

Lattice QCD calculation of the nucleon hadronic tensor

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We report preliminary results on the lattice calculation of the hadronic tensor of the nucleon. Two topologically distinct connected-insertions of the Euclidean 4-point function are considered which helps to separate the connected-sea parton contribution from that of the valence. Converting the Euclidean hadronic tensor to that in the Minkowski space, which involves an inverse problem in a Laplace transform, is implemented through the maximum entropy method.

Primary author: LIANG, Jian (University of Kentucky)

Co-authors: Prof. LIU, Keh-Fei (University of Kentucky); Prof. DRAPER, Terrence (University of Kentucky); Dr YANG, Yi-bo (Michigan state university)

Presenter: LIANG, Jian (University of Kentucky)

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