

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



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GUMP program for GPD global analysis

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Generalized Parton Distributions (GPDs) have been one of the most important tools to access the nucleon 3D structure including its mass, angular momentum and mechanical properties. However, the extraction of GPDs has been challenging due to its high-dimension nature. Recent progress in lattice QCD have brought in many insights into the studies of GPDs. In this talk I will introduce the GPDs through Universal Moment Parameterization (GUMP) program which aims to combine these lattice inputs together with various experimental measurements to obtain the state-of-the-art GPDs from global analysis.

Submitted on behalf of a Collaboration?

No

Participate in poster competition?

No

Primary authors: GUO, Yuxun (University of Maryland); Prof. JI, Xiangdong (University of Maryland); Prof. SHELLS, Kyle (University of Manitoba); Dr SANTIAGO, M. Gabriel (Center for Nuclear Femtography); YANG, Jinghong (University of Maryland); GUO, Yuxun

Presenters: GUO, Yuxun (University of Maryland); GUO, Yuxun

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