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Towards the evolution of the Parton Distribution Functions to 1% accuracy

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Precision physics, both at the LHC and at the EIC, requires to control the evolution of the Parton Distribution Functions to 1% accuracy. To achieve this target, we must compute the splitting kernels of the Dokshitzer-Gribov-Lipatov-Altarelli-Parisi equations to four loops in QCD. Recently, there has been significant progress towards this goal. I report the results obtained in the framework of the operator product expansion and discuss future challenges.

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