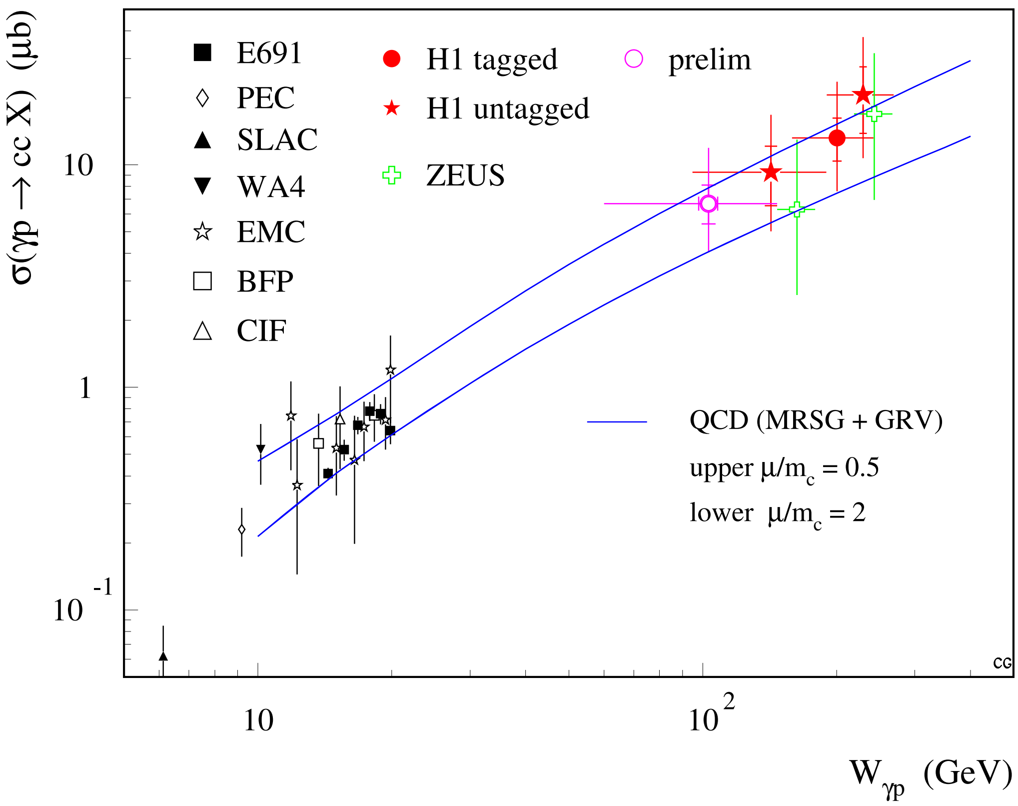
Photoproduction - $\sigma(\gamma p \to c\bar{c}X)(W_{\gamma p})$

Comparison of H1 and ZEUS results with previous fixed-target experiments and with prediction of massive NLO pQCD .



- cross section rises steeply with $W_{\gamma p}$, due to increase of $g(x)$ at small x
- measurements agree satisfactorily with massive NLO pQCD calculation (FMNR), using a single set of input parameters
- comparison is not very conclusive due to large uncertainties
  - ▷ HERA data require large extrapolations to the full rapidity and transverse momentum range ($\mathcal{O}(10)$)
  - ▷ theory depends strongly on structure functions, charm quark mass, QCD scales (band indicates factor 4 range in μ)