

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

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

Professional Positions

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

Visiting Professor, Summer, 2019
Universität Gießen, Gießen, Germany

Fulbright Scholar and Visiting Professor, 2015 – 2016
University of Paris-Sud, IPN-Orsay, Orsay, France

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

Visiting Professor, 2012 – 2013
Department of Physics, George Washington University, Washington, DC

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

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

Visiting Professor, 2007
RCNP, Osaka University

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

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

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

Synergetic Activities

Director, US-Japan Hadronic Physics Exchange Program, 2020 - present

Chair, The CLAS Collaboration, 2019 – 2021

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

Fulbright Scholar, 2015-2016

DOE Office of Science Appreciation Award, 2015

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

A. Kim (Research Scientist), S. Diehl (Research Scientist jointly appointed with U. Giessen), U. Shrestha (Postdoc), T.B. Hayward (Postdoc)

Current Ph.D. Students supervised (7 Ph.D. students)

R. Capobianco, G. Kainth, V. Klimenco, J. Richards, R. Santos, N. Trotta, L. Lasig,

Former Ph.D. Students

T. O'Connell (Ph.D., 2022, Teaching Professor, University of Connecticut)

K. Wei (Ph.D., 2021, Staff Scientist, Honeywell Company)

B. Clary (Ph.D., 2020, Postdoc, Lawrence Livermore National Lab)

K. Tezgin (Ph.D., 2020, Postdoc, Brookhaven National Lab)

F. Cao (Ph.D., 2019, Data Scientist, MORSE Corps.).

D. Riser (Ph.D., 2019, Data Scientist, US-Department of Defense).

N. Harrison (PhD, 2015, Assistant Professor at the U. of North Georgia, Oakwood, GA).

T. Mineeva (PhD, 2013, Assistant Professor at the U. Santa Maria, Valparaíso, Chile).

E. Seder (PhD, 2013, Research Scientist at Ericsson Research, Pisa, Italy).

W. Gohn (PhD, 2013, Senior Scientist at Siemens, Chicago, IL).

I. Shin (PhD, 2012, Staff Scientist at Institute of Basic Science in South Korea).

N. Markov (PhD, 2012, Postdoc at Jefferson Lab, Newport News, VA).

B. Zhao (PhD, 2008, Research Scientist at Nanometrics, Austin, TX).

Former Postdocs

S. Diehl (Staff Scientist, U. Giessen, Germany)

M. Ungaro (Staff Scientist at Jefferson Lab).

N. Markov (Senior Scientist at Siemens).

D. Riser (Data Scientist, US-Department of Defense).

F. Cao (Data Scientist, MORSE Corps.).

E.L. Isupov (Staff Scientist, Moscow State University).

N. Sato (Staff Scientist, Jefferson Lab).

Currently Active Extramural Grants (5 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/Los Alamos National Lab, "Studies of Gluon Sivers Functions with Open Charm in Transversely Polarized p+p Collisions in sPHENIX," - **\$63,000**, 06/01/2023 – 05/31/2024, K. Joo (Sole PI).

DOE/Argonne National Lab, "SIDIS Pion Electroproduction with CLAS12," - **\$179,000**, 01/01/2021 – 12/31/2023, K. Joo (Sole PI).

National Science Foundation (NSF) IRES Program, "Studying Nucleon Structure in Orsay, France," - **\$248,000**, 06/01/2017 – 08/31/2023, Peter Schweitzer (PI), Kyungseon Joo (Co-PI), Gail Dodge (Co-PI).

DOE Office of Science's Quantum Information Science Program, "Workshop on Nuclear Physics and Quantum Information Science," – \$24,000, 09/01/2019 – 08/31/2023, K. Joo (PI), R. Cote (Co-PI).

Selected University/Community Services

J-PARC Accelerator Program Advisory Committee, KEK, Japan (2022 – present)

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

Dean's Promotion, Tenure and Review (PTR) Committee (2020 - 2023)

Review Committee for Research Excellence Program (2020 – 2023)

Award Nomination Committee (2017 – 2022)

University Committee on the Honors Program (2016 - 2018)

Career Leadership Committee (2014-17)

Jefferson Lab PAC Approved Experiments as a Co-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 $H(e,e'K^+)\Lambda$," K. Joo (co-spokesperson).

