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QCD Analysis HERAPDF2.0 of the combined HERA structure function data

The new combined inclusive HERA cross sections were input to QCD analyses at NNLO, NLO and LO providing a new set of parton distribution functions, HERAPDF2.0. Besides the small experimental uncertainties, model and parameterisation uncertainties were also considered. The consistency of data and the QCD fit was tested for variants of the fit such as the treatment of heavy flavour production and the threshold in Q^2 for including data points in the fit.

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