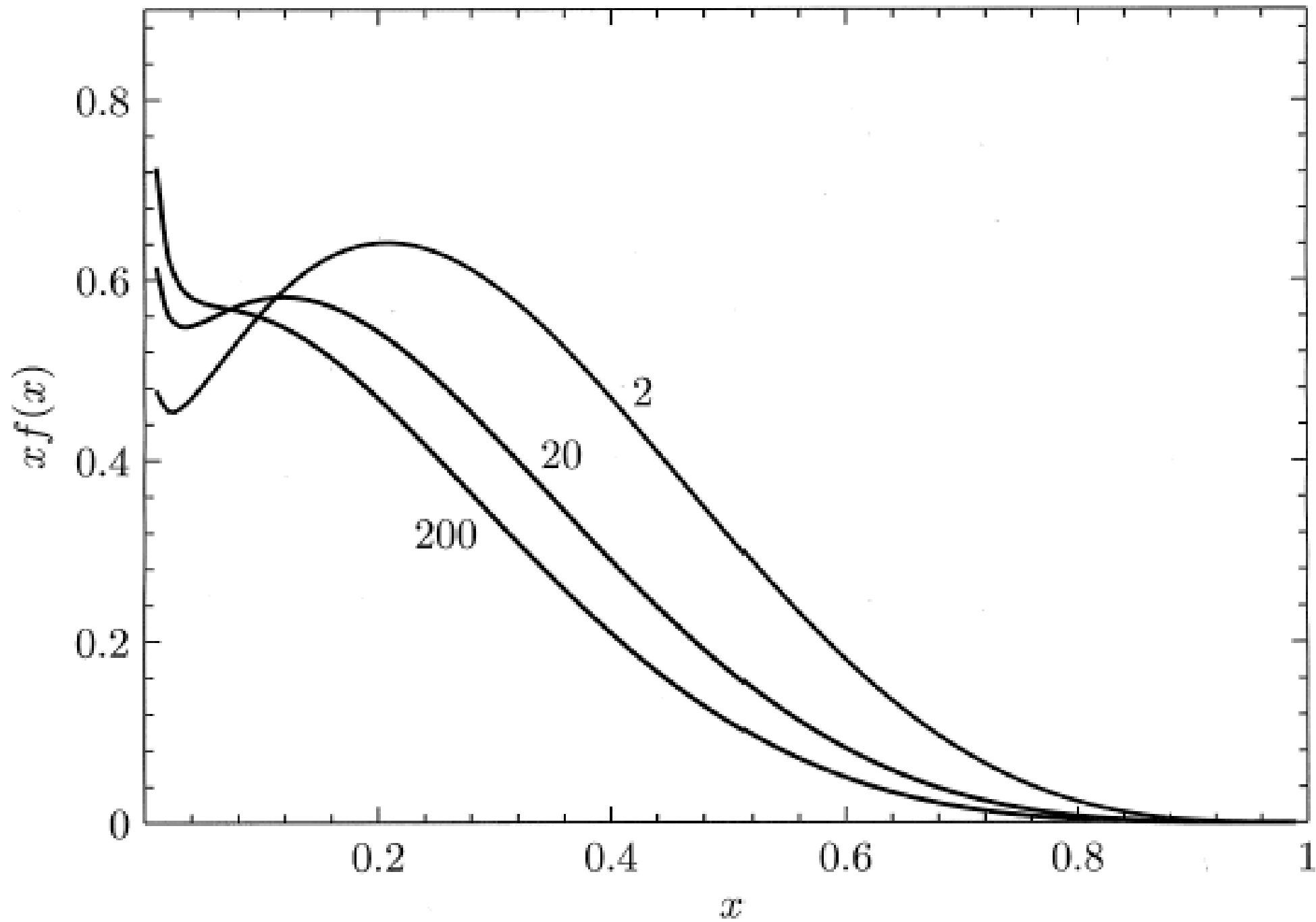
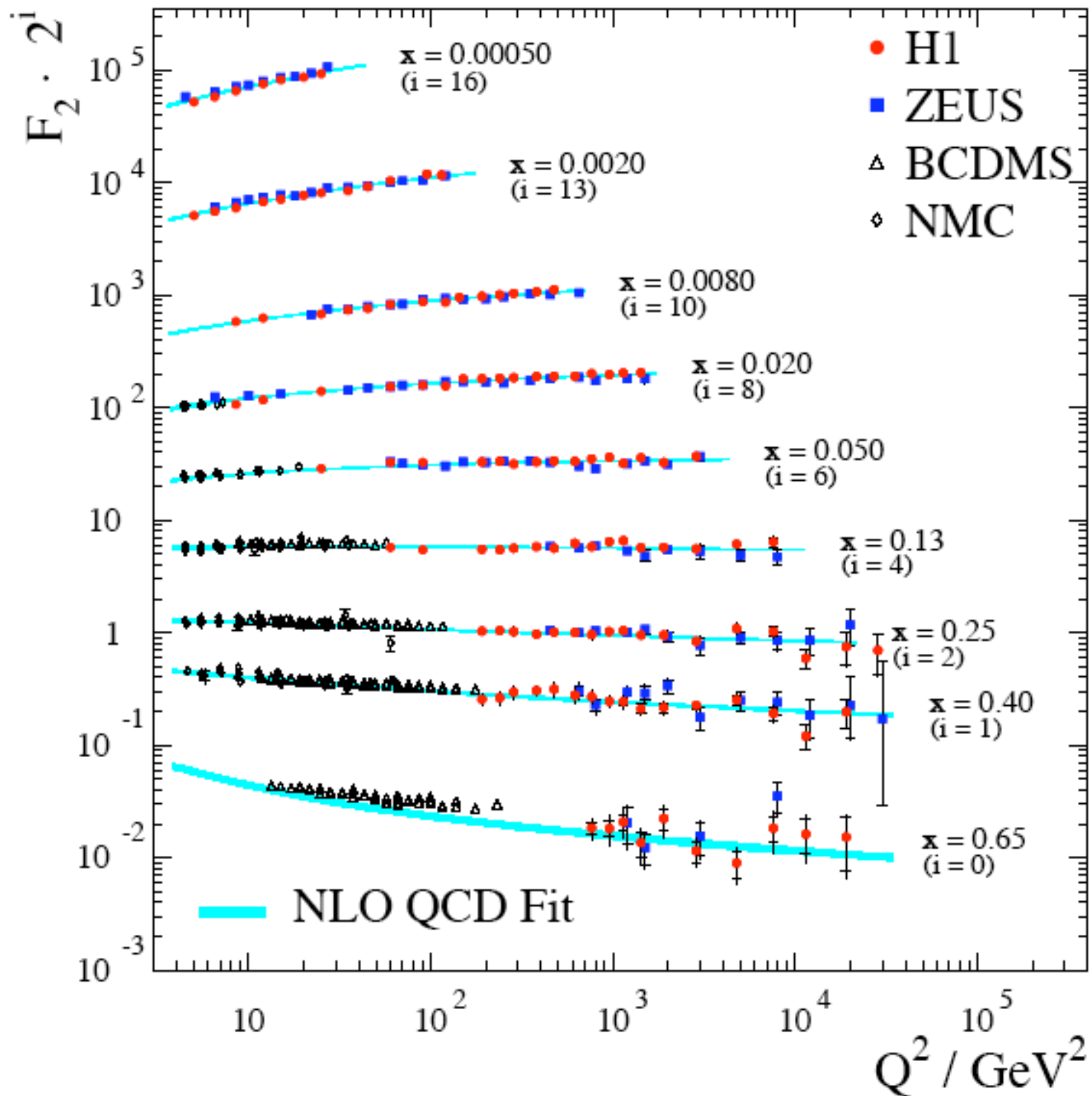


