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Fitting DIS data at low values of Bjorken x

Tuesday, 11 September 2012 16:30 (20 minutes)

Summary

The proton structure function F2 is analyzed in the low x regime using BFKL evolution. We present an analytic study at next to leading logarithmic (NLL) accuracy.
Higher order corrections are taken into account through an all-orders resummation introduced to improve the collinear behavior of the NLL BFKL result. We emphasize
the importance of the running coupling effects and use a model for the coupling that freezes in the infrared and is consistent with power corrections to jet observables.
A comparison to the latest HERA data for both F2 and the dependence of the pomeron intercept on x is presented.

Primary authors: SABIO VERA, Agustín (IFT Madrid); Ms SALAS, Clara (IFT Madrid); Dr HENTSCHINSKI, Martin (Nuclear Theory Group, BNL)

Presenter: Ms SALAS, Clara (IFT Madrid)

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