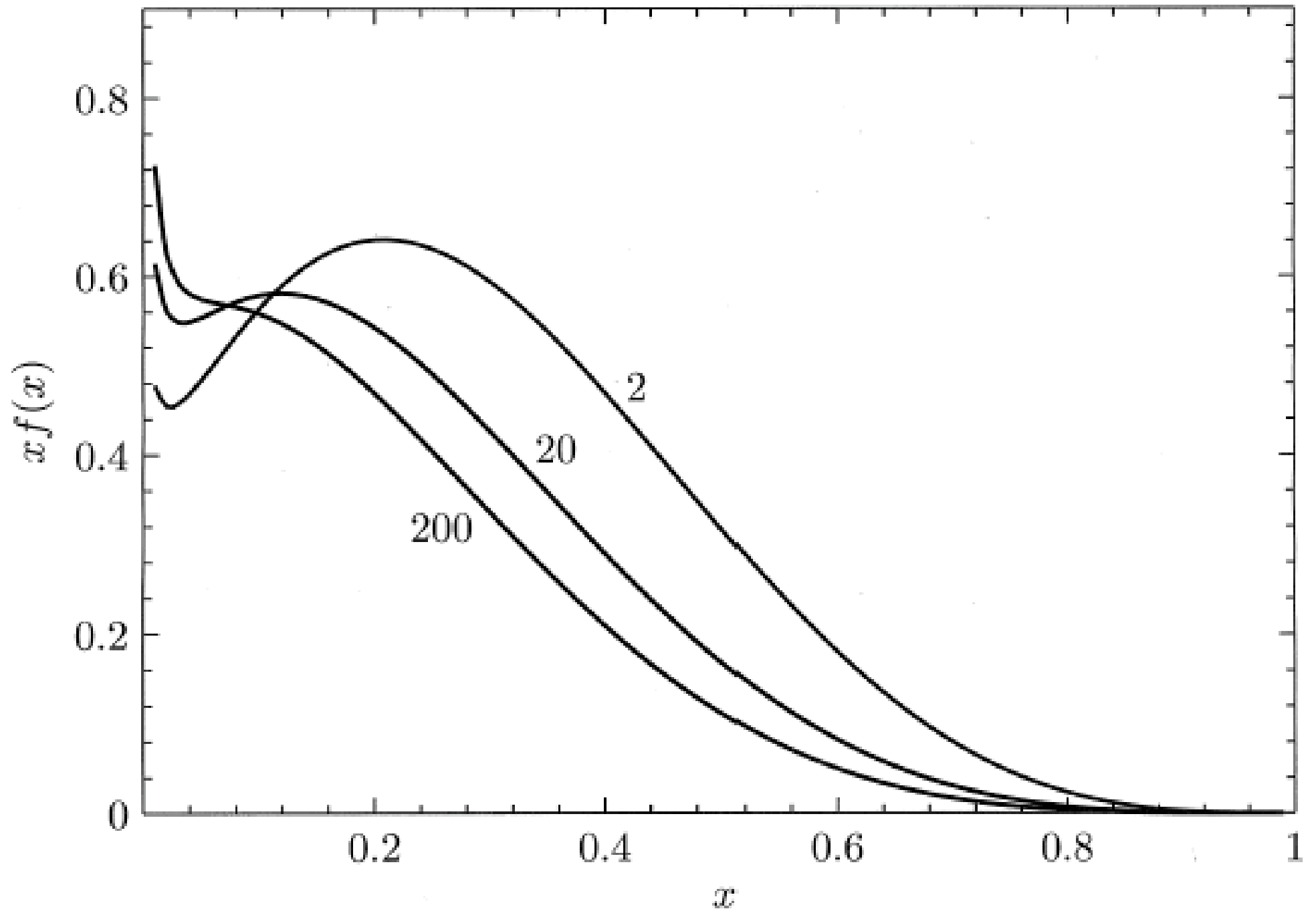
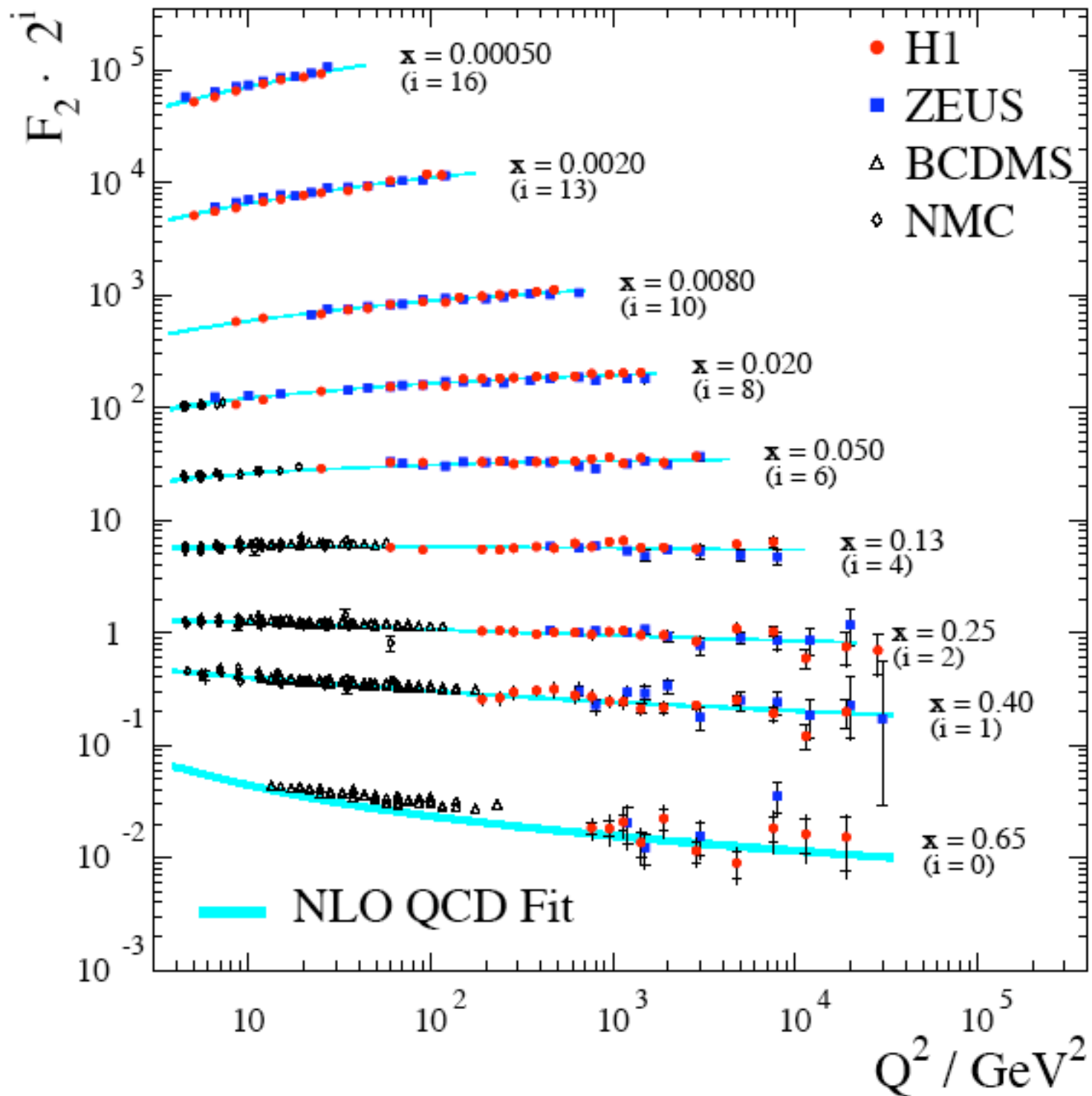