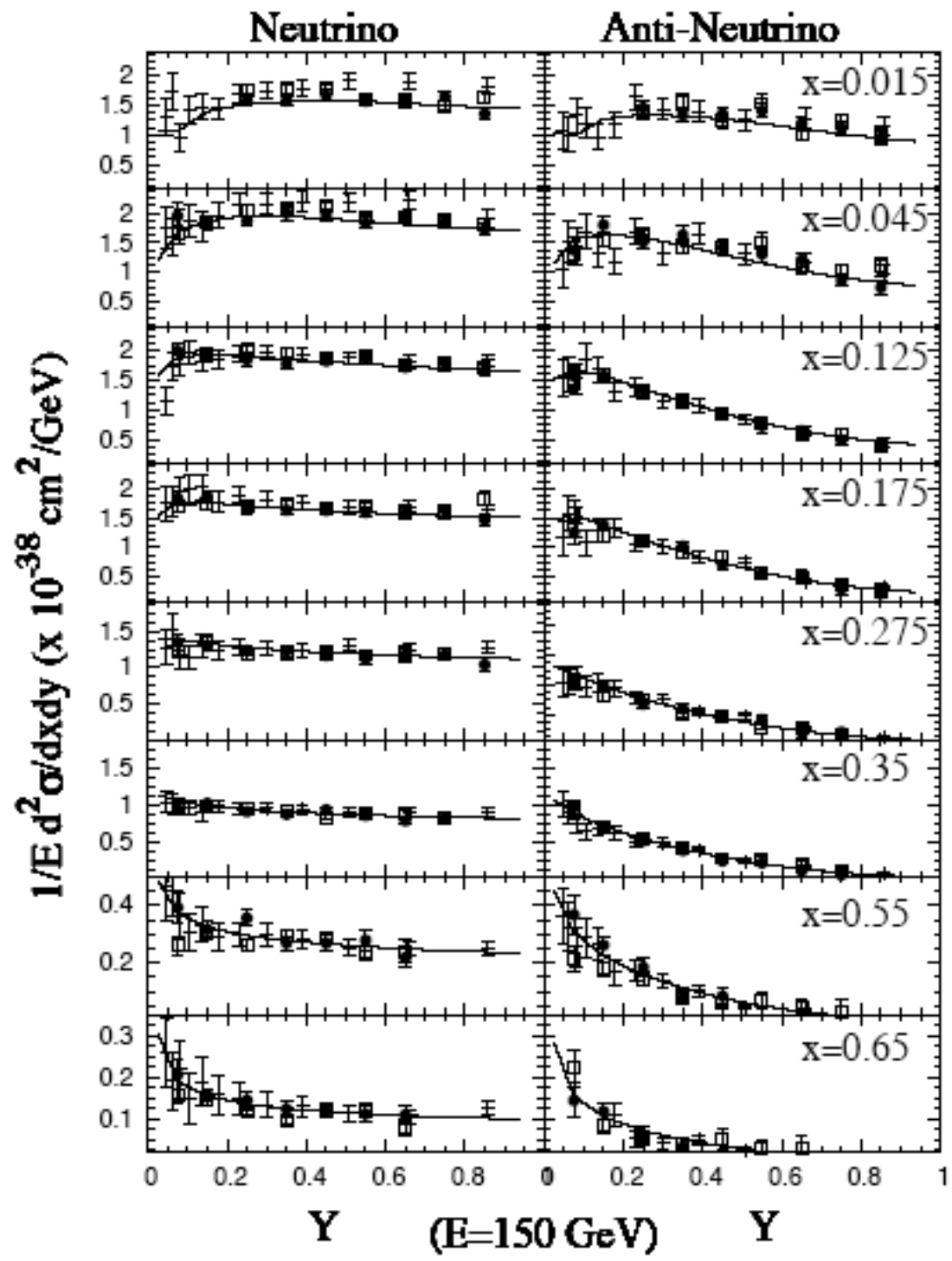
Physics 450:
Particle Physics at the Large
Hadron Collider

