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Determination of CCFM uPDF with combined HERA data

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We present a new determination of the un-integrated PDF using the combined HERA data. We obtain acceptable chi*2/ndf.
We find that for a good description of HERA data the gluon splitting function including non-singular terms as well as kinematic constraints and NLO alphas are necessary. We determine for the first time a full set of uncertainty uPDFs which allow to study the uPDF uncertainty for processes at HERA and the LHC.
We also show a comparison of predictions using the new uPDFs with measurements from HERA and the LHC.

Author: JUNG, Hannes (Deutsches Elektronen-Synchrotron (DE))

Co-author: HAUTMANN, Francesco (Institute of Theoretical Physics)

Presenter: JUNG, Hannes (Deutsches Elektronen-Synchrotron (DE))

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