KYUNGSEON JOO

University of Connecticut
Department of Physics
196 Auditorium Rd.
Storrs, CT 06269
kyungseon.joo@uconn.edu

Education

Massachusetts Institute of Technology, Cambridge, MA
Ph.D., Physics, June 1997.

University of Utah, Salt Lake City, UT
M.S., Electrical and Computer Engineering, May 1989.

Seoul National University, *Seoul*, South Korea
B.S., Physics, February 1986.

Professional Positions

Full Professor of Physics, 2011 – present
University of Connecticut, Department of Physics, Storrs, CT

Associate Professor of Physics, 2007 – 2011
University of Connecticut, Storrs, CT

Assistant Professor of Physics, 2002 – 2007
University of Connecticut, Storrs, CT

Visiting Professor, 2019
Universität Gießen, Gießen, Germany

Fulbright Scholar and Visiting Professor, 2015 – 2016
University of Paris-Saclay, Paris, France

Program Manager, 2013 – 2015
U.S. Department of Energy (DOE), Office of Science, Washington, DC

Program Director of Nuclear Physics (IPA), 2010 – 2012
U.S. National Science Foundation (NSF), Arlington, VA

Visiting Professor, 2007
Research Center for Nuclear Physics, Osaka University

Postdoctoral Fellow, 2000 – 2002
Jefferson Lab, Newport News, VA

Postdoctoral Associate, 1997 – 2000
University of Virginia, Charlottesville, VA

Program/System Analyst, 1986 – 1987
IBM

Synergetic Activities

Member, The State of Connecticut Council for Advancing Nuclear Energy Development, 2023 – present.

Member, The Global R&D Special Committee of the South Korean Presidential Advisory Council on Science and Technology (PACST), 2024 – present.

Member of the Board of Directors, Korea – U.S. Quantum Technology Cooperation Center, 2024 – present.

Member, J-PARC Accelerator Program Advisory Committee (PAC), Japan Atomic Energy Agency (JAEA), Japan, 2022 – present.

Co-Chair, The Global R&D Committee of the Ministry of Science and Technology of South Korea, 2023 – 2024.

Member of the Board of Directors, Korea – U.S. Science Cooperation Center, 2023 – present.

Member, UConn Physics Department Promotion, Tenure and Review (PTR) Committee, 2021 – 2024.

Member, UConn CLAS Dean's Promotion, Tenure and Review (PTR) Committee, 2020 – 2023.

Member of Review Committee for the UConn Research Excellence Program, 2020 – 2023.

Director, The U.S.-Japan Hadronic Physics Exchange Program, 2020 – present.

Chair, The CLAS Collaboration Council, The U.S. Department of Energy's Office of Nuclear Physics, 2019 – 2021.

President, Association of Korean Physicists in America (AKPA), 2019 – 2021.

Fulbright Research Scholar at the University of Paris-Saclay, 2015-2016.

Member of the DOE-NSF Joint Oversight Group (JOG) Committee for NSF-funded National Superconducting Cyclotron (NSCL) and DOE-funded Facility for Rare Isotope Beams (FRIB), 2014 - 2015.

Member of the DOE-NSF Joint Committee for a Deep Underground Science and Engineering Laboratory (DUSEL), 2011 – 2012.

Current Research Associates supervised (2 research scientists and 2 postdocs)

A. Kim (Research Scientist), S. Diehl (Research Scientist jointly appointed with U. Giessen), Y. Wunderlich (Postdoc), A. Kripko (Postdoc).

Current Ph.D. Students supervised (8 Ph.D. students)

M. Bilakhia, A. Bulgakov, R. Capobianco, A. Illari, G. Kainth, J. Richards, D. Terrero, N. Trotta.

Former Ph.D. Students

V. Klimenko (Ph.D., 2024), Postdoctoral Researcher at Argonne National Laboratory.
T. O'Connell (Ph.D., 2022), Teaching Professor at the University of Connecticut.
K. Wei (Ph.D., 2021), Staff Scientist at Honeywell Inc.
B. Clary (Ph.D., 2020), Staff Scientist at Lawrence Livermore National Laboratory.
K. Tezgin (Ph.D., 2020), Postdoctoral Researcher at Brookhaven National Laboratory.
F. Cao (Ph.D., 2019), Data Scientist at MORSE Corps., Cambridge, MA.
D. Riser (Ph.D., 2019), Data Scientist at the U.S. Department of Defense.
N. Harrison (Ph.D., 2015), Professor at the U. of North Georgia, Oakwood, GA.
T. Mineeva (Ph.D., 2013), Professor at the U. Santa Maria, Valparaíso, Chile.
E. Seder (Ph.D., 2013), Research Scientist at Ericsson Research, Pisa, Italy.
W. Gohn (Ph.D., 2013), Senior Scientist at Siemens, Chicago, IL.
I. Shin (Ph.D., 2012), Staff Scientist at Institute of Basic Science in South Korea.
N. Markov (Ph.D., 2012), Senior Scientist, Canon Medical Research Center, Vernon Hills, IL.
B. Zhao (Ph.D., 2008), Software Engineering Manager at Nanometrics, Austin, TX.

Former Postdocs

F. Cao, Data Scientist, MORSE Corps., Cambridge, MA
S. Diehl, Research Scientist, jointly appointed with U. Giessen and U. of Connecticut.
E.L. Isupov, Staff Scientist at Moscow State University, Moscow, Russia.
A. Kim, Research Professor at the U. of Connecticut.
N. Markov, Senior Scientist at Siemens, Chicago, IL.
D. Riser, Data Scientist, the U.S. Department of Defense.
N. Sato, Staff Scientist at Jefferson National Laboratory.
U. Shrestha, Postdoc, Fermi National Laboratory.
M. Ungaro, Staff Scientist at Jefferson Laboratory.

Currently Active Extramural Grants (5 Grants)

DOE Office of Science's Medium Energy Nuclear Physics Program, "Medium Energy Nuclear Physics Experiments," – **$1.8 M**, 06/01/2025 - 07/31/2028, K. Joo (Sole PI).

National Science Foundation, "Exploring Innovations in Hydrogen Technologies," – **$436 K**, 09/01/2025 - 08/31/2028, K. Joo (co-PI).

DOE Office of Science's Quantum Information Science Program, "Workshop on Nuclear Physics and Quantum Information Science," – **$24,000**, 09/01/2025 - 08/31/2026, K. Joo (PI) and R. Cote (co-PI).

DOE/Argonne National Lab, "SIDIS Pion Electroproduction with CLAS12," - **$252 K**, 01/01/2022 – 12/31/2025, K. Joo (Sole PI).

DOE/Argonne National Lab, "ePIC Detector Development," - **$116 K**, 01/01/2023 – 12/31/2025, K. Joo (Sole PI).

Past Extramural Grants

DOE Office of Science's Medium Energy Nuclear Physics Program, "Medium Energy Nuclear Physics Experiment in Hall B at Jefferson Lab," – **$1.65 M**, 04/15/2022 - 05/31/2025, K. Joo (Sole PI).

DOE Office of Science's Medium Energy Nuclear Physics Program, "Medium Energy Nuclear Physics Experiment in Hall B at Jefferson Lab," – **$1.41 M**, 04/15/2019 - 04/14/2022, K. Joo (Sole PI).

DOE Office of Science's Medium Energy Nuclear Physics Program, "Medium Energy Nuclear Physics Experiment in Hall B at Jefferson Lab," – **$1.15 M**, 04/15/2016 - 04/14/20219, K. Joo (Sole PI).

DOE Office of Science's Medium Energy Nuclear Physics Program, "Medium Energy Nuclear Physics Experiment in Hall B at Jefferson Lab," – **$712 K**, 04/15/2013 - 04/14/2016, K. Joo (Sole PI).

DOE Office of Science's Medium Energy Nuclear Physics Program, "Medium Energy Nuclear Physics Experiment in Hall B at Jefferson Lab," – **$765 K**, 04/15/2010 - 04/14/2013, K. Joo (Sole PI).

DOE Office of Science's Medium Energy Nuclear Physics Program, "Medium Energy Nuclear Physics Experiment in Hall B at Jefferson Lab," – **$615 K**, 04/15/2007 - 04/14/2010, K. Joo (Sole PI).

DOE Office of Science's Medium Energy Nuclear Physics Program, "Medium Energy Nuclear Physics Experiment in Hall B at Jefferson Lab," – **$252 K**, 04/15/2004 - 04/14/2007, K. Joo (Sole PI).

DOE Office of Science's Quantum Information Science Program, "Workshop on Nuclear Physics and Quantum Information Science," – **$24,000**, 09/01/2023 - 08/31/2025, K. Joo (PI) and R. Cote (co-PI).

DOE Office of Science's Medium Energy Nuclear Physics Program grant, "U.S.-Japan Hadronic Physics International Program for Studies of Hadron Structure and QCD," **$231 K**, 09/15/2020 – 09/14/2023, K. Joo (Sole PI).

National Science Foundation (NSF) IRES Program, "Studying Nucleon Structure in Orsay, France," - **$248 K**, 06/01/2017 – 08/31/2023, Peter Schweitzer (PI), Kyungseon Joo (Co-PI), Gail Dodge (Co-PI).

National Science Foundation (NSF) Campus Cyberinfrastructure (CC) Program, "Shared Computing Infrastructure for Large-scale Science Problems," – **$400 K**, 08/01/2019 – 07/31/2022, R. Jones (PI), K. Joo (Co-PI), C. Battersby (Co-PI), V. Cormier (Co-PI), J. Yan (Co-PI).

DOE/Brookhaven National Lab Electron Ion Collider (EIC) Detector R&D Program, "EIC Background Studies and the Impact on the IR and Detector Design," – **$100 K**, 01/01/2018 – 12/31/2021, L. Elouadrhiri (PI, Jefferson Lab), C. Hyde (Co-PI, Old Dominion U.), K. Joo (Co-PI).

DOE/Jefferson Science Associate, "Computational Framework for TMDs," – **$62 K**, 11/01/2019 – 10/31/2021, Peter Schweitzer (PI), K. Joo (Co-PI).

DOE/Jefferson Science Associate, "HD-ice Transversely Polarized Target Development," - **$109 K**, 11/14/13 – 09/30/16, K. Joo (Sole PI).

DOE/Jefferson Science Associate, "High Threshold Cherenkov Counter and Ring Imaging Cherenkov Counter with CLAS 12," - **$104 K**, 11/01/12 – 09/30/16, K. Joo (Sole PI).

DOE/Argonne National Lab, "Electroproduction with Nucleon and Nuclear Targets Using CLAS," - **$128 K**, 01/11/16 – 05/30/18, K. Joo (Sole PI).

DOE Office of Science's Office of Nuclear Physics, "IPA in Nuclear Physics," – **$413 K**, 03/04/2013 - 08/30/2015, K. Joo (Sole PI).

National Science Foundation, "IPA in Nuclear Physics," – **$373 K**, 08/02/2010 - 08/30/2012, K. Joo (Sole PI).

DOE/Jefferson Science Associate, "High Threshold Cherenkov Counter and Ring Imaging Cherenkov Counter with CLAS 12," - **$260 K**, 01/01/12 – 12/31/16, K. Joo (Sole PI).

CyberConnect EZ via DOE SBIR/STTR Program, "Development of Computational Framework for Nuclear Physics Data Analysis," - **$30 K**, 06/28/06 - 07/13/07, K. Joo (Sole PI).

Jefferson Lab PAC Approved Experiments as a Spokesperson

A. 12 GeV Experiments

1. JLAB-E12-06-112: "Probing the Proton's Quark Dynamics in Semi-Inclusive Pion Production at 12 GeV," K. Joo (co-spokesperson).

2. JLab-C12-11-111, "Transverse spin effects in SIDIS at 11 GeV with a transversely polarized target using the CLAS12 Detector," K. Joo (co-spokesperson).

3. JLab-E12-09-008, "Studies of the Boer-Mulders Asymmetry in Kaon Electroproduction with Hydrogen

and Deuterium Targets," K. Joo (co-spokesperson).

4. JLAB-E12-06-117: "Quark Propagation and Hadron Formation in π^0 and η channels," K. Joo (co-spokesperson).

5. JLAB-E12-09-003: "Nucleon Resonance Studies with CLAS12," K. Joo (co-spokesperson).

6. JLAB-E12-06-108: "Hard Exclusive Electroproduction of π^0 and η with CLAS12," K. Joo (co-spokesperson).

7. JLAB-E12-06-117A, "Di-hadron measurements in electron-nucleus scattering with CLAS12," – K. Joo (co-spokesperson) et al.

B. 6 GeV Experiments

1. JLAB-PR-05-114: "Deeply Virtual Compton Scattering at 6 GeV with polarized target and polarized beam using the CLAS detector," K. Joo (co-spokesperson).
2. JLAB-PR-04-116: "Beyond Born Approximation: A Precise Comparison of Positron-Proton and Electron-Proton Elastic Scattering in CLAS," K. Joo (co-spokesperson).
3. JLAB-PR-01-103: "Single Pion Production in the Resonance Region at Low Q^2," K. Joo (co-spokesperson).
4. JLAB-PR-00-112: "Exclusive Kaon Production in Hall B at 6 GeV," K. Joo (co-spokesperson).
5. JLAB-PR-99-006: "Polarization Observables in H(e,e'K^+)Λ," K. Joo (co-spokesperson).

List of Refereed Journal Publications

1. A. Kripko et al. (CLAS Collaboration), "Multidimensional Measurements of Beam Single Spin Asymmetries in Semi-Inclusive Deep-Inelastic Charged Kaon Electroproduction off Protons in the Valence Region", arXiv:2504.08580, accepted for publication in Phys. Rev. Lett. (2025).
2. S. Adhikari et al. (CLAS Collaboration), "Measurement of Beam-Recoil Observables C_x and C_z for $K^+\Lambda$ Photoproduction", arXiv:2508.10124, accepted for publication in Phys. Rev. C (2025).
3. D.S. Carman et al. (CLAS Collaboration), "Recoil Polarization in K^+Y Electroproduction in the Nucleon Resonance Region with CLAS12", Phys. Rev. C 112, 035206 (2025).
4. T. Mineeva et al. (CLAS Collaboration), "Suppression of Neutral Pion Production in Deep-Inelastic Scattering of Nuclei with the CLAS Detector", Phys. Rev. C 112, 035203 (2025).
5. P. Roy et al. (CLAS Collaboration), "Measurement of Single- and Double-Polarization Observables in the Photoproduction of $\pi^+\pi^-$ Pairs off the Proton Using CLAS at Jefferson Laboratory", Phys. Rev. C 112, 035201 (2025).
6. V. Klimenko et al. (CLAS Collaboration), "Inclusive Electron Scattering in the Resonance Region from a Hydrogen Target with CLAS12", Phys. Rev. C 112, 025201 (2025).
7. A.V. Sarantsev et al. (CLAS Collaboration), "Photoproduction of two Charged Pions off Protons in the Resonance Region", Phys. Rev. C 111, 035203 (2025).
8. A. Deur et al. (CLAS Collaboration), "Measurement of the Nucleon Spin Structure Functions for $0.01 < Q^2 < 1$ GeV^2 Using CLAS", Phys. Rev. C 111, 035202 (2025).

9. L. Clark et al. (CLAS Collaboration), "Photoproduction of the Σ+ Hyperon Using Linearly Polarized Photons with CLAS", Phys. Rev. C 111, 025204 (2025).

10. S.J. Paul et al. (CLAS Collaboration), "Dihadron Azimuthal Correlations in Deep-Inelastic Scattering Off Nuclear Targets", Phys. Rev. C 111, 035201 (2025).

11. A. Hobart et al. (CLAS Collaboration), "First Exclusive Measurement of Deeply Virtual Compton Scattering on the Neutron," Phys. Rev. Lett. 133, 211903 (2024).

12. I. A. Skorodumina *et al. (CLAS Collaboration)*, "Double-Pion Electroproduction off Protons in Deuterium: Quasi-Free Cross Sections and Final State Interactions", Phys. Rev. C 109, 065205 (2024).

13. A. Kim *et al. (CLAS Collaboration)*, "Beam Spin Asymmetry Measurements of Deeply Virtual π^0 Production with CLAS12", Phys. Lett. B 849, 138459 (2024).

14. S. Paul *et al. (CLAS Collaboration)*, "Alignment of the CLAS12 Central Hybrid Tracker with a Kalman Filter", Nucl. Inst. and Meth. A 1049, 168032 (2023).

15. C. Kim *et al. (CLAS Collaboration)*, "Measurements of the Helicity Asymmetry E for the $\gamma p \rightarrow p \pi^0$ Reaction in the Resonance Region", Eur. Phys. J. A. 59, 217 (2023).

16. S. Diehl *et al. (CLAS Collaboration)*, "First Measurement of Hard Exclusive $\pi^- \Delta^{++}$ Electroproduction Beam Spin Asymmetries off the Proton", Phys. Rev. Lett. 131, 021901 (2023).

17. I. Korover *et al. (CLAS Collaboration)*, "Observation of Large Missing-Momentum (e,e'p) Cross-Section Scaling and the Onset of Correlated-Pair Dominance in Nuclei", Phys. Rev. C 107, L061301 (2023).

