

# XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



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## Recent developments in APFEL

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APFEL is a numerical code specialized for PDF fits that provides a fast and accurate solution of the DGLAP equations up to NNLO in QCD and LO in QED. In addition to PDF evolution, APFEL also provides a module that computes deep-inelastic scattering cross sections in several mass schemes up to NNLO in QCD. In this contribution I will present the most recent developments carried out in the APFEL framework. They include: the implementation of the intrinsic charm contributions to the FONLL structure functions, the computation of the polarized evolution up to NNLO in QCD, the small- $x$  resummed evolution up to NLL, the implementation of the single-inclusive cross sections needed for the determination of fragmentation functions (FFs). APFEL is currently used by the NNPDF collaboration and is interfaced to the xFitter public code and thus all these developments are or will be used to improve the determination of PDFs and FFs.

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