

## Nucleon 3D imaging program with SoLID at Jefferson Lab

*Thursday, 13 September 2018 18:00 (20 minutes)*

The 3D imaging of nucleon is at the frontier of understanding visible Universe and QCD. There are many efforts to access the nucleon's 3D partonic structure both in the transverse coordinate space (Generalized Parton Distributions) and in the transverse momentum space (Transverse Momentum Dependent distributions). The proposed Solenoidal Large Intensity Device (SoLID) in Hall A at Jefferson Lab, will fully utilize the great physics potential of the 12-GeV energy upgrade by combining high luminosities and large acceptance to allow high-precision measurements of the observables of interest in a wide kinematical region. In this talk, we will give an overview of the experiment plan and highlight some of the expected physics results. This work is supported in part by U.S. Department of Energy under contract number DE-FG02-03ER41231.

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**Session Classification:** Future Facilities and Experiments

**Track Classification:** Future Facilities and Experiments