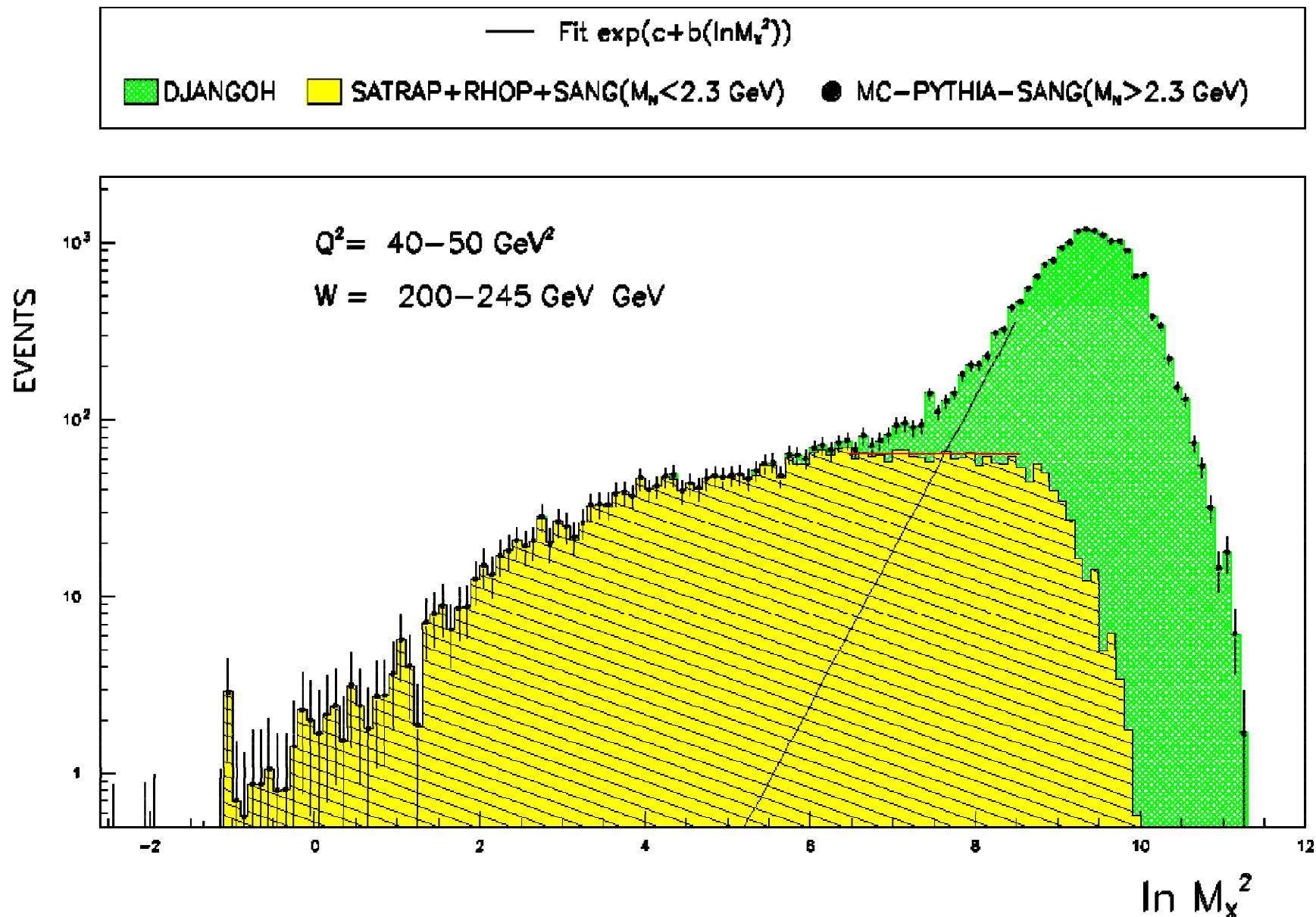
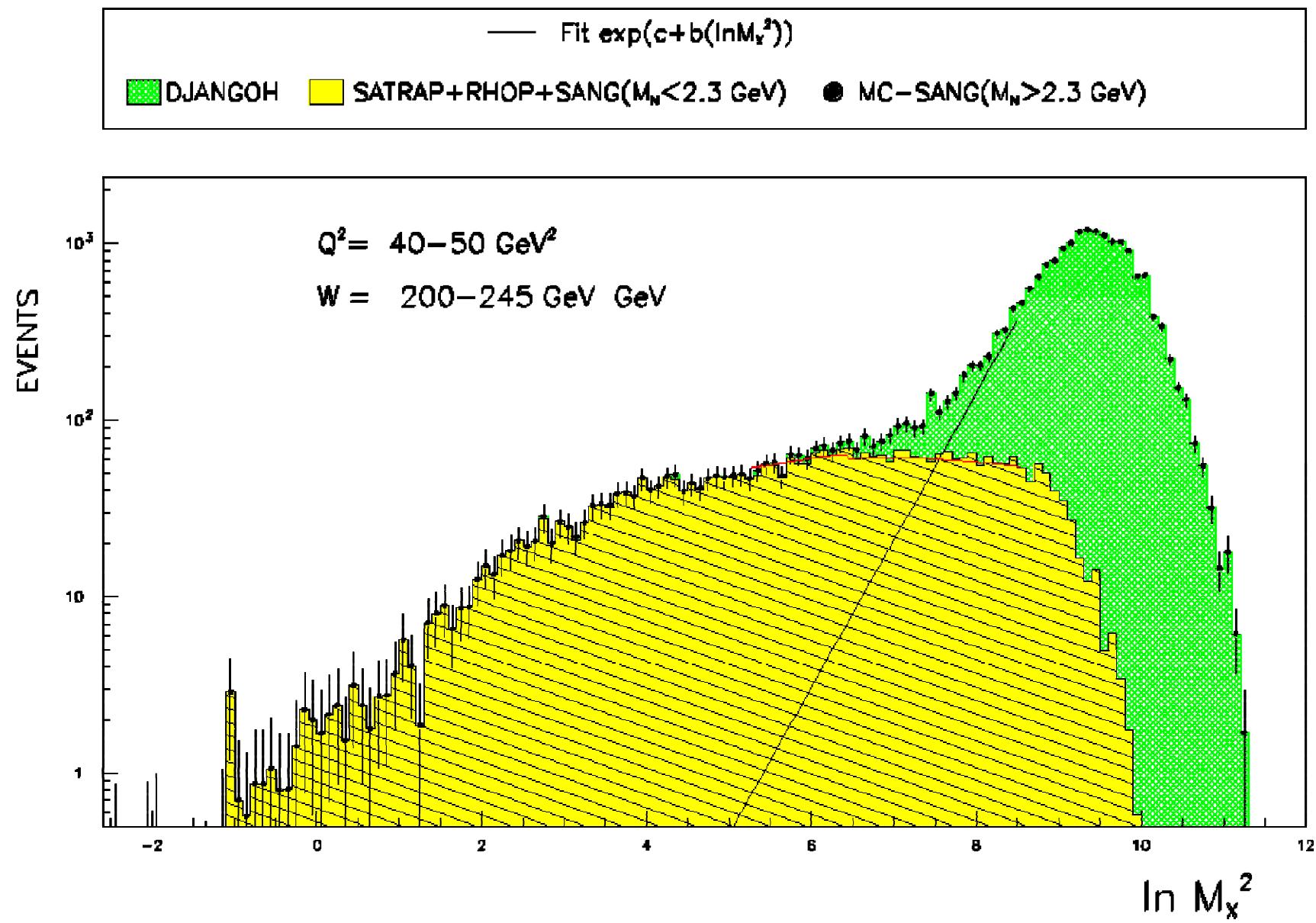