List of refereed journal publications

1. T. Chetry et al. (CLAS Collaboration), "First Measurement of Λ Electroproduction off Nuclei in the Current and Target Fragmentation Regions", arXiv2210.13691, accepted for publication in Phys. Rev. Lett.
2. S. Diehl et al. (CLAS Collaboration), "A Multidimensional Study of the Structure Function Ratio σ_{LT}/σ_0 from Hard Exclusive π^+ Electroproduction off Protons in the GPD Regime", Phys. Lett. B 839, 137761 (2023).
3. 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).
4. 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).
5. Y. Tian et al. (CLAS Collaboration), "Exclusive π^- Electroproduction off the Neutron in Deuterium in the Resonance Region", Phys. Rev. C 107, 015201 (2023).
6. 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).
7. 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).
8. N. Zachariou et al. (CLAS Collaboration), "Beam-Spin Asymmetry Σ for Σ^- Hyperon Photoproduction off the Neutron", Phys. Lett. B 827, 136985 (2022).
9. E.L. Isupov et al. (CLAS Collaboration), "Polarized Structure Function σ_{LT}' from π^0p Electroproduction Data in the Resonance Region at $0.4 < Q^2 < 1.0$ GeV²", Phys. Rev. C 105, L022201 (2022).
10. 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).
11. 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).
12. 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).
13. P. Chatagnon et al. (CLAS Collaboration), "First-time Measurement of Timelike Compton Scattering", Phys. Rev. Lett. 127, 262501 (2021).
14. M. Khachatryan et al. (CLAS Collaboration), "Electron Beam Energy Reconstruction for Neutrino Oscillation Measurements", Nature 599, 565 (2021).
15. 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).
16. I. Korover et al. (CLAS Collaboration), "¹²C(e,e'pN) Measurements of Short Range Correlations in the Tensor-to-Scalar Nucleon-Nucleon Interaction Transition Region", Phys. Lett. B 820, 136523 (2021).
17. N. Zachariou et al. (CLAS Collaboration), "Double Polarization Observable G for Single Pion Photoproduction from the Proton", Phys. Lett. B 817, 136304 (2021).
18. X. Zheng et al. (CLAS Collaboration), "Measurement of the Proton Spin Structure at Long Distances", Nature Physics 17, 6 (2021).

19. T.B. Hayward *et al.* (*CLAS Collaboration*), "Observation of Beam Spin Asymmetries in the Process $e p \rightarrow e \pi^+ \pi^- X$ with CLAS12", *Phys. Rev. Lett.* 126, 152501 (2021).
20. M. Carver *et al.* (*CLAS Collaboration*), "Photoproduction of the $f_2(1270)$ Meson Using the CLAS Detector", *Phys. Rev. Lett.* 126, 082002 (2021).
21. U. Shrestha *et al.* (*CLAS Collaboration*), "Differential Cross Sections for $\Lambda(1520)$ Using Photoproduction at CLAS", *Phys. Rev. C* 103, 025206 (2021).
22. M. Mirazita *et al.* (*CLAS Collaboration*), "Beam-Spin Asymmetry in Semi-Inclusive Electroproduction of Hadron Pairs", *Phys. Rev. Lett.* 126, 062002 (2021).
23. Y.G. Sharabian *et al.*, "The CLAS12 High Threshold Cherenkov Counter", *Nucl. Inst. and Meth. A* 968, 163824 (2020).
24. 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).
25. Y.G. Sharabian *et al.*, "The CLAS12 high threshold Cherenkov counter," *Nucl. Instrum. Meth. A* 968 163824 (2020).
26. M. Contalbrigo *et al.*, "The CLAS12 Ring Imaging Cherenkov Detector", *Nucl. Inst. and Meth. A* 964, 163791 (2020).
27. V.D. Burkert *et al.* (*CLAS Collaboration*), "The CLAS12 Spectrometer at Jefferson Laboratory", *Nucl. Inst. and Meth. A* 959, 163419 (2020).
28. 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).
29. 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).
30. 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).
31. 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).
32. A. Schmidt *et al.* (*CLAS Collaboration*), "Probing the Core of the Strong Nuclear Interaction", *Nature* 578, 540 (2020).
33. N. Zachariou *et al.* (*CLAS Collaboration*), "Beam-Target Helicity Asymmetry E in $K^+ \Sigma^+$ Photoproduction on the Neutron," *Phys. Lett. B* 808 (2020).
34. N. Markov *et al.* (*CLAS Collaboration*), "Exclusive $\pi^0 p$ Electroproduction off Protons in the Resonance Region at Photon Virtualities $0.4 < Q^2 < 1$ GeV²," *Phys. Rev. C* 101, 015208 (2020).
35. 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).
36. M. Hattawy *et al.* (*CLAS Collaboration*), "Exploring the Structure of the Bound Proton with Deeply Virtual Compton Scattering," *Phys. Rev. Lett.* 123, 032502 (2019).
37. M. Duer *et al.* (*CLAS Collaboration*), "Direct Observation of Proton-Neutron Short-Range Correlation Dominance in Heavy Nuclei," *Phys. Rev. Lett.* 122, 172502 (2019).