18. G. Christiaens *et al. (CLAS Collaboration)*, "First CLAS12 Measurement of DVCS Beam-Spin Asymmetries in the Extended Valence Region", Phys. Rev. Lett. 130, 211902 (2023).

19. T. Chetry *et al. (CLAS Collaboration)*, "First Measurement of Λ Electroproduction off Nuclei in the Current and Target Fragmentation Regions", Phys. Rev. Lett. 130, 14 (2023).

20. S. Diehl et al. (CLAS Collaboration), "A Multidimensional Study of the Structure Function Ratio $\sigma_{LT'}/\sigma_0$ from Hard Exclusive π^+ Electroproduction off Protons in the GPD Regime", Phys. Lett. B 839, 137761 (2023).

21. H. Avakian *et al. (CLAS Collaboration)*, "Observation of Correlations Between Spin and Transverse Momenta in Back-to-Back Dihadron Production at CLAS12", Phys. Rev. Lett. 130, 022501 (2023).

22. Y. Tian et al. (CLAS Collaboration), "Exclusive π- Electroproduction off the Neutron in Deuterium in the Resonance Region", Phys. Rev. C 107, 015201 (2023).

23. S. Paul et al. (CLAS Collaboration), "Observation of Azimuth-Dependent Suppression of Hadron Pairs in Electron Scattering off Nuclei", Phys. Rev. Lett. 129, 182501 (2022).

24. D.S. Carman et al. (CLAS Collaboration), "Beam-Recoil Transferred Polarization in K+Y Electroproduction in the Nucleon Resonance Region with CLAS12", Phys. Rev. C 105, 065201 (2022).

25. N. Zachariou et al. (CLAS Collaboration), "Beam-Spin Asymmetry Σ for Σ- Hyperon Photoproduction off the Neutron", Phys. Lett. B 827, 136985 (2022).

26. E.L. Isupov et al. (CLAS Collaboration), "Polarized Structure Function σLT' from π^0p Electroproduction Data in the Resonance Region at 0.4<Q2<1.0 GeV2", Phys. Rev. C 105, L022201 (2022).

27. S. Diehl et al. (CLAS Collaboration), "Multidimensional, High Precision Measurements of Beam Single Spin Asymmetries in Semi-Inclusive π+ Electroproduction off Protons in the Valence Region", Phys. Rev. Lett. 128, 062005 (2022).

28. S. Moran et al. (CLAS Collaboration), "Measurement of Charged Pion Production in Deep-Inelastic Scattering off Nuclei with the CLAS Detector", Phys. Rev. C 105, 015201 (2022).

29. J. Rowley et al. (CLAS Collaboration), "Improved Λp Elastic Scattering Cross Sections Between 0.9 and 2.0 GeV/c and Connections to the Neutron Star Equation of State", Phys. Rev. Lett. 127, 272303 (2021).

30. P. Chatagnon et al. (CLAS Collaboration), "First-time Measurement of Timelike Compton Scattering", Phys. Rev. Lett. 127, 262501 (2021).

31. M. Khachatryan et al. (CLAS Collaboration), "Electron Beam Energy Reconstruction for Neutrino Oscillation Measurements", Nature 599, 565 (2021).

32. R. Dupre et al. (CLAS Collaboration), "Measurement of Deeply Virtual Compton Scattering off Helium-4 with CLAS at Jefferson Lab", Phys. Rev. C 104, 025203 (2021).

33. I. Korover et al. (CLAS Collaboration), "12C(e,e'pN) Measurments of Short Rane Correlations in the Tensor-to-Scaler Nucleon-Nucleon Interaction Transition Region", Phys. Lett. B 820, 136523 (2021).

34. N. Zachariou et al. (CLAS Collaboration), "Double Polarization Observable G for Single Pion Photoproduction from the Proton", Phys. Lett. B 817, 136304 (2021).

35. X. Zheng et al. (CLAS Collaboration), "Measurement of the Proton Spin Structure at Long Distances", Nature Physics 17, 6 (2021).

36. T.B. Hayward *et al. (CLAS Collaboration)*, "Observation of Beam Spin Asymmetries in the Process $ep \rightarrow e\pi^+\pi^-X$ with CLAS12", Phys. Rev. Lett. 126, 152501 (2021).

37. M. Carver et al. (CLAS Collaboration), "Photoproduction of the f2(1270) Meson Using the CLAS Detector", Phys. Rev. Lett. 126, 082002 (2021).

38. U. Shrestha et al. (CLAS Collaboration), "Differential Cross Sections for Λ(1520) Using Photoproduction at CLAS", Phys. Rev. C 103, 025206 (2021).

39. M. Mirazita et al. (CLAS Collaboration), "Beam-Spin Asymmetry in Semi-Inclusive Electroproduction of Hadron Pairs", Phys. Rev. Lett 126, 062002 (2021).

40. Y.G. Sharabian et al., "The CLAS12 High Threshold Cherenkov Counter", Nucl. Inst. and Meth. A 968, 163824 (2020).

41. V.I. Mokeev et al. (CLAS Collaboration), “Evidence for the N (1720)3/2+ nucleon resonance from combined studies of CLAS $\pi^+\pi^-p$ photo- and electroproduction data,” Phys. Lett. B 805, 135457 (2020).

42. Y.G. Sharabian et al., “The CLAS12 high threshold Cherenkov counter,” Nucl. Instrum .Meth. A 968 163824 (2020).

43. M. Contalbrigo et al., "The CLAS12 Ring Imaging Cherenkov Detector", Nucl. Inst. and Meth. A 964, 163791 (2020).

44. V.D. Burkert et al. (CLAS Collaboration), "The CLAS12 Spectrometer at Jefferson Laboratory", Nucl. Inst. and Meth. A 959, 163419 (2020).

45. D.S. Carman, K. Joo, and V.I. Mokeev, “Strong QCD Insight from Excited Nucleon Structure Studies with CLAS and CLAS12,” Few-Body Systems 61,29 (2020).

46. T. Hu et al. (*CLAS Collaboration*), "Photoproduction of η Mesons off the Proton for $1.2 < E\gamma < 4.7$ GeV Using CLAS at Jefferson Laboratory", Phys. Rev. C 102, 065203 (2020).

47. S. Diehl *et al. (CLAS Collaboration)*, "Extraction of Beam Asymmetries from the Hard π^+ Channel off the Unpolarized Hydrogen Target in a Wide Range of Kinematics," Phys. Rev. Lett. 125, 182001 (2020).

48. A. Celentano et al. (*CLAS Collaboration*), "First Measurement of Direct Photoproduction of the $a_2(1320)^0$ Meson on the Proton", Phys. Rev. C 102, 032201(R) (2020).

49. A. Schmidt *et al. (CLAS Collaboration)*, "Probing the Core of the Strong Nuclear Interaction", Nature 578, 540 (2020).

50. N. Zachariou *et al. (CLAS Collaboration)*, "Beam-Target Helicity Asymmetry E in $K^+\Sigma^+$ Photoproduction on the Neutron," Phys. Lett. B 808 (2020).

51. N. Markov *et al. (CLAS Collaboration)*, "Exclusive π^0p Electroproduction off Protons in the Resonance Region at Photon Virtualities $0.4 < Q^2 < 1$ GeV^2," Phys. Rev. C 101, 015208 (2020).

52. M. Duer *et al. (CLAS Collaboration)*, "Measurement of Nuclear Transparency Ratios for Protons and Neutrons," arXiv:1811.01823, accepted for publication in Phys. Rev. Lett. (2019).

53. M. Hattawy *et al. (CLAS Collaboration)*, "Exploring the Structure of the Bound Proton with Deeply Virtual Compton Scattering," Phys. Rev. Lett. 123, 032502 (2019).

54. M. Duer *et al. (CLAS Collaboration)*, "Direct Observation of Proton-Neutron Short-Range Correlation Dominance in Heavy Nuclei," Phys. Rev. Lett. 122, 172502 (2019).

55. P. Roy *et al. (CLAS Collaboration)*, "First Measurements of the Double-Polarization Observables F, P, and H in ω Photoproduction off Transversely-Polarized Protons in the N* Resonance Region," Phys. Rev. Lett. 122, 162301 (2019).

56. Schmookler *et al. (CLAS Collaboration)*, "Modified Structure of Protons and Neutrons in 2 Correlated Pairs," Nature 566, 354 (2019).

57. Zhao et al. *(CLAS Collaboration)*, "Measurement of the Beam Spin Asymmetry of ep → e'p'η in the Deep-Inelastic Regime with CLAS," Phys. Lett B. 789, 426 (2019).

58. Golovatch *et al. (CLAS Collaboration)*, "First Results on Nucleon Resonance Photocouplings from γ^* p → $\pi^+\pi^-$p Cross Sections," Phys. Lett. B 788, 371 (2019).