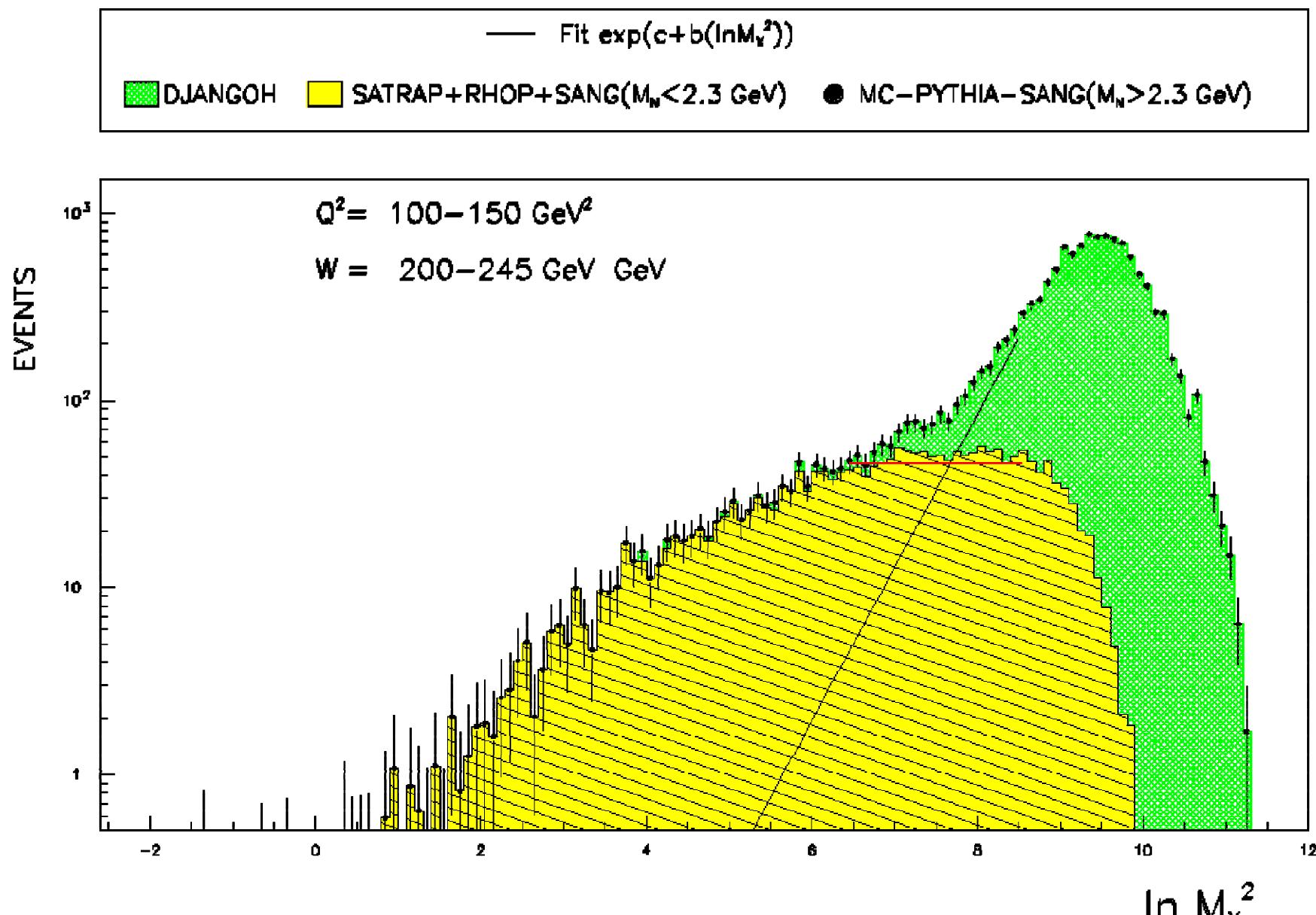
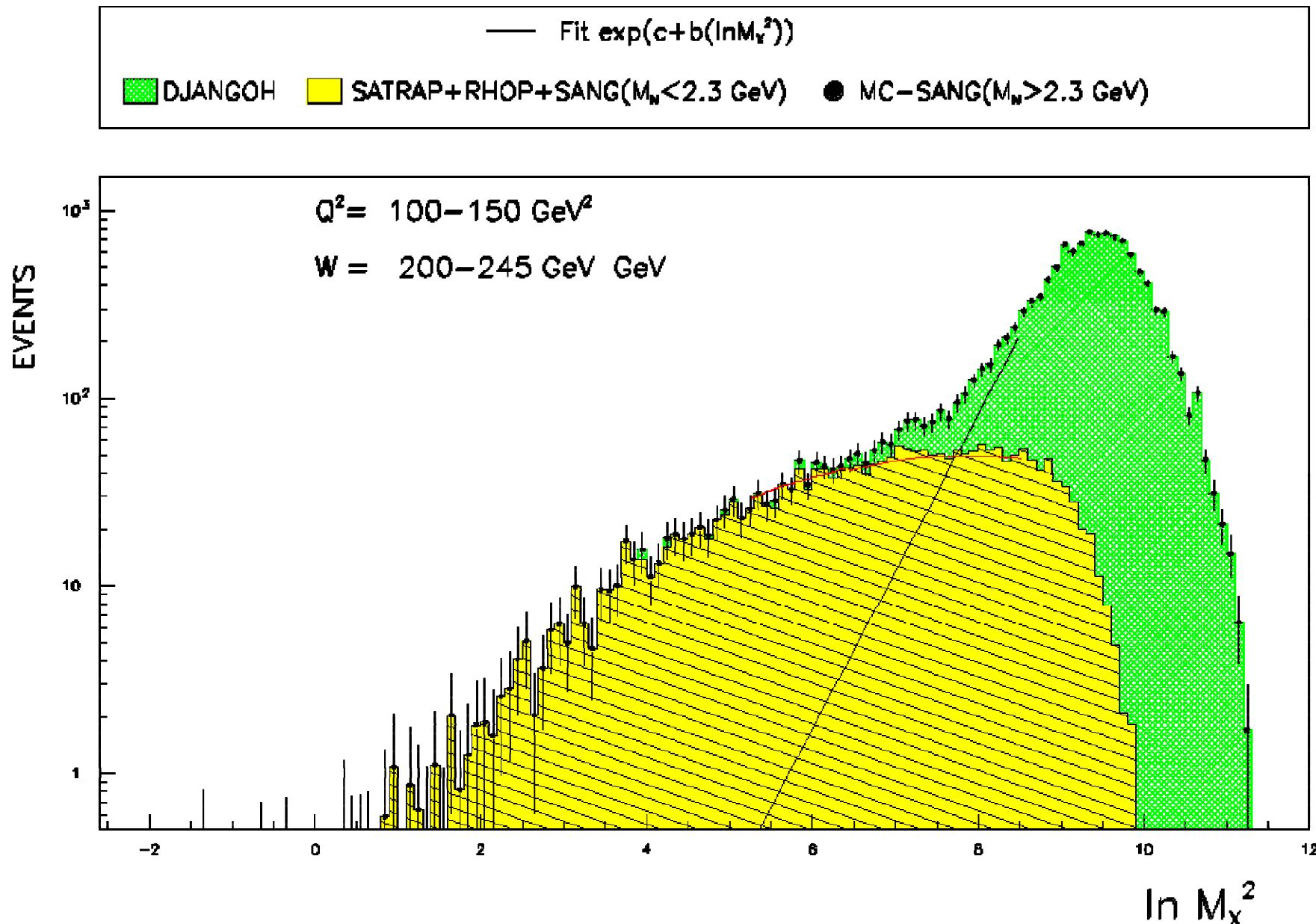


