

Lamiaa El-Fassi
As of August 10th, 2019

PS: After joining Mississippi State U., Department of Physics and Astronomy in Aug. 2014.

1. “*Exploring the Structure of the Bound Proton with Deeply Virtual Compton Scattering*”

CLAS Collaboration, M. Hattawy *et al.*, Phys. Rev. Lett. **123**:032502, July 2019.

Citations: **2**

2. “*Measurement of Nuclear Transparency Ratios for Protons and Neutrons*”

CLAS Collaboration, M. Duer *et al.*, Phys. Rev. B **797**:134792, July 2019.

Citations: **2**

3. “*The SeaQuest Spectrometer at Fermilab*”

SeaQuest Collaboration, C. A Aidala *et al.*, Nucl. Instrum. Meth. A **930**:49-63, June 2019.

Citations: **10**

4. “*Direct Observation of Proton-Neutron Short-Range Correlation Dominance in Heavy Nuclei*”

CLAS Collaboration, M. Duer *et al.*, Phys. Rev. Lett. **122**:172502, May 2019.

Citations: **11**

5. “*First Measurements of the Double-Polarization Observables F , P , and H in ω Photoproduction off Transversely Polarized Protons in the N^* Resonance Region*”

CLAS Collaboration, P. Roy *et al.*, Phys. Rev. Lett. **122**:162301, Apr. 2019.

Citations: **1**

6. *Modified structure of protons and neutrons in correlated pairs*

CLAS Collaboration, B. Schmookler, B. *et al.*, Nature **566**:354-358, Feb. 2019.

Citations: **11**

7. “*Measurement of the beam spin asymmetry of $\vec{e}p \rightarrow ep\eta$ in the deep-inelastic regime with CLAS*”

CLAS Collaboration, B. Zhao *et al.*, Phys. Lett. B **789**:426-431, Feb. 2019.

8. “*Probing nucleon’s spin structures with polarized Drell-Yan in the Fermilab SpinQuest experiment*”

SeaQuest Collaboration, A. Chen *et al.*, Submitted to: PoS **FERMILAB-CONF-18-412-E**, Feb. 2019.

Citations: **1**

9. “*First results on nucleon resonance photocouplings from the $\gamma p \rightarrow \pi^+ \pi^- p$ reaction*”

CLAS Collaboration, E. Golovatch *et al.*, Phys. Lett. B **788**:371-379, Jan. 2019.

Citations: **8**

10. “*Revealing Color Forces with Transverse Polarized Electron Scattering*”

SANE Collaboration, W. Armstrong *et al.*, Phys. Rev. Lett. **122**:022002, Jan. 2019.

Citations: **4**

11. “*Measurement of double-polarization asymmetries in the quasi-elastic ${}^3\text{He}(\vec{e}, e'p)$ process*”

Jefferson Lab Hall-A Collaboration, M. Mihovilović *et al.*, Phys. Lett. B **788**:117-121, Jan. 2019.

Citations: **1**

12. “*Study of Ξ^* Photoproduction from Threshold to $W = 3.3$ GeV*”

CLAS Collaboration, J. T. Goetz *et al.*, Phys. Rev. C **98**:062201, Dec. 2018.

13. “*Measurement of Unpolarized and Polarized Cross Sections for Deeply Virtual Compton Scattering on the Proton at Jefferson Laboratory with CLAS*”

CLAS Collaboration, N. Hirlinger Saylor *et al.*, Phys. Rev. C **98**:045203, Oct. 2018.

Citations: **1**

14. “*Beam-Target Helicity Asymmetry E in $K^0\Lambda$ and $K^0\Sigma^0$ Photoproduction on the Neutron*”

CLAS Collaboration, D. H. Ho *et al.*, Phys. Rev. C **98**:045205, Oct. 2018.

Citations: **4**

15. “*Photoproduction of K^+K^- meson pairs on the proton*”
 CLAS Collaboration, S. Lombardo *et al.*, Phys. Rev. D **98**:052009, Sept. 2018
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16. “*Proton Form Factor Ratio, $\mu_p G_E^p/G_M^p$ from Double Spin Asymmetry*”
 A. Liyanage *et al.*, arXiv **1806.11156**, Aug. 2018.