Oct. 16 lecture: figures

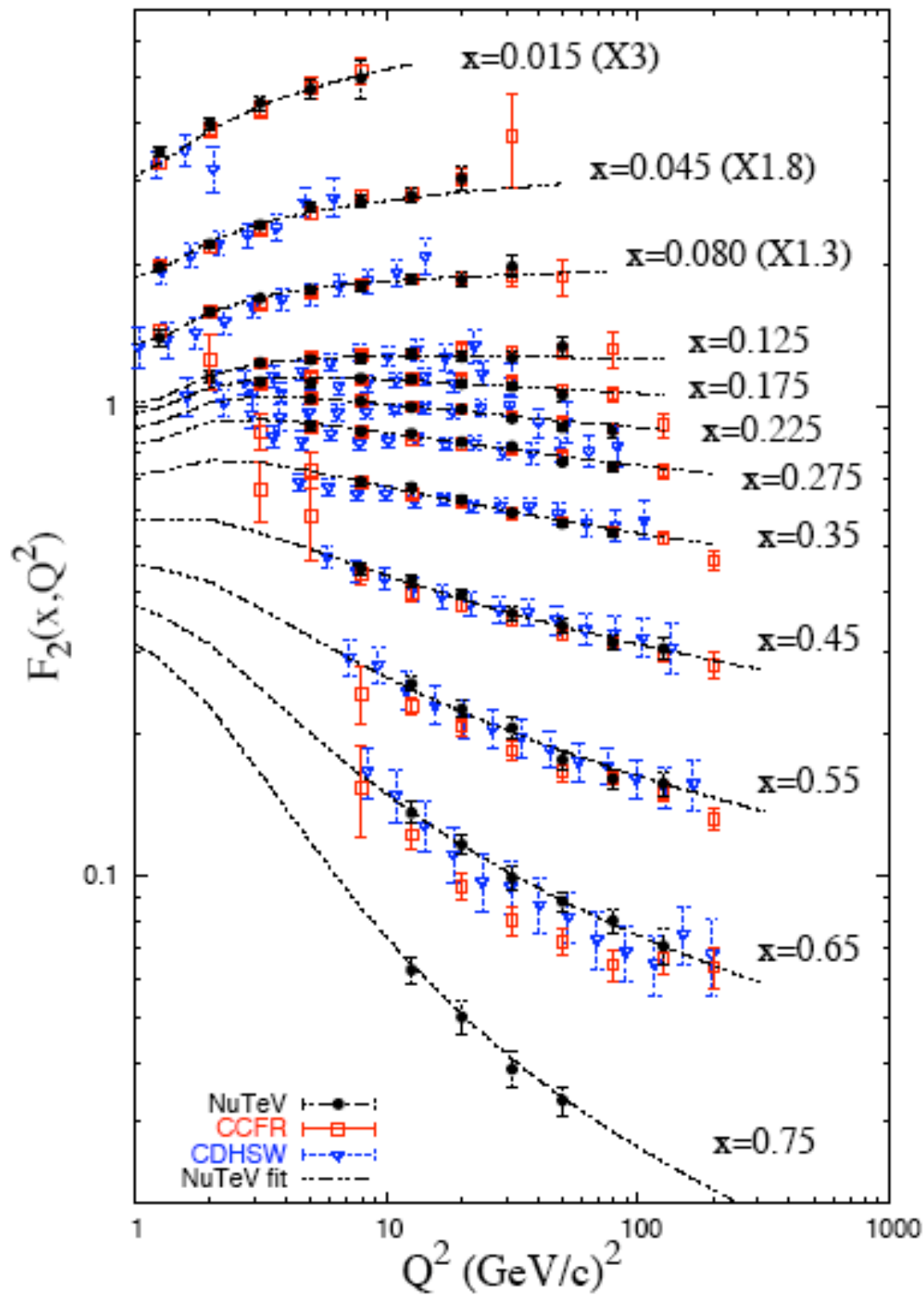
M. E. Peskin
Fall Term 2008



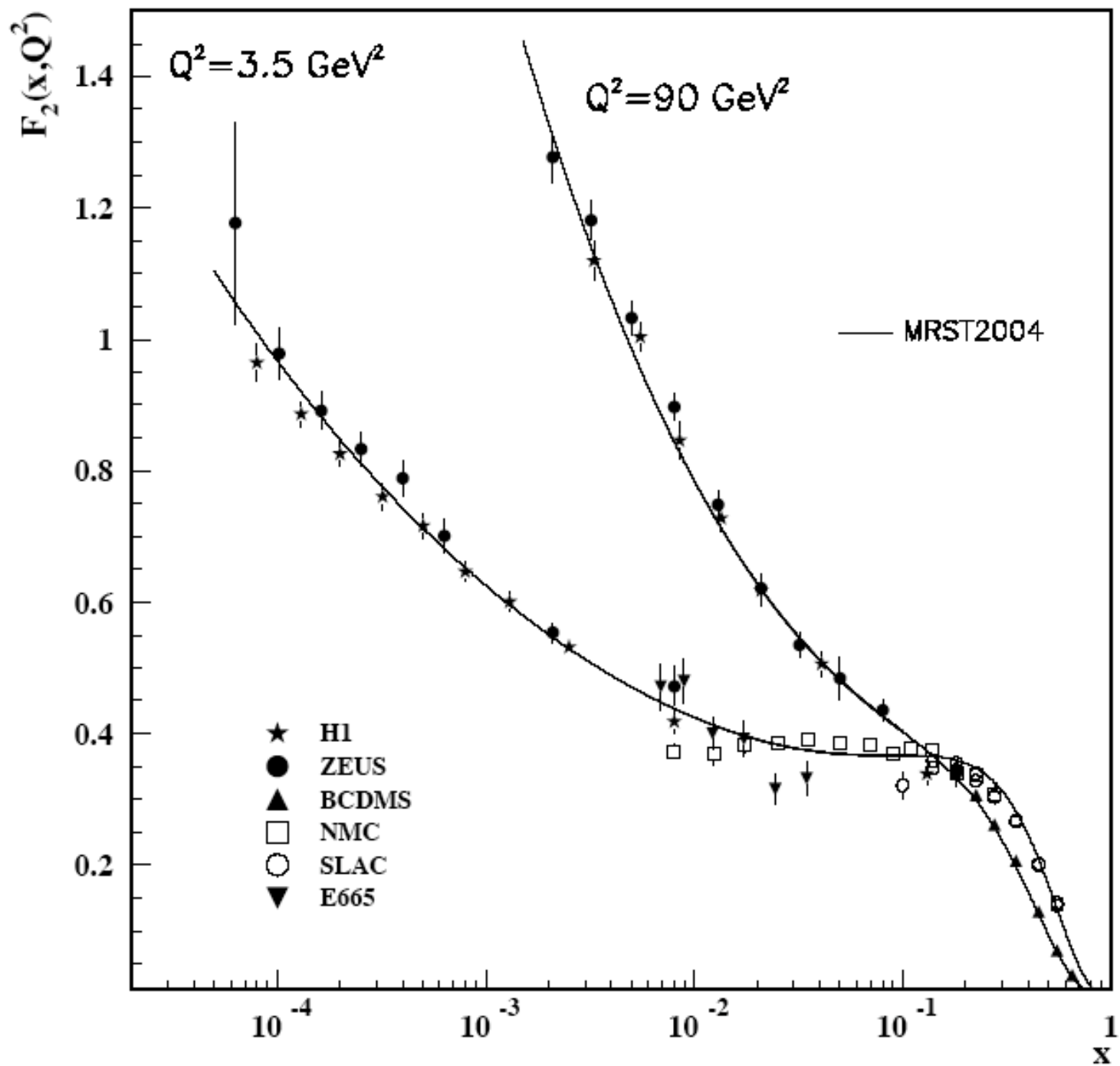