Additional Material







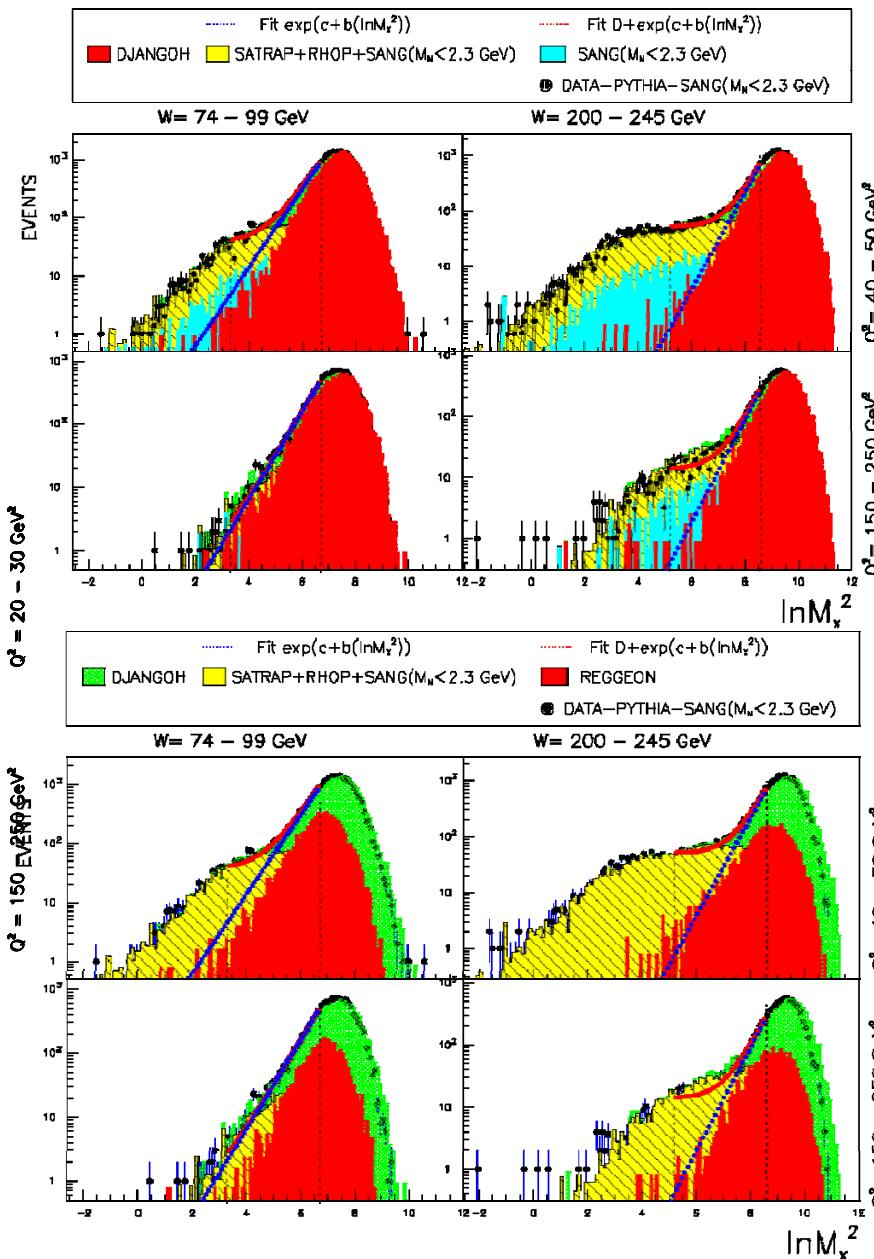
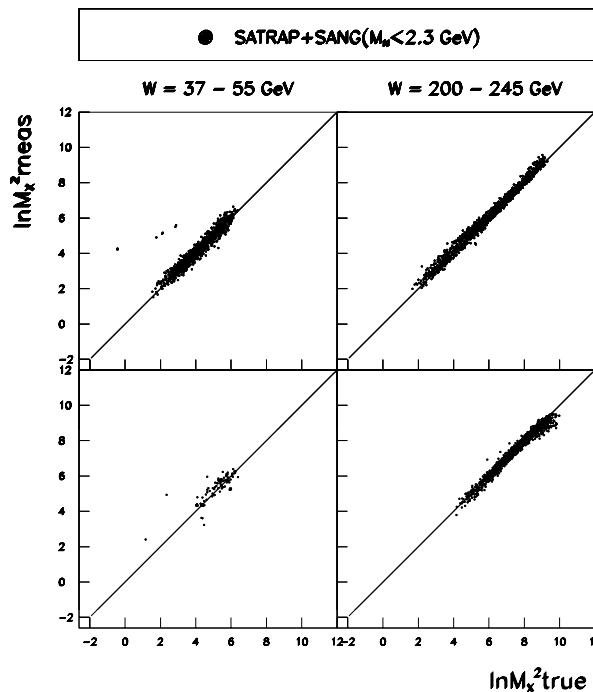




