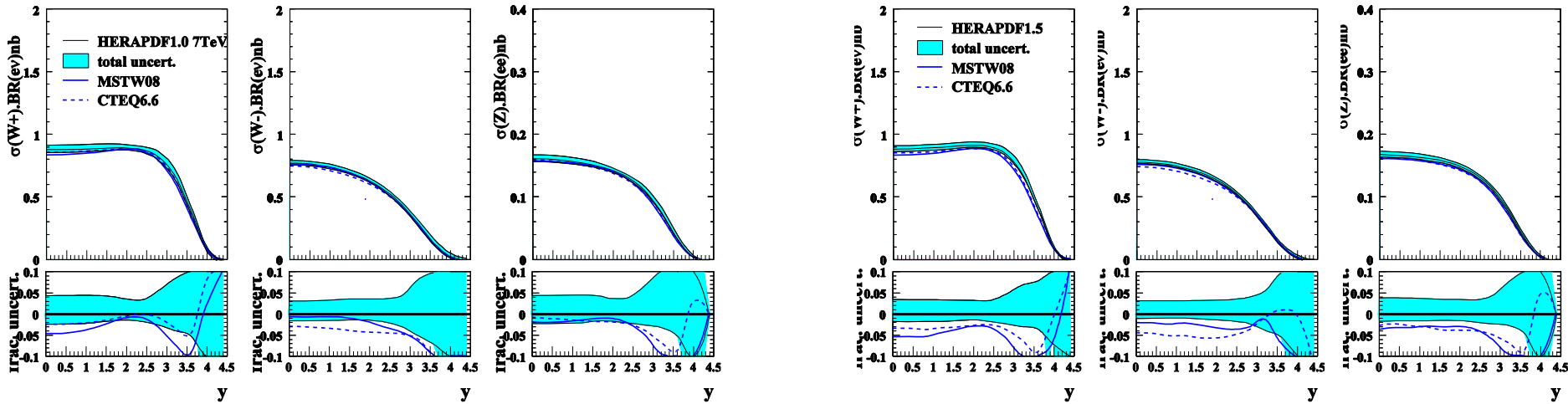
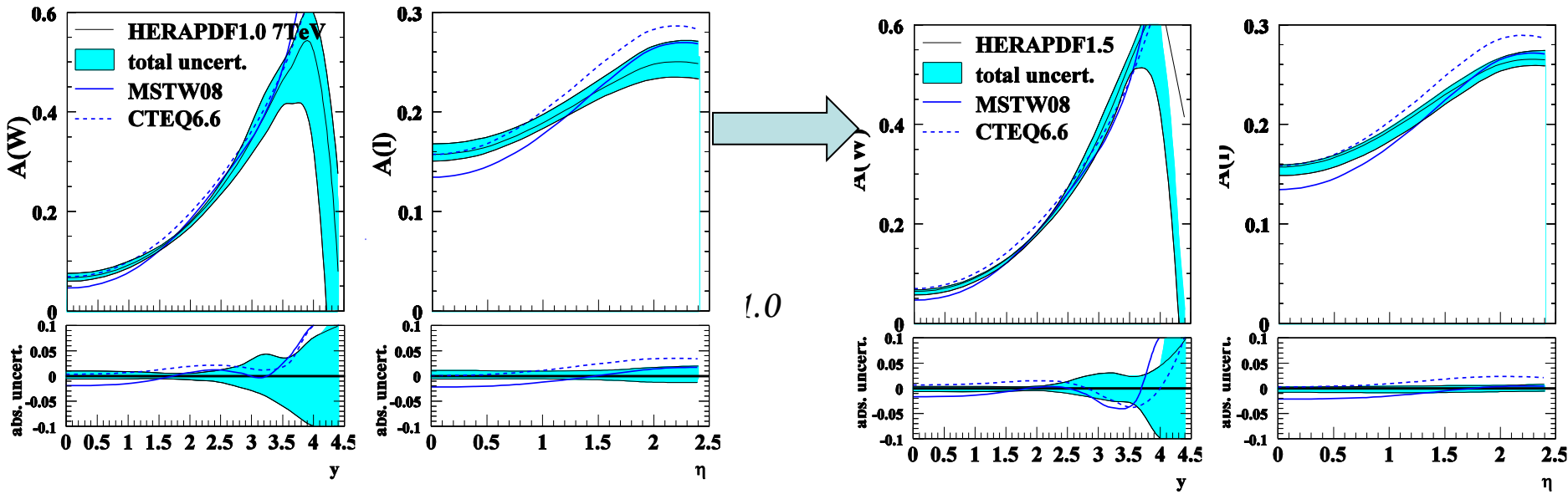