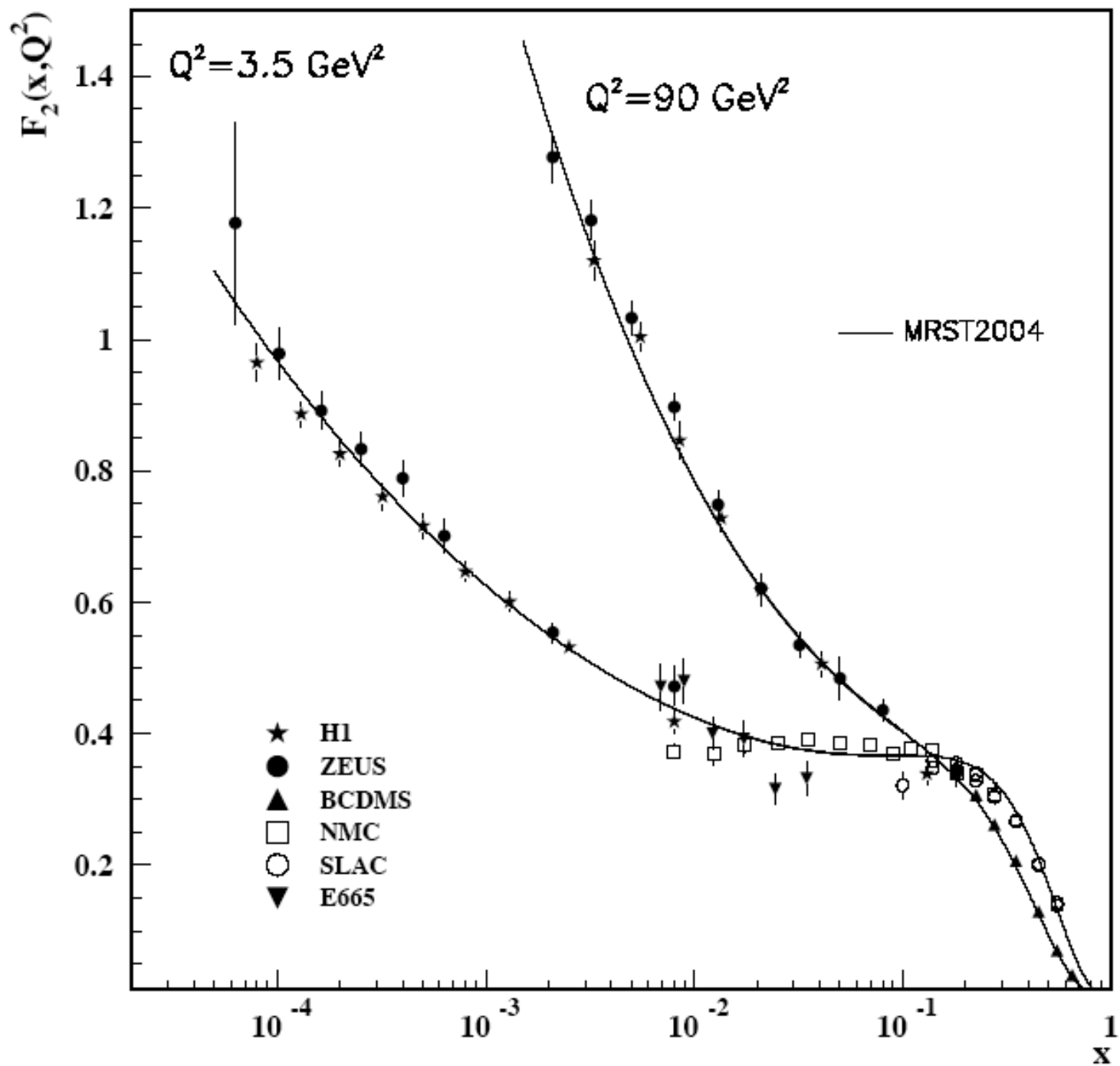