The ZEUS M_x -Analysis II



Demonstration that M_x can be measured reliably

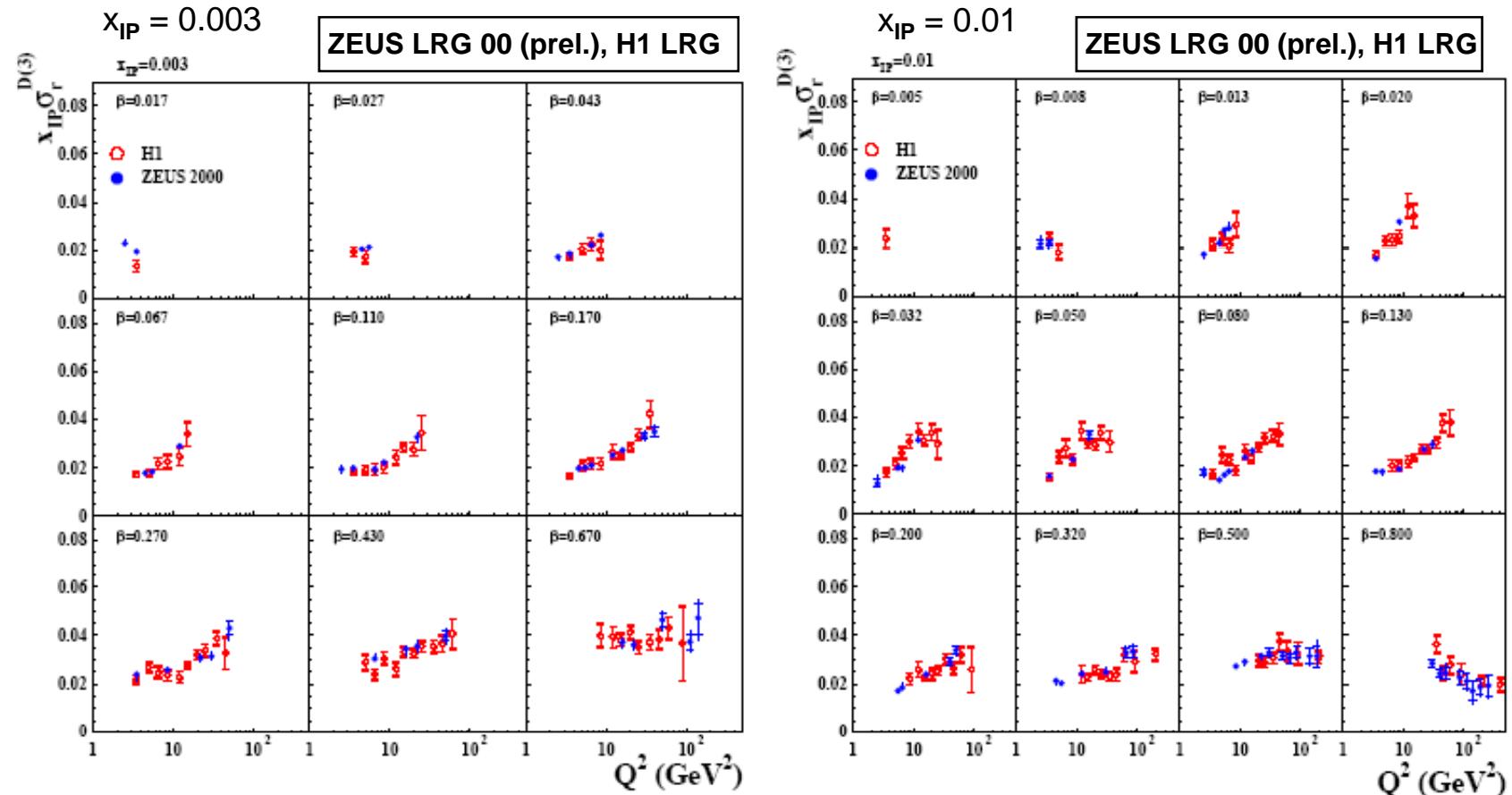


Nondiffractive contribution from DJANGOH has logarithmic slope

Nondiffractive contribution from REGGEON exchange has logarithmic slope



