

XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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Present and future of JLab CLAS12 physics program

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The CLAS12 detector at Jefferson Lab just started to collect data. Making use of the CEBAF high energy (up to 11 GeV) and highly longitudinal polarized (up to 90%) electron beam will cover unexplored territories in electron-scattering physics. Exclusive reactions on nucleons and nuclei will be measured with high precision in high luminosity (up to 10^{35} cm⁻²s⁻¹) experiments. Mapping out a new class of structure functions, GPDs and TMDs, detecting and reconstructing exotic meson and baryon states and accessing nucleon correlations in nuclei, in the next decade, the CLAS12 rich physics program will provide insight in the complex dynamics of the QCD.

In this talk, the CLAS12 detector and JLab Hall-B physics program will be described reporting some preliminary results for flag-ship reactions and plans for future upgrades of the detector.

Primary author: Dr TBD (Jefferson Lab)

Presenter: Dr TBD (Jefferson Lab)

Session Classification: Future Experiments

Track Classification: Future Experiments