

Publications in Refereed Journals

2024

1. "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.
2. "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).
3. "The present and future of QCD", P. Achenbach *et al.*, *Nucl. Phys. A* **1047**, 122874 (2024).

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4. "The solenoidal large intensity device (SoLID) for JLab 12 GeV", J Arrington *et al.*, *J. Phys. G: Nucl. Part. Phys.* **50**, 110501 (2023).
5. "Determining the gluonic gravitational form factors of the proton", B. Duran *et al.*, *Nature* **615**, 813 (2023).
6. "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).

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7. "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).
8. "Proton spin structure and generalized polarizabilities in the strong quantum chromodynamics regime", D. Ruth *et al.*, *Nature Physics* **18**, 1441–1446 (2022).
9. "Physics with CEBAF at 12 GeV and future opportunities (Review)", J. Arrington *et al.*, *Progress in Particle and Nuclear Physics*, 127, 103985 (2022).
10. "Science Requirements and Detector Concepts for the Electron-Ion Collider: EIC Yellow Report", R. Abdul Khalek *et al.*, *Nuclear Physics A*, 1026, 122447 (2022).
11. "Proton Compton Scattering from Linearly Polarized Gamma Rays", X. Li *et al.*, *Phys. Rev. Lett.* **128**, 132502 (2022).

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

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13. “International Workshop on Next Generation Gamma-Ray Source”, C. R. Howell *et al.* *J. Phys. G: Nucl. Part. Phys.* **49**, 010502
14. ”Elastic positron–proton scattering at low Q^2 ”, T.J. Hague *et al.*, *Eur. Phys. J. A* **57**, 199 (2021)
15. “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)
16. “The PRad windowless gas flow target”, J. Pierce *et al.*, *Nucl. Instr. and Meth. A* **1003**, 165300 (2021).
17. ”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).
18. “Antimatter in the proton is more down than up”, H. Gao, *Nature* **590**, 559-560 (2021)
19. “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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20. “Measurement of the ${}^3\text{He}$ spin-structure functions and of neutron (${}^3\text{He}$) 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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22. “Compton scattering from ${}^4\text{He}$ at the TUNL HI γ S facility”, X. Li *et al.*, *Phys. Rev. C* **101**, 034618 (2020).

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23. “A New Cryogenic Apparatus to Search for the Neutron Electric Dipole Moment”, M.W. Ahmed *et al.*, *Journal of Instrumentation*, Vol. 14, P11017, 2019; nucl-ex arXiv:1908.09937.
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25. “Measurement of the single-spin asymmetry A_y^0 in quasi-elastic ${}^3\vec{H}e(e, e'n)$ scattering at $0.4 < Q^2 < 1.0$ GeV/c², E. Long *et al.*, Phys. Lett. B **797**, 134875 (2019).
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36. “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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37. “Electron-Ion Collider: The next QCD frontier - Understanding the glue that binds us all”, A. Accardi *et al.*, Eur. Phys. J. A **52**, 268 (2016).
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