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Type: **Lecture (invitees)**

The Structure of the Proton (Part 3)

Wednesday, March 12, 2025 9:00 AM (1 hour)

In these set of lectures we review the modern tools used to compute the quark and gluon distributions within hadrons in general, and the proton in particular. We begin with a review of deep inelastic scattering, and factorization theorems. We then introduce the definitions of parton distribution functions (PDFs), generalized PDFs (GPDs), and transverse-momentum dependent PDFs (TMDPDFs), and how they can be compute from first principles.

Author: Dr STEFFENS, Fernanda (University of Bonn)

Presenter: Dr STEFFENS, Fernanda (University of Bonn)

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