59. J. Goetz *et al. (CLAS Collaboration)*, "Study of Ξ* Photoproduction from Threshold to W=3.3 GeV," Phys. Rev. 98, 062201(R) (2018).

60. D.H. Ho *et al. (CLAS Collaboration)*, "Beam-Target Helicity Asymmetry E in $K^0\Lambda$ and $K^0\Sigma^0$ Photoproduction on the Neutron," Phys. Rev. C 98, 045205 (2018).

61. N. Saylor *et al. (CLAS Collaboration)*, "Measurement of Unpolarized and Polarized Cross Sections for Deeply Virtual Compton on the Proton at Jefferson Laboratory with CLAS," Phys. Rev. C 98, 045203 (2018).

62. S. Lombardo *et al. (CLAS Collaboration)*, "Photoproduction of K^+K^- Meson Pairs on the Proton," Phys. Rev. D 98, 052009 (2018).

63. Cohen *et al. (CLAS Collaboration)*, "The Center of Mass Motion of Short-Range Correlated Nucleon Pairs Studies via the A(e,e'pp) Reaction," Phys. Rev. Lett. 121, 095201 (2018).

64. Fedotov *et al. (CLAS Collaboration)*, "Measurements of γ^*p → p' $\pi^+\pi^-$ Cross Section with the CLAS Detector for 0.4 GeV^2 <Q2< 1.0 GeV^2 and 1.3 GeV < W < 1.825 GeV," Phys. Rev. C 98, 025203 (2018).

65. J. Bono *et al. (CLAS Collaboration)*, "First Measurement of Ξ^- Polarization in Photoproduction," Phys. Lett. B 783, 280 (2018).

66. M. Kunkel *et al. (CLAS Collaboration)*, "Exclusive Photoproduction of π0 up to Large Values of Mandelstam Variables *s,t,* and *u* with CLAS," Phys. Rev. C 98, 015207 (2018).

67. S. Jawalkar *et al. (CLAS Collaboration)*, "Semi-Inclusive π^0 Target and Beam-Target Asymmetries from 6 GeV Electron Scattering with CLAS," Phys. Lett. B 782, 662 (2018).

68. T. Chetry *et al. (CLAS Collaboration)*, "Differential Cross Section for $\gamma d \rightarrow \omega d$ Using CLAS at Jefferson Lab," Phys. Lett. B 782, 646 (2018).

69. M. Duer *et al. (CLAS Collaboration)*, "Probing High Momentum Protons and Neutrons in Asymmetric Nuclei," Nature 560, 617 (2018).

70. P. Roy *et al. (CLAS Collaboration)*, "Measurement of the Beam Asymmetry Σ and the Target Asymmetry T in the Photoproduction of ω Mesons off the Proton using CLAS at Jefferson Laboratory," Phys. Rev. C 97, 055202 (2018).

71. K. Park *et al. (CLAS Collaboration)*, "Hard Exclusive Pion Electroprodution at Backward," Phys. Lett. B 780, 340-345 (2018).

72. S. Chandvar *et al. (CLAS Collaboration)*, "Double Photoproduction off the Proton at CLAS," Phys. Rev. C 97, 025203 (2018).

73. K. P. Adhikari *et al. (CLAS Collaboration)*, "Measurement of the Q2 Dependence of the Deuteron Spin Structure Function g1 and its Moments at $0.02 < Q^2 < 0.7$ GeV^2 with CLAS," Phys. Rev. Lett. 120, 062501 (2018).

74. Z. Akbar *et al. (CLAS Collaboration)*, "Measurement of the Helicity Difference E in $\omega \rightarrow \pi^+\pi^-\pi^0$ Photoproduction," Phys. Rev. C 96, 065209 (2017).

75. R.G. Fersch *et al. (CLAS Collaboration)*, "Determination of the Proton Spin Structure Functions for $0.05 < Q^2 < 5$ GeV^2 Using CLAS," Phys. Rev. C 96, 065208 (2017).

76. N. Compton *et al. (CLAS Collaboration)*, "Measurement of the Differential and Total Cross Sections of the $\gamma d \rightarrow K^0\Lambda$ Reaction within the Resonance Region," Phys. Rev. C 96, 065201 (2017).

77. M. Hattawy *et al. (CLAS Collaboration)*, "First Exclusive Measurement of Deeply Virtual Compton Scattering off ^{4}He: Toward the 3D Tomography of Nuclei," Phys. Rev. Lett. 119, 202004 (2017).

78. P.T. Mattione *et al. (CLAS Collaboration)*, "Differential Cross Section Measurements for $\gamma n \rightarrow \pi^- p$ Above the First Nucleon Resonance Region," Phys. Rev. C 96, 035204 (2017).

79. E.L. Isupov *et al. (CLAS Collaboration)*, "Measurements of $ep \rightarrow e'\pi^+\pi^- p$ Cross Sections with CLAS at 1.40 GeV < W < 2.0 GeV and 2.0 GeV^2 < Q^2 < 5.0 GeV^2," Phys. Rev. C 96, 025209 (2017).

80. P. Collins *et al. (CLAS Collaboration)*, " Photon Beam Asymmetry Σ in the Reaction $\gamma p \rightarrow p\omega$ for E_γ=1.152 to 1.876 GeV," Phys. Lett. B 773, 112 (2017).

81. Ho *et al. (CLAS Collaboration)*, "Beam-Target E Asymmetry for $\gamma n \rightarrow \pi^- p$ in the N* Resonance Region," Phys. Rev. Lett. 118, 242002 (2017).

82. P. Collins *et al. (CLAS Collaboration)*, "Photon Beam Asymmetry Σ for η and η' Photoproduction from the Proton," Phys. Lett. B 771, 213 (2017).

83. A.V. Anisovich *et al. (CLAS Collaboration)*, "Differential Cross Sections and Polarization Observables from CLAS K* Photoproduction and the Search for New N* States," Phys. Lett. B 771, 142 (2017).

84. Rimal *et al. (CLAS Collaboration)*, "Measurement of Two-Photon Exchange Effect by Comparing Elastic $e^{+/-}$ p Cross Sections," Phys. Rev. C 95, 065201 (2017).

85. P. Bosted *et al. (CLAS Collaboration)*, "Target and Beam-Target Spin Asymmetries in Exclusive π^0 Electroproduction for Q2 > 1 GeV^2 ep $\rightarrow e'\pi^0 p$," Phys. Rev. C 95, 035207 (2017).

86. P. Bosted *et al. (CLAS Collaboration)*, "Target and Beam-Target Spin Asymmetries in Exclusive π^+ Electroproduction for Q2 > 1 GeV2 ep $\rightarrow e'\pi^+ n$," Phys. Rev. C 95, 035206 (2017).

87. Bedlinskiy *et al. (CLAS Collaboration)*, "Exclusive η Electroproduction at W > 2 GeV with CLAS and Transversity GPDs," Phys. Rev. C 95, 035202 (2017).

88. M. Mayer *et al. (CLAS Collaboration)*, "Beam-Target Double Spin Asymmetry in Quasi-Elastic Electron Scattering off the Deuteron with CLAS," Phys. Rev. C 95, 024005 (2017).

89. A. Kim *et al. (CLAS Collaboration)*, "Target and Double Spin Asymmetries of Deeply Virtual π^0 Production with a Longitudinally Polarized Proton Target and CLAS," Phys. Lett. B 768, 168 (2017).

90. P. Bosted *et al. (CLAS Collaboration)*, "Target and Beam-Target Spin Asymmetries in Exclusive π^+ and π^- Electroproduction with 1.6 to 5.7 GeV Electrons," Phys. Rev. C 94, 055201 (2016).

91. X. Zheng *et al. (CLAS Collaboration)*, "Measurement of Target and Double-Spin Asymmetries for the ep $\rightarrow e\pi^+(n)$ Reaction in the Nucleon Resonance Region at Low Q^2," Phys. Rev. C 94, 045206 (2016).

92. R. Dickson *et al. (CLAS Collaboration)*, "Photoproduction of the f_1 Meson," Phys. Rev. C 93, 065202 (2016).

93. C.A. Paterson *et al. (CLAS Collaboration)*, "Photoproduction of Λ and Σ^0 Hyperons Using Linearly Polarized Photons," Phys. Rev. C 93, 065201 (2016).

94. A. Senderovich *et al. (CLAS Collaboration)*, "First Measurements of the Helicity Asymmetry E in η Photoproduction on the Proton," Phys. Lett. B 755, 64 (2016).

95. H.S. Jo *et al. (CLAS Collaboration)*, "Cross Sections for the Exclusive Photon Electroproduction on the Proton and Generalized Parton Distributions," Phys. Rev. Lett. 115, 212003 (2015).

96. N. Guler *et al. (CLAS Collaboration)*, "Precise Determination of the Deuteron Spin Structure at Low to Moderate Q^2 with CLAS and Extraction of the Neutron Contribution," Phys. Rev. C 92, 055201 (2015).

97. M.E. McCracken *et al. (CLAS Collaboration)*, "A Search for Baryon- and Lepton-Number Violating Decays of Λ Hyperons Using the CLAS Detector at Jefferson Laboratory," Phys. Rev. D. 92, 072002 (2015).

98. S. Strauch *et al. (CLAS Collaboration)*, "First Measurement of the Polarization Observable E in the $p(\gamma,\pi^+)n$ Reaction up to 2.25 GeV," Phys. Lett. B 750, 53 (2015).

99. N. Zachariou *et al. (CLAS Collaboration)*, "Determination of the Beam-Spin Asymmetry of Deuteron Photodisintegration in the Energy Region E_γ = 1.1 - 2.3 GeV," Phys. Rev. C 91, 055202 (2015).

100. K. Park *et al. (CLAS Collaboration)*, "Measurements of ep $\rightarrow$ e' $\pi^+ n$ at 1.6 < W < 2.0 GeV and Extraction of Nucleon Resonance Electrocouplings at CLAS," Phys. Rev. C 91, 045203 (2015).

101. S. Pisano *et al. (CLAS Collaboration)*, "Single and Double Spin Asymmetries for Deeply Virtual Compton Scattering Measured with CLAS and a Longitudinally Polarized Proton Target," Phys. Rev. D 91, 052014 (2015).

102. Adikaram *et al. (CLAS Collaboration)*, "Towards a Resolution of the Proton Form Factor Problem: New Electron and Positron Scattering Data," Phys. Rev. Lett. 114, 062003 (2015).

103. Seder *et al. (CLAS Collaboration)*, "Longitudinal Target-Spin Asymmetries for Deeply Virtual Compton Scattering," Phys. Rev. Lett. 114, 032001 (2015).

104. O. Hen *et al. (CLAS Collaboration)*, "Momentum Sharing in Imbalanced Fermi Systems," Science 346, 614 (2014)

105. M.D. Mestayer *et al. (CLAS Collaboration)*, "Flavor Dependence of q-q Creation Observed in the Exclusive Limit," Phys. Rev. Lett. 113, 152004 (2014).

106. M. Gabrielyan *et al. (CLAS Collaboration)*, "Induced Polarization of $\Lambda(1116)$ in Kaon Electroproduction," Phys. Rev. C 90, 035202 (2014).

107. Y. Prok *et al. (CLAS Collaboration)*, "Precision Measurements of g_1 of the Proton and the Deuteron with 6 GeV Electrons," Phys. Rev. C 90, 025212 (2014).

108. Bedlinskiy *et al. (CLAS Collaboration)*, "Exclusive π^0 Electroproduction at W > 2 GeV with CLAS," Phys. Rev. C 90, 025205 (2014).

109. B. Dey *et al. (CLAS Collaboration)*, "Data Analysis Techniques, Differential Cross Sections, and Spin Density Matrix Elements for the Reaction $\gamma p \rightarrow \phi p$," Phys. Rev. C 89, 055208 (2014).

110. Seraydaryan *et al. (CLAS Collaboration)*, "ϕ Meson Photoproducution on Hydrogen in the Neutral Decay Mode," Phys. Rev. C 89, 055206 (2014).

111. S. Tkachenko *et al. (CLAS Collaboration)*, "Measurement of the Free Neutron Structure Function Using Spectator Tagging in Inelastic $d(e,e'p_s)X$ Scattering with CLAS," Phys. Rev. C 89, 045206 (2014).

112. W. Gohn *et al. (CLAS Collaboration)*, "Beam-spin Asymmetries from Semi-inclusive Pion Electroproduction," Phys. Rev. D 89, 072011 (2014).

113. K. Moriya *et al. (CLAS Collaboration)*, "Differential Photoproduction Cross Sections for the $\Sigma^0(1385)$, $\Lambda(1405)$, and $\Lambda(1520)$," Phys. Rev. C 88, 045201 (2013).

114. K. Moriya *et al. (CLAS Collaboration)*, "Measurement of the Spin and Parity of the $\Lambda(1405)$," Phys. Rev. Lett. 112, 082004 (2014).

115. M. Dugger *et al. (CLAS Collaboration)*, "Beam Asymmetry Σ for π^+ and π^0 Photoproduction on the Proton for Photon Energies from 1.102 to 1.862 GeV," Phys. Rev. C 88, 065203 (2013).

116. H.Y. Lu *et al. (CLAS Collaboration)*, "First Observation of the Line Shape of the $\Lambda(1405)$ in Electroproduction," Phys. Rev. C 88, 045202 (2013).

117. K. Moriya *et al. (CLAS Collaboration)*, "Measurement of the Sigma pi Photoproduction Line Shapes Near the $\Lambda(1405)$," Phys. Rev. C. 87, 035206 (2013).

118. M. Moteabbed *et al. (CLAS Collaboration)*, "Demonstration of a Novel Technique to Measure Two-Photon Exchange Effects in Elastic $e^{+/-}p$ Scattering," Phys. Rev. C 88, 025210 (2013).

119. W. Tang *et al. (CLAS Collaboration)*, "Cross sections for $\gamma^* p \rightarrow K^{*+}\Lambda$ and $\gamma^* p \rightarrow K^{*+}\Sigma^+$ reactions," Phys. Rev. C 87, 065204 (2013).

120. Pomerantz *et al. (CLAS Collaboration)*, "Hard Two Body Photo-integration of ^{3}He," Phys. Rev. Lett. 110, 242301 (2013).

121. C. Nepali *et al. (CLAS Collaboration)*, "Transverse Polarization of $\Sigma^+(1189)$ in Photoproduction on a Hydrogen Target in CLAS," Phys. Rev. C 87, 045206 (2013).

122. D.S. Carman *et al. (CLAS Collaboration)*, "Separated Structure Functions for Exclusive $K^+\Lambda$ and $K^+\Sigma^0$ Electroproduction at 5.5 GeV with CLAS," Phys. Rev. C 87, 025204 (2013).

123. O. Hen *et al. (CLAS Collaboration)*, "Measurement of transparency ratios for protons from short-range correlated pairs," Phys. Lett. B 722, 242301 (2013).

124. K. Park *et al. (CLAS Collaboration)*, "Deep exclusive □+ electroproduction off the proton at CLAS," Eur. Phys. J. A 49 16 (2013).

125. P. Khetarpal *et al. (CLAS Collaboration)*, "Near Threshold Neutral Pion Electroproduction at High Momentum Transfers and Generalized Form Factors," Phys. Rev. C. 87, 045205 (2013).

126. Bedlinkskiy *et al. (CLAS Collaboration)*, "Measurement of Exclusive pi0 Electroproduction Structure Functions and their Relationship to Transversity GPDs," Phys. Rev. Lett. 109, 112001 (2012).

127. V. Mokeev *et al. (CLAS Collaboration)*, "A comparison of forward and backward pp pair knockout in ^{3}He(e,e'pp)n," Phys. Rev. C 86, 035203 (2012).

128. Baghdasaryan *et al. (CLAS Collaboration)*, "Measurement of the Sigma pi Photoproduction Line Shapes Near the $\Lambda(1405)$," Phys. Rev. C 85, 064318 (2012).

129. D. Keller *et al. (CLAS Collaboration)*, "Branching ratio of the electromagnetic decay of $\Sigma^+(1385)$," Phys. Rev. D 85, 059903 (2012).

130. Park *et al. (CLAS Collaboration)*, "Measurement of the generalized form factors near threshold via $\Sigma^* p \rightarrow n\pi^+$ at high Q^2," Phys. Rev. C 85, 035208 (2012).

131. Egiyan *et al. (CLAS Collaboration)*, "Upper limits for the photoproduction cross section for the $\phi^{--}(1860)$ pentaquark state off the deuteron," Phys. Rev. C 85, 015205 (2012).

132. ASaturyan *et al.*, "Semi-inclusive charged-pion electroproduction off protons and deuterons: cross sections, ratios, and access to the quark-parton model at low energies," Phys. Rev. C 85, 015202 (2012).

133. S.H. Hwang *et al.*, "Spin-Density Matrix Elements for $\gamma p \rightarrow K^{*0}\Sigma^+$ at $E\gamma$=1.85-3.0 GeV with Evidence for the $\kappa(800)$ Meson Exchange," Phys. Rev. Lett. 108, 092001 (2012).

134. D. Keller *et al. (CLAS Collaboration)*, "Electromagnetic decay of □0(1385) to $\Lambda\gamma$," Phys. Rev. D 83, 072004 (2011).

135. A. Daniel *et al. (CLAS Collaboration)*, "Measurements of the nuclear multiplicity ratio for Ks0 hadronization at CLAS," Phys. Lett. B 706, 26-31 (2011).

136. M. Aghasyan *et al. (CLAS Collaboration)*, "Precise measurements of beam spin asymmetries in semi-inclusive π^0 production," Phys. Lett. B 704, 397-402 (2011).

137. X. Qian *et al. (CLAS Collaboration)*, "Near-threshold photoproduction of □ mesons from deuterium," Phys. Lett. B 696, 338 (2011).

138. Avakian et al. *(CLAS Collaboration)*, "Measurement of Single- and Double-Spin Asymmetries in Deep Inelastic Pion Electroproduction with a Longitudinally Polarized Target," Phys. Rev. Lett. 105, 262002 (2010).

139. H. Baghdasaryan *et al. (CLAS Collaboration)*, "Tensor correlations Measured in ^{3}H(e,e'pp)n," Phys. Rev. Lett. 105, 222501 (2010).

140. S. Anefalos *et al. (CLAS Collaboration)*, "Differential cross section of $\gamma n \rightarrow K^+\Sigma^-$ on bound neutrons with incident photons from 1.1 to 3.6 GeV," Phys. Lett. B 688, 289 (2010).

141. M. Wood *et al. (CLAS Collaboration)*, "Absorption of the ω and ϕ Mesons in Nuclei," Phys. Rev. Lett. 105, 112301 (2010).

142. B. Dey *et al. (CLAS Collaboration)*, "Differential Cross Sections and Recoil Polarizations for the Reaction $\gamma p \rightarrow K^+\Sigma^0$," Phys. Rev. C 82, 025202 (2010).

143. M. Osikpenko *et al. (CLAS Collaboration)*, "Measurement of the Nucleon Structure Function F_2 in the Nuclear Medium and Evaluation of its Moments," Nucl. Phys. A 845, 1-32 (2010).

144. Y. Ilieva *et al. (CLAS Collaboration)*, "Observation of a Backward Peak in the $\gamma d \rightarrow \pi^0 d$ Cross Section Near the η Threshold," Eur. Phys. J. A 43, 261 (2010).

145. W. Chen *et al. (CLAS Collaboration)*, "A Measurement of the Differential Cross Section for the Reaction $\gamma n \rightarrow \pi^- p$ from Deuterium," Phys. Rev. Lett. 103, 012301 (2009).

146. M. Williams *et al. (CLAS Collaboration)*, "Partial Wave Analysis of the Reaction $\gamma p \rightarrow p\omega$ and the Search for Nucleon Resonances," Phys. Rev. C 80, 065209 (2009).

147. M. Williams *et al. (CLAS Collaboration)*, "Differential Cross Sections and Spin Density Matrix Elements for $\gamma p \rightarrow p\omega$," Phys. Rev. C 80, 065208 (2009).

148. I.G. Aznauryan *et al. (CLAS Collaboration)*, "Electroexcitation of Nucleon Resonances from CLAS Data on Single Pion Electroproduction," Phys. Rev. C 80, 055203 (2009).

149. M. Williams *et al. (CLAS Collaboration)*, "Differential Cross Sections for the Reactions $\gamma p \rightarrow p\eta$ and $\gamma p \rightarrow p\eta'$," Phys. Rev. C 80, 045213 (2009).

150. M. Battaglieri *et al. (CLAS Collaboration)*, "Photoproduction of $\pi^+\pi^-$ Meson Pairs on the Proton," Phys. Rev. D 80, 072005 (2009).

151. G. Gavalian *et al. (CLAS Collaboration)*, "Beam Spin Asymmetries in DVCS with CLAS at 4.8 GeV," Phys. Rev. C 80, 035206 (2009).

152. R. Nasseripour *et al. (CLAS Collaboration)*, "Photodisintegration of ^{4}He into p+t," Phys. Rev. C 80, 044603 (2009).

153. X. Qian *et al. (CLAS Collaboration)*, "The Extraction of ϕ-N Total Cross Section from $d(\gamma,pK^+K^-)n$," Phys. Lett. B 680, 417 (2009).

154. M. Osipenko *et al. (CLAS Collaboration)*, "Measurement of Unpolarized Semi-Inclusive π^+ Electroproduction off the Proton," Phys. Rev. D 80, 032004 (2009).

155. M. Dugger *et al. (CLAS Collaboration)*,"π^+ Photoproduction on the Proton for Photon Energies from 0.725 to 2.875 GeV," Phys. Rev. C 79, 065206 (2009).

156. D.S. Carman *et al. (CLAS Collaboration)*, "Beam-Recoil Polarization Transfer in the Nucleon Resonance Region in the Exclusive e p → e' K^+ Λ and e p → e' $K^+\Sigma^0$ Reactions," Phys. Rev. C 79, 065205 (2009).

157. Lachinet *et al. (CLAS Collaboration)*, "A Precise Measurement of the Neutron Magnetic Form Factor in the Few-GeV^2 Region," Phys. Rev. Lett. 102, 192001 (2009).

158. M. Battaglieri *et al. (CLAS Collaboration)*, "First measurement of direct $f_0(980)$ photoproduction on the proton," Phys. Rev. Lett. 102, 102002 (2009).

159. G.V. Fedotov *et al. (CLAS Collaboration)*, "Electroproduction of p □+ □- off protons at 0.2 < Q2 < 0.6-GeV^2 and 1.3 < W < 1.57-GeV with CLAS," Phys. Rev. C79, 015204 (2009).

160. S.A. Morrow *et al. (CLAS Collaboration)*, "Exclusive □0 electroproduction on the proton at CLAS," Eur. Phys. J A39, 5-31 (2009).

161. N. Nozar *et al. (CLAS Collaboration)*, "Search for the photo-excitation of exotic mesons in the $\pi^+ \pi^+ \pi^-$ system," Phys. Rev. Lett. 102, 102001 (2009).

162. Y. Pork *et al. (CLAS Collaboration)*, "Moments of the Spin Structure Functions and for $0.05 < Q^2 < 3.0$ GeV^2," Phys. Lett. B 672, 12-16 (2009).

163. A.S. Biselli *et al. (CLAS Collaboration)*, "First measurement of target and double spin asymmetries for $ep \rightarrow ep\pi^0$ in the nucleon resonance region above the $\Delta(1232)$," Phys. Rev. C78, 045204 (2008).

164. I.G. Azauryan *et al. (CLAS Collaboration)*, "Electroexcitation of the Roper resonance for $1.7 < Q^2 < 4.5$ GeV^2 in $ep \rightarrow ep\pi^+$," Phys. Rev. C78, 045209 (2008).

165. J.P. Santoro *et al. (CLAS Collaboration)*, "Electroproduction of □(1020) mesons at $1.4 < Q^2 < 3.8$ GeV^2 measured with the CLAS spectrometer," Phys. Rev. C78, 025210 (2008).

166. P.E. Bosted *et al. (CLAS Collaboration)*, "Ratios of N15/C12 and ^{4}He/^{12}C inclusive electroproduction cross sections in the nucleon resonance region," Phys. Rev. C78, 015202 (2008).

167. M.H. Wood *et al. (CLAS Collaboration)*, "Light Vector Mesons in the Nuclear Medium," Phys. Rev. C78, 015201 (2008).

168. R. Nasseripour *et al. (CLAS Collaboration)*, "Polarized Structure Function□□LT' for p(e, e'K^+) Λ in the Nucleon Resonance Region," Phys. Rev. C77, 065208 (2008).

169. H. Mkrtchyan *et al. (CLAS Collaboration)*, "Transverse momentum dependence of semi-inclusive pion production," Phys. Lett. B 665, 20-25 (2008).

170. F.X. Girod *et al. (CLAS Collaboration)*, "Deeply virtual Compton scattering beam-spin asymmetries," Phys. Rev. Lett. 100, 162002, 6pp (2008).

171. R. De Masi *et al. (CLAS Collaboration)*, "Measurement of $ep \rightarrow ep\pi^0$ beam spin asymmetries above the resonance region," Phys. Rev. C 77, 042201, 5pp (2008).

172. D.G. Ireland *et al. (CLAS Collaboration)*, "A Bayesian analysis of pentaquark signals from CLAS data," Phys. Rev. Lett. 100, 052001, 6pp (2008).

173. Park *et al. (CLAS Collaboration)*, "Cross sections and beam asymmetries for $ep \rightarrow en\pi^+$ in the nucleon resonance region for 1.7 < Q2 < 4.5 GeV2," Phys. Rev. C 77, 015208, 23pp (2008).

174. R. Nasseripour *et al. (CLAS Collaboration)*, "Search for medium modification of the ρ meson," Phys. Rev. Lett. 99, 262302, 33pp (2007).

175. T. Mibe *et al. (CLAS Collaboration)*, "First measurement of coherent □-meson photoproduction on deuteron at low energies," Phys. Rev. C 76, 052202, 6pp (2007).

176. M. Dugger *et al. (CLAS Collaboration)*, "π^0 photoproduction on the proton for photon energies from 0.675 to 2.875 GeV," Phys. Rev. C 76, 025211, 20pp (2007).

177. Guo *et al. (CLAS Collaboration)*, "Cascade production in the reactions $\gamma p \rightarrow K^+ K^+ (X)$ and $\gamma p \rightarrow K^- K^- (X)$," Phys. Rev. C 76, 025208, 9pp (2007).

178. H. Denizli *et al. (CLAS Collaboration)*, "Q^2 dependence of the S11(1535) photocoupling and evidence for a P-wave resonance in eta electroproduction," Phys. Rev. C 76, 015204, 31pp (2007).

179. K.S. Egiyan *et al. (CLAS Collaboration)*, "Experimental study of exclusive D(e,e'p)n reaction mechanisms at high Q^2," Phys. Rev. Lett. 98, 262502, 6pp (2007).

180. V.D. Burkert *et al. (CLAS Collaboration)*, "Isobar channels in the production of $\pi^+\pi^-$ pairs on a proton by virtual photons," Phys. At. Nucl. 70 427-440 (2007).

181. P. Ambrozewicz *et al. (CLAS Collaboration)*, "Separated Structure Functions for the Exclusive Electroproduction of $K^+\Lambda$ and $K^+\Sigma^0$ Final States," Phys. Rev. C 75, 04203 26pp (2007).

182. T. Navasardyan *et al. (CLAS Collaboration)*, "Onset of Quark-Hadron Duality in Pion Electroproduction," Phys. Rev. Lett. 98, 022001 5pp (2007).

183. Hleiqawi *et al. (CLAS Collaboration)*, "Cross sections for the $\gamma p \rightarrow K^{*0}\Sigma^+$ reaction at E_γ=1.7 - 3.0 GeV," Phys. Rev. C 75, 042201 6pp (2007).

184. R.K. Bradford *et al. (CLAS Collaboration)*, "First measurement of beam-recoil observables C_x and C_z in hyperon photoproduction," Phys. Rev. C 75, 035205 25pp (2007).

185. P.E. Bosted *et al. (CLAS Collaboration)*, "Quark-hadron duality in spin structure functions and ," Phys. Rev. C 75, 035203 15pp (2007).

186. Ungaro *et al. (CLAS Collaboration)*, "Measurement of $N \rightarrow \Delta(1232)$ Transition at High Momentum Transfer by π^0 Electroproduction," Phys. Rev. Lett. 97, 112003 6pp (2006).

187. K.V. Dharmawardane *et al. (CLAS Collaboration)*, "Measurement of x- and Q^2- Dependence of the Asymmetry A1 on the Nucleon," Phys. Lett. B 641, 11-17 (2006).

188. V. Kubarovsky *et al. (CLAS Collaboration)*, "Search for θ^+ Pentaquark in the Exclusive Reaction of $\gamma p \rightarrow K^+K^-$ p," Phys. Rev. Lett. 97, 102001 6pp (2006).

189. R. De Vita *et al. (CLAS Collaboration)*, "Search for + Pentaquark in the reactions of $\gamma p \rightarrow K^0K^+n$ and $\gamma p \rightarrow K^0K^0p$," Phys. Rev. D 74, 032001 16pp (2006).

190. S. Chen *et al. (CLAS Collaboration)*, "Measurement of Deeply Virtual Compton Scattering with a Polarized-Proton Target," Phys. Rev. Lett. 97, 072002 5pp (2006).

191. S. Niccolai *et al. (CLAS Collaboration)*, "Search for the + Pentaquark in the $\gamma d \rightarrow \Lambda nK+$ reaction measured with CLAS," Phys. Rev. Lett. 97, 032001 6pp (2006).

192. B. McKinnon *et al. (CLAS Collaboration)*, "Search for + Pentaquark in the Reaction $\gamma d \rightarrow pK^+K^-n$," Phys. Rev. Lett. 96, 212001 6pp (2006).

193. Osipenko *et al. (CLAS Collaboration)*, "The deuteron Structure Function F_2 with CLAS," Phys. Rev. C 73, 045205 22pp (2006).

194. O. Klimenko *et al. (CLAS Collaboration)*, "Electron Scattering from High-Momentum Neutrons in Deuterium," Phys. Rev. C 73, 035212 14pp (2006).

195. R. Bradford *et al. (CLAS Collaboration)*, "Differential Cross Sections for $\gamma p -> K^+Y$ for Λ and Σ^0 Hyperons," Phys. Rev. C 73, 035202 36pp (2006).

196. H. Egiyan and K. Joo *et al. (CLAS Collaboration)*, "Single + Electroproduction on the Proton in the First and Second Resonance Regions at 0.25 $GeV^2 < Q^2 < 0.65$ GeV^2 Using CLAS," Phys. Rev. C 73, 025204 32pp (2006).

197. K.S. Egiyan *et al. (CLAS Collaboration)*, "Measurement of 2- and 3-Nucleon Short Range Correlation Probabilities in Nuclei," Phys. Rev. Lett. 96, 082051 6pp (2006).

198. Dugger *et al. (CLAS Collaboration)*, "η' Photoproduction on the Proton for Photon Energies from 1.527 to 2.227 GeV," Phys. Rev. Lett. 96, 062001 6pp (2006).

199. M. Battaglieri *et al. (CLAS Collaboration)*, "Search for θ^+ Pentaquark in high statistics measurement of $\gamma p \rightarrow K^0 K^+ n$ at CLAS," Phys. Rev. Lett. 96, 042001 6pp (2006).

200. S. Strauch *et al. (CLAS Collaboration)*, "Beam Helicity Asymmetries in Double-Charged-Pion Photoproduction on the proton," Phys. Rev. Lett. 95, 162003 6pp (2005).

201. K. Joo *et al. (CLAS Collaboration)*, "Measurement of the Polarized Structure Function $\sigma_{LT'}$ for Pion Electroproduction in the Roper Resonance Region," Phys. Rev. C 72, 058202 5pp (2005).

202. S. Taylor *et al. (CLAS Collaboration)*, "Radiative decays of the Σ(1385) and Λ(1520) Hyperons," Phys. Rev. C 71, 054609 14pp (2005).

203. Morand *et al. (CLAS Collaboration)*, "Deeply Virtual and Exclusive Electroproduction of Omega Mesons," European Physics Journal A 24, 445-458 (2005).

204. J. Price *et al. (CLAS Collaboration)*, "Exclusive Photoproduction of the Cascade (Ξ) Hyperons," Phys. Rev. C 71, 058201 5pp (2005).

205. I.G. Aznauryan, V.D. Burkert, H. Egiyan, K. Joo, R. Minehart and L.C. Smith, "Electroexcitation of the $P_{33}(1232)$, $P_{11}(1440)$, $D_{13}(1520)$, and $S_{11}(1535)$ at $Q^2 = 0.40$ and $Q^2 = 0.65$ $(GeV/c)^2$," Phys. Rev. C 71, 015201 9pp (2005).

206. C. Hadjidakis *et al. (CLAS Collaboration)*, "Exclusive ?0 Meson Electroproduction from Hydrogen at CLAS," Phys. Lett. B 605, 256 9pp (2005).

207. Rossi *et al. (CLAS Collaboration)*, "Onset of Asymptotic Scaling in Deuteron Photodisintegration," Phys. Rev. Lett. 94, 012301 5pp (2005).

208. D. Protopopescu *et al. (CLAS Collaboration)*, "Survey of $A_{LT'}$ Asymmetries in Semi-exclusive Electro Scattering on ^{3}He and ^{12}C," Nucl. Phys. A 748, 357 17pp (2005).

209. A.V. Stavinsky *et al. (CLAS Collaboration)*, "Proton Source Size Measurements in the $eA \rightarrow e'ppX$ Reaction," Phys. Rev. Lett. 93, 192301 6pp (2004).

210. S. Niccolai *et al. (CLAS Collaboration)*, "Complete Measurement of Three-body Photodisintegration of 3He for Photon Energies between 0.35 and 1.55 GeV," Phys. Rev. C 70, 064003 18pp (2004).

211. K. Joo *et al. (CLAS Collaboration)*, "Measurement of the polarized structure function ?LT' for $p(e,e'\pi^+)n$ in the Δ(1232) resonance region," Phys. Rev. C 70, 042201 6pp (2004).

