



Contribution ID: 118

Type: **Regular Talk** (15'+5')

Nuclear Femtography in the era of Jefferson Lab 12 GeV program and EIC

Monday 29 November 2021 17:45 (20 minutes)

A new era for the exploration of hadron structure has begun with the Jefferson Lab 12 GeV program and the planned Electron Ion Collider. The new generation of experiments will allow us to probe the quantum correlation function (QCFs) of quarks and gluons that emerges from the theory of strong interactions. Since these QCFs are not direct physical observables, the experimental data needs to be analyzed within the framework of QCD factorization that stress test in a self consistent manner the predictive power of QCD and the universality of QCFs using Bayesian inference. In this talk we will discuss the QCD global analysis program that aims to map out the QCFs that characterized the internal quark and gluon structures in the nucleon and nuclei.

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Session Classification: Heavy Flavour

Track Classification: Heavy Flavour