

Evolution of single and double parton densities with ChiliPDF

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Abstract: We present a method to discretize and numerically solve the DGLAP evolution equations, using Chebyshev interpolation. This allows for high numerical accuracy with grids of quite a moderate size. We demonstrate the power of this method, implemented in the C++ library ChiliPDF, both for conventional PDFs and for double Parton distributions, which appear in the description of double-parton interactions.

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