212. K.G. Fissum *et al.*, "Dynamics of the Quasi-elastic ^{16}O(e,e'p) Reaction at Q^2=0.8 $(GeV/c)^2$," Phys. Rev. C 70, 034606 30pp (2004).

213. J. Alcorn *et al.*, "Basic Instrumentation for Hall A at Jefferson Lab," Nucl. Inst. and Meth. A 522, 294-346 (2004).

214. J.M. Grames *et al.*, "Unique Electron Polarimeter Analyzing Power Comparison and Precision Spin Based Energy Measurement," Phys. Rev. ST Accel. Beams 7, 042802 18pp (2004).

215. Mirazita *et al. (CLAS Collaboration)*, "Complete Angular Distribution Measurements of Two-Body Deuteron Photodisintegration between 0.5 and 3 GeV," Phys. Rev. C 70, 014005 12pp (2004).

216. H. Avakian *et al. (CLAS Collaboration)*, "Measurement of Beam Spin Asymmetries for Deep Inelastic ?+ Electroproduction," Phys. Rev. D 69, 112004 7pp (2004).

217. J.W.C. McNabb *et al. (CLAS Collaboration)*, "Hyperon Photoproduction in the Nucleon Resonance Region," Phys. Rev. C 69, 042201 5pp (2004).

218. K. McCormick *et al. (CLAS Collaboration)*, "Tensor Polarization of the ϕ meson Photoproduced at High t," Phys. Rev. C 69, 032203 5pp (2004).

219. R. Niyazov *et al. (CLAS Collaboration)*, "Two-Nucleon Momentum Distributions Measured in ^{3}He(e,e'pp)n," Phys. Rev. Lett. 92, 052303 5pp (2004).

220. V. Kubarovsky *et al. (CLAS Collaboration)*, "Observation of an exotic baryon with S=+1 in photoproduction from the proton," Phys. Rev. Lett. 92, 032001 5pp (2004).

221. S. Stepanyan *et al. (CLAS Collaboration)*, "Observation of an exotic S = +1 baryon in exclusive photoproduction from the deuteron," Phys. Rev. Lett. 91, 252001 5pp (2003).

222. R. Fatemi *et al. (CLAS Collaboration)*, "Measurement of the Proton Spin Structure Function g_1(x,Q2) for Q^2 from 0.15 to 1.6 GeV^2 with CLAS" Phys. Rev. Lett. 91, 222002 6pp (2003).

223. K. Joo *et al. (CLAS Collaboration)*, "Measurement of the polarized structure function $\sigma_{LT'}$ for p(e,e'π^0)n in the Δ(1232) resonance region," Phys. Rev. C 68, 032201 5pp (2003).

224. A. Biselli *et al. (CLAS Collaboration)*, "Study of ep$\rightarrow$epπ^0 in the Δ(1232) mass region using polarization asymmetries," Phys. Rev. C 68, 035202 14pp (2003).

225. K.S. Egiyan *et al. (CLAS Collaboration)*, "Observation of Nuclear Scaling in the A(e,e') Reaction at x_B>1," Phys. Rev. C 68, 014313 10pp (2003).

226. Osipenko *et al. (CLAS Collaboration)*, "A Kinematically Complete Measurement of the Proton Structure Function F_2 in the Resonance Region and Evaluation of its Moments," Phys. Rev. D 67, 092001 18pp (2003).

227. M. Ripani *et al. (CLAS Collaboration)*, "Measurement of ep□□ep□+□- and baryon resonance analysis," Phys. Rev. Lett. 91, 022002 6pp (2003).

228. J. Yun *et al. (CLAS Collaboration)*, "Measurement of Inclusive Spin Structure Functions of the Deuteron with CLAS," Phys. Rev. C 67, 055204 13pp (2003).

229. B. Mecking *et al. (CLAS Collaboration)*, "The CEBAF Large Acceptance Spectrometer," Nucl Inst. and Meth. A 503, 513-553 (2003).

230. D.S. Carman *et al. (CLAS Collaboration)*, "First measurement of transferred polarization in the exclusive ep $\rightarrow$ e'K$^+\Lambda$ reaction," Phys. Rev. Lett. 90, 131804 6pp (2003).

231. M. Battaglieri *et al. (CLAS Collaboration)*, "Photoproduction of the □ meson on the proton at large momentum transfer," Phys. Rev. Lett. 90, 022002 5pp (2003).

232. M. Dugger *et al. (CLAS Collaboration)*, "η photoproduction on the proton for photon energies from 0.75 to 1.95 GeV," Phys. Rev. Lett. 89, 222002 6pp (2002).

233. Akushevich, A. Afanasev, V.D. Burkert and K. Joo "QED radiative corrections in processes of exclusive pion electroproduction," Phys. Rev. D 66, 074004 13pp (2002).

234. K. Joo *et al. (CLAS Collaboration)*, "Q^2 dependence of quadrupole strength in the γ*p$\rightarrow\Delta$(1232) $\rightarrow$pπ^0 transition," Phys. Rev. Lett. 88, 122001 5pp (2002).

235. Z.-L. Zhou *et al.*, "Performance of a compact detector package for the out-of-plane spectrometer system," Nucl. Instr. Meth. A 484, 365-380 (2002).

236. R. De Vita *et al. (CLAS Collaboration)*, "First Measurement of the Double Spin Asymmetry in ep–>e'π^+ n in the Resonance Region," Phys. Rev. Lett. 88, 082001 6pp (2001).

237. S. Stepanyan *et al. (CLAS Collaboration)*, "Observation of exclusive DVCS in polarized electron beam asymmetry measurements," Phys. Rev. Lett. 87, 182002 5pp (2001).

238. S. Barrow *et al. (CLAS Collaboration)*, "Electroproduction of the Λ(1520) Hyperon," Phys. Rev. C 64, 044601 10pp (2001).

239. Z.-L. Zhou *et al.*, "Relativistic effects and two-body currents in ^{2}H(e,e'p)n using out-of-plane detection," Phys. Rev. Lett. 87, 172301 4pp (2001).

240. M. Battaglieri *et al. (CLAS Collaboration)*, "Photoproduction of ?0 Meson on the Proton at Large Momentum Transfer" Phys. Rev. Lett. 87, 172002 5pp (2001).

241. Liyanage et al., "Dynamics of the ^{16}O(e,e'p) Reaction at High Missing Energies," Phys. Rev. Lett. 86, 5670 5pp (2001).

242. K. Lukashin *et al. (CLAS Collaboration)*, "Exclusive electroproduction of ϕ mesons at 4.2-GeV," Phys. Rev. C 63, 065205 11pp (2001).

243. R. Thompson *et al. (CLAS Collaboration)*, "The p(e,e'p)η at and above the S_{11}(1535) baryon resonance," Phys. Rev. Lett. 86 1702 5pp (2001).

244. C. Mertz *et al.*, "Search for strength in the electroexcitation of the Δ(1232)," Phys. Rev. Lett. 86, 2936 4pp (2001).

245. E. Anciant *et al. (CLAS Collaboration)*, "Photoproduction of ϕ(1020) mesons on the proton at large momentum transfer," Phys. Rev. Lett. 85, 4682 5pp (2000).

246. S. Malov *et al. (CLAS Collaboration)*, "Polarization transfer in the ^{16}O(e,e'p)^{15}N reaction." Phys. Rev. C 62, 057302 5pp (2000).

247. J. Gao *et al. (CLAS Collaboration)*, "Dynamical Relativistic Effects Observed in Quasielastic 1p-shell Proton Knockout from 16O," Phys. Rev. Lett. 84, 3265 5pp (2000).

248. D. Barkhuff *et al.*, "Measurement of Recoil Proton Polarizations in the Electrodisintegration of Deuterium by Polarzied Electrons," Phys. Lett. B 470, 39 6pp (1999).

249. G. A. Warren *et al.*, "Induced Proton Polarization for π^0 Electroproduction at Q^2 = 0.126 GeV^2/c^2 around the Δ(1232) Resonance," Phys. Rev. C 58 3722 4pp (1998).

250. M. Holtrop *et al.*, "A Measurement of the Interference Structure Function, R_{LT}, for the ^{12}C(e,e'p) Reaction in the Quasielastic Region," Phys. Rev. C 58, 3205 7pp (1998).

251. B. M. Milbrath *et al.*, "A Comparison of the Polarization Observables in Electron Scattering from the Proton and Deuteron," Phys. Rev. Lett. 80, 452 4pp (1998).

252. R. Woo *et al.*, "Measurement of the Induced Proton Polarization P_n in the ^{12}C(e,e'p) Reaction," Phys. Rev. Lett. 80, 456 5pp (1998).

253. T. Zwart *et al.*, "A Precise Measurement of the Beam Energy and First Moment Obtained through Electron Spin Precession," Nucl. Instr. Meth. A 384, 299-306 (1997).