

DNP16-2016-000175

Abstract for an Invited Paper
for the DNP16 Meeting of
the American Physical Society

Nucleon spatial imaging¹

JULIE ROCHE, Ohio University

A compelling modern development in the study of QCD in the confinement regime is the introduction of Generalized Parton Distribution functions (GPDs). These functions (as well as TMD functions) allow for a multidimensional description of the internal structure of hadrons far more complex than usual Form factors or Parton Distributions functions. Indeed, GPDs measure the transverse spatial distribution of parton as a function of their longitudinal momentum fraction. The goal of the comprehensive program in hard exclusive processes at Jefferson lab is to gain information about GPDs. In this talk, such existing measurement as well as those planned in the near future will be presented and discussed.

¹This work is supported by NSF award 1614479.