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Birth Date: Jan. 11, 1947

Marital Status: Married

Citizenship: U.S.A.

Education

1964 - 1968	Tunghai University B.S. with highest honor (1968)
1969 - 1974	State University of New York Stony Brook M.A. (1971) Ph.D. in Theoretical Physics (1975)

Awards and Honors

First Prize Award in Theoretical Physics, Chinese Academy of Sciences, 1987.

Grand Challenge Awards, Department of Energy, 1988, 1989.

Alexander von Humboldt Award for Senior Scientist, Germany 1990.

University Research Professor, 1992 - 1993.

Fellow, American Physical Society, 1997

Unsung Heroes of Lexington, the Humanitarium, 2006

Albert D. and Elizabeth H. Kirwan Memorial Prize, University of Kentucky, 2018

Outstanding Alumni Award, Tunghai University, 2022

Fellowships

University Fellowship, State University of New York at Stony Brook, Sept. 1969 - Aug. 1972.

Research Assistantship, Nuclear Theory Group, SUNY/Stony Brook, Sept. 1972 - Aug. 1974.

Faculty Research Fellowship at Lawrence Berkeley Lab., Associated Western Universities, May, 1981-July, 1981.

Conferences and Workshops Organized

1st International Conference on Medium - and High - Energy Nuclear Physics and Spring School, Taiwan, May 1988.

1st UK Workshop on Lattice Gauge Calculations, 1988

2nd UK Workshop on Lattice Gauge Calculations, 1989.

2nd International Conference on Medium - and High - Energy Nuclear Physics, Taiwan, May 1990.

Workshop on Large Sparse Matrix Computation and Lattice QCD, Univ. of Kentucky, Aug. 31-Sept. 2, 1995

Int. Symposium on Trends in Sub-Atomic Physics, Taipei, August, 1997.

Role of Physics in the New Millennium: Research, Education & Society, Hong Kong, July 31 - Aug 4, 2000

Int. Conf. on Physics Education and Frontier Research, Shanghai, June, 2004.

Int. Workshop on Tau-Charm Physics, IHEP, Beijing, June 5 -7, 2006

Int. Conf. on Physics Education and Frontier Research [OCPA5], Taipei, June 27 - 30, 2006

4th International Symposium on Symmetries in Subatomic Physics (SSP2009), Taipei, June 2 -5, 2009

Lattice QCD Program, Kavli Institute of Theoretical Physics, Beijing, July 6 - 25, 2009

The XXVII International Symposium on Lattice Field Theory, Beijing, July 25 - 31, 2009

Int. Conf. on Physics Education and Frontier Research [OCPA6], Lanzhou, Aug. 3 - 7, 2009

NSTAR 2011, Jefferson Lab., May 17 - 20, 2011

Int. Conf. on Physics Education and Frontier Research [OCPA7], Kaohsiung, Aug. 1 - 5, 2011

StrongNet 2011, European Center for Theoretical Studies, Trento, Oct. 4 - 7, 2011

Extreme QCD (XQCD) Workshop, Washington, D.C., Aug. 21 - 23, 2012

QCD Study Group Meeting, Shanghai JiaoTong University, Apr. 2-4, 2016

8th Workshop on Hadron Physics in China and Opportunities Worldwide,
Wuhan, Aug. 8-11, 2016

22nd International Spin Symposium,
University of Illinois, Sept. 25-30, 2016

9th Workshop on Hadron Physics in China and Opportunities Worldwide,
Nanjing University, July 24-28, 2017

36th International Symposium on Lattice Field Theory,
Michigan State University, July 22-28, 2018

Other Professional Activities

Associate Editor, International Review of Nuclear Physics,
World Scientific Publishing Co. 1988 - 1994.

DOE Review Panel of Computational High Energy Physics, 1994.

DOE task force on research priority in lattice QCD for
the national computing initiative, 1999

President of the Overseas Chinese Physics Association, 2003 & 2004

Committee on International Freedom of Scientists, American Physical Society, 2001 – 2004

Foreign Member of Editorial Board, Chinese Physics C, 2008 –

Academic Advisory Committee of Institute of Physics, Academia Sinica, Taiwan, 2014 –

USQCD Scientific Program Committee, 2016 – 2020

Committees

Arts & Sciences Area Committee, 1991 - 1994.

Center for Computational Sciences Advisory Committee, 1987-1996.

University Computing Policy Adviser Committee, Chairman, 1990-1991.

Departmental Council, 1987-1988.

Board Member of the National Conference on Community and Justice, 1993 - 1999
Regional Advisor of the National Conference on Community and Justice, 2002 –

President's Task Force on Research and Graduate Education, 1997.

University Senate, 2001 – 2003

External Review Committee of the College of Arts and Sciences, 2005

Center for Computational Sciences Futures Committee, 2011

Campus Cyberinfrastructure Committee, 2012

Department Chair Search Committee, 2012

Grants for which I am the Principle Investigator

DOE Grant for "Research in Theoretical Nuclear Physics",
DE-A505-82ER40074, 1982 - 1984.

NSF Grant for "Nuclear and Particle Physics", RII-8610671, 1986-1991.

DOE Grant for "Lattice Calculation of Hadron Physics",
DE-FG02-02ER45967, 2002-2005.

DOE Grant for "Research in Theoretical Nuclear Physics",
DE-FG05-84ER40154, 1984-2013.

DOE Grant for "Lattice QCD Calculation of Nucleon Structure",
DE-SC0013065, 2014 - 2016

DOE Grant for "Topical Collaboration in Nuclear Theory for the Coordinated Theoretical Approach to Transverse Momentum Dependent Hadronic Structure in QCD",
2015 - 2020

DOE Grant for "Lattice QCD Calculation of Nucleon Structure",
DE-SC0013065, 2017- 2020

DOE Grant for "Lattice QCD Calculation of Nucleon Structure",
DE-SC0013065, 2020- 2023

DOE Grant for "Topical Collaboration of 3D quark-gluon structure of hadrons: mass, spin, and tomography" 2023-2028

DOE Grant for "Lