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Collinearly improved BK equations versus HERA data

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In this talk I shall discuss the ability of the collinearly improved BK equations recently proposed in the literature by G. Beuf (1401.0313) and Iancu et al. (arXiv:1502.05642) to describe data on the reduced cross section in e+p collisions at small values of Bjorxen-x measured at HERA by the H1 and ZEUS collaborations. I shall present a comparative study of the result of global fits to these data based on the running coupling BK equation with and without double logarithmic corrections encoded in those equations.

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