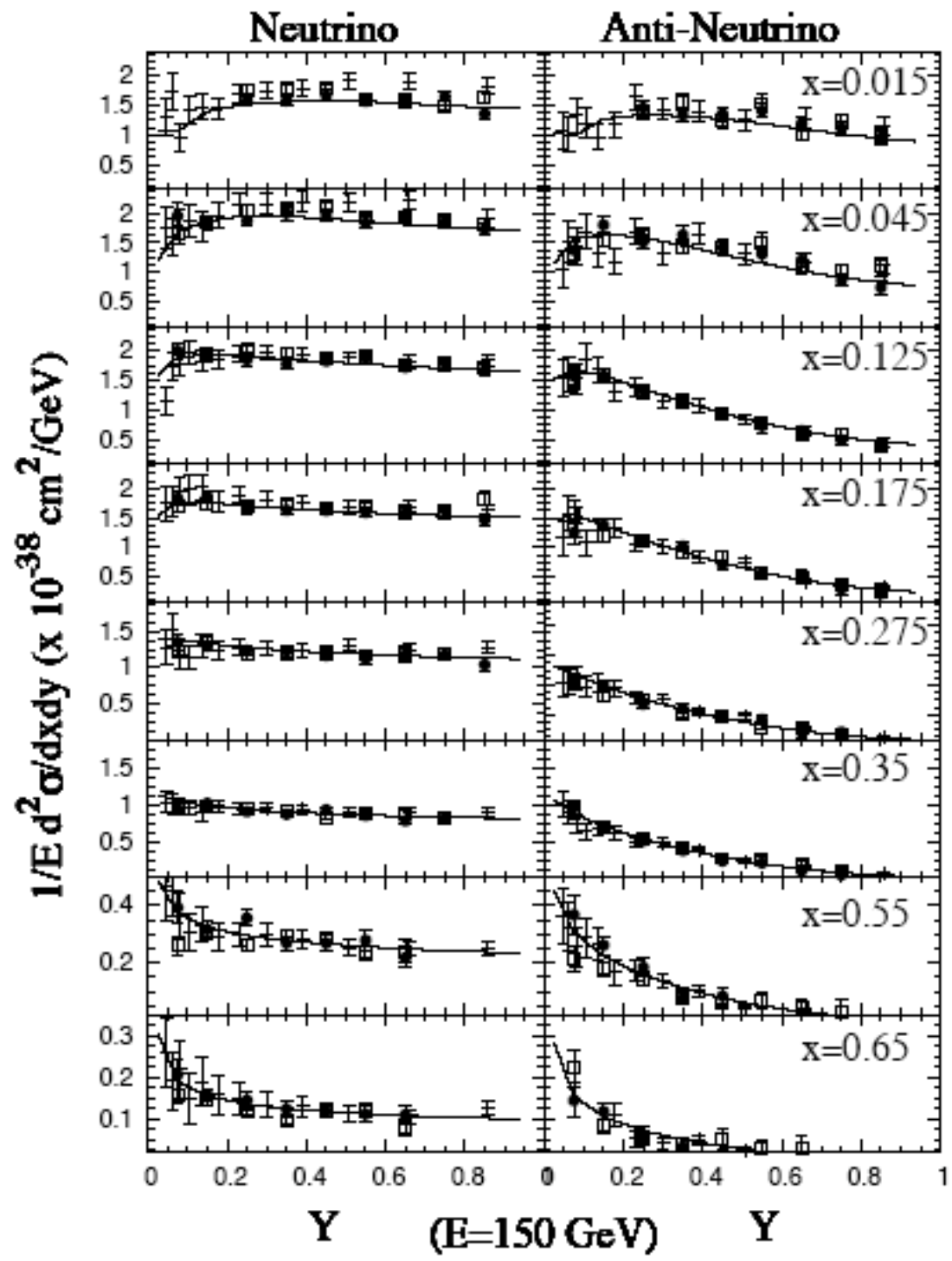
the Standard Model of Particle Physics

figures: Dec. 9
parton distribution functions

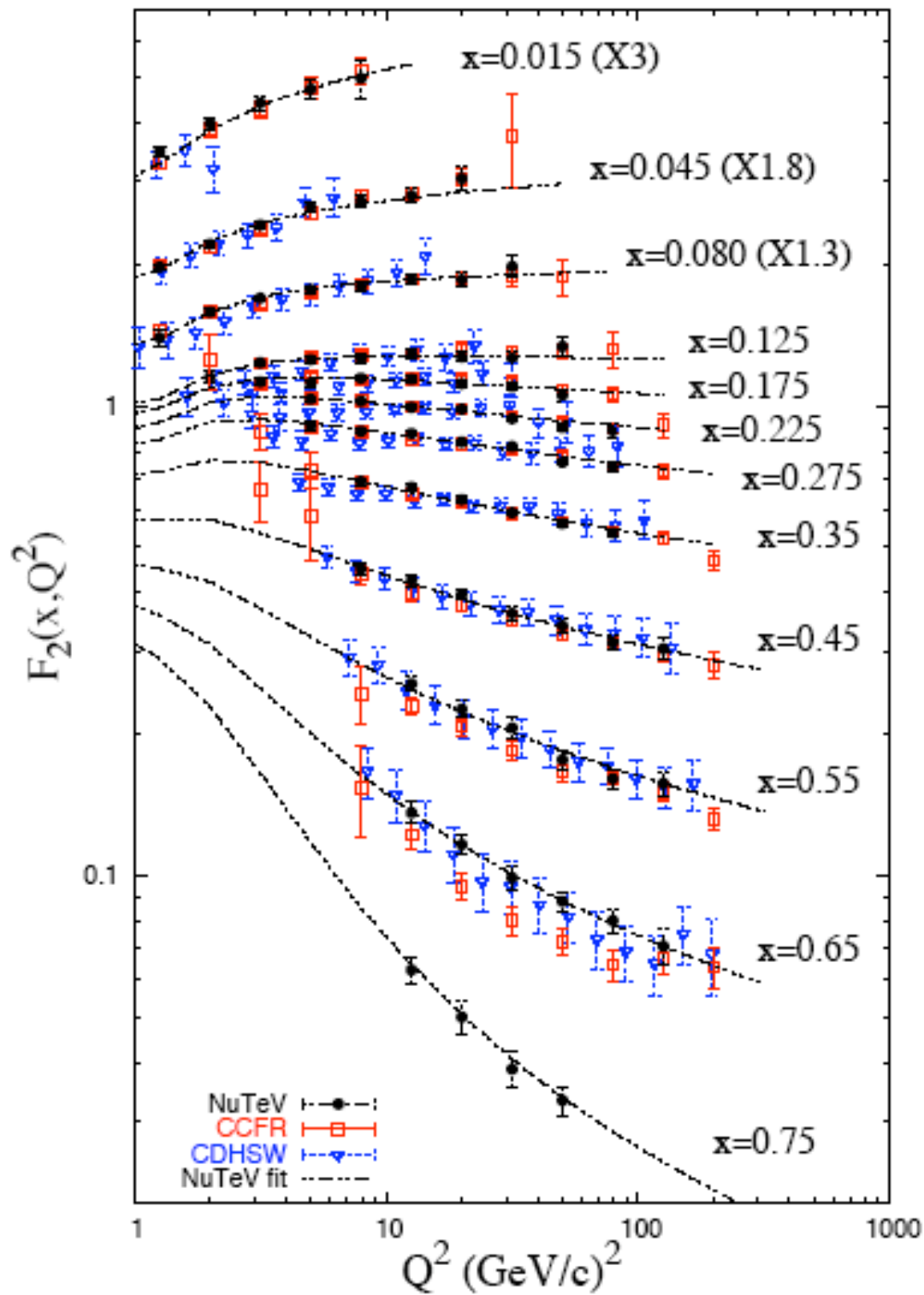




