

# Publications in Refereed Journals

## 2017

1. “Compton scattering from  $^4\text{He}$  at 61 MeV”, M.H. Sikora *et al.*, Phys. Rev. C **96**, 055209 (2017).
2. “Measurement of the Vector and Tensor Asymmetries at Large Missing Momentum in Quasielastic (e,ep) Electron Scattering from Deuterium”, A. DeGrush *et al.* (BLAST Collaboration), Phys. Rev. Lett. **119**, 182501 (2017).
3. “Search for new spin-dependent interactions with  $\text{SmCo}_5$  spin sources and a spin-exchange-relaxation-free comagnetometer”, Wei Ji, Changbo Fu, and Haiyan Gao, Phys. Rev. D **95**, 075014 (2017).
4. “First measurement of unpolarized semi-inclusive deep-inelastic scattering cross section from a  $^3\text{He}$  target”, X. Yan *et al.*, Phys. Rev. C **95**, 035209 (2017).
5. “Search for a hidden strange baryon-meson bound state from  $\phi$  production in a nuclear medium”, H. Gao *et al.*, Phys. Rev. C **95**, 055202 (2017).
6. “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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7. “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).
8. “Measurements of  $d_2^n$  and  $A_1^n$ : Probing the neutron spin structure”, D. Flay *et al.*, Phys. Rev. D **94**, 052003 (2016).

## 2015

9. “Proton remains puzzling”, H. Gao, T. Liu, C. Peng, Z. Ye, and Z.W. Zhao, Invited Review, The Universe, Vol. 3, No. 2, 18 (2015).
10. “Measurement of the doubly-polarized reaction  $^3\vec{\text{He}}(\vec{\gamma}, n)pp$  at 16.5 MeV and its implications for the GDH sum rule”, G. Laskaris *et al.*, Phys. Lett. B **750**, 547 (2015).
11. “Measurement of the Target-Normal Single-Spin Asymmetry in Quasielastic Scattering from the Reaction  $^3\vec{\text{He}}(e, e')$ ”, Y.-W. Zhang *et al.*, Phys. Rev. Lett. **115**, 172502 (2015).
12. “Double spin asymmetries of inclusive hadron electroproduction from a transversely polarized  $^3\text{He}$  target”, Y.X. Zhao *et al.*, Phys. Rev. C **92**, 15207 (2015).

13. “Moments of the neutron  $g_2$  structure function at intermediate  $Q^2$ ”, P. Solvignon *et al.*, Phys. Rev. C **92**, 015208 (2015).
14. “Radiative corrections beyond the ultra relativistic limit in unpolarized ep elastic and Moller scatterings for the PRad experiment at Jefferson Laboratory”, I. Akushevich, H. Gao, A. Ilyichev, and M. Mezziane, Eur. Phys. J. A **51**, 1 (2015).

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15. “Measurement of “pretzelosity” asymmetry of charged pion production in semi-inclusive deep inelastic scattering on a polarized  $^3\text{He}$  target”, Y. Zhang, X. Qian, K. Allada *et al.*, Phys. Rev. C **90**, 055209 (2014).
16. “Measurement of double-polarization asymmetries in the quasi-elastic  $^3\vec{\text{He}}(\vec{e}, e'd)$  process”, M. Mihovilović *et al.*, Phys. Rev. Lett. **113**, 232505 (2014).
17. “Single spin asymmetries in charged kaon production from semi-inclusive deep inelastic scattering on a transversely polarized He3 target”, Y.X. Zhao *et al.*, Phys. Rev. C **90**, 055201 (2014).
18. “Precision Measurement of the Neutron Twist-3 Matrix Element  $d_2^n$ : Probing Color Forces, M. Posik *et al.*, Phys. Rev. Lett. **113**, 022002 (2014).
19. Measurement of the Target-Normal Single-Spin Asymmetry in Deep-Inelastic Scattering from the Reaction  $^3\text{He}^\uparrow(e, e)X$ , J. Katich *et al.*, Phys. Rev. Lett. **113**, 022502 (2014).
20. “A frequency determination method for digitized NMR signals”, H. Yan, K. Li, R. Khatiwada, E. Smith, W.M. Snow, C.B. Fu, P.-H. Chu, H. Gao and W. Zheng, Comm. in Computational Phys., 15, 1343 (2014). DOI:10.4208/cicp.110613.270913a.
21. “Single spin asymmetries of inclusive hadrons produced in electron scattering from a transversely polarized  $^3\text{He}$  target”, K. Allada *et al.*, Phys. Rev. C **89**, 042201(R) (2014).
22. “Spin-dependent cross sections from the three-body photodisintegration of  $^3\text{He}$  at incident energies of 12.8 and 14.7 MeV”, G. Laskaris *et al.*, Phys. Rev. C **89**, 024002 (2014).

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24. “The production of  $K^+K^-$  pairs in proton-proton collisions below the  $\phi$  meson threshold”, Q.J. Ye, *et al.*, Phys. Rev. C **87**, 065203 (2013).

25. “First Measurement of Spin-Dependent Double-Differential Cross Sections and the GDH Integrand from  ${}^3\vec{H}e(\vec{\gamma}, n)pp$  at Incident Photon Energies of 12.8 and 14.7 MeV”, G. Laskaris *et al.*, Phys. Rev. Lett. **110**, 202501 (2013).
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27. “A MRPC prototype for SoLID-TOF in JLab”, Y. Wang, X. Fan, J. Wang, D. Gonzalez-Diaz, H. Chen, J. Chen, Y. Li, A. Camsonne, J. -P. Chen, H. Gao and M. Meziane, Jour. of Instr. **8**, P03003 (2013).
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29. “Virtual Compton Scattering and the Generalized Polarizabilities of the Proton at  $Q^2=0.92$  and  $1.76 \text{ GeV}^2$ ”, H. Fonvieille *et al.*, Phys. Rev. C **86**, 015210 (2012).
30. “Amplitude analysis of  $\gamma n \rightarrow \pi^- p$  data above 1 GeV”, W. Chen, H. Gao *et al.*, Phys. Rev. C **86**, 015206 (2012).
31. “Production of  $K^+K^-$  pairs in proton-proton collisions at 2.83 GeV”, Q. J. Ye *et al.*, Phys. Rev. C **85**, 035211 (2012).
32. “Search for Spin-Dependent Short-Range Force Using Optically Polarized  ${}^3\text{He}$  Gas”, W. Zheng, H. Gao *et al.*, Phys. Rev. D **85**, 031505(R) (2012).
33. “Beam-Target Double Spin Asymmetry  $A_{LT}$  in Charged Pion Production from Deep Inelastic Scattering on a Transversely Polarized  ${}^3\text{He}$  Target at  $1.4 < Q^2 < 2.7 \text{ GeV}^2$ ”, J. Huang *et al.*, Phys. Rev. Lett. **108**, 052001 (2012).

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42. “Transverse Spin Structure of the Nucleon through Target Single Spin Asymmetry in Semi-Inclusive Deep-Inelastic  $(e, e'\pi^\pm)$  Reaction at Jefferson Lab”, H. Gao *et al.*, EPJ-Plus **126**, 2 (2011).
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