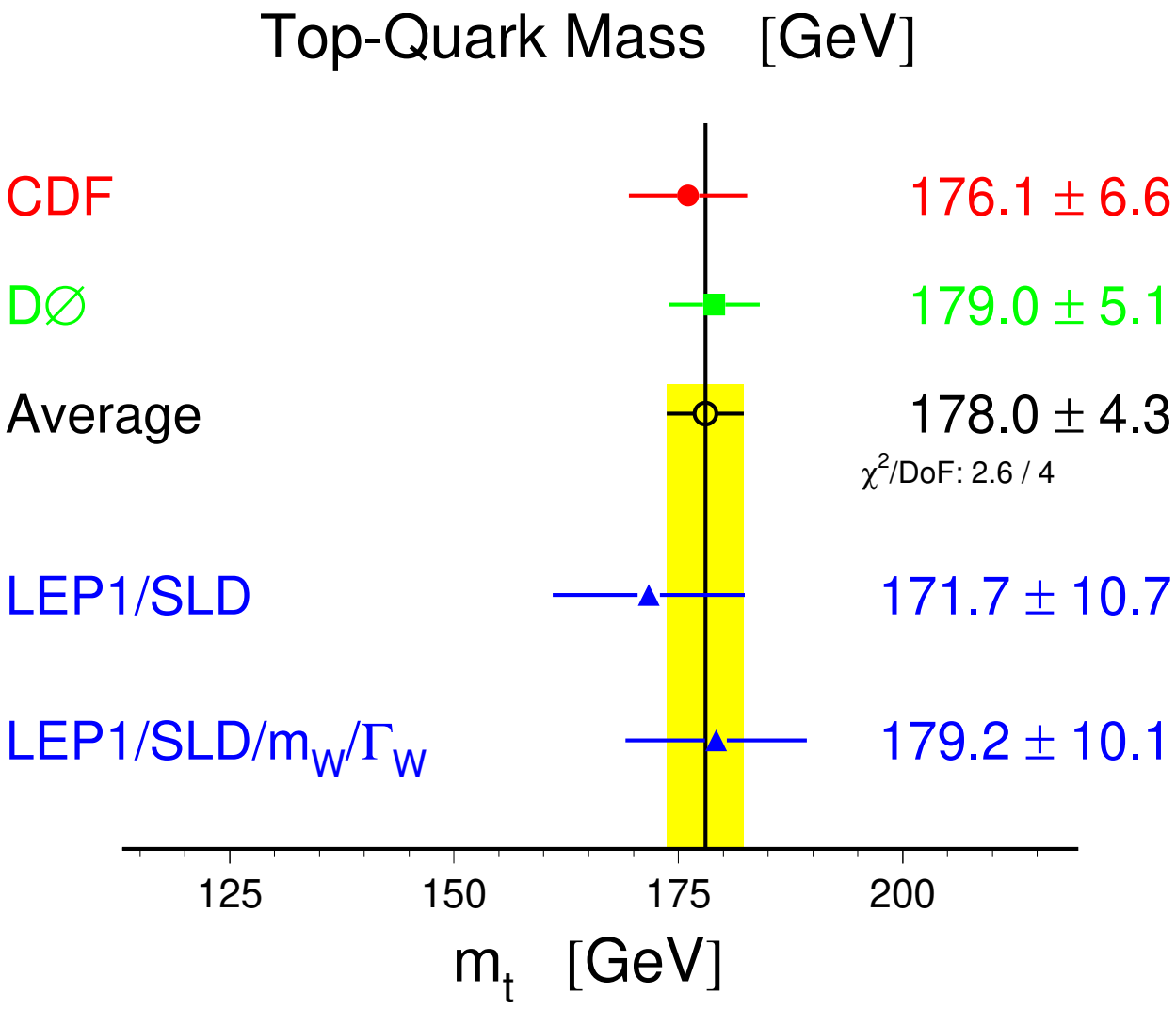
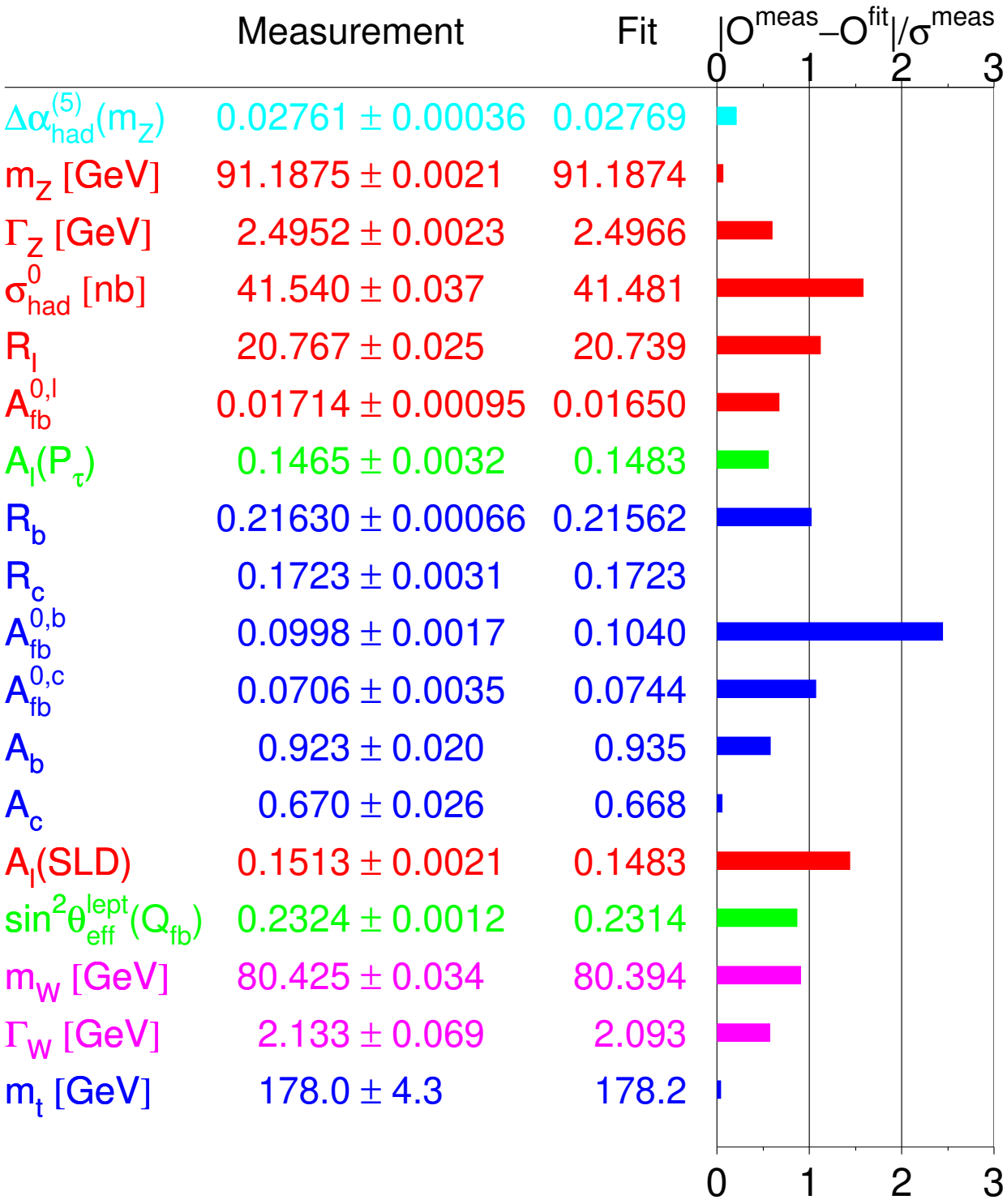

