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One-loop evolution of twist-2 generalized parton distributions

Thursday, 30 May 2024 09:00 (30 minutes)

In this talk, I will revisit the evolution of generalised parton distributions (GPDs) at leading order in the strong coupling constant α_s for all of the twist-2 quark and gluon operators. I will present a rederivation of the one-loop evolution kernels, expressing them in a form suitable for implementation, and check analytically that some basic properties, such as DGLAP/ERBL limits and polynomiality conservation, are fulfilled. I will also present a number of numerical results obtained with a public implementation of the evolution in the library APFEL++ and available within the PARTONS framework.

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