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Parton distribution functions at LO, NLO and NNLO with correlated uncertainties

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Sets of parton distribution functions of the proton are reported for the leading (LO), next-to-leading (NLO) and next-to-next-to leading order (NNLO) QCD calculations.

The parton distribution functions are determined with the HERAFitter package using the HERA data and preserving correlations between uncertainties for the LO, NLO and NNLO sets. The sets are used to study uncertainties for ratios of cross sections calculated at different order in QCD.

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