W-Boson Mass [GeV]
TEVATRON
80.452 ± 0.059
LEP2
80.412 ± 0.042
Average
80.425 ± 0.034
χ²/DoF: 0.3 / 1
NuTeV
80.136 ± 0.084
LEP1/SLD
80.368 ± 0.032
LEP1/SLD/m_t
80.379 ± 0.023
80
80.2
80.4
80.6
m_W [GeV]


Top-Quark Mass [GeV]
CDF
176.1 ± 6.6
DØ
179.0 ± 5.1
Average
178.0 ± 4.3
χ²/DoF: 2.6 / 4
LEP1/SLD
171.7 ± 10.7
LEP1/SLD/m_W/Γ_W
179.2 ± 10.1
125
150
175
200
m_t [GeV]

Summer 2004


Measurement
Fit
$|O^{meas}-O^{fit}|/\sigma^{meas}$
0
1
2
3
$\Delta\alpha^{(5)}_{had}(m_Z)$ 0.02761 ± 0.00036 0.02769
m_Z [GeV] 91.1875 ± 0.0021 91.1874
Γ_Z [GeV] 2.4952 ± 0.0023 2.4966
σ^0_{had} [nb] 41.540 ± 0.037 41.481
R_l 20.767 ± 0.025 20.739
$A^{0,l}_{fb}$ 0.01714 ± 0.00095 0.01650
$A_l(P_\tau)$ 0.1465 ± 0.0032 0.1483
R_b 0.21630 ± 0.00066 0.21562
R_c 0.1723 ± 0.0031 0.1723
$A^{0,b}_{fb}$ 0.0998 ± 0.0017 0.1040
$A^{0,c}_{fb}$ 0.0706 ± 0.0035 0.0744
A_b 0.923 ± 0.020 0.935
A_c 0.670 ± 0.026 0.668
A_l(SLD) 0.1513 ± 0.0021 0.1483
$\sin^2\theta^{lept}_{eff}(Q_{fb})$ 0.2324 ± 0.0012 0.2314
m_W [GeV] 80.425 ± 0.034 80.394
Γ_W [GeV] 2.133 ± 0.069 2.093
m_t [GeV] 178.0 ± 4.3 178.2
0
1
2
3