HERAPDF1.5

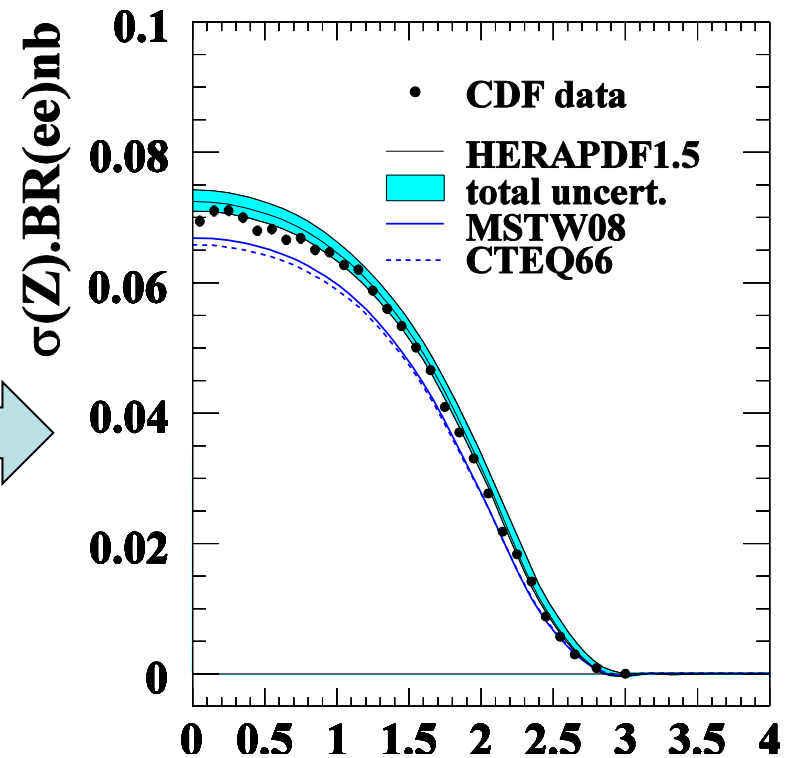
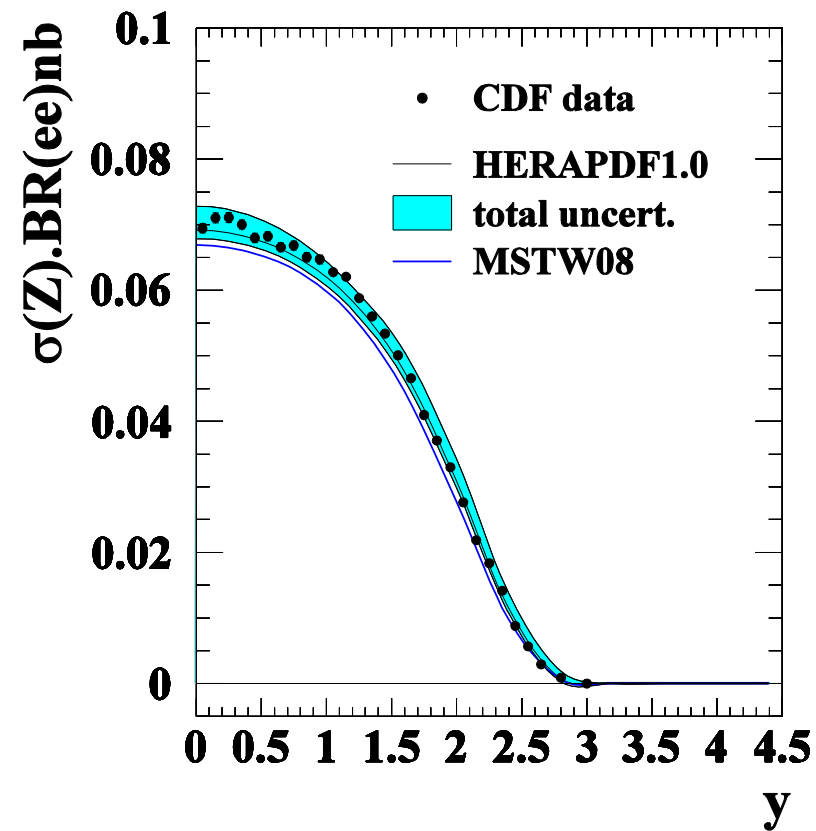
LHC and Tevatron predictions