17. “*Probing high-momentum protons and neutrons in neutron-rich nuclei*”
 CLAS Collaboration, M. Duer *et al.*, Nature **560**:617-621, Aug. 2018.
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18. “*Center of Mass Motion of Short-Range Correlated Nucleon Pairs studied via the $A(e, epp)$ Reaction*”
 CLAS Collaboration, E. O. Cohen *et al.*, Phys. Rev. Lett. **121**:092501, Aug. 2018
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19. “*Measurements of the $\gamma_v p \rightarrow p' \pi^+ \pi^-$ cross section with the CLAS detector for $0.4 \text{ GeV}^2 < Q^2 < 1.0 \text{ GeV}^2$ and $1.3 \text{ GeV} < W < 1.825 \text{ GeV}$* ”
 CLAS Collaboration, G. V. Fedotov *et al.*, Phys. Rev. C **98**:025203, Aug. 2018.
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20. “*First measurement of Ξ^- polarization in photoproduction*”
 CLAS Collaboration, J. Bono *et al.*, Phys. Lett. B **783**:280-286, Aug. 2018.
 Citations: **1**

21. “*A Radial Time Projection Chamber for α detection in CLAS at JLab*”
 R. Dupré *et al.*, Nucl. Instrum. Meth. A **898**:90-97, Aug. 2018.
 Citations: **2**

22. “*Differential Cross Section for $\gamma d \rightarrow \omega d$ using CLAS at Jefferson Lab*”
 CLAS Collaboration, T. Chetry *et al.*, Phys. Lett. B **782**:646-651, July 2018.

23. “*Exclusive photoproduction of π^0 up to large values of Mandelstam variables s, t and u with CLAS*”

CLAS Collaboration, M. C. Kunkel *et al.*, Phys. Rev. C **98**:015207, July 2018.

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24. “*Semi-Inclusive π^0 target and beam-target asymmetries from 6 GeV electron scattering with CLAS*”

CLAS Collaboration, S. Jawalkar *et al.*, Phys. Lett. B **782**:662-667, June 2018.

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25. “*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*”

CLAS Collaboration, P. Roy *et al.*, Phys. Rev. C **97**:055202, May 2018.

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26. “*Hard exclusive pion electroproduction at backward angles with CLAS*”

CLAS Collaboration, K. Park *et al.*, Phys. Lett. B **780**:340-345, March 2018.

27. “*Design and Performance of the Spin Asymmetries of the Nucleon Experiment*”

J. D. Maxwell *et al.*, Nucl. Instrum. Meth. A **885**:145-159, March 2018.

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28. “*Measurement of the Q^2 Dependence of the Deuteron Spin Structure Function g_1 and its Moments at Low Q^2 with CLAS*”

CLAS Collaboration, K. P. Adhikari *et al.*, Phys. Rev. Lett. **120**:062501, Feb. 2018.

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29. “*Double K_S^0 Photoproduction off the Proton at CLAS*”

CLAS Collaboration, S. Chandavar *et al.*, Phys. Rev. C **97**:025203, Feb. 2018.

Citations: **2**

30. “*Measurement of the helicity asymmetry E in $\omega \rightarrow \pi^+\pi^-\pi^0$ photoproduction*”

CLAS Collaboration, Z. Akbar *et al.*, Phys. Rev. C **96**:065209, Dec. 2017.

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31. “*Determination of the Proton Spin Structure Functions for $0.05 < Q^2 < 5 \text{ GeV}^2$ using CLAS*”

CLAS Collaboration, R. Fersch *et al.*, Phys. Rev. C **96**:065208, Dec. 2017.

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32. “*Measurement of the differential and total cross sections of the $\gamma d \rightarrow K^0 \Lambda(p)$ reaction within the resonance region*”

CLAS Collaboration, N. Compton *et al.*, Phys. Rev. C **96**:065201, Dec. 2017.

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33. “*Extraction of the Neutron Electric Form Factor from Measurements of Inclusive Double Spin Asymmetries*”

Jefferson Lab Hall-A Collaboration, V. Sulkosky *et al.*, Phys. Rev. C **96**:065206, Dec. 2017.

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34. “*Dark matter search in a Beam-Dump eXperiment (BDX) at Jefferson Lab: an update on PR12-16-001*”

BDX Collaboration, M. Battaglieri *et al.*, arXiv **1712.01518**, Dec. 2017.

