

Publications in Refereed Journals

2025

1. "First Measurement of Near- and Sub-Threshold J/ψ Photoproduction off Nuclei", J.R. Pybus, L. Ehinger, T. Kolar *et al.*, Phys. Rev. Lett. **134**, 201903 (2025).
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2024

2. "Establishing a Research-Focused Liberal Arts College in China: Duke Kunshan University", Haiyan Gao, Yijun Gu, *Advances & Challenges in International Higher Education*, Dædalus, Journal of American Academy of Arts and Sciences, Spring 2024.
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3. "Subthreshold production of J/ψ mesons from the deuteron with the proposed Solenoidal Large Intensity Device", Tianbo Liu, Zhiwen Zhao, Mengchu Cai, Duane Byer, and Haiyan Gao, Phys. Rev. C **109**, 065206 (2024).
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4. "The present and future of QCD", P. Achenbach *et al.*, Nucl. Phys. A **1047**, 122874 (2024).
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5. "Lowest-order QED radiative corrections in unpolarized elastic electron–deuteron scattering beyond the ultra-relativistic limit for the proposed deuteron charge radius measurement at Jefferson laboratory", Zhou, J., V. Khachatryan, I. Akushevich, H. Gao, A. Ilyichev, C. Peng, S. Srednyak, and W. Xiong, European Physical Journal A 59, 256 (2023).
6. "The solenoidal large intensity device (SoLID) for JLab 12 GeV", J Arrington *et al.*, J. Phys. G: Nucl. Part. Phys. **50**, 110501 (2023).
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7. "Lowest-order QED radiative corrections in unpolarized elastic electron–deuteron scattering beyond the ultra-relativistic limit for the proposed deuteron charge radius measurement at Jefferson laboratory", Zhou, J., V. Khachatryan, I. Akushevich, H. Gao, A. Ilyichev, C. Peng, S. Srednyak, and W. Xiong, European Physical Journal A 59, 256 (2023).
8. "SIDIS-RC EvGen: a Monte-Carlo event generator of semi-inclusive deep inelastic scattering with the lowest-order QED radiative corrections", Duane

Byer, Vladimir Khachatryan, Haiyan Gao, *et al.*, Computer Physics Communications, **287**, 108702 (2023).

9. “Determining the gluonic gravitational form factors of the proton”, B. Duran *et al.*, Nature **615**, 813 (2023).

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10. “Understanding the systematic differences in extractions of the proton electric form factors at low Q^2 ”, J. Zhou, V. Khachatryan, H. Gao, S. Gorbaty, and D. W. Higinbotham, Phys. Rev. C **106**, 065505 (2022).

11. “Proton spin structure and generalized polarizabilities in the strong quantum chromodynamics regime”, D. Ruth *et al.*, Nature Physics **18**, 1441–1446 (2022).

12. “Physics with CEBAF at 12 GeV and future opportunities (Review)”, J. Arrington *et al.*, Progress in Particle and Nuclear Physics, 127, 103985 (2022).

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13. “Science Requirements and Detector Concepts for the Electron-Ion Collider: EIC Yellow Report”, R. Abdul Khalek *et al.*, Nuclear Physics A, 1026, 122447 (2022).

14. “Proton Compton Scattering from Linearly Polarized Gamma Rays”, X. Li *et al.*, Phys. Rev. Lett. **128**, 132502 (2022).

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15. “The proton charge radius”, Haiyan Gao and Marc Vanderhaeghen, Rev. Mod. Phys. **94**, 015002 (2022)

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16. “International Workshop on Next Generation Gamma-Ray Source”, C. R. Howell *et al.* J. Phys. G: Nucl. Part. Phys. **49**, 010502

17. ”Elastic positron–proton scattering at low Q^2 ”, T.J. Hague *et al.*, Eur. Phys. J. A **57**, 199 (2021)

18. “Measurement of the generalized spin polarizabilities of the neutron in the low- Q^2 region”, V. Sulkosky, C. Peng *et al.*, Nature Physics **17**, 687 (2021)

19. “The PRad windowless gas flow target”, J. Pierce *et al.*, Nucl. Instr. and Meth. A **1003**, 165300 (2021).

20. ”First Measurement of the Asymmetry and the Gerasimov-Drell-Hearn Integrand from ${}^3\vec{H}e(\vec{\gamma}, p)^2H$ reaction at the Incident Photon Energy of 29 MeV”, G. Laskaris *et al.*, Phys. Rev. C **103**, 034311 (2021).

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22. “Advanced extraction of the deuteron charge radius from electron-deuteron scattering data”, J. Zhou *et al.*, *Phys. Rev. C* **103**, 024002 (2021).

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23. “Measurement of the ^3He spin-structure functions and of neutron (^3He) spin-dependent sum rules at $0.035 \leq Q^2 \leq 0.24 \text{ GeV}^2$ ”, V. Sulkosky *et al.*, *Phys. Lett. B* **805**, 135428 (2020).
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28. “Measurement of the single-spin asymmetry A_y^0 in quasi-elastic $^3\vec{H}e(e, e'n)$ scattering at $0.4 < Q^2 < 1.0 \text{ GeV}/c^2$, E. Long *et al.*, *Phys. Lett. B* **797**, 134875 (2019).
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39. “Unveiling the nucleon tensor charge at Jefferson Lab: A study of the SoLID case”, Z. Ye *et al.*, Phys. Lett. B **767**, 91 (2017).

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