LHC 7 TeV



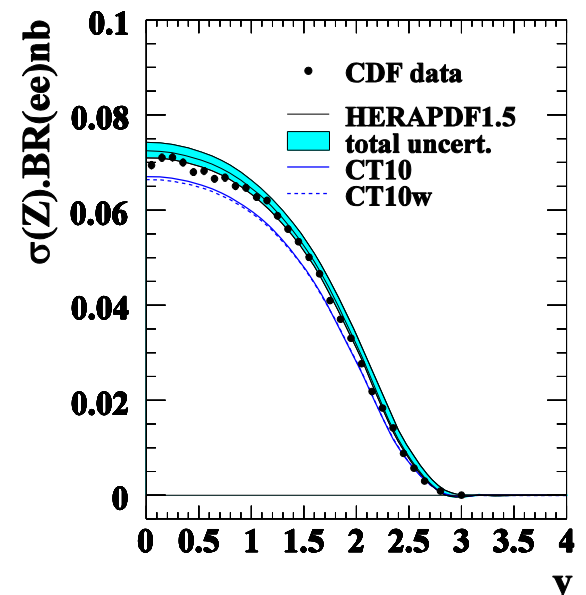
The reduced high-x error on HERAPDF1.5 PDFs results in a reduced error at high rapidity for W/Z production at the LHC

