Workshop on Resummation, Evolution, Factorization

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## **APFEL: A PDF Evolution Library**

Wednesday 9 November 2016 09:30 (30 minutes)

APFEL is a numerical code specialized for PDF fits that provides a fast and accurate solution of the DGLAP equations. In addition to PDF evolution, APFEL also provides a module that computes DIS cross sections in several mass schemes. In this contribution I will present the most recent and relevant developments carried out in APFEL. They include: the computation of the time-like evolution, the implementation of the SIA cross sections needed for the determination of FFs, the small-x resummed evolution, and the implementation of the NLO QED corrections both to the DGLAP evolution and the DIS structure functions. I will then mention some of the most recent results obtained using APFEL and finally I will conclude discussing some relevant future plans related to the determation of FFs and TMD

 Author:
 BERTONE, Valerio (NIKHEF)

 Presenter:
 BERTONE, Valerio (NIKHEF)

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