Citations: **8**

35. “*First Exclusive Measurement of Deeply Virtual Compton Scattering off ^4He : Toward the 3D Tomography of Nuclei*”

CLAS Collaboration, M. Hattawy *et al.*, Phys. Rev. Lett. **119**:202004, Nov. 2017.

Citations: **10**

36. “*A Glimpse of Gluons through Deeply Virtual Compton Scattering on the Proton*”

Jefferson Lab Hall-A Collaboration, M. Defurne *et al.*, Nature Communications **8**:1408, Nov. 2017.

Citations: **10**

37. “*Photon beam asymmetry Σ in the reaction $\vec{\gamma}p \rightarrow p\omega$ for $E_\gamma = 1.152$ to 1.876 GeV*”

CLAS Collaboration, P. Collins *et al.*, Phys. Lett. B **773**:112-120, Oct. 2017.

Citations: **8**

38. “*Differential cross section measurements for $\gamma n \rightarrow \pi^- p$ above the first nucleon resonance region*”

CLAS Collaboration, P. T. Mattione *et al.*, Phys. Rev. C **96**:035204, Sept. 2017.

Citations: **8**

39. “*Differential cross sections and polarization observables from CLAS K^* photoproduction and the search for new N^* states*”

CLAS Collaboration, A. V. Anisovich *et al.*, Phys. Lett. B **771**:142-150, Aug. 2017.

Citations: **4**

40. “*Photon beam asymmetry Σ for η and η' photoproduction from the proton*”

CLAS Collaboration, P. Collins *et al.*, Phys. Lett. B **771**:213-221, Aug. 2017.

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41. “*Measurements of $ep \rightarrow e'\pi^+\pi^-p'$ cross sections with CLAS at $1.40\text{GeV} < W < 2.0\text{GeV}$ and $2.0\text{GeV}^2 < Q^2 < 5.0\text{GeV}^2$* ”

CLAS Collaboration, E. L. Isupov *et al.*, Phys. Rev. C **96**:025209, Aug. 2017.

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42. “*Tagged EMC Measurements on Light Nuclei*”

ALERT Collaboration, W. Armstrong *et al.*, arXiv **1708.00891**, Aug. 2017.

Citations: **4**

43. “*Partonic Structure of Light Nuclei*”

ALERT Collaboration, W. Armstrong *et al.*, arXiv **1708.00888**, Aug. 2017.

Citations: **11**

44. “*Spectator-Tagged Deeply Virtual Compton Scattering on Light Nuclei*”

ALERT Collaboration, W. Armstrong *et al.*, arXiv **1708.00835**, Aug. 2017.

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45. “*Beam-Target Helicity Asymmetry for $\vec{\gamma}\vec{n} \rightarrow \pi^-p$ in the N^* Resonance Region*”

CLAS Collaboration, D. Ho *et al.*, Phys. Rev. Lett. **118**:242002, June 2017.

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46. “*Rosenbluth separation of the π^0 Electroproduction Cross Section off the Neutron*”

Jefferson Lab Hall-A Collaboration, M. Mazouz *et al.*, Phys. Rev. Lett. **118**:222002, June 2017.

Citations: **7**

47. “Measurement of two-photon exchange effect by comparing elastic $e^\pm p$ cross sections”

CLAS Collaboration, D. Rimal *et al.*, Phys. Rev. C **95**:065201, June 2017.

Citations: **36**

48. “Target and Double Spin Asymmetries of Deeply Virtual π^0 Production with a Longitudinally Polarized Proton Target and CLAS”

CLAS Collaboration, A. Kim *et al.*, Phys. Lett. B **68**:168-173, May 2017.

Citations: **10**

49. “Exclusive η electroproduction at $W > 2$ GeV with CLAS and transversity generalized parton distributions”

CLAS Collaboration, I. Bedlinskiy *et al.*, Phys. Rev. C **95**:035202, March 2017.

Citations: **5**

50. “First measurement of unpolarized SIDIS cross section and cross section ratios from a ^3He target”

Jefferson Lab Hall-A Collaboration, X. Yan *et al.*, Phys. Rev. C **95**:035209, March 2017.

Citations: **5**

51. “Target and beam-target spin asymmetries in exclusive pion electroproduction for $Q^2 > 1$ GeV². II. $ep \rightarrow e\pi^0 p$ ”

CLAS Collaboration, P. E. Bosted *et al.*, Phys. Rev. C **95**:035207, March 2017.