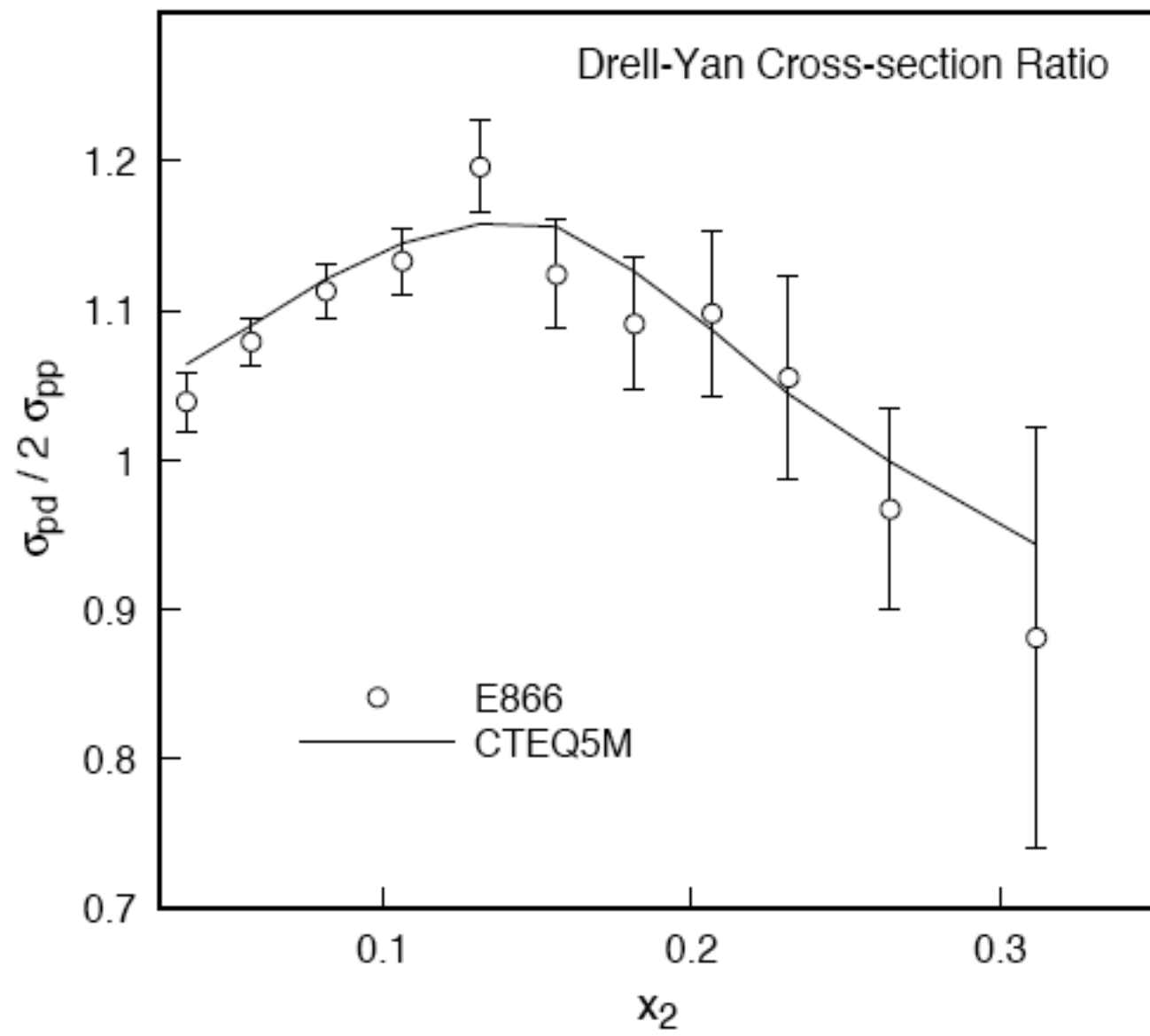




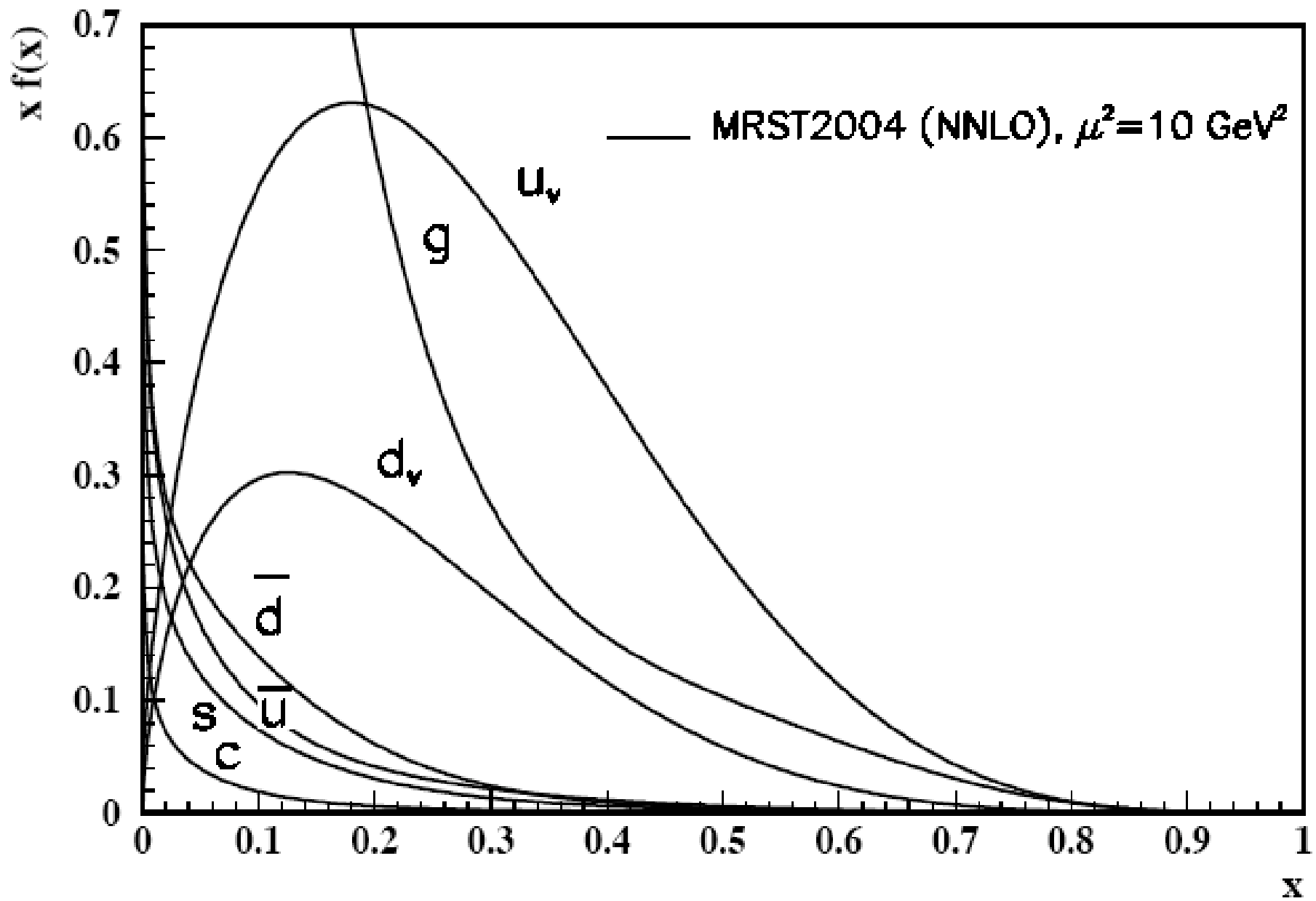
filled circles - NuTeV
 open squares - CCFR
 crosses - CDHSW