Comparison of Results from ZEUS LRG 00 with H1 LRG



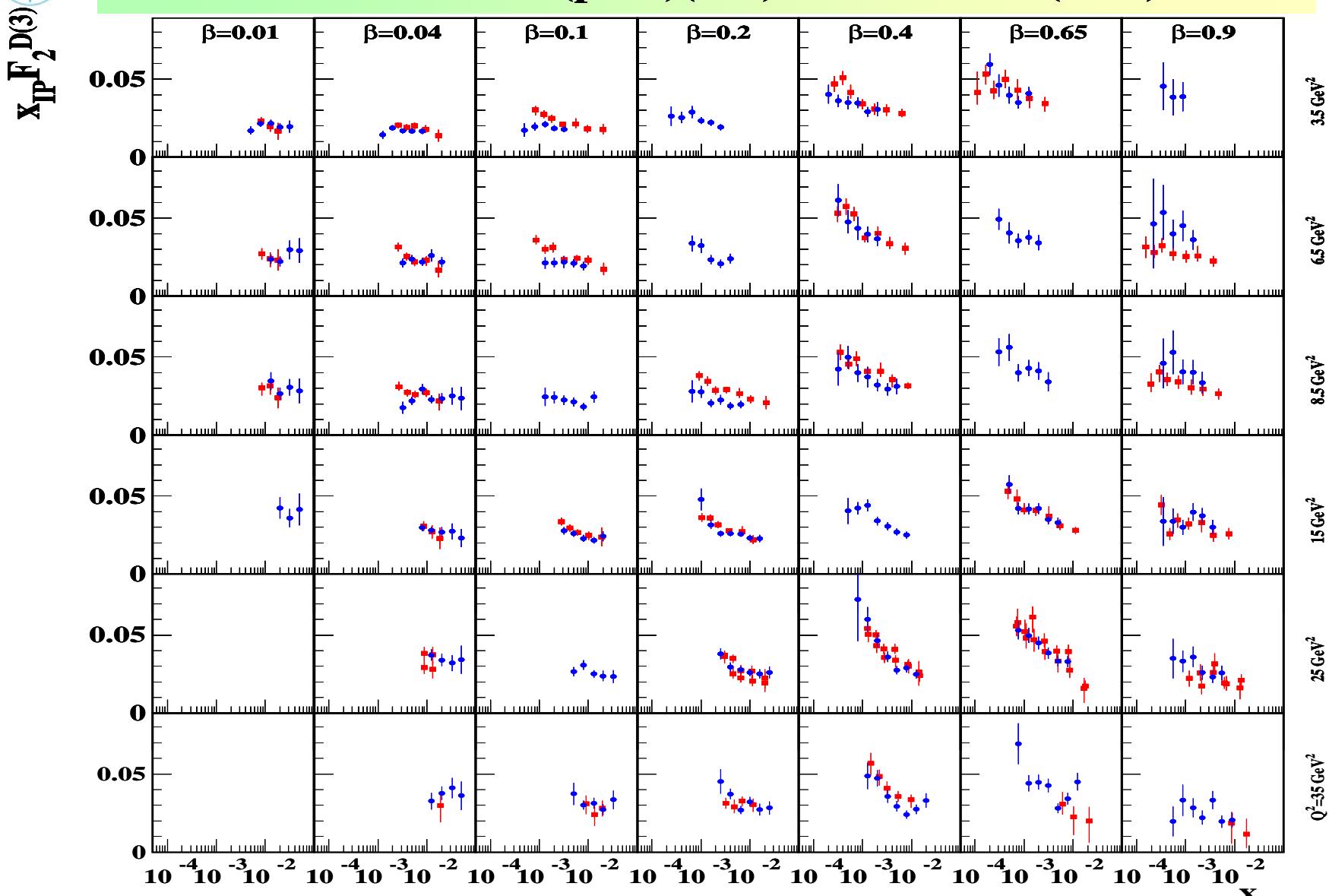
The ZEUS LRG 00 data are normalized to the H1 LRG data



2007/03/12 09.51

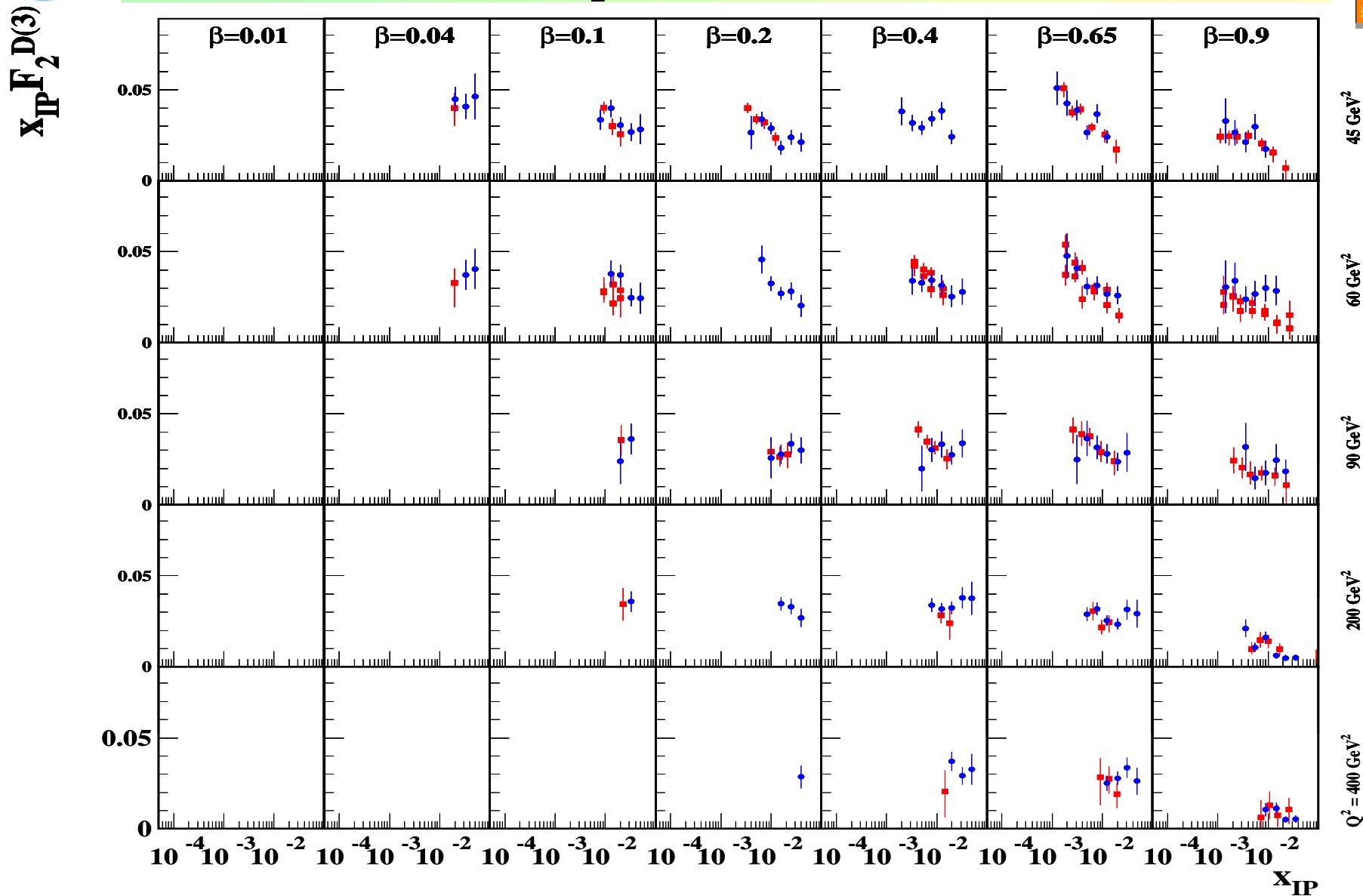


ZEUS MxI+MxII(prel.)(red) and H1 LRG(blue)



