

DIS2023: XXX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Type: **Parallel talk**

Moments of PDFs from Lattice QCD at the physical point

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Studying the structure of Nucleons in Quantum Chromodynamics is a challenging task due to the appearance of non-perturbative Parton Distribution Functions (PDF).

PDFs describe the distributions of quarks and gluons with respect to the longitudinal momentum and appear in cross-sections as process-independent contributions.

Lattice QCD provides the possibility to study these by calculating their Mellin moments.

We present a calculation of the Axial, Vector and Tensor moments and discuss the corresponding analysis.

Submitted on behalf of a Collaboration?

No

Participate in poster competition?

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Session Classification: WG 1

Track Classification: WG1: Structure Functions and Parton Densities