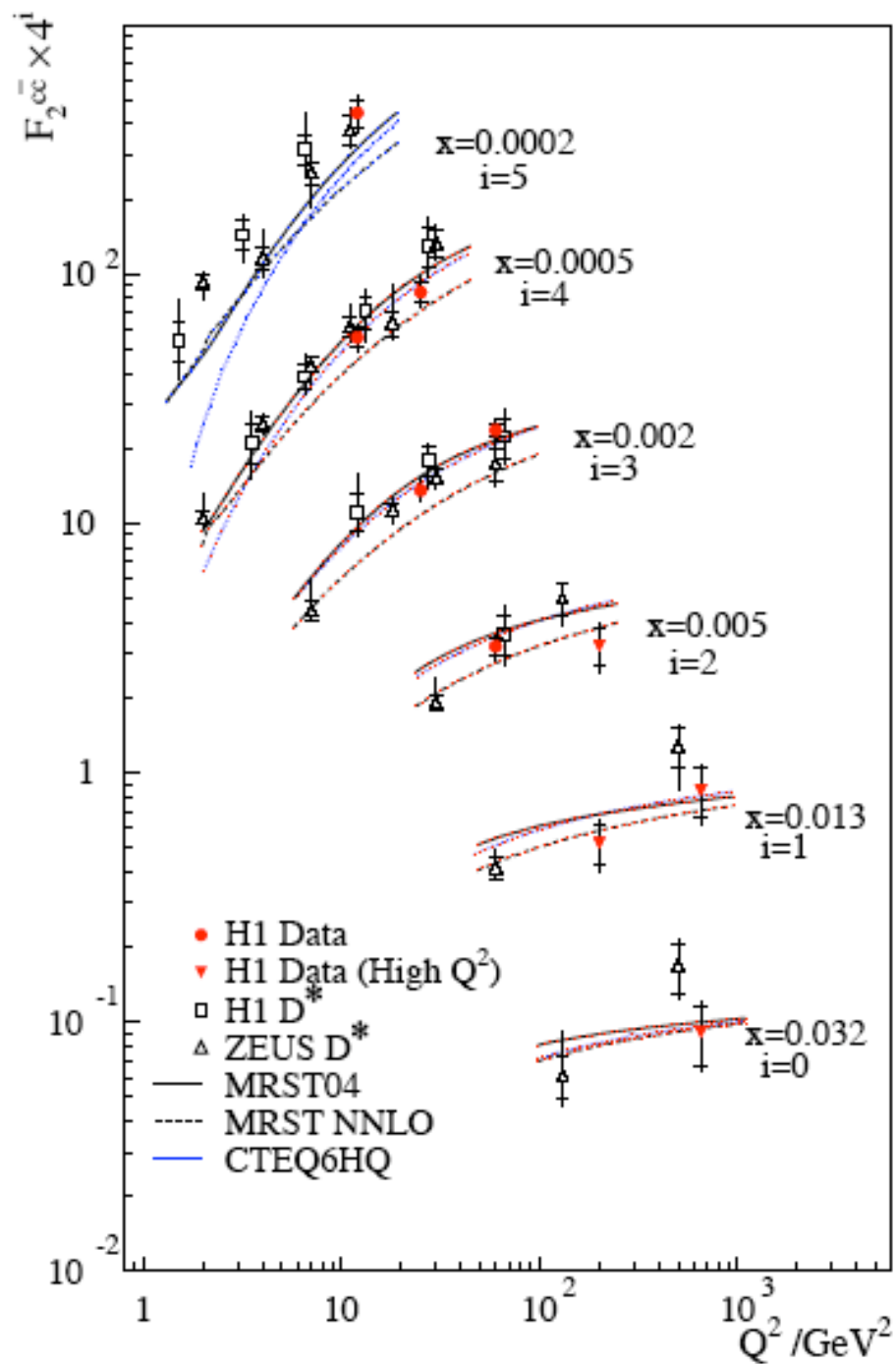
deep-inelastic
neutrino
scattering



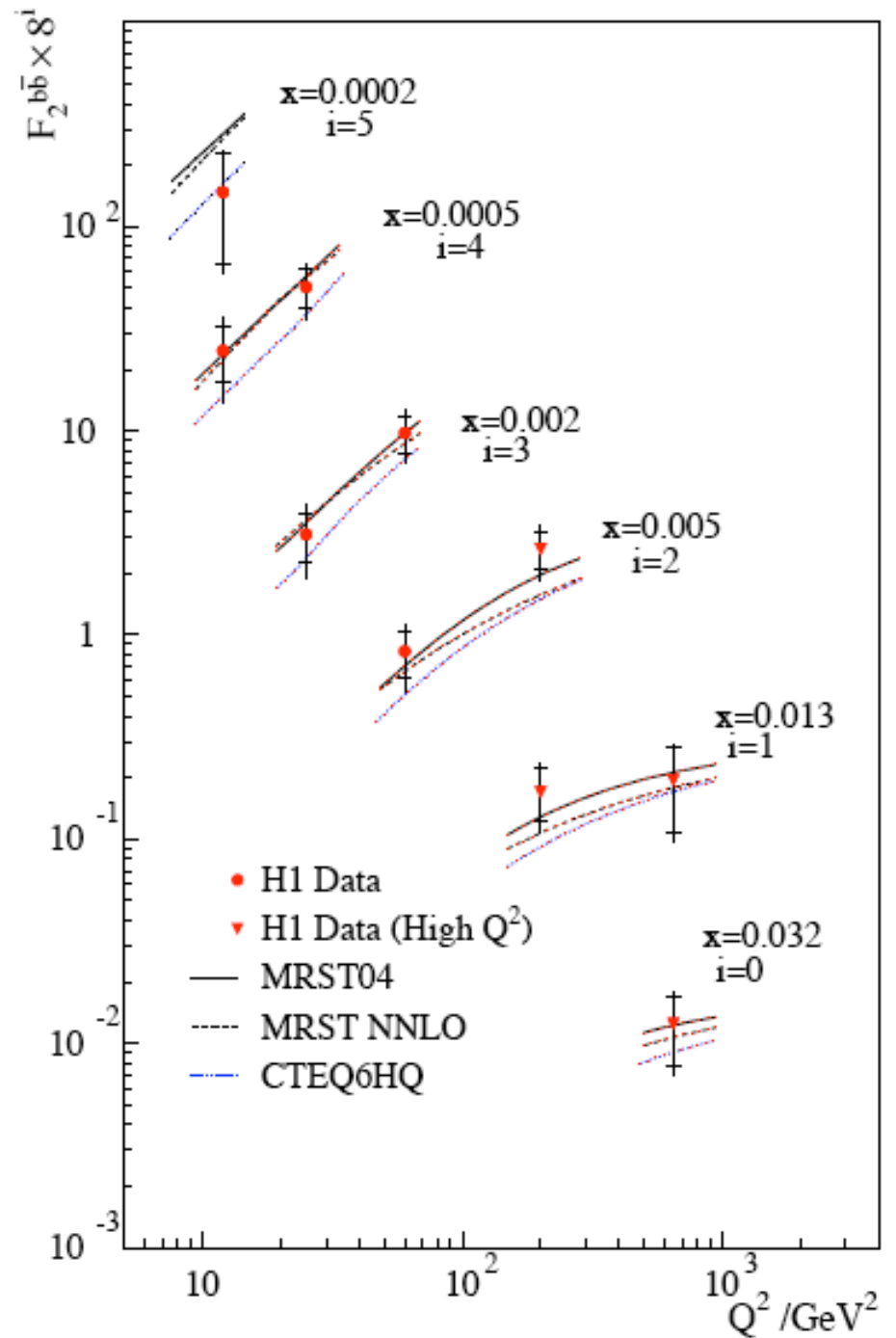
E866 experiment



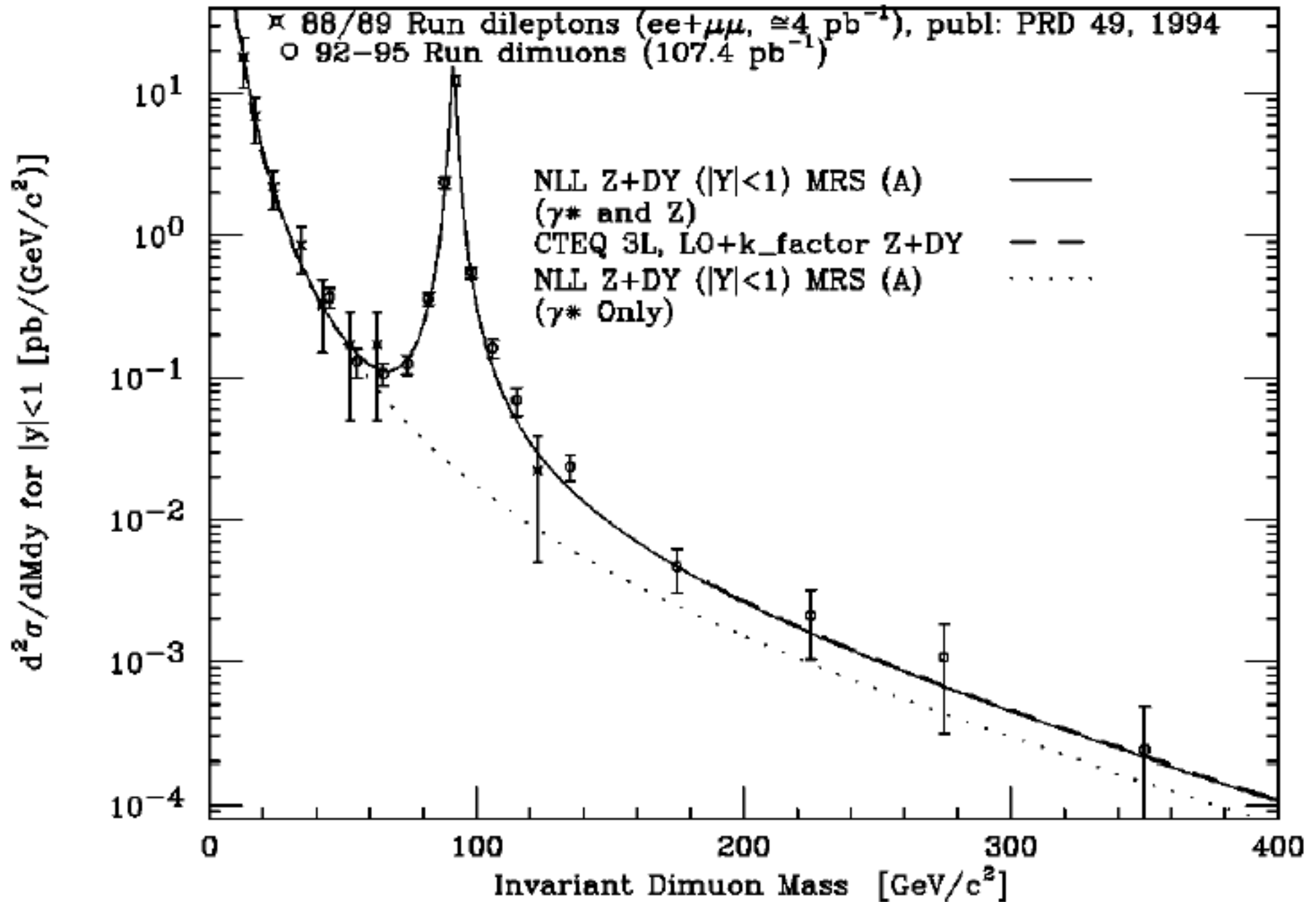
charm

