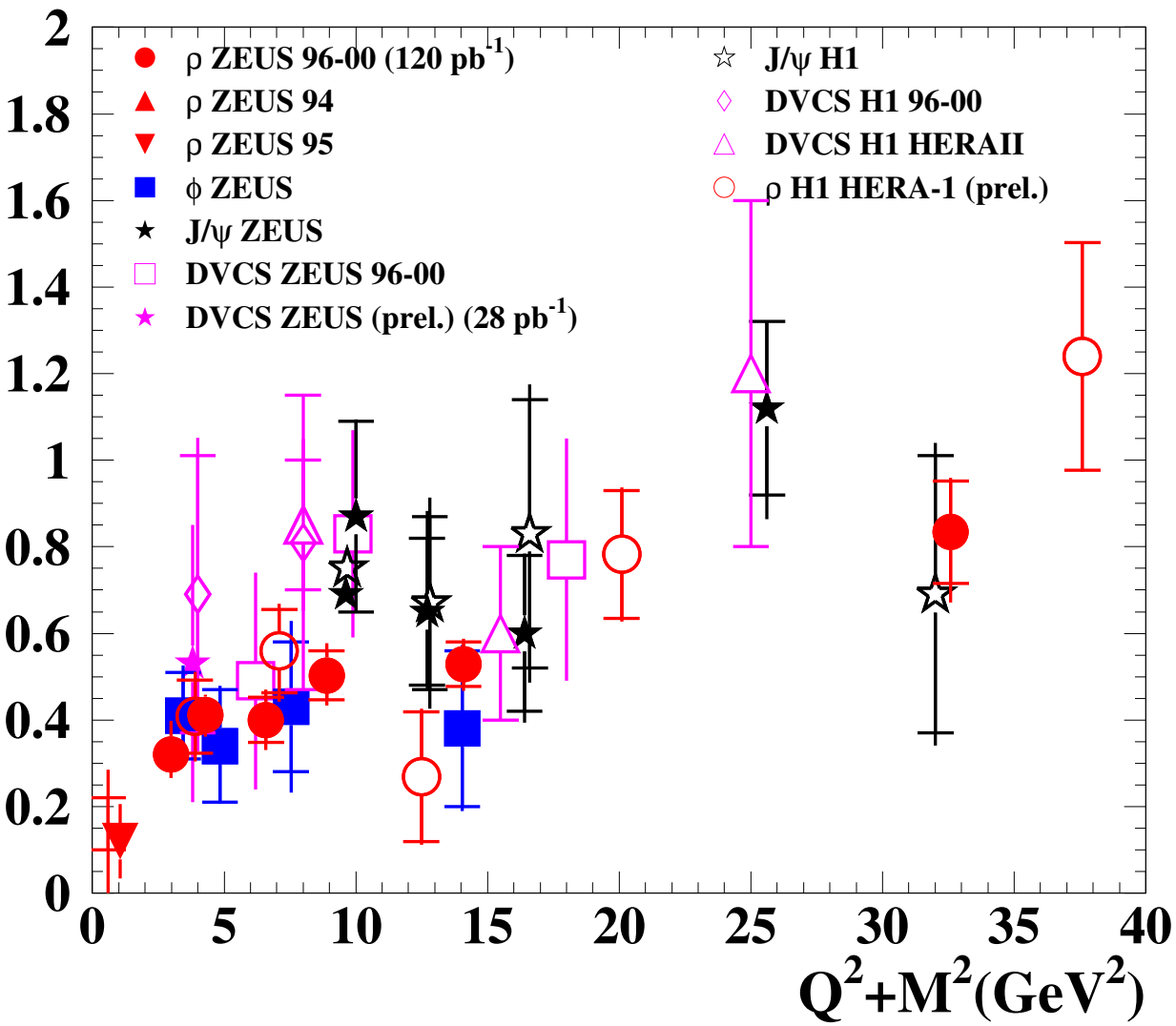
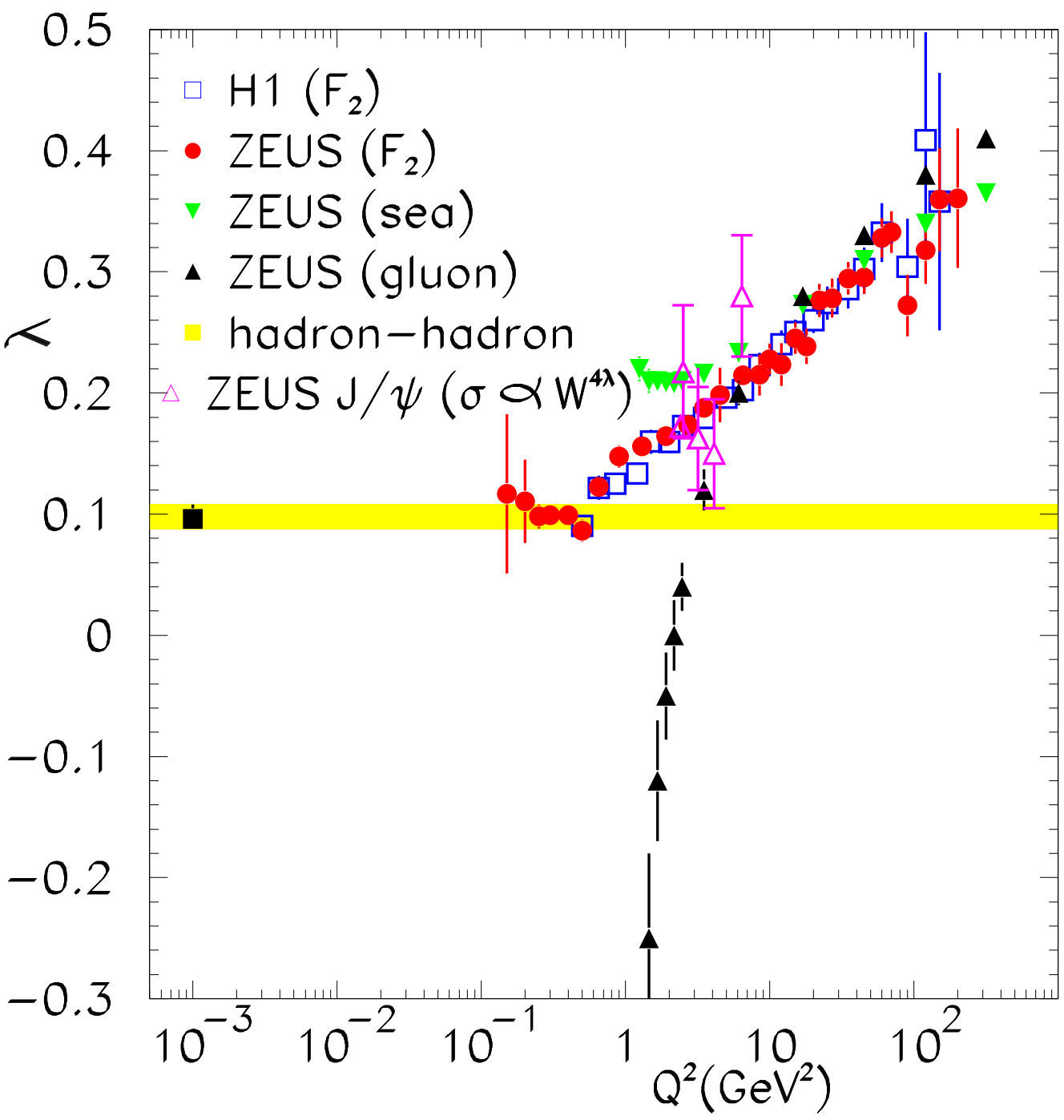
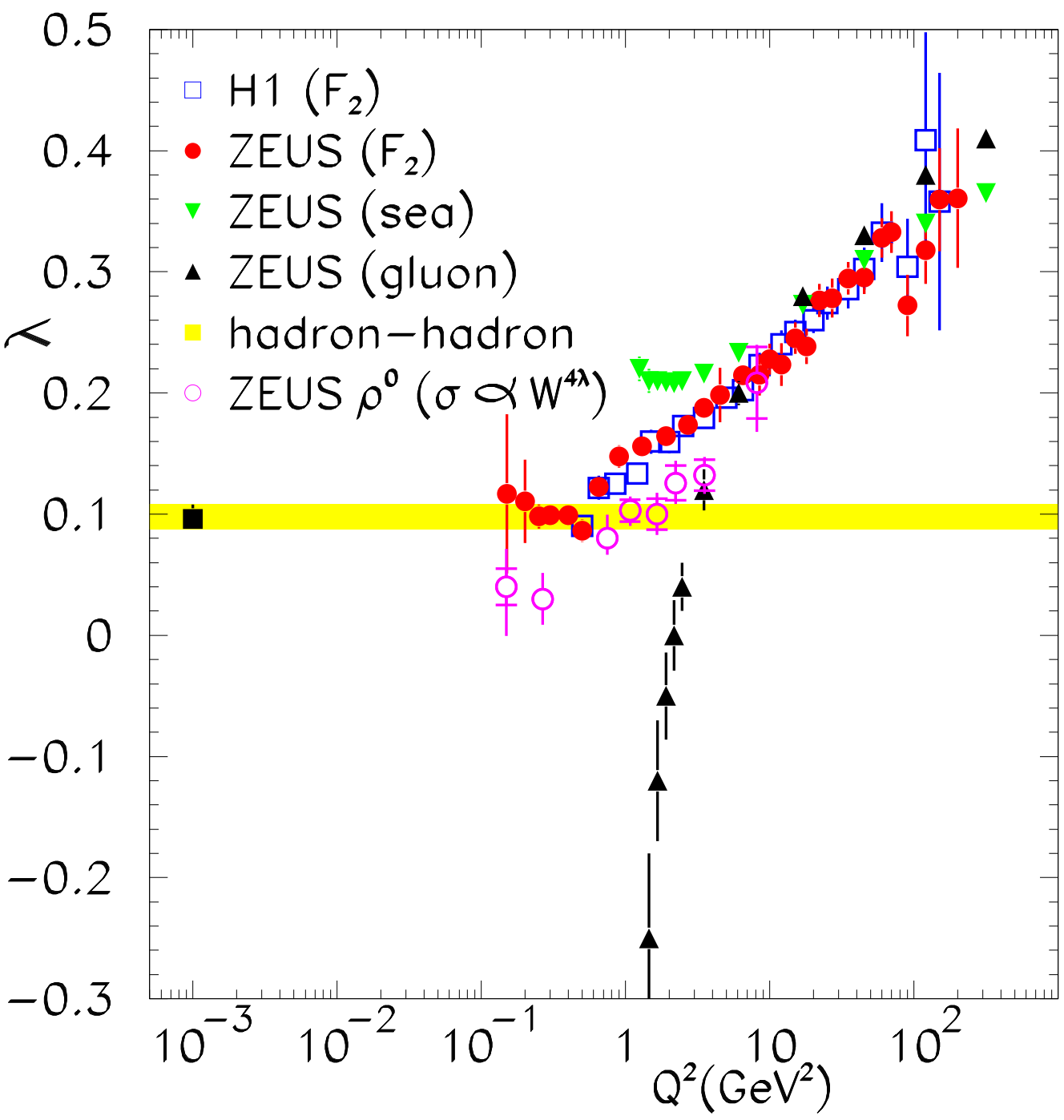
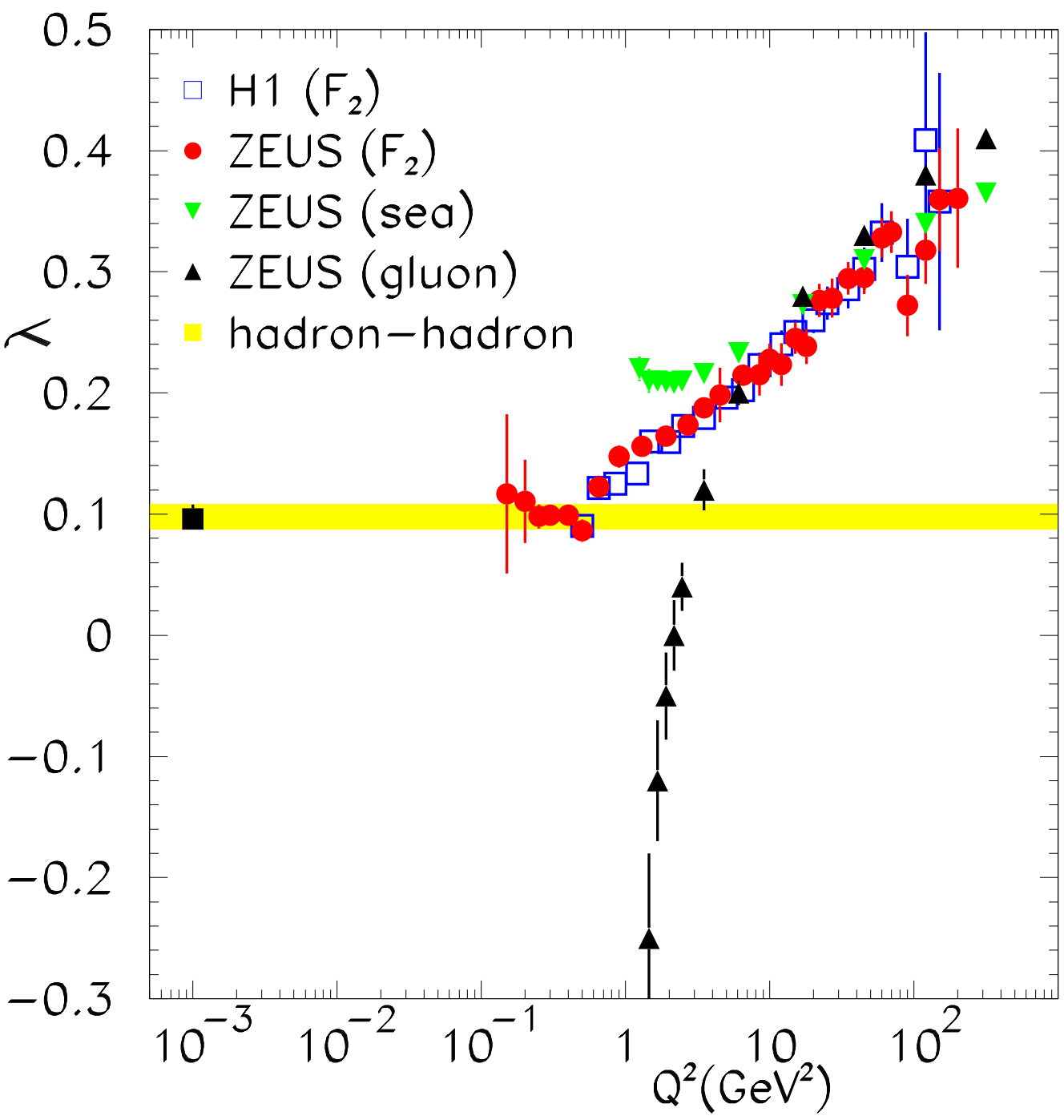
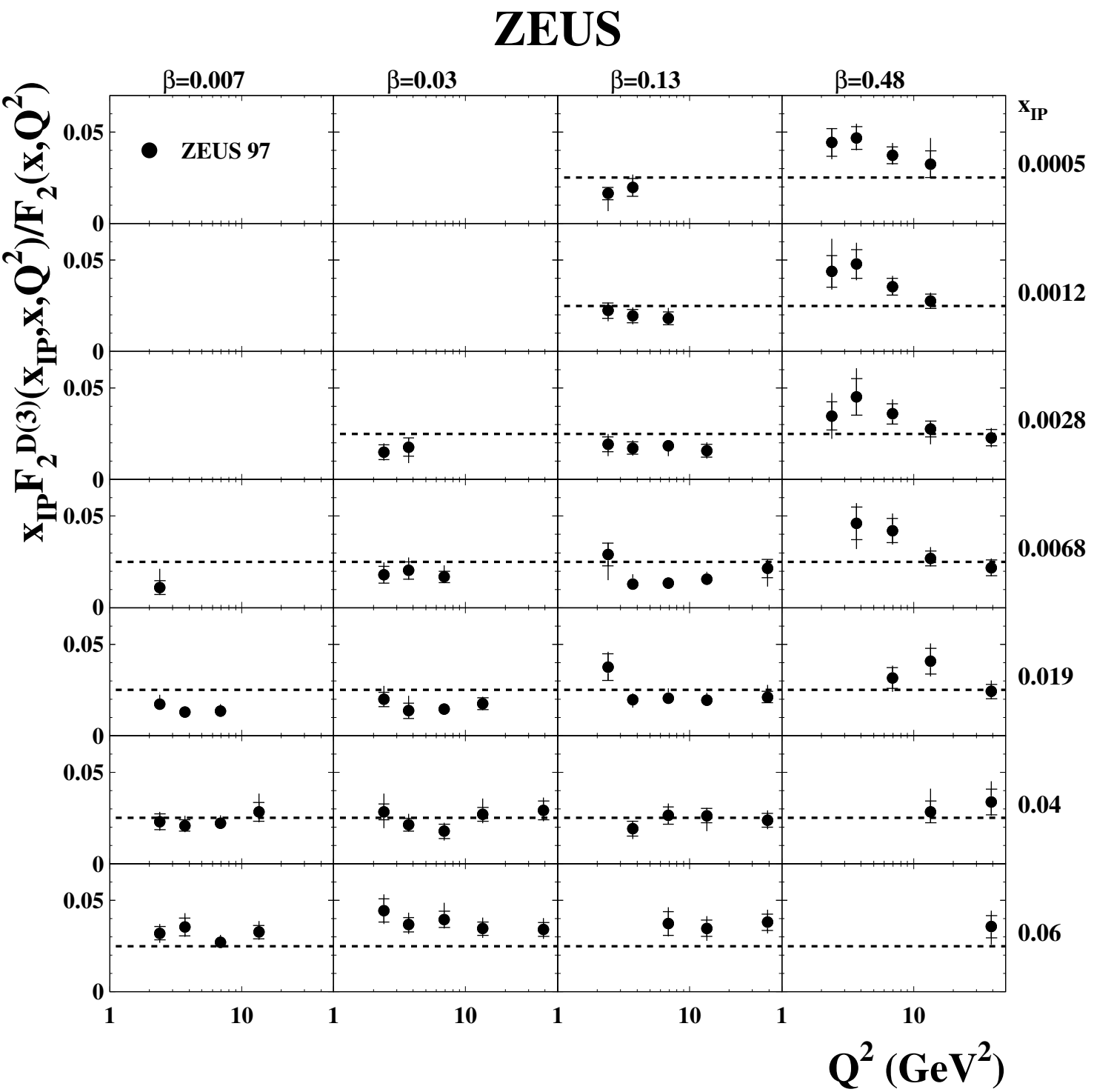
arXiv:0905.2034v2 [hep-ex] 26 May 2009 fig