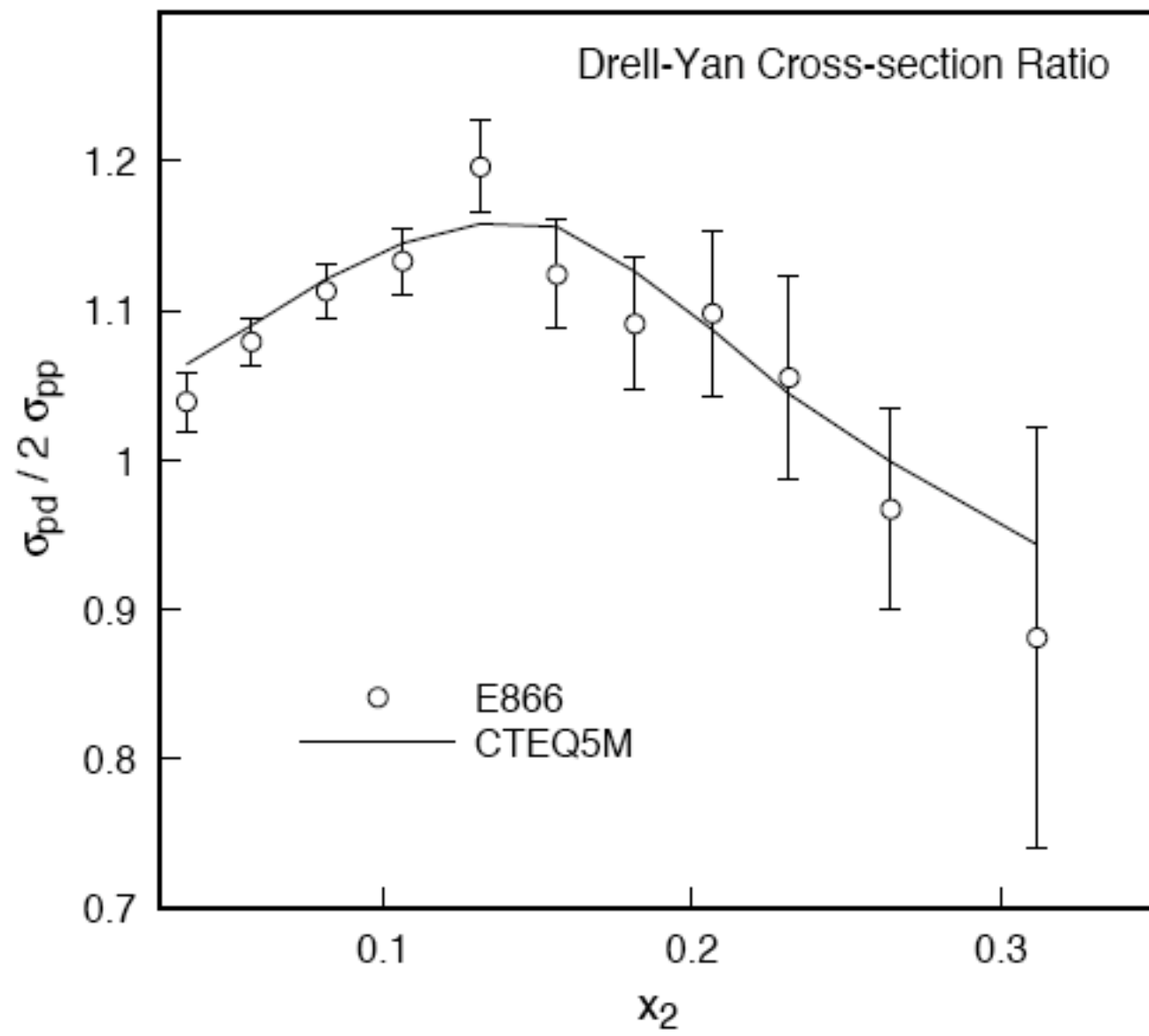


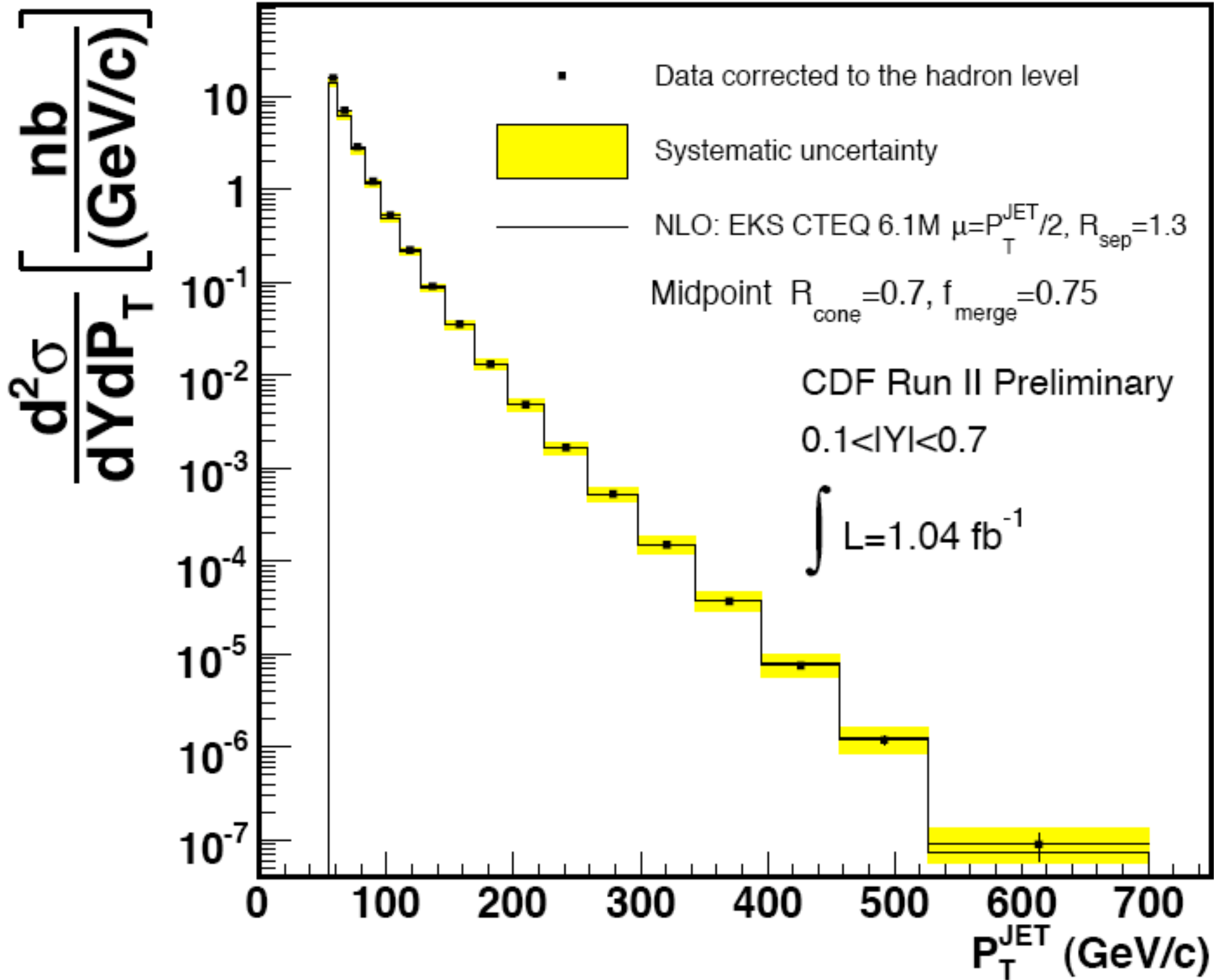
filled circles - NuTeV
 open squares - CCFR
 crosses - CDHSW

