Manual of APFEL++

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Abstract

In this document I describe the APFEL++ code, a rewriting in c++ of the Fortran evolution and DIS code APFEL.

Contents

 $1 \ \mathsf{Why} \ \mathsf{c}{+}{+}{?}$

$1 \quad \text{Why } c++? \\$

APFEL was originally conceived in 2012 in the framework of the NNPDF collaboration as a benchmark code to check the QED evolution of the NNPDF2.3QED sets [1]. The idea of making it public came immediately after.

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References

 $[1] \ \text{R.} \quad \text{D.} \quad \text{Ball} \quad et \quad al. \quad [\text{NNPDF Collaboration}], \quad \text{Nucl.} \quad \text{Phys.} \quad \text{B} \quad \textbf{877} \quad (2013) \quad 290 \\ \quad \text{doi:} 10.1016/\text{j.nuclphysb.} 2013.10.010 \ [\text{arXiv:} 1308.0598 \ [\text{hep-ph}]].$