Citations: **2**

52. “Target and Beam-Target Spin Asymmetries in Exclusive Pion Electroproduction for $Q^2 > 1$ GeV². I. $ep \rightarrow e\pi^+ n$ ”

CLAS Collaboration, P. E. Bosted *et al.*, Phys. Rev. C **95**:035206, March 2017.

Citations: **1**

53. “*Beam-target double-spin asymmetry in quasielastic electron scattering off the deuteron with CLAS*”

CLAS Collaboration, M. Mayer *et al.*, Phys. Rev. C **95**:024005, Feb. 2017.

Citations: **3**

54. “*Rosenbluth separation of the π^0 electroproduction cross section*”

Jefferson Lab Hall-A Collaboration, M. Defurne *et al.*, Phys. Rev. Lett. **117**:262001, Dec. 2016.

Citations: **20**

55. “*Target and beam-target spin asymmetries in exclusive π^+ and π^- electroproduction with 1.6- to 5.7-GeV electrons*”

CLAS Collaboration, P. E. Bosted *et al.*, Phys. Rev. C **94**:055201, Nov. 2016.

Citations: **6**

56. “*Measurement of Target and Double-spin Asymmetries for the $\vec{e}\vec{p} \rightarrow e\pi^+(n)$ Reaction in the Nucleon Resonance Region at Low Q^2* ”

CLAS Collaboration, X. Zheng *et al.*, Phys. Rev. C **94**:045206, Oct. 2016.

Citations: **3**

57. “*Measurements of d_2^n and A_1^n : Probing the neutron spin structure*”

Jefferson Lab Hall-A Collaboration, D. Flay *et al.*, Phys. Rev. D **94**:052003, Sept. 2016.

Citations: **14**

58. “*A Search for the LHCb Charmed ‘Pentaquark’ using Photo-Production of J/ψ at Threshold in Hall C at Jefferson Lab*”

Z. E. Meziani *et al.*, arXiv **1609.00676**, Sept. 2016.

Citations: **29**

59. “*Dark Matter Search in a Beam-Dump eXperiment (BDX) at Jefferson Lab*”

M. Battaglieri *et al.*, arXiv **1607.01390**, July 2016.

Citations: **38**

60. “*Photoproduction of Λ and Σ^0 hyperons using linearly polarized photons*”
 CLAS Collaboration, C. A. Paterson *et al.*, Phys. Rev. C **93**:065201, June 2016.
 Citations: **29**
61. “*Photoproduction of the $f_1(1285)$ Meson*”
 CLAS Collaboration, R. Dickson *et al.*, Phys. Rev. C **93**:065202, June 2016.
 Citations: **21**
62. “*First measurement of the helicity asymmetry E in η photoproduction on the proton*”
 CLAS Collaboration, I. Senderovich *et al.*, Phys. Lett. B **755**:64-69, Apr 2016.
 Citations: **25**
63. “*Precise determination of the deuteron spin structure at low to moderate Q^2 with CLAS and extraction of the neutron contribution*”
 CLAS Collaboration, N. Guler *et al.*, Phys. Rev. C **92**:055201, Nov 2015.
 Citations: **16**
64. “*Cross sections for the exclusive photon electroproduction on the proton and Generalized Parton Distributions*”
 CLAS Collaboration, H. S. Jo *et al.*, Phys. Rev. Lett. **115**:212003, Nov 2015.
 Citations: **50**
65. “*First Measurement of the Polarization Observable E in the $\vec{p}(\vec{\gamma}, \pi^+)n$ Reaction up to 2.25 GeV*”
 CLAS Collaboration, S. Strauch *et al.*, Phys. Lett. B **750**:35-58, Nov 2015.
 Citations: **21**
66. “*Search for baryon-number and lepton-number violating decays of hyperons using the CLAS detector at Jefferson Laboratory*”
 CLAS Collaboration, M. E. McCracken *et al.*, Phys. Rev. D **92**:072002, OCT 2015.
 Citations: **11**
67. “*Measurement of the Target-Normal Single-Spin Asymmetry in Quasi-Elastic Scattering from the Reaction ${}^3\text{He}^\uparrow(e, e')$* ”

Jefferson Lab Hall-A Collaboration, Y. W. Zhang *et al.*, Phys. Rev. Lett. **115**:172502, Oct 2015.