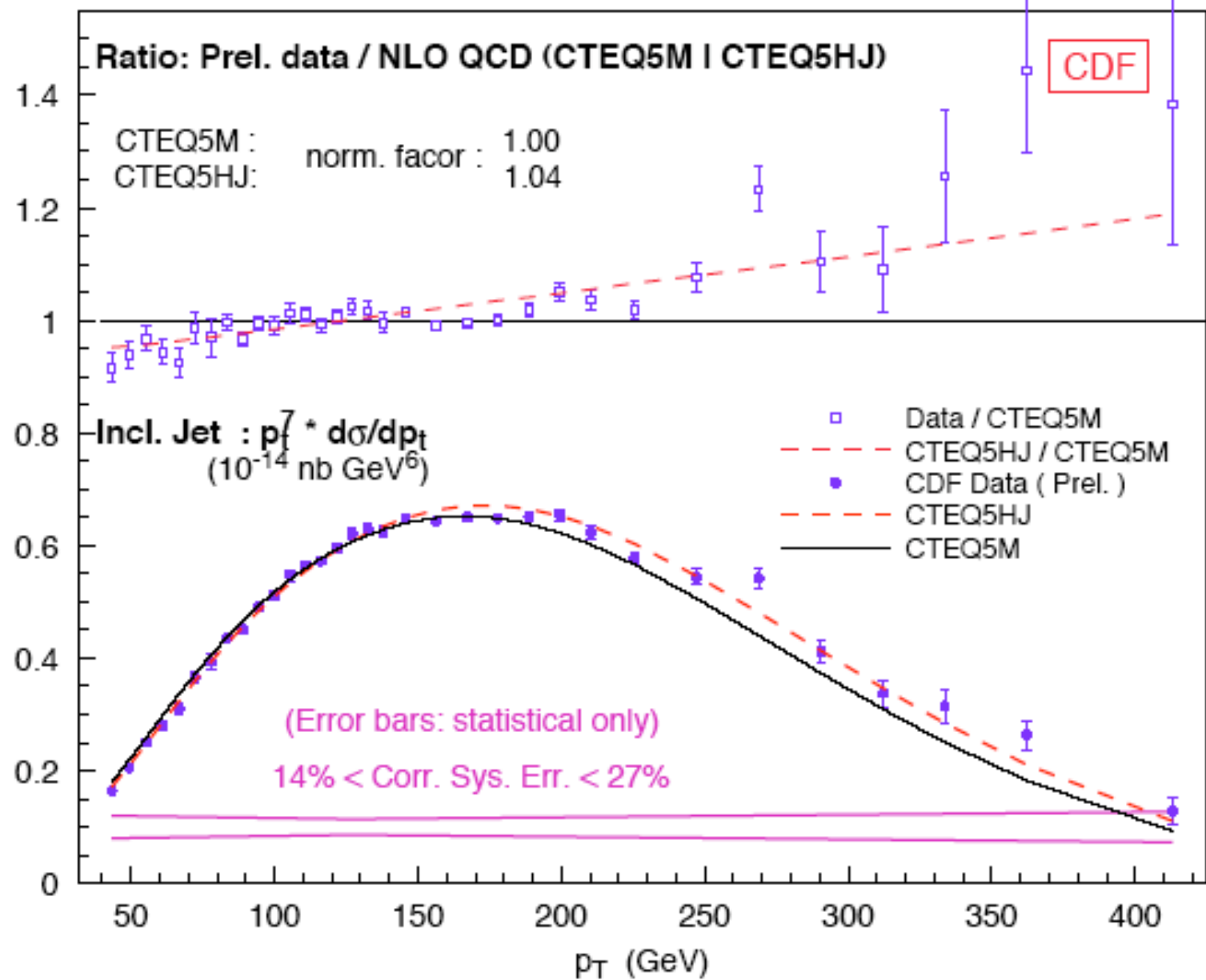


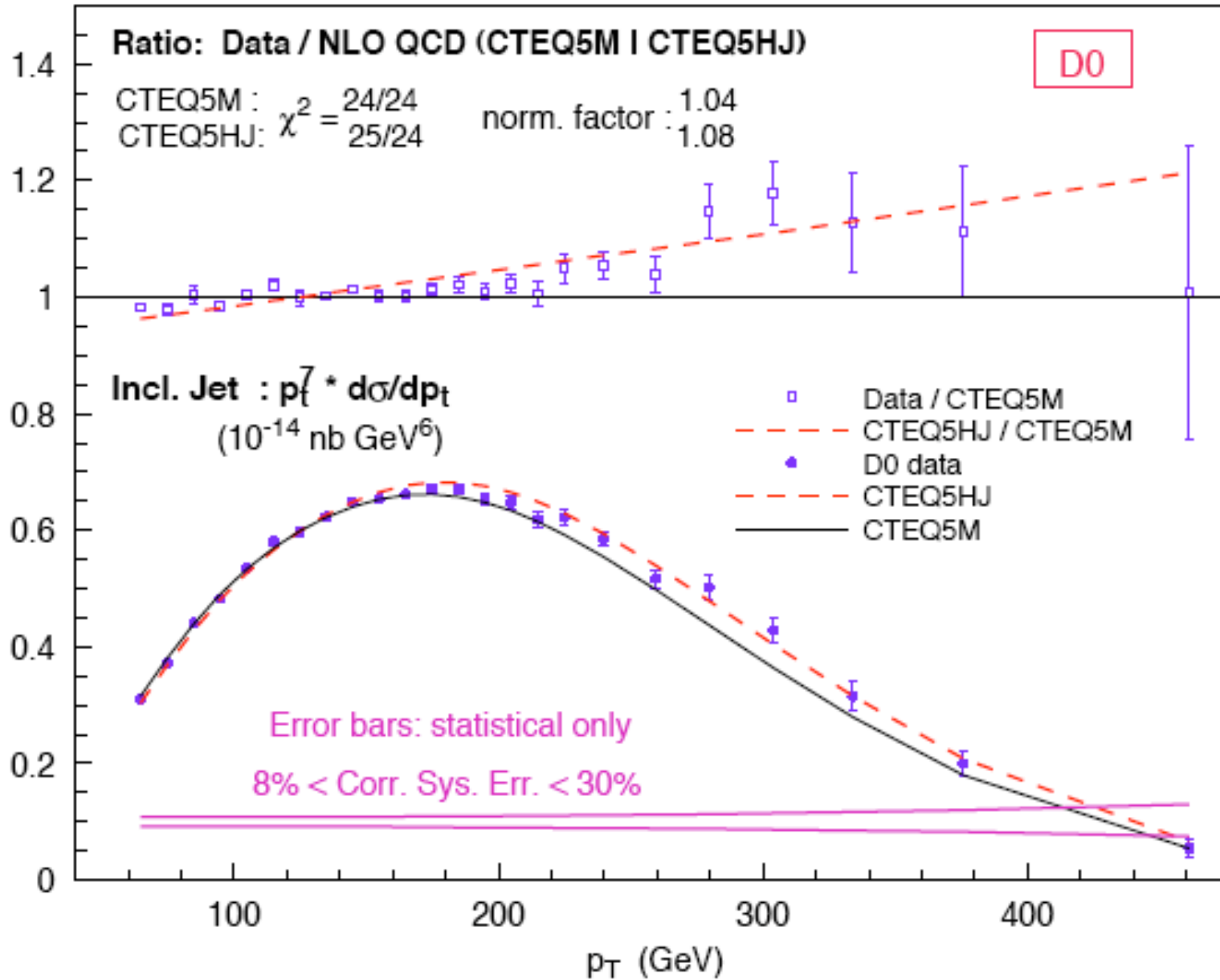
deep-inelastic
 neutrino