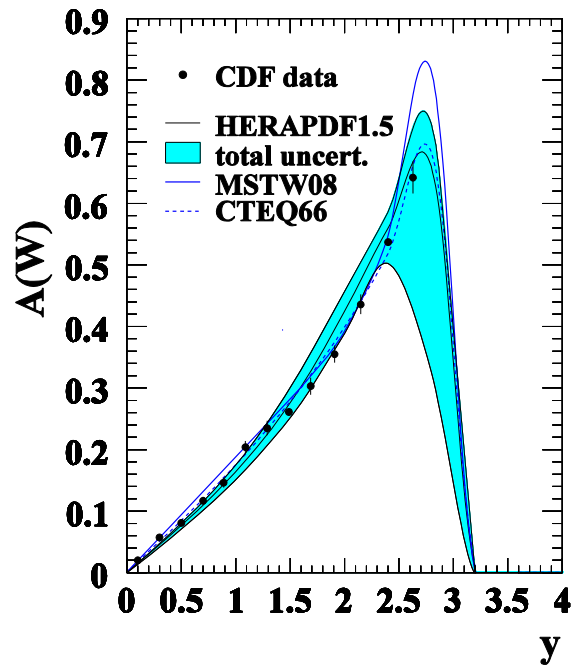


Tevatron

Nice description of CDF Z_0 rapidity spectrum—

Remember there is a 7% normalisation error on these data



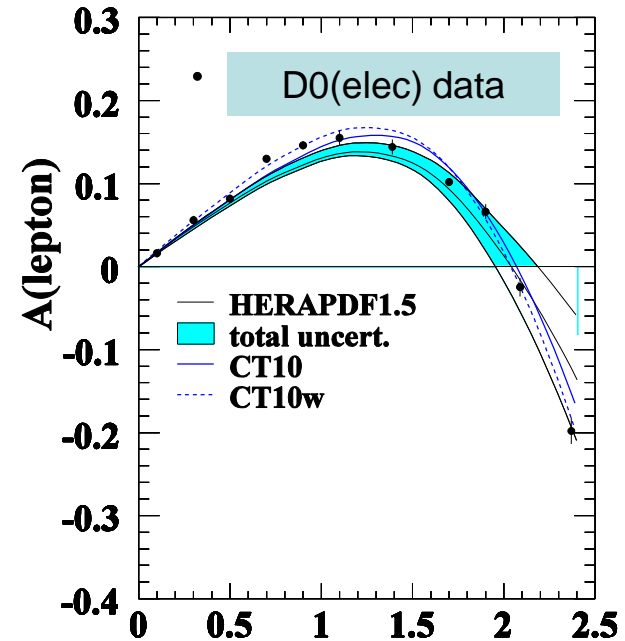
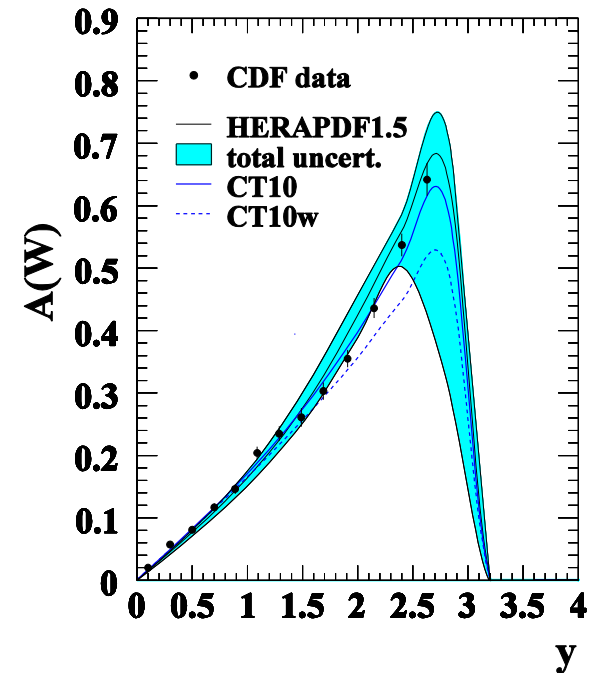
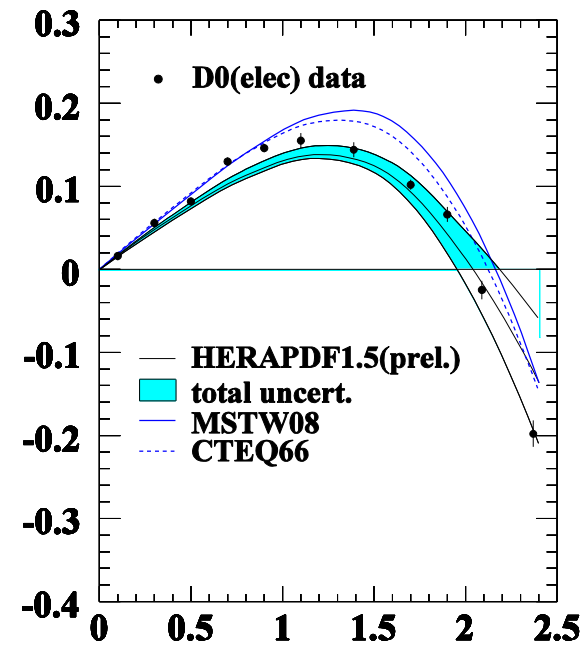


Tevatron

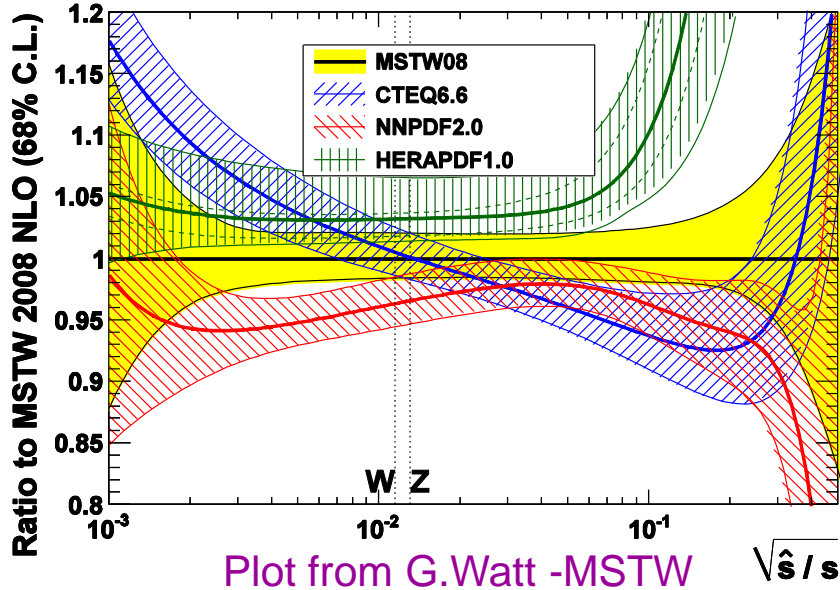
HERAPDF1.5 also describes the Tevatron asymmetry data both W and lepton asymmetry ($p_t > 25$ GeV)