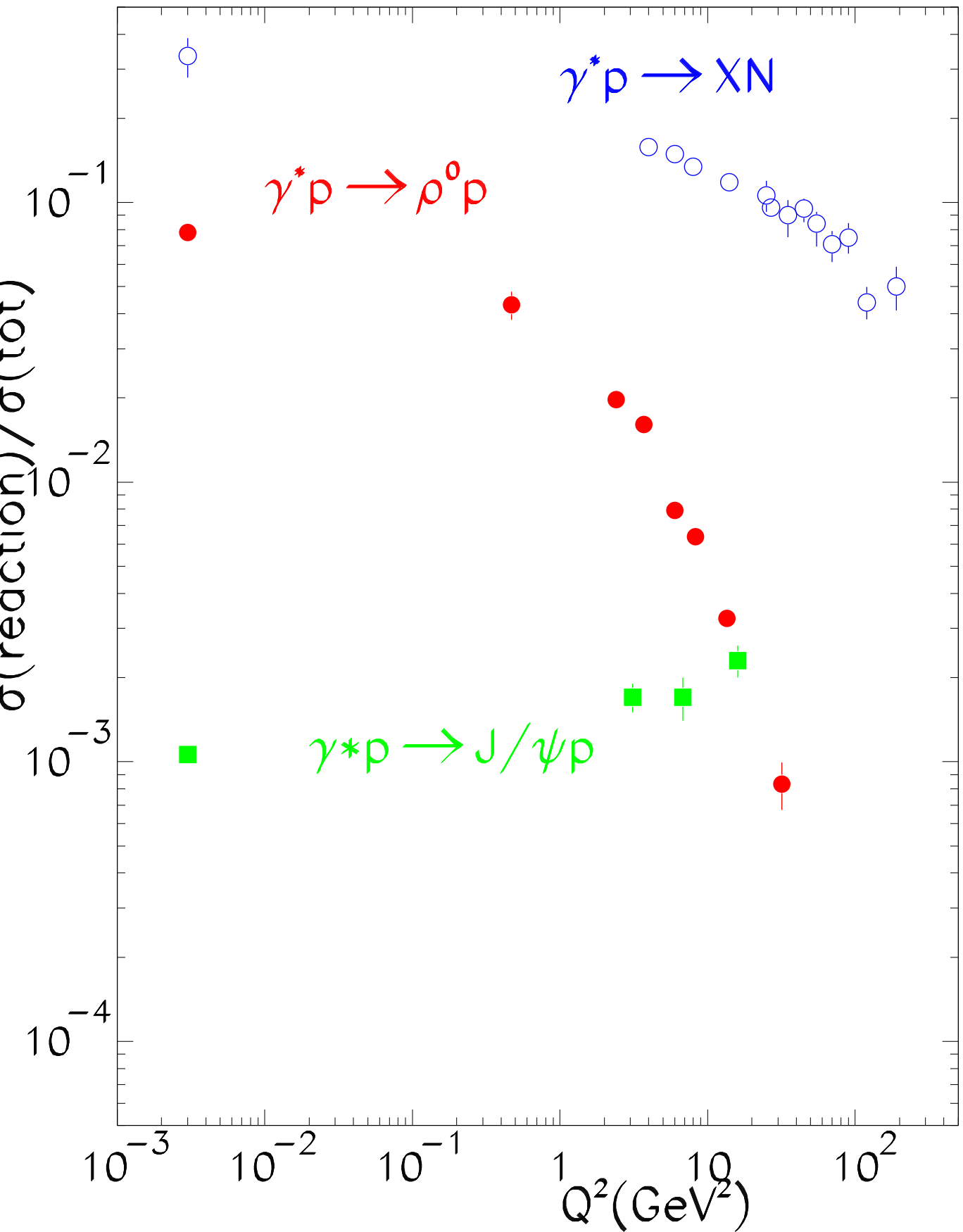


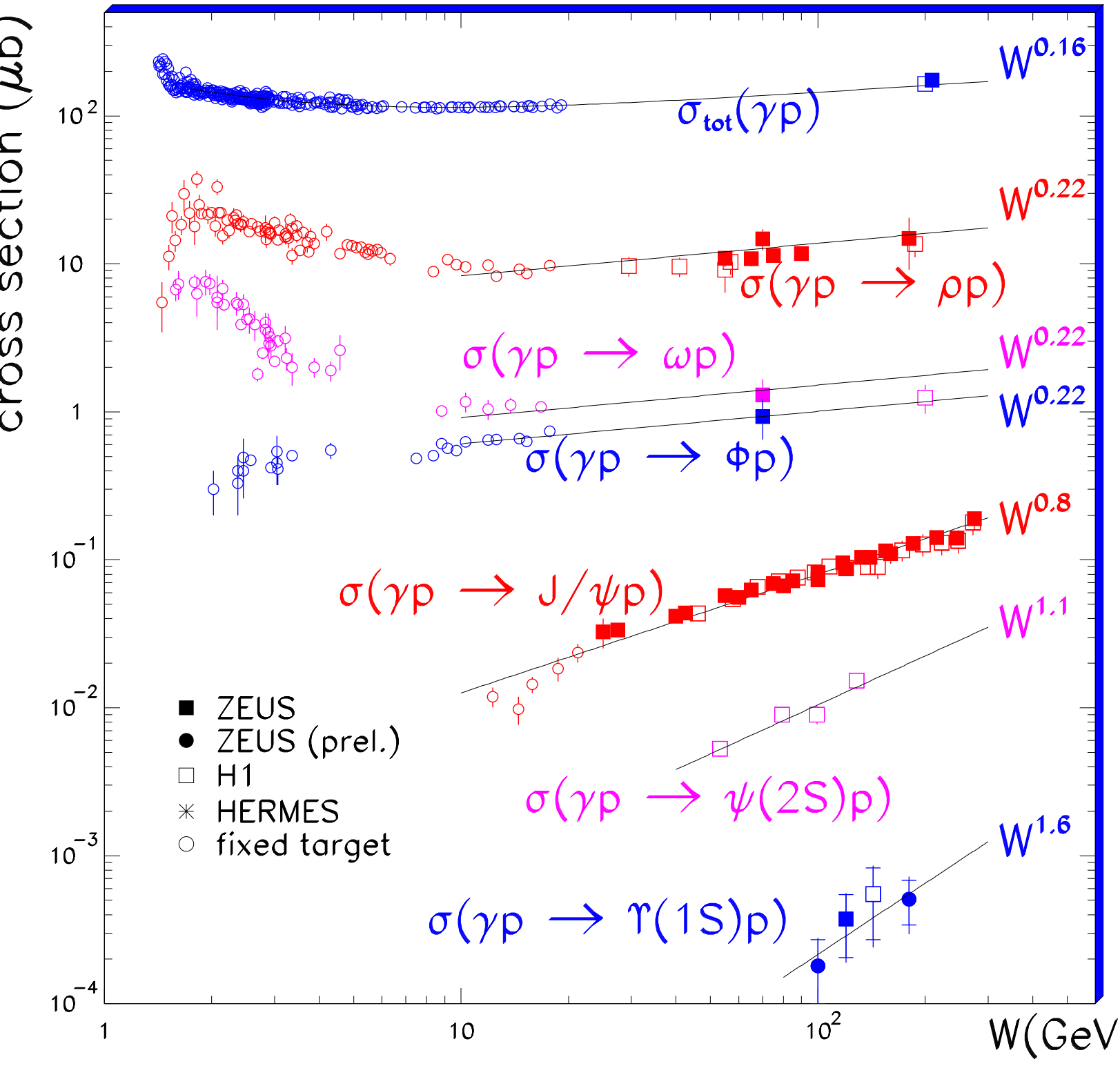

H1 (F_2)
ZEUS (F_2)
ZEUS (sea)
ZEUS (gluon)
hadron−hadron
ZEUS J/ψ ($\sigma \propto W^{4\lambda}$)
λ
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
10^{-3}
10^{-2}
10^{-1}
1
10
10^{2}
