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Deeply Virtual Compton Scattering on ^{4}He with CLAS HOVANES
EGIYAN, University of New Hampshire, CLAS COLLABORATION — The intro-
duction of the Generalized Parton Distribution (GPD) formalism transformed the
landscape for probing the deep inelastic structure of hadrons. Deeply Virtual Comp-
ton Scattering (DVCS) provides us with the cleanest way of accessing these GPDs.
Recent DVCS experiments have mainly focused on proton targets, demonstrating
the applicability of the GPD formalism above momentum transfers of $Q^2 = 2$ GeV^2,
while relatively less effort has been devoted to the understanding of nuclei in terms
of GPDs. Studies of the DVCS process on nuclei can provide us with information
on the quark-gluon structure of nuclei, as well as significantly improve our under-
standing of the modifications of nucleons in the nuclear medium. In this talk we will
review the existing data on nuclear DVCS, and will describe the new experiment at
Jefferson Lab to measure the Compton form-factor of the helium nucleus.

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