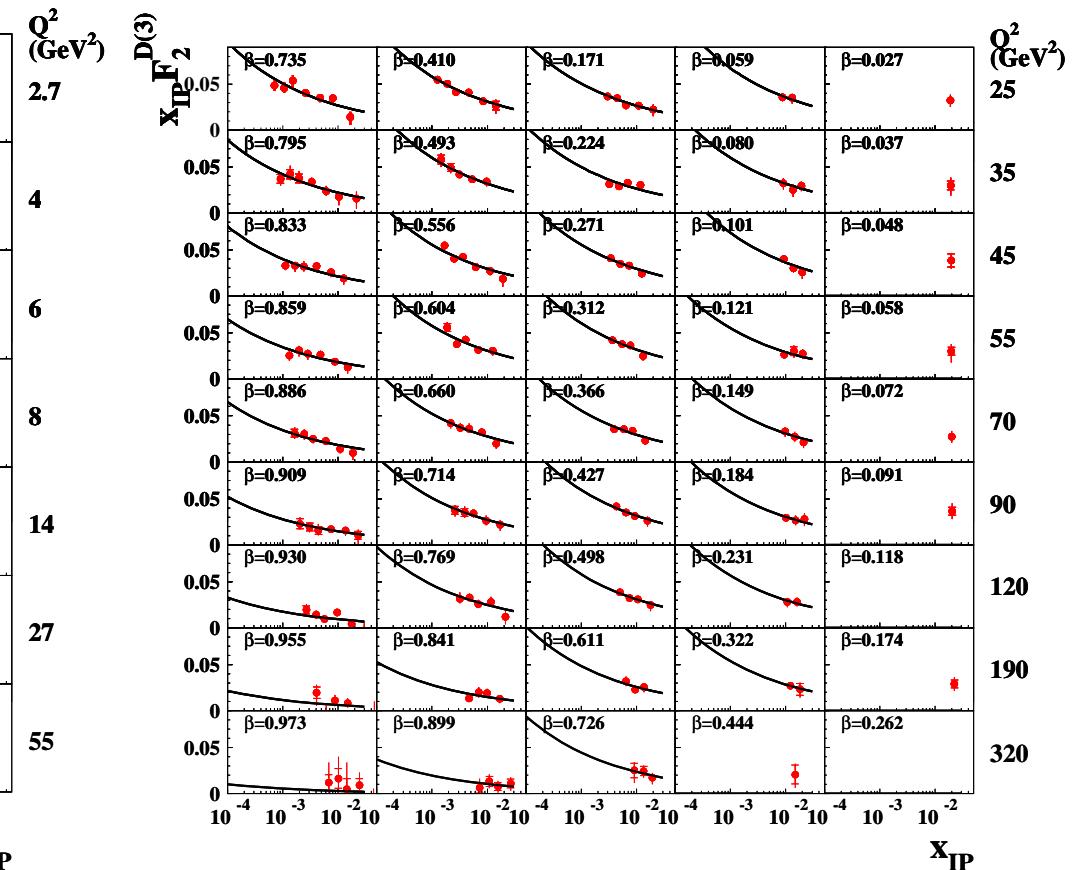
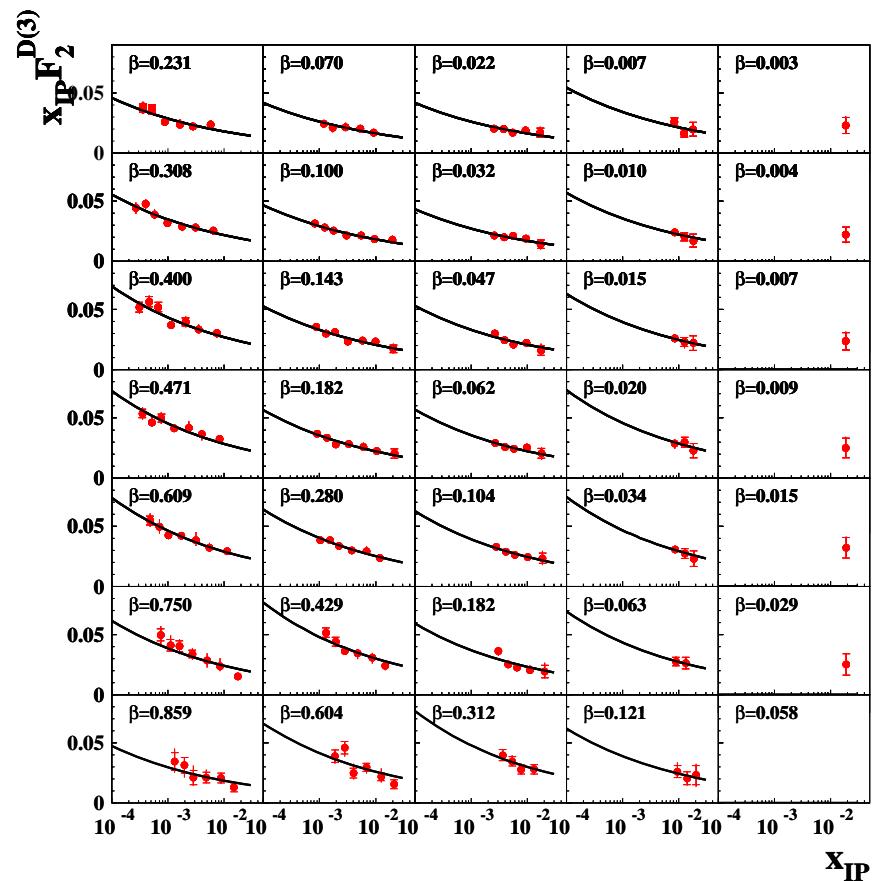
ZEUS points transported to H1 binning with BEKW-fit, only if correction < 1.3

 x_{IP}

ZEUS MxI+MxII(prel.)(red) and H1 LRG(blue)