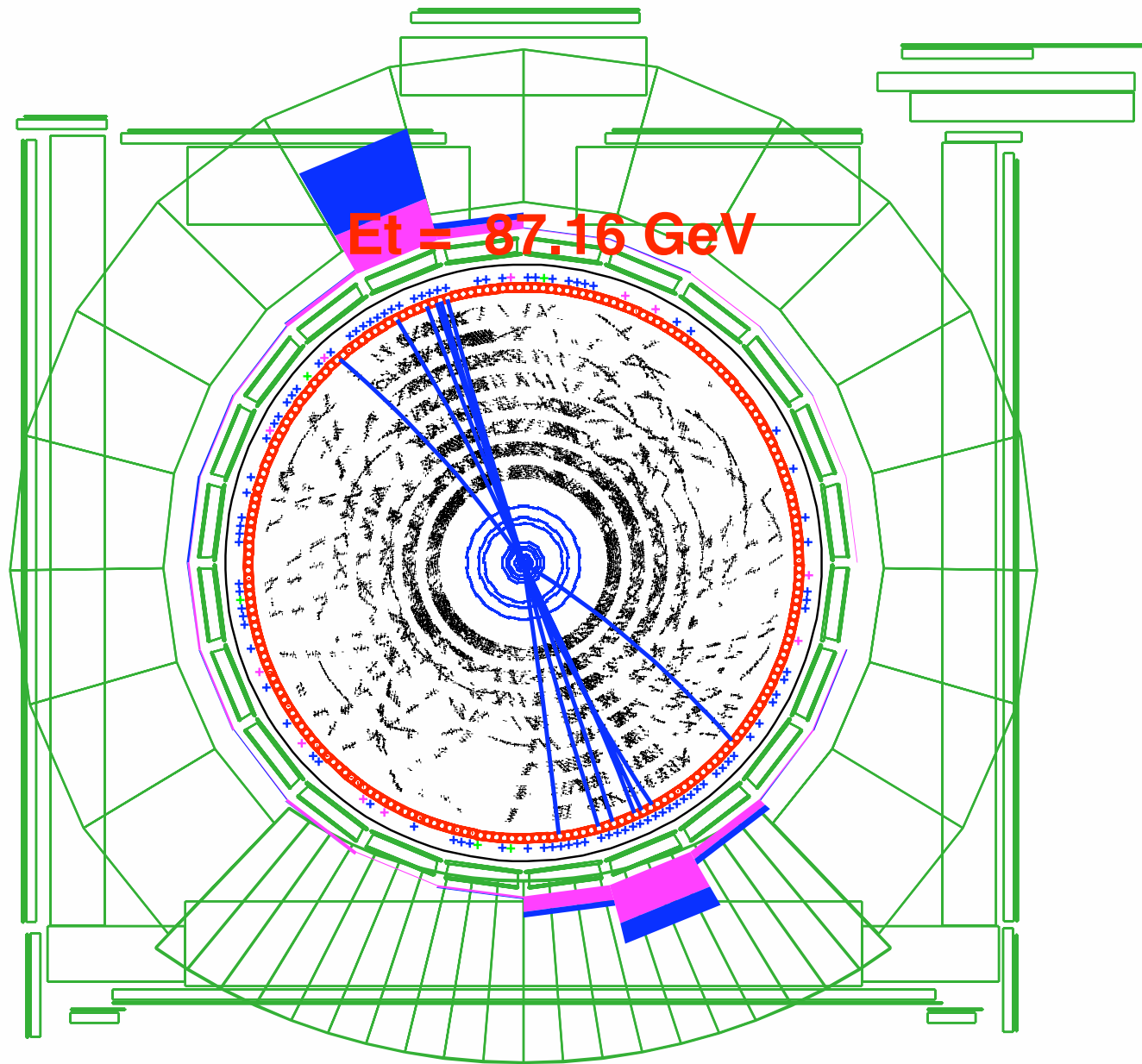


bottom

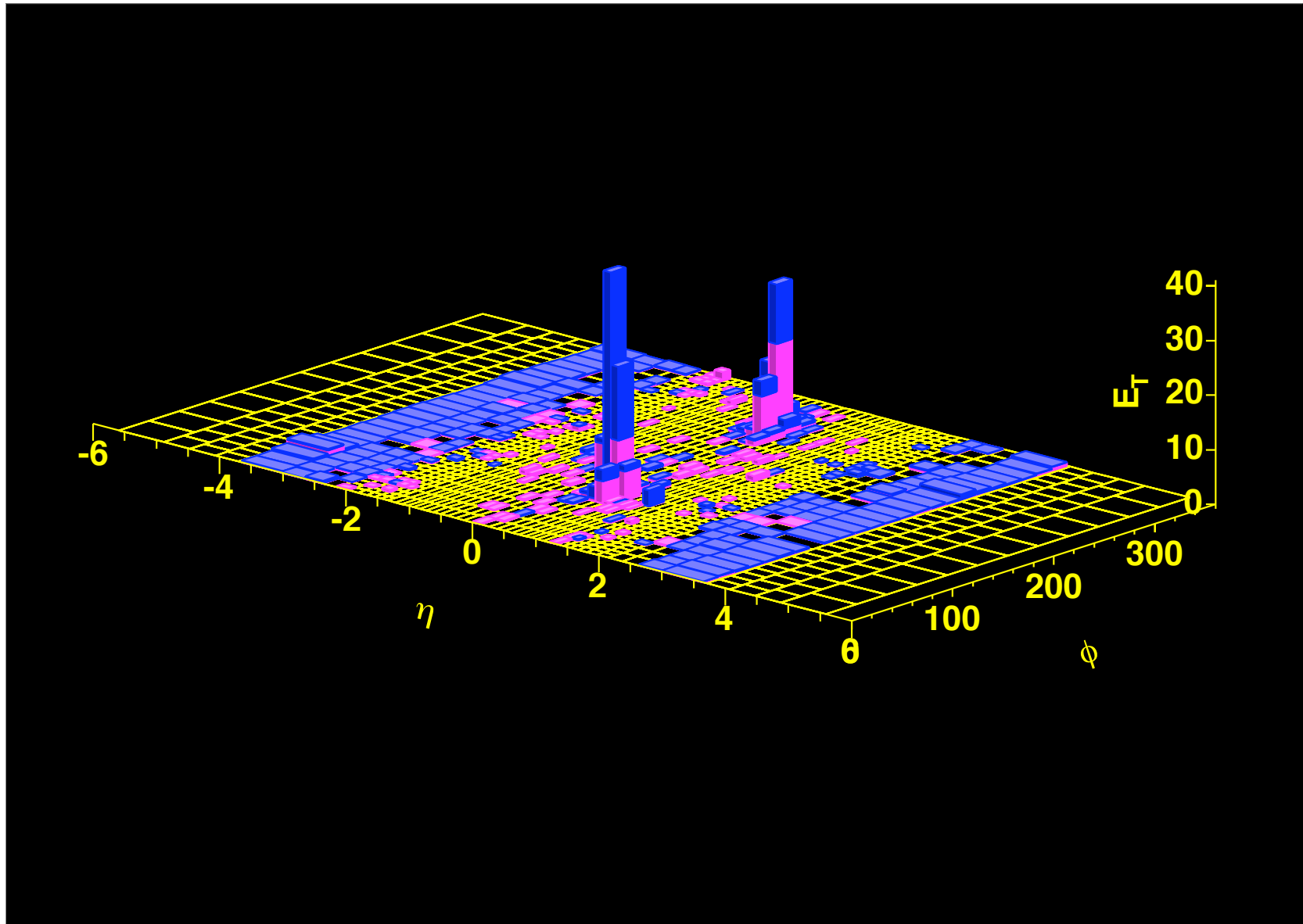


Drell-Yan differential cross-section

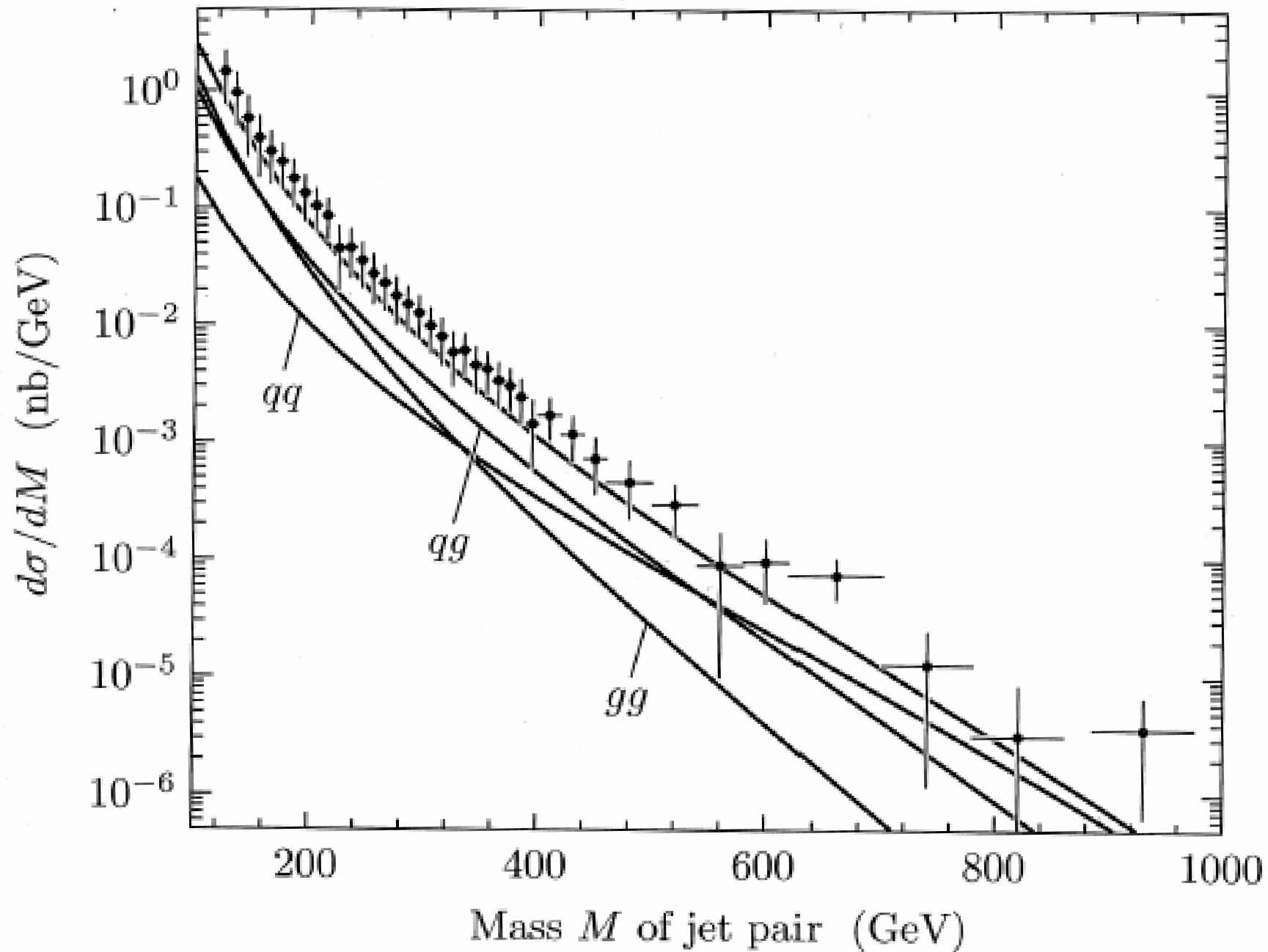




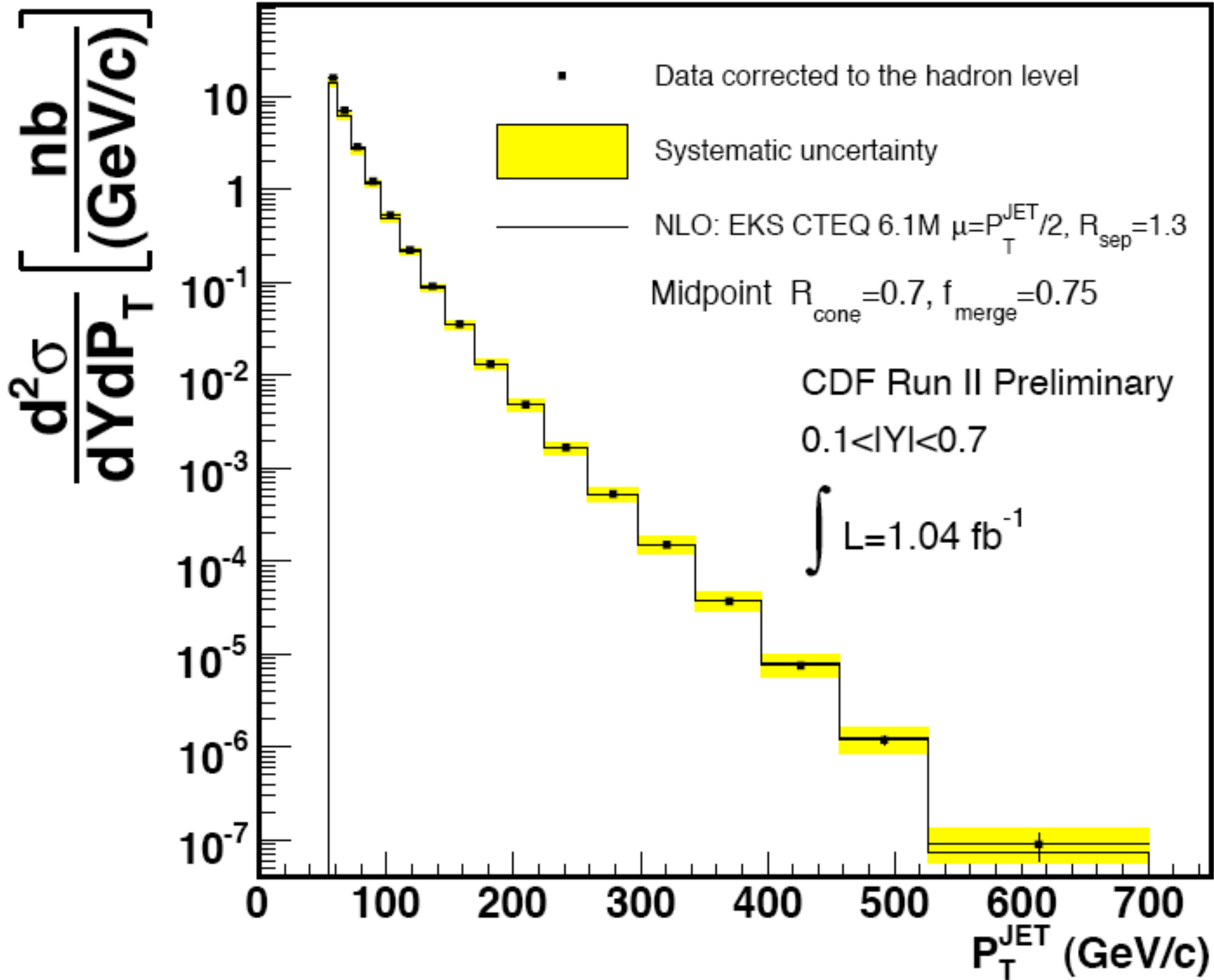
CDF experiment



CDF experiment



CDF - 1.8 TeV



Data / Theory

Data corrected to the parton level

NLO pQCD: EKS CTEQ 6.1M $\mu = P_T^{\text{Jet}}/2$, $R_{\text{sep}} = 1.3$

Midpoint $R_{\text{cone}} = 0.7$, $f_{\text{merge}} = 0.75$

$0.1 < |Y| < 0.7$ $\int L = 1.04 \text{ fb}^{-1}$

- Data / NLO pQCD
- Systematic uncertainty
- Systematic uncertainty including hadronization and UE

