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Type: Talk

Proton structure using state-of-the-art lattice QCD simulations

Thursday 29 August 2024 17:30 (45 minutes)

Lattice QCD has recently seen theoretical and computational advancements. These developments are allowing us to both compute hadron structure to unprecedented accuracy and to explore quantities that were thought impossible to calculate within lattice QCD for many years. In the first category belong hadrons charges and form factors and higher Mellin moments that can shed light on spin carried by quarks and gluons. In the second category are generalised parton distributions and transverse momentum distributions that contain rich information on the three dimensional structure of hadrons. I will discuss recent results on both classes of observables.

Internet talk

Yes

Is this an abstract from experimental collaboration?

No

Name of experiment and experimental site

N/A

Is the speaker for that presentation defined?

Yes

Details

Constantia Alexandrou, Prof. of Physics
Department of Physics, University of Cyprus, PO Box 20537, 1678 Nicosia, Cyprus

Primary authors: ALEXANDROU, Constantia; ALEXANDROU, Constantia

Presenter: ALEXANDROU, Constantia

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