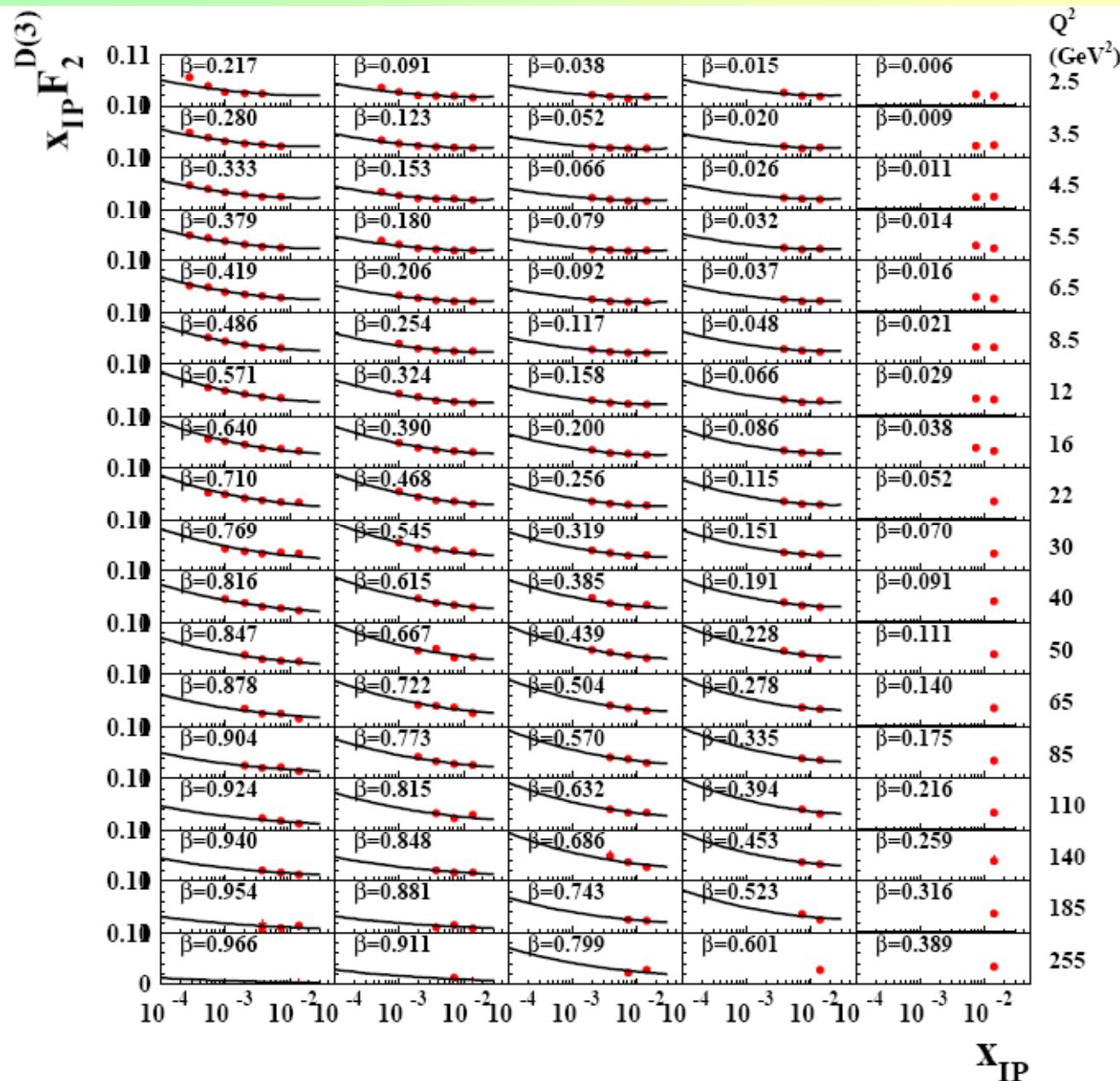
Regge-Fit to LRG compared with M_x -Data



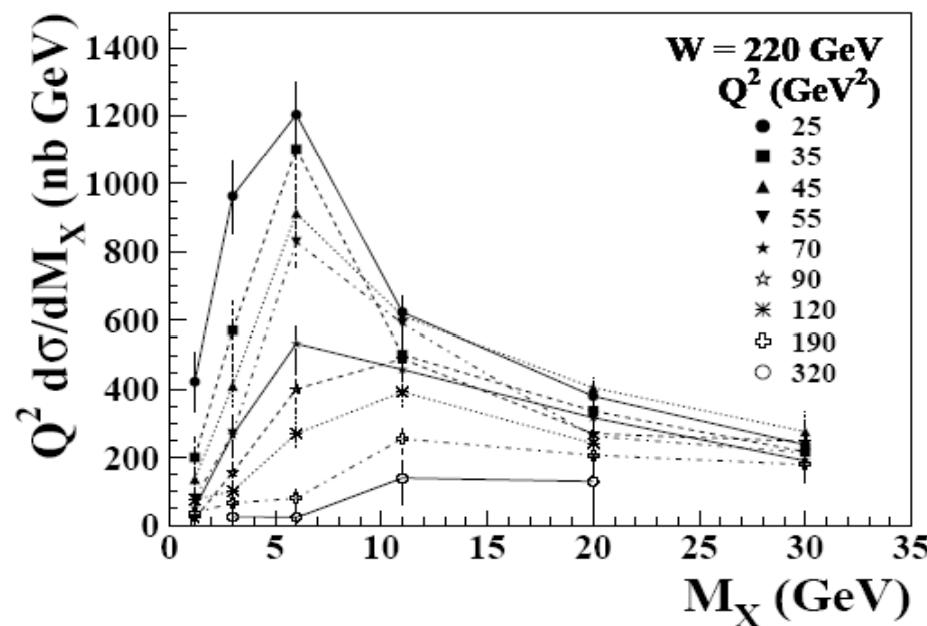
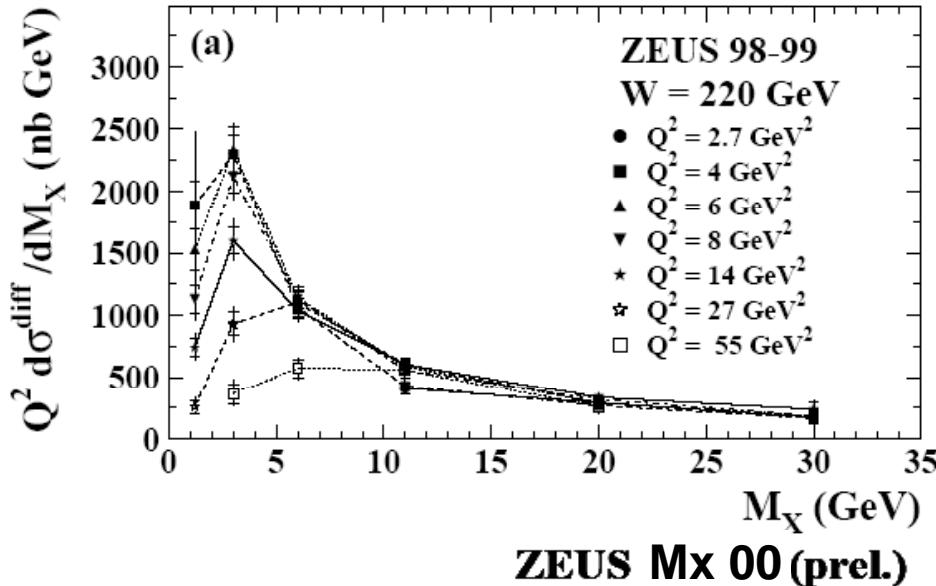
The fit curve is the Pomeron contribution from the Regge-Fit to the LRG data



