

Figure 1: Lowest-order contributions to heavy-quark hadroproduction.

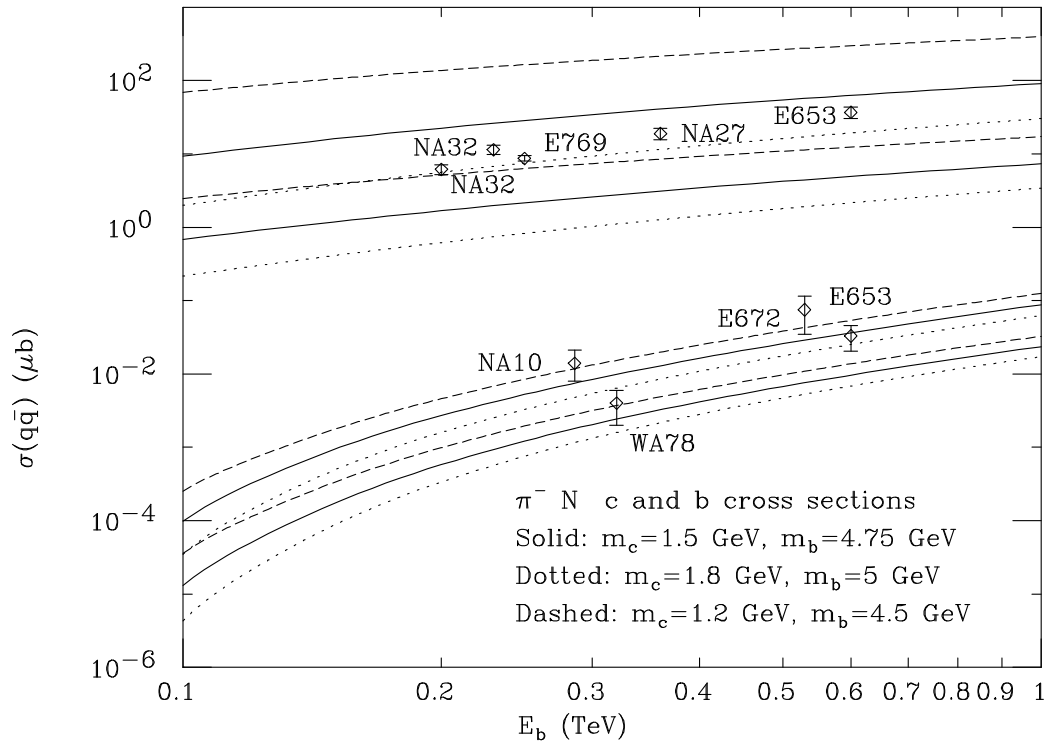


Figure 2: Cross sections for b and c production in πN collisions. For details see text (from ref. [8]).

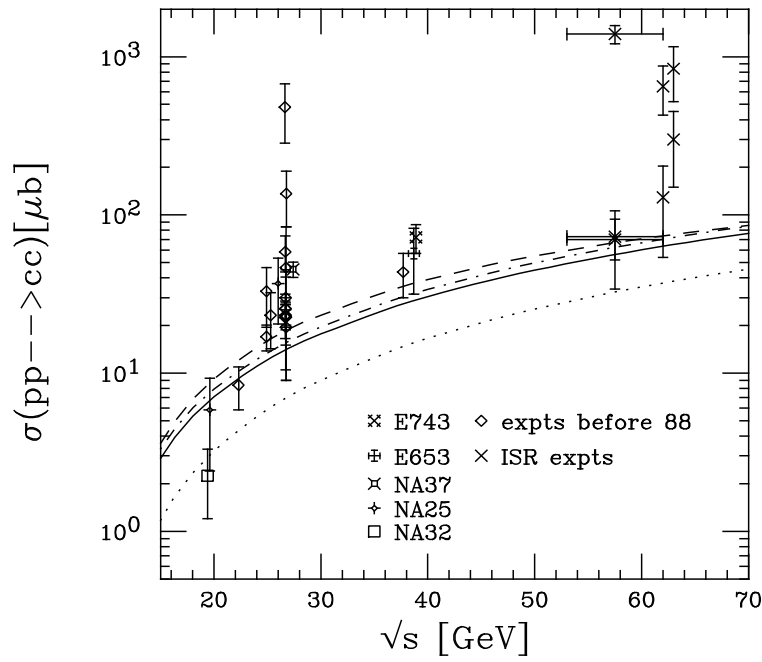


Figure 3: Total charm production cross sections from pp and pA measurements compared to calculations. The curves are: MRS $D-'$ $m_c = 1.2$ GeV, $\mu = 2m_c$ (solid); MRS $D0'$ $m_c = 1.2$ GeV, $\mu = 2m_c$ (dashed); GRV HO $m_c = 1.3$ GeV, $\mu = m_c$ (dot-dashed); GRV HO $m_c = 1.5$ GeV, $\mu = m_c$ (dotted) (from ref. [10]).

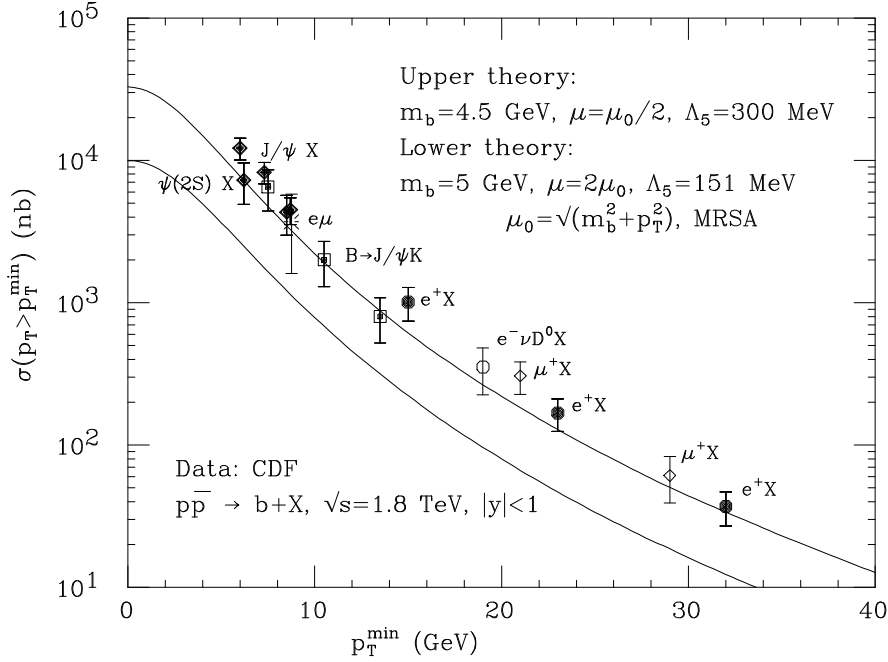


Figure 4: The b -quark cross sections at CDF. For details see text (from ref. [8]).

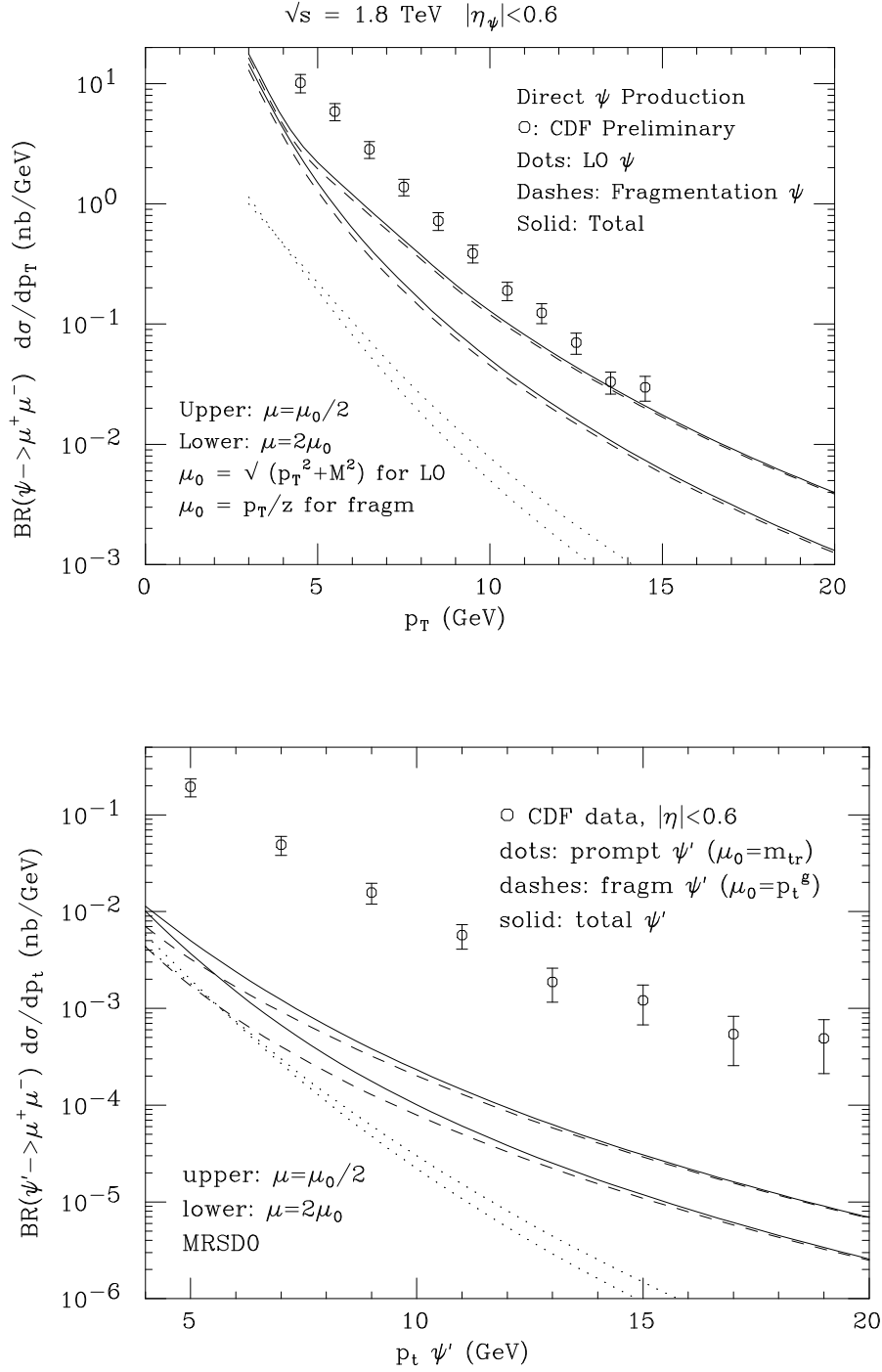


Figure 5: Preliminary CDF data for prompt J/ψ and ψ' production compared with theoretical predictions of the total fragmentation contribution (solid curves) and the total leading-order contribution (dashed curves) (from ref. [26]).

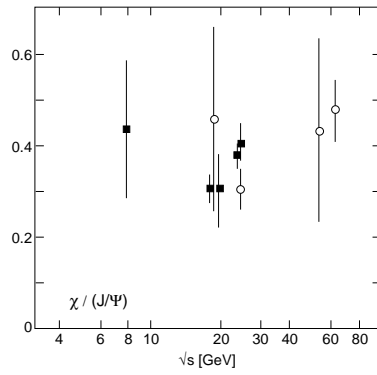


Figure 6: The ratio of $(\chi_{c1} + \chi_{c2}) \rightarrow J/\psi$ to total J/ψ production as a function of c.m. energy \sqrt{s} , by proton (open symbols) and pion beams (solid symbols) (from ref. [30]).

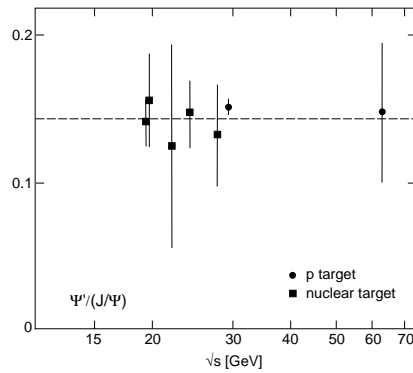


Figure 7: The ratio of ψ' to J/ψ production as a function of c.m. energy \sqrt{s} , on proton (circles) and nuclear targets (squares) (from ref. [30]).

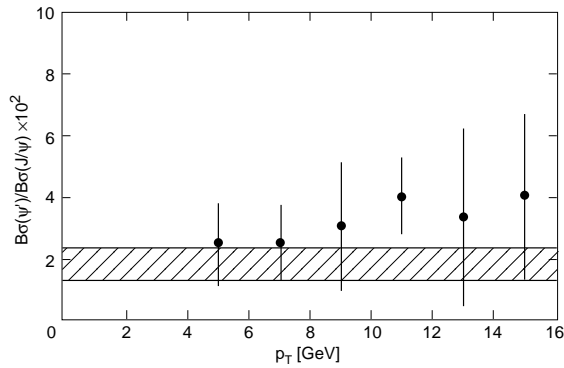


Figure 8: The ratio of ψ' to J/ψ production as a function of transverse momentum; the shaded strip shows the average value of Fig. 7 (from ref. [30]).

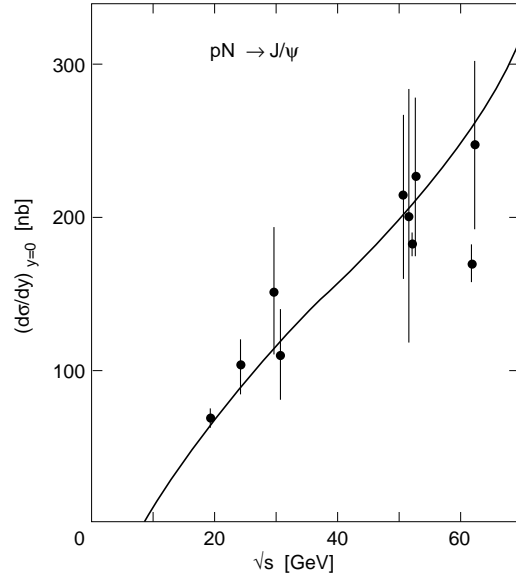


Figure 9: The differential J/ψ production cross section $(d\sigma[pN \rightarrow J/\psi X]/dy) = 2.5 \times 10^{-2} (d\tilde{\sigma}[c\bar{c}]/dy)$ at $y = 0$, calculated with MRS D-' PDF, compared with data (from ref. [30]).

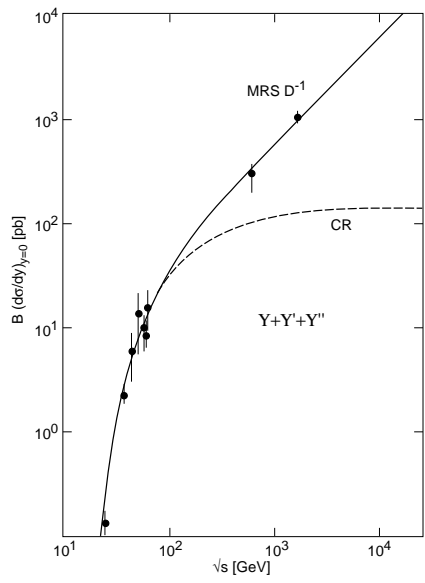


Figure 10: Energy dependence of Υ production in pN collisions using the MRS D-' PDF. Also shown (CR) is a phenomenological low-energy fit (from ref. [30]).

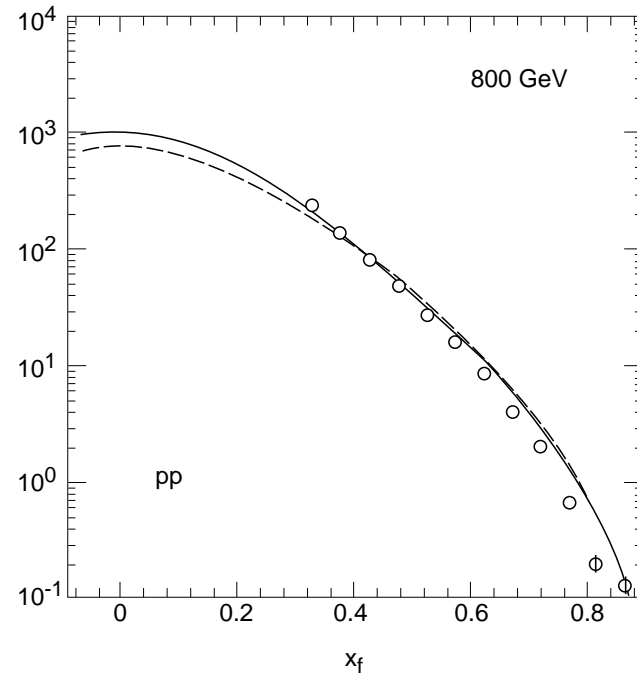
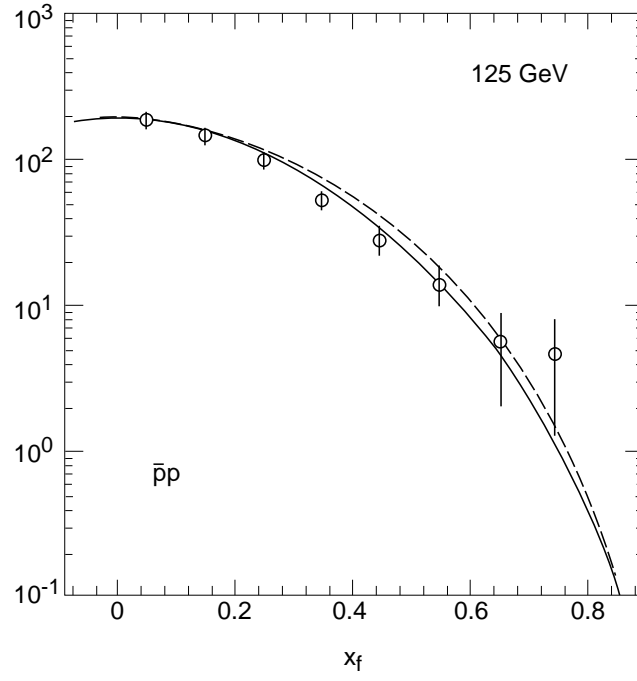


Figure 11: The J/ψ longitudinal momentum distributions compared with $\bar{p}N$ (top) and pN (bottom) data using two parametrizations of the PDF, MRS D' (solid) and GRV (dashed) (from ref. [30]).