

Lamiaa El-Fassi
As of September 9th, 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. Lett. 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: **15**

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: **14**

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. “*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**

9. “*Revealing Color Forces with Transverse Polarized Electron Scattering*”
 SANE Collaboration, W. Armstrong *et al.*, Phys. Rev. Lett. **122**:022002, Jan. 2019.
 Citations: **4**

10. “*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.
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11. “*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.

12. “*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.
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13. “*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.
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14. “*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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15. “*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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16. “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
Citations: **12**
17. “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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18. “First measurement of Ξ^- polarization in photoproduction”
CLAS Collaboration, J. Bono *et al.*, Phys. Lett. B **783**:280-286, Aug. 2018.
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19. “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.
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20. “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.
21. “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.
Citations: **4**
22. “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.
Citations: **3**
23. “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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24. “*Hard exclusive pion electroproduction at backward angles with CLAS*”
CLAS Collaboration, K. Park *et al.*, Phys. Lett. B **780**:340-345, March 2018.
25. “*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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26. “*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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27. “*Double K_S^0 Photoproduction off the Proton at CLAS*”
CLAS Collaboration, S. Chandavar *et al.*, Phys. Rev. C **97**:025203, Feb. 2018.
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28. “*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.
Citations: **5**
29. “*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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30. “*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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31. “*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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32. “*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.

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33. “*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.

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34. “*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.

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35. “*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.

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36. “*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.

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37. “*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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38. “*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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39. “*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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40. “*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,
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41. “*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.
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42. “*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**
43. “*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**
44. “*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.
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45. “*Target and beam-target spin asymmetries in exclusive pion electroproduction for $Q^2 > 1$ GeV². II. $ep \rightarrow e\pi^0p$* ”
 CLAS Collaboration, P. E. Bosted *et al.*, Phys. Rev. C **95**:035207, March 2017.
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46. “*Target and Beam-Target Spin Asymmetries in Exclusive Pion Electroproduction for $Q^2 > 1 \text{ GeV}^2$. I. $ep \rightarrow e\pi^+n$* ”
 CLAS Collaboration, P. E. Bosted *et al.*, Phys. Rev. C **95**:035206, March 2017.
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47. “*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.
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48. “*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.
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49. “*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.
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50. “*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.
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51. “*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**
52. “*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**

53. “*Photoproduction of the $f_1(1285)$ Meson*”

CLAS Collaboration, R. Dickson *et al.*, Phys. Rev. C **93**:065202, June 2016.

Citations: **21**

54. “*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.

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55. “*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.

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56. “*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.

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57. “*First Measurement of the Polarization Observable E in the $\bar{p}(\vec{\gamma}, \pi^+)n$ Reaction up to 2.25 GeV*”

CLAS Collaboration, S. Strauch *et al.*, Phys. Lett. B **750**:35-58, Nov 2015.

Citations: **21**

58. “*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.

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59. “*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**

60. “*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**

61. “*Determination of the beam-spin asymmetry of deuteron photodisintegration in the energy region $E = 1.1 - 2.3$ GeV*”

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

Citations: **7**

62. “*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**

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

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

Citations: **34**

64. “*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**

65. “*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**

66. “*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.

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67. “*Longitudinal target-spin asymmetries for deeply virtual Compton scattering*”

CLAS Collaboration, E. Seder *et al.*, Phys. Rev. Lett. **114**:032001, Feb 2015.

Citations: **38**

68. “*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.

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69. “*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**

70. “*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.

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71. “*Strangeness Suppression of $q\bar{q}$ Creation Observed in Exclusive Reactions*”

CLAS collaboration, M. Mestayer *et al.*, Phys. Rev. Lett. **113**:152004, Oct 2014.

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

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

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

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

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

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

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75. “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.

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76. “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.

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

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CLAS Collaboration, H. Seraydaryan *et al.*, Phys. Rev. C **89**:055206, May 2014.

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80. “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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81. “Single Spin Asymmetries of Inclusive Hadrons Produced in Electron Scattering from a Transversely Polarized ${}^3\text{He}$ Target”

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84. “*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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85. “*Differential Photoproduction Cross Sections of the $\Sigma^0(1385)$, $\Lambda(1405)$, and $\Lambda(1520)$* ”
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86. “*First Observation of the $\Lambda(1405)$ Line Shape in Electroproduction*”
 CLAS Collaboration, H. Y. Lu *et al.*, Phys. Rev. C **88**:045202, Oct 2013.
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