38. 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).
39. Schmookler *et al.* (*CLAS Collaboration*), "Modified Structure of Protons and Neutrons in 2 Correlated Pairs," *Nature* 566, 354 (2019).
40. Zhao *et al.* (*CLAS Collaboration*), "Measurement of the Beam Spin Asymmetry of $ep \rightarrow e'p'\eta$ in the Deep-Inelastic Regime with CLAS," *Phys. Lett. B.* 789, 426 (2019).
41. Golovatch *et al.* (*CLAS Collaboration*), "First Results on Nucleon Resonance Photocouplings from $\gamma^* p \rightarrow \pi^+\pi^-p$ Cross Sections," *Phys. Lett. B* 788, 371 (2019).
42. J. Goetz *et al.* (*CLAS Collaboration*), "Study of Ξ^* Photoproduction from Threshold to $W=3.3$ GeV," *Phys. Rev.* 98, 062201(R) (2018).
43. 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).
44. 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).
45. S. Lombardo *et al.* (*CLAS Collaboration*), "Photoproduction of K^+K^- Meson Pairs on the Proton," *Phys. Rev. D* 98, 052009 (2018).
46. 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).
47. Fedotov *et al.* (*CLAS Collaboration*), "Measurements of $\gamma^* p \rightarrow p' \pi^+\pi^-$ Cross Section with the CLAS Detector for $0.4 \text{ GeV}^2 < Q^2 < 1.0 \text{ GeV}^2$ and $1.3 \text{ GeV} < W < 1.825 \text{ GeV}$," *Phys. Rev. C* 98, 025203 (2018).
48. J. Bono *et al.* (*CLAS Collaboration*), "First Measurement of Ξ^- Polarization in Photoproduction," *Phys. Lett. B* 783, 280 (2018).
49. M. Kunkel *et al.* (*CLAS Collaboration*), "Exclusive Photoproduction of π^0 up to Large Values of Mandelstam Variables s, t , and u with CLAS," *Phys. Rev. C* 98, 015207 (2018).
50. 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).
51. 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).
52. M. Duer *et al.* (*CLAS Collaboration*), "Probing High Momentum Protons and Neutrons in Asymmetric Nuclei," *Nature* 560, 617 (2018).
53. 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).
54. K. Park *et al.* (*CLAS Collaboration*), "Hard Exclusive Pion Electroproduction at Backward," *Phys. Lett. B* 780, 340-345 (2018).
55. S. Chandvar *et al.* (*CLAS Collaboration*), "Double Photoproduction off the Proton at CLAS," *Phys. Rev. C* 97, 025203 (2018).