Regge-Fit to LRG Data



ZEUS M_x 89-99



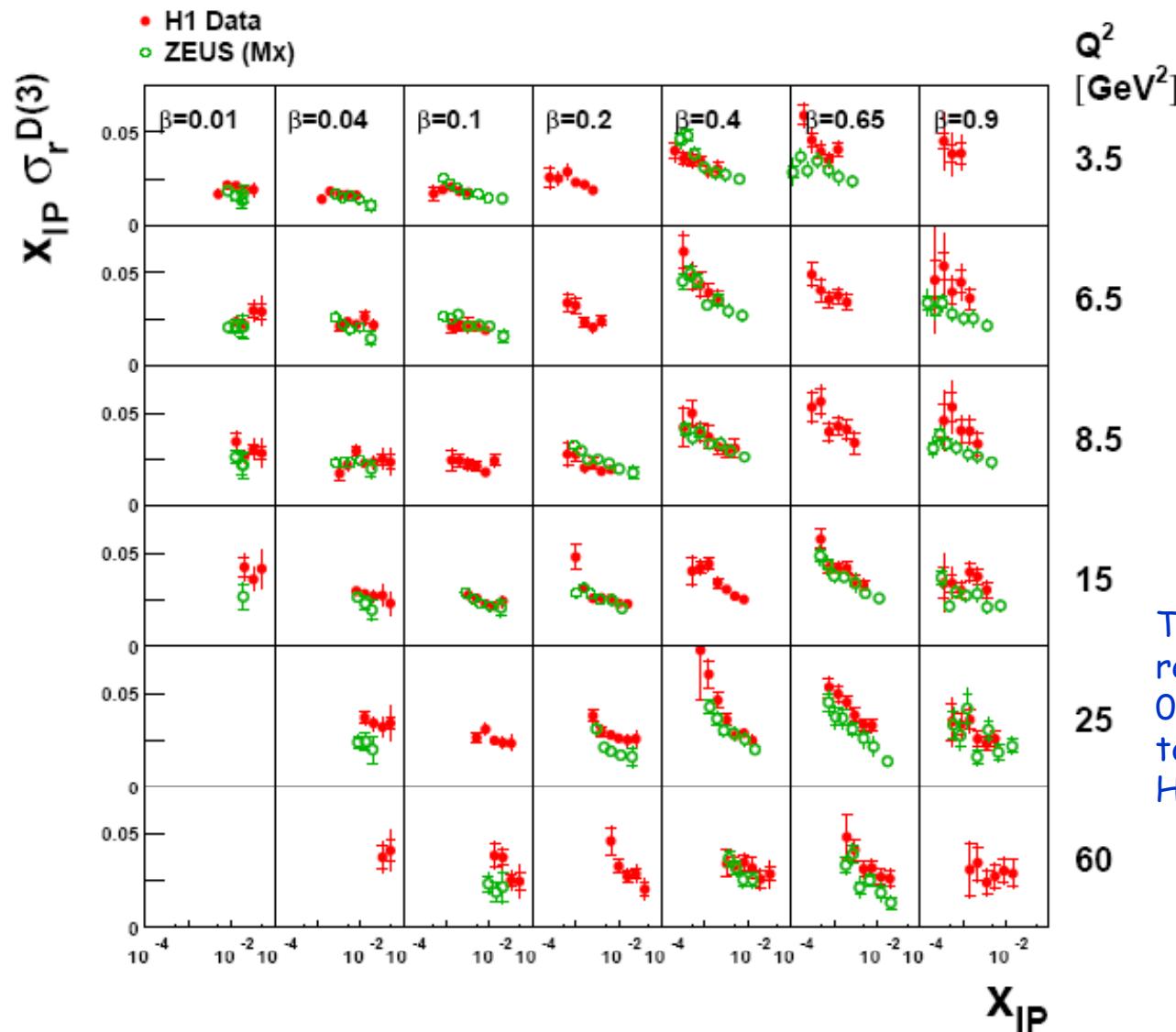
$Q^2 d\sigma/dM_x$ shows a rapid variation with Q^2 at low M_x .

$Q^2 d\sigma/dM_x$ tends towards a common value at higher M_x .

This kind of scaling behaviour is reached only at higher M_x for higher Q^2 when M_x^2 becomes of the order of Q^2 .



Comparison of M_x - Results from H1 and ZEUS



- H1 M_x data 2006
- ZEUS M_x I data 2005

The ZEUS data have been renormalized by a factor 0.86 so that they correspond to $M_N=1.6$ GeV as for the H1 data