Citations: **15**

68. “*Double Spin Asymmetries of Inclusive Hadron Electroproductions from a Transversely Polarized ^3He Target*”

Jefferson Lab Hall-A Collaboration, X. Y. Zhao *et al.*, Phys. Rev. C **92**:015207, July 2015.

Citations: **11**

69. “*Determination of the beam-spin asymmetry of deuteron photodisintegration in the energy region $E = 1.1 - 2.3 \text{ GeV}$* ”

CLAS Collaboration, N. Zachariou *et al.*, Phys. Rev. C **91**:055202, May 2015.

Citations: **7**

70. “*Precision Measurements of A_1^n in the Deep Inelastic Regime*”

Jefferson Lab Hall-A Collaboration, D. S. Parno *et al.*, Phys. Lett. B **744**:309-314, May 2015.

Citations: **16**

71. “*Measurements of $ep \rightarrow e'\pi^+n$ at $W = 1.6 - 2.0 \text{ GeV}$ and extraction of nucleon resonance electrocouplings at CLAS*”

CLAS Collaboration, K. Park *et al.*, Phys. Rev. C **91**:045203, Apr 2015.

Citations: **34**

72. “*Measurement of Parity-Violating Asymmetry in Electron-Deuteron Inelastic Scattering*”

PVDIS Collaboration, D. Wang *et al.*, Phys. Rev. C **91**:045506, Apr 2015.

Citations: **14**

73. “*Single and double spin asymmetries for deeply virtual Compton scattering measured with CLAS and a longitudinally polarized proton target*”

CLAS Collaboration, S. Pisano *et al.*, Phys. Rev. D **91**:052014, Mar 2015.

Citations: **46**

74. “Towards a resolution of the proton form factor problem: new electron and positron scattering data”
 CLAS Collaboration, D. Adikaram *et al.*, Phys. Rev. Lett **114**:062003, Feb 2015.
 Citations: **53**
75. “Longitudinal target-spin asymmetries for deeply virtual Compton scattering”
 CLAS Collaboration, E. Seder *et al.*, Phys. Rev. Lett **114**:032001, Feb 2015.
 Citations: **38**
76. “Measurement of double-polarization asymmetries in the quasielastic ${}^3\text{He}(\vec{e}, e'd)$ process”
 Jefferson Lab Hall-A Collaboration, M. Mihovilović *et al.*, Phys. Rev. Lett.**113**:232505, Dec 2014.
 Citations: **4**
77. “The MOLLER Experiment: An Ultra-Precise Measurement of the Weak Mixing Angle Using Møller Scattering”
 Moller Collaboration, J. Benesch *et al.*, arXiv:**1411.4088**, Dec 2014.
 Citations: **41**
78. “Single spin asymmetries in charged kaon production from semi-inclusive deep inelastic scattering on a transversely polarized ${}^3\text{He}$ target”
 Jefferson Lab Hall-A Collaboration, Y. X. Zhao, Phys. Rev. C **90**:055201, Nov 2014.
 Citations: **37**
79. “Measurement of pretzelosity asymmetry of charged pion production in Semi-Inclusive Deep Inelastic Scattering on a polarized ${}^3\text{He}$ target”
 Jefferson Lab Hall-A Collaboration, Y. Zhang *et al.*, Phys. Rev. C **90**:055209, Nov 2014.
 Citations: **21**
80. “Strangeness Suppression of $q\bar{q}$ Creation Observed in Exclusive Reactions”
 CLAS collaboration, M. Mestayer *et al.*, Phys. Rev. Lett.**113**:152004, Oct 2014.
 Citations: **14**

81. “*Momentum sharing in imbalanced Fermi systems*”

CLAS Collaboration, O. Hen *et al.*, Science **346**:614-617, Oct 2014.

Citations: **121**

82. “*Induced polarization of $\Lambda(1116)$ in kaon electroproduction*”

CLAS Collaboration, M. Gabrielyan *et al.*, Phys. Rev. C **90**:035202, Sep 2014.

Citations: **8**

83. “*Exclusive π^0 electroproduction at $W > 2$ GeV with CLAS*”

CLAS Collaboration, I. Bedlinskiy *et al.*, Phys. Rev. C **90**:025205, Aug 2014.

