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3D imaging of the nucleon with JLab experiments

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Deeply-Virtual Compton scattering and semi-inclusive meson production experiments at Jefferson Lab are probing the nucleon's partonic structure both in the transverse coordinate space (encoded in the Generalized Parton Distributions) and in the transverse momentum space (encoded in the Transverse Momentum Dependent distributions). The combination of the high-intensity, high-polarization electron beam provided by the CEBAF with the complementary equipments of the three experimental halls makes JLab an ideal enviroment for the analysis of both exclusive and semi-inclusive processes, allowing high-precision measurements of the observables of interest in a wide kinematical region. The important results obtained during the 6-GeV era will be described, together with the future studies proposed for the 12-GeV upgrade. Eventually, analyses of a large body of experimental data, collected with a high precision in an extended kinematical region, will lead to multi-dimensional space-momentum imaging of the nucleon.