HERAPDF uses only proton data- no need for deuteron corrections

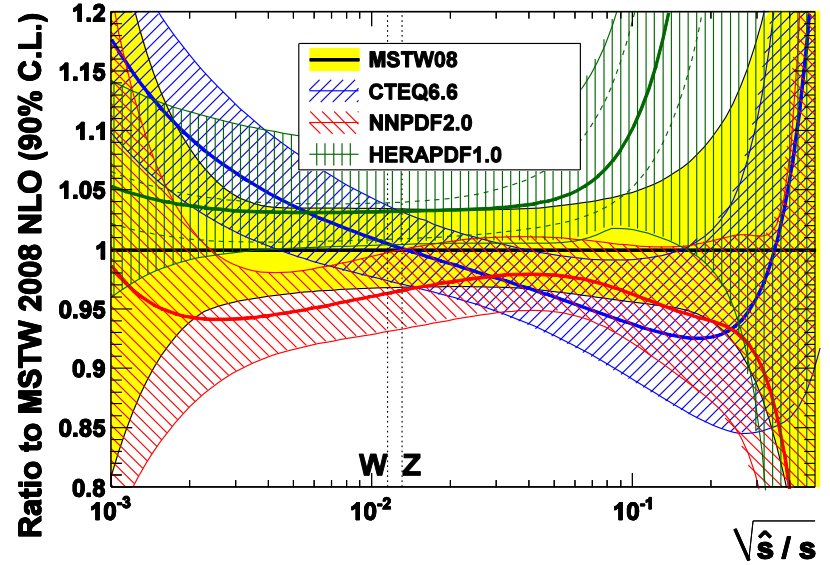
It is more comparable to CT10 (w) than MSTW or CTEQ6.6



$\Sigma_q(q\bar{q})$ luminosity at LHC ($\sqrt{s} = 7$ TeV)

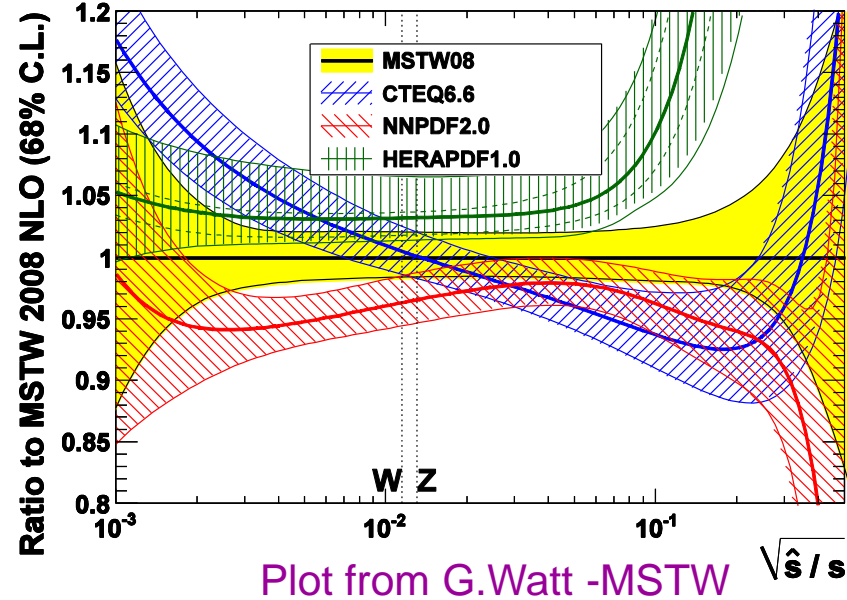


$\Sigma_q(q\bar{q})$ luminosity at LHC ($\sqrt{s} = 7$ TeV)



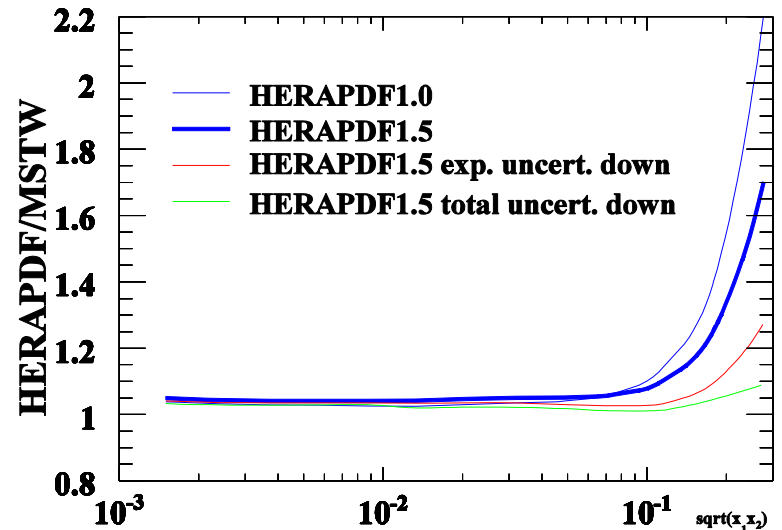
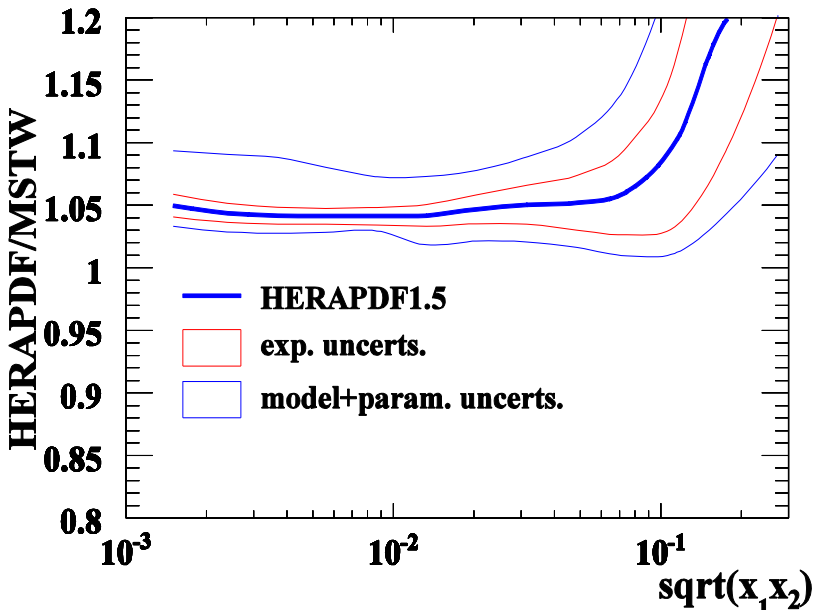
HERAPDF1.0 has a rather high q-qbar luminosity at high scale. But this does not look so dramatic if we look at 90%CL

$\Sigma_q(q\bar{q})$ luminosity at LHC ($\sqrt{s} = 7$ TeV)

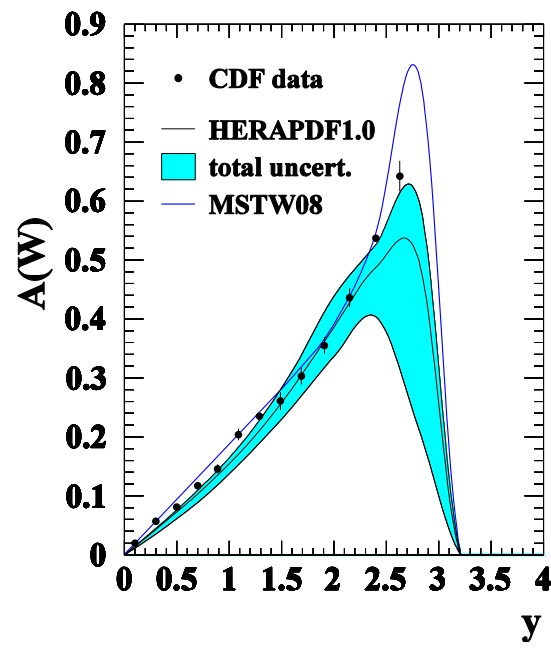


The high-scale q-qbar luminosity is reduced in HERAPDF1.5

It is now closer to MSTW



extras



Back up HERAPDF1.0

Tevatron Jet Cross Sections

