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Structure functions from renormalization group improved small x evolution

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We perform the fit to the structure function F2 data from HERA including terms due to the resummation at small x. The equation for the unintegrated gluon density is solved, previously established within the renormalization group improved small x framework. We find very good description of the structure function F2 and its charm component Fc2. The resulting unintegrated gluon density is found to be consistent with the calculations based on similar approaches available in the literature, with only slightly higher intercept value.

Submitted on behalf of a Collaboration?

No

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