56. 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 < Q² < 0.7 GeV² with CLAS," Phys. Rev. Lett. 120, 062501 (2018).
57. 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).
58. R.G. Fersch *et al.* (CLAS Collaboration), "Determination of the Proton Spin Structure Functions for 0.05 < Q² < 5 GeV² Using CLAS," Phys. Rev. C 96, 065208 (2017).
59. 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).
60. M. Hattawy *et al.* (CLAS Collaboration), "First Exclusive Measurement of Deeply Virtual Compton Scattering off ⁴He: Toward the 3D Tomography of Nuclei," Phys. Rev. Lett. 119, 202004 (2017).
61. 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).
62. 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 GeV² < Q² < 5.0 GeV²," Phys. Rev. C 96, 025209 (2017).
63. 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).
64. 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).
65. P. Collins *et al.* (CLAS Collaboration), "Photon Beam Asymmetry Σ for η and η' Photoproduction from the Proton," Phys. Lett. B 771, 213 (2017).
66. 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).
67. Rimal *et al.* (CLAS Collaboration), "Measurement of Two-Photon Exchange Effect by Comparing Elastic e^{+/-} p Cross Sections," Phys. Rev. C 95, 065201 (2017).
68. P. Bosted *et al.* (CLAS Collaboration), "Target and Beam-Target Spin Asymmetries in Exclusive π^0 Electroproduction for Q² > 1 GeV² $ep \rightarrow e' \pi^0 p$," Phys. Rev. C 95, 035207 (2017).
69. 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).
70. Bedlinskiy *et al.* (CLAS Collaboration), "Exclusive η Electroproduction at W > 2 GeV with CLAS and Transversity GPDs," Phys. Rev. C 95, 035202 (2017).
71. 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).
72. 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).
73. 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).
74. 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 Q²," Phys. Rev. C 94, 045206 (2016).

75. R. Dickson *et al.* (CLAS Collaboration), "Photoproduction of the f_1 Meson," Phys. Rev. C 93, 065202 (2016).
76. C.A. Paterson *et al.* (CLAS Collaboration), "Photoproduction of Λ and Σ^0 Hyperons Using Linearly Polarized Photons," Phys. Rev. C 93, 065201 (2016).
77. 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).
78. 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).
79. 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).
80. 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).
81. 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).
82. N. Zachariou *et al.* (CLAS Collaboration), "Determination of the Beam-Spin Asymmetry of Deuteron Photodisintegration in the Energy Region $E_\gamma = 1.1 - 2.3$ GeV," Phys. Rev. C 91, 055202 (2015).
83. 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).
84. 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).
85. 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).
86. Seder *et al.* (CLAS Collaboration), "Longitudinal Target-Spin Asymmetries for Deeply Virtual Compton Scattering," Phys. Rev. Lett. 114, 032001 (2015).
87. O. Hen *et al.* (CLAS Collaboration), "Momentum Sharing in Imbalanced Fermi Systems," Science 346, 614 (2014)
88. M.D. Mestayer *et al.* (CLAS Collaboration), "Flavor Dependence of q - q Creation Observed in the Exclusive Limit," Phys. Rev. Lett. 113, 152004 (2014).
89. M. Gabrielyan *et al.* (CLAS Collaboration), "Induced Polarization of $\Lambda(1116)$ in Kaon Electroproduction," Phys. Rev. C 90, 035202 (2014).
90. 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).
91. Bedlinskiy *et al.* (CLAS Collaboration), "Exclusive π^0 Electroproduction at $W > 2$ GeV with CLAS," Phys. Rev. C 90, 025205 (2014).
92. 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).
93. Seraydaryan *et al.* (CLAS Collaboration), " ϕ Meson Photoproduction on Hydrogen in the Neutral Decay Mode," Phys. Rev. C 89, 055206 (2014).

94. 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).
95. W. Gohn *et al.* (CLAS Collaboration), "Beam-spin Asymmetries from Semi-inclusive Pion Electroproduction," Phys. Rev. D 89, 072011 (2014).
96. 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).
97. K. Moriya *et al.* (CLAS Collaboration), "Measurement of the Spin and Parity of the $\Lambda(1405)$," Phys. Rev. Lett. 112, 082004 (2014).
98. 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).
99. 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).
100. K. Moriya *et al.* (CLAS Collaboration), "Measurement of the Sigma pi Photoproduction Line Shapes Near the $\Lambda(1405)$," Phys. Rev. C. 87, 035206 (2013).
101. 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).
102. 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).
103. Pomerantz *et al.* (CLAS Collaboration), "Hard Two Body Photo-integration of ^3He ," Phys. Rev. Lett. 110, 242301 (2013).
104. 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).
105. 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).
106. O. Hen *et al.* (CLAS Collaboration), "Measurement of transparency ratios for protons from short-range correlated pairs," Phys. Lett. B 722, 242301 (2013).
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