 scattering











Data / Theory

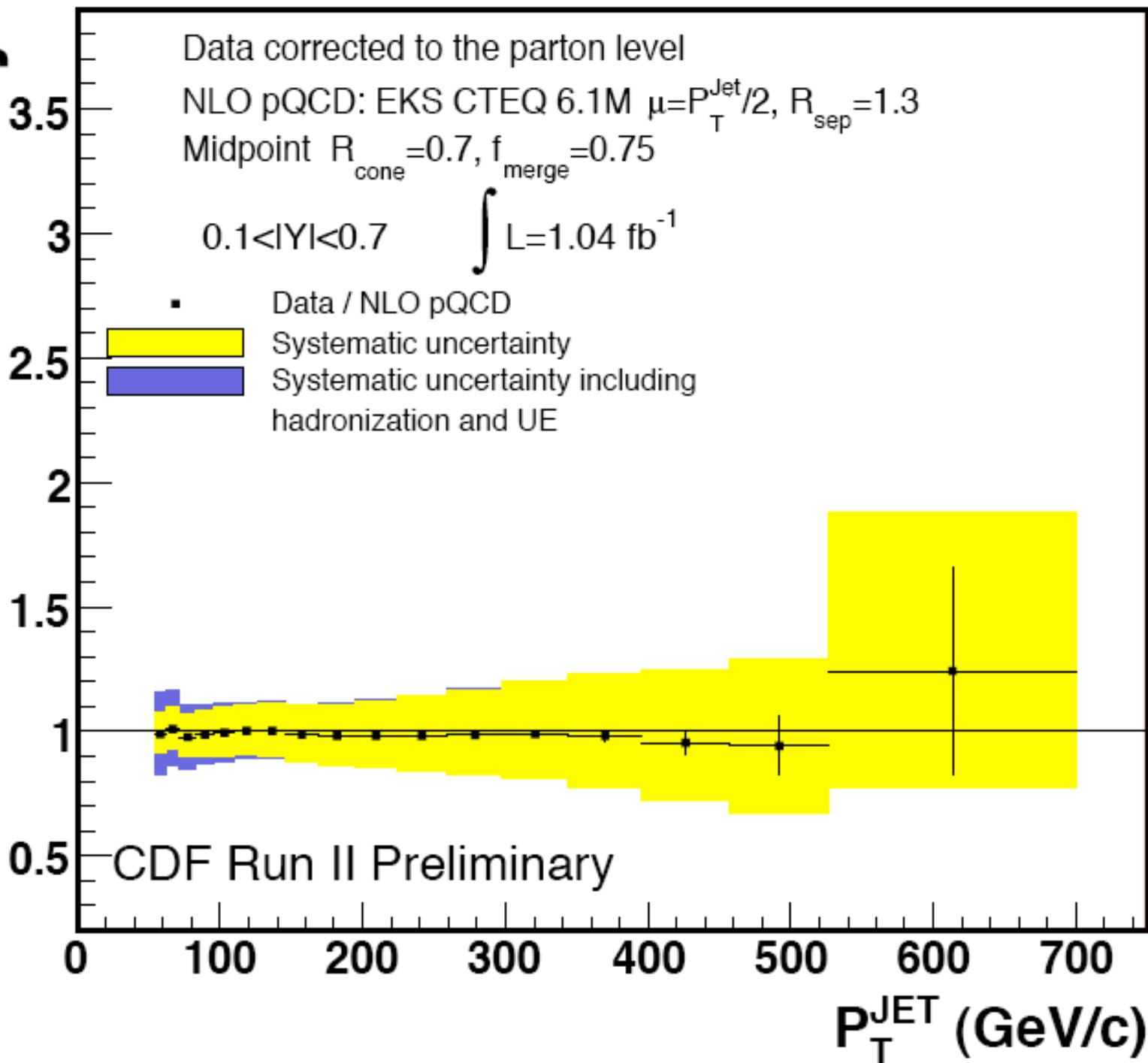
Data corrected to the parton level

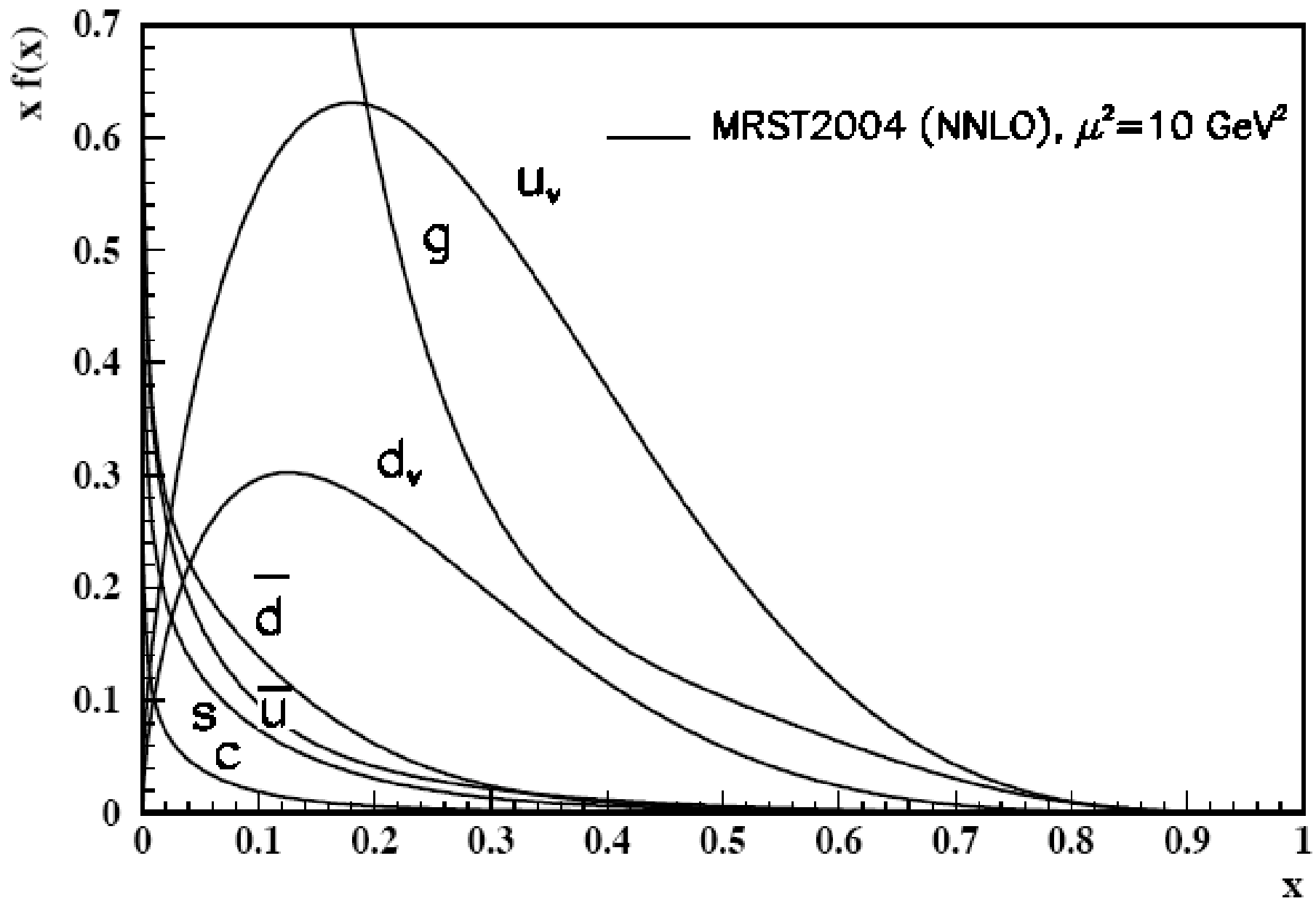
NLO pQCD: EKS CTEQ 6.1M $\mu = P_T^{\text{Jet}}/2$, $R_{\text{sep}} = 1.3$

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

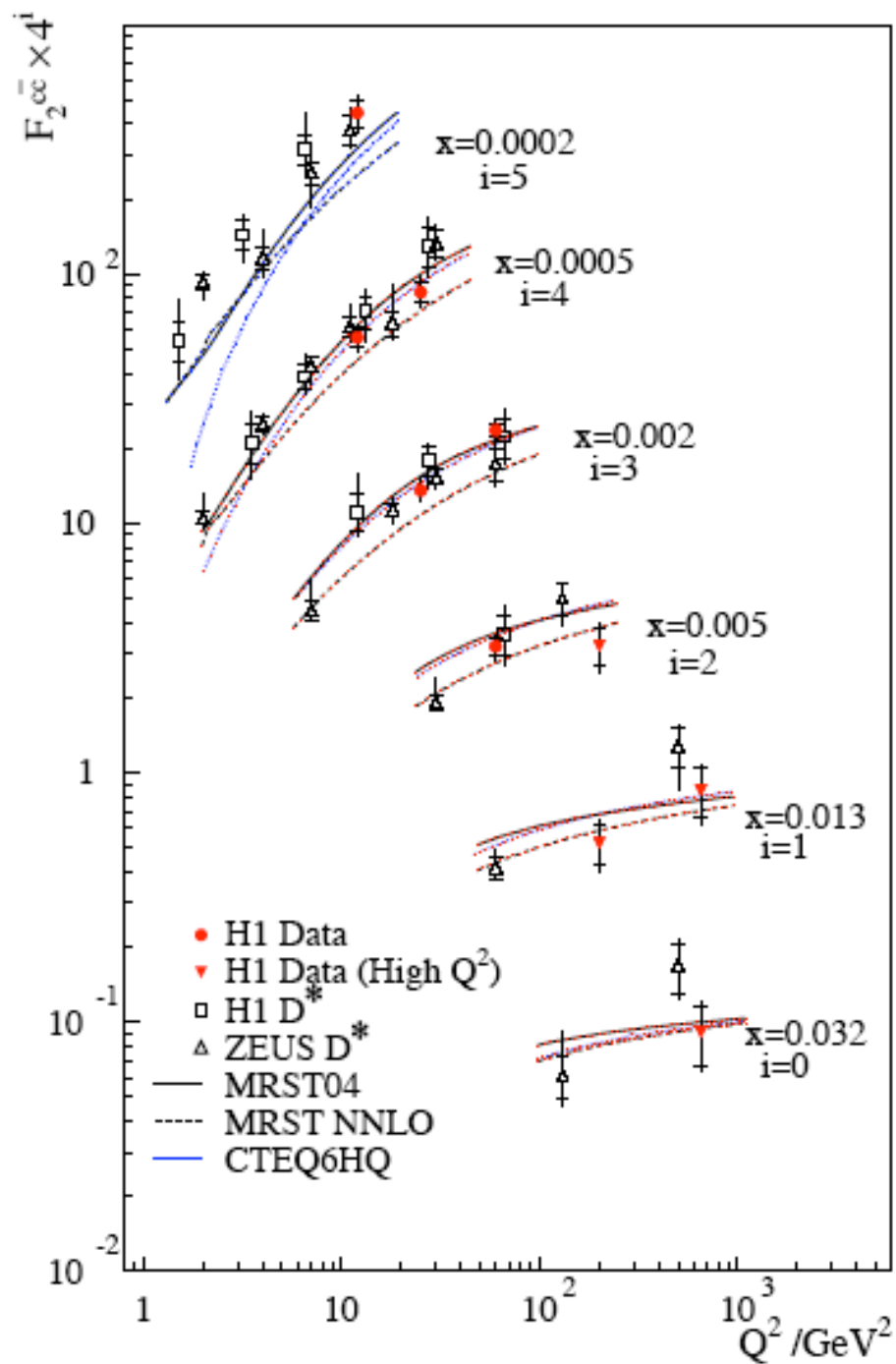
$0.1 < |Y| < 0.7$ $\int L = 1.04 \text{ fb}^{-1}$

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





charm



bottom