Citations: **28**

84. “*Precision measurements of g_1 of the proton and the deuteron with 6 GeV electrons*”

CLAS Collaboration, Y. Prok *et al.*, Phys. Rev. C **90**:025212, Aug 2014.

Citations: **27**

PS: Before joining Miss. State U., Department of Physics and Astronomy, in Aug. 2014.

85. “A Precision Measurement of the Neutron Twist-3 Matrix Element d_2^n : Probing Color Forces”

Jefferson Lab Hall-A Collaboration, M. Posik *et al.*, Phys. Rev. Lett.**113**:022002, July 2014.

Citations: **15**

86. “Measurement of the Target-Normal Single-Spin Asymmetry in Deep-Inelastic Scattering from the Reaction ${}^3\text{He}^\uparrow(e, e')X$ ”

JLab Hall-A Collaboration, J. Katich *et al.*, Phys. Rev. Lett.**113**:022502, July 2014.

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87. “Letter of Intent for a Drell-Yan Experiment with a Polarized Proton Target”

E-906/SeaQuest Collaboration, C. Brown *et al.*, FERMILAB-PROPOSAL-**1039**, July 2014.

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90. “Beam-spin asymmetries from semi-inclusive pion electroproduction”

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91. “Measurement of the structure function of the nearly free neutron using spectator tagging in inelastic ${}^2\text{H}(e, e'p)X$ scattering with CLAS”

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92. “*Single Spin Asymmetries of Inclusive Hadrons Produced in Electron Scattering from a Transversely Polarized ^3He Target*”
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93. “*Spin and parity measurement of the $\Lambda(1405)$ baryon*”
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94. “*Measurement of parity violation in electronquark scattering*”
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95. “*Beam asymmetry for π^+ and π^0 photoproduction on the proton for photon energies from 1.102 to 1.862 GeV*”
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97. “*Overview of Color Transparency Measurements*”
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103. “*Cross sections for the $\gamma p \rightarrow K^+\Lambda$ and $\gamma p \rightarrow K^+\Sigma^0$ reactions measured at CLAS*”
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 CLAS Collaboration, K. Moriya *et al.*, Phys. Rev. C **87**:035206, Mar 2013.
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108. “Near Threshold Neutral Pion Electroproduction at High Momentum Transfers and Generalized Form Factors”

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109. “Measurement of Exclusive π^0 Electroproduction Structure Functions and their Relationship to Transversity GPDs”

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110. “Deep exclusive π^+ electroproduction off the proton at CLAS”

CLAS Collaboration, K. Park *et al.*, Eur. Phys. J **A49**:16, June 2012.

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111. “Polarized Drell-Yan measurements with the Fermilab Main Injector”

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112. “A comparison of forward and backward pp pair knockout in ${}^3\text{He}(e,e'pp)n$ ”

CLAS Collaboration, H. Baghdasaryan *et al.*, Phys. Rev. C **85**, Feb 2012.

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113. “Evidence for the Onset of Color Transparency in ρ^0 Electroproduction off Nuclei”

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114. “Measurement of the generalized form factors near threshold via $\gamma^*p \rightarrow n\pi^+$ at high Q^2 ”

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115. “*Branching Ratio of the Electromagnetic Decay of the $\Sigma^+(1385)$* ”
 CLAS Collaboration, D. Keller *et al.*, Phys. Rev. D **85**:059903, Nov 2011.
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116. “*Measurement of the nuclear multiplicity ratio for K_s^0 hadronization at CLAS*”
 CLAS Collaboration, A. Daniel *et al.*, Phys. Lett. B **706**:26-31, Nov 2011.
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117. “*Measurement of the neutron F2 structure function via spectator tagging with CLAS*”
 CLAS Collaboration, N. Baillie *et al.*, Phys. Rev. Lett.**108**:142001, Oct 2011.
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118. “*Upper limits for the photoproduction cross section for the $\phi^-(1860)$ pentaquark state off the deuteron*”
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119. “*Beam-Target Double Spin Asymmetry A_{LT} in Charged Pion Production from Deep Inelastic Scattering on a Transversely Polarized He-3 Target at $1.4 < Q^2 < 2.7 \text{ GeV}^2$* ”
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