$Q^2(\mathrm{GeV}^2)$

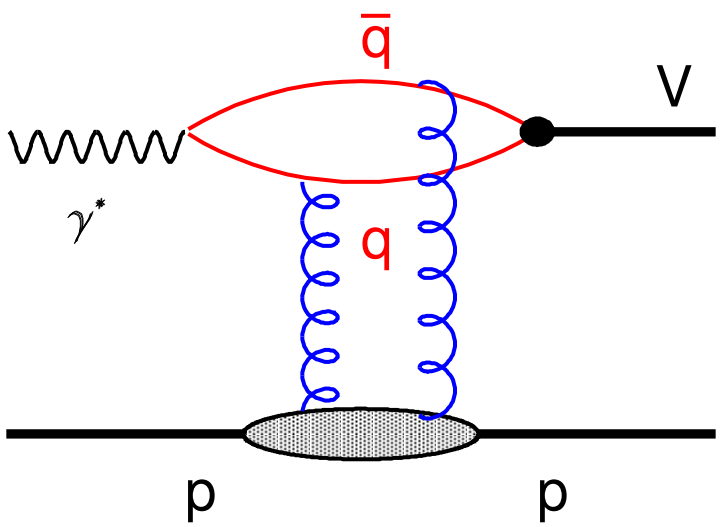

H1 (F_2)
ZEUS (F_2)
ZEUS (sea)
ZEUS (gluon)
hadron−hadron
ZEUS ρ^0 ($\sigma \propto W^{4\lambda}$)
λ
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
10^{-3}
10^{-2}
10^{-1}
1
10
10^2
$Q^2(\mathrm{GeV}^2)$


H1 (F_2)
ZEUS (F_2)
ZEUS (sea)
ZEUS (gluon)
hadron−hadron
λ
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
10^{-3}
10^{-2}
10^{-1}
1
10
10^{2}
$Q^2(GeV^2)$


ZEUS
β=0.007
β=0.03
β=0.13
β=0.48
x_{IP}
ZEUS 97
0.0005
0.0012
0.0028
0.0068
0.019
0.04
0.06
$x_{IP}F_2^{D(3)}(x_{IP},x,Q^2)/F_2(x,Q^2)$
Q^2 (GeV^2)


$\gamma^* p \rightarrow XN$
$\gamma^* p \rightarrow \rho^0 p$
$\gamma * p \rightarrow J/\psi p$
$\sigma(\text{reaction})/\sigma(\text{tot})$
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
1
10
10^{2}
$Q^2(\text{GeV}^2)$


cross section (μb)
10^2
10
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
1
10
10^2
W(GeV)
$\sigma_{tot}(\gamma p)$
$W^{0.16}$
$\sigma(\gamma p \rightarrow \rho p)$
$W^{0.22}$
$\sigma(\gamma p \rightarrow \omega p)$
$W^{0.22}$
$\sigma(\gamma p \rightarrow \phi p)$
$W^{0.22}$
$\sigma(\gamma p \rightarrow J/\psi p)$
$W^{0.8}$
$\sigma(\gamma p \rightarrow \psi(2S)p)$
$W^{1.1}$
$\sigma(\gamma p \rightarrow \Upsilon(1S)p)$
$W^{1.6}$
ZEUS
ZEUS (prel.)
H1
HERMES
fixed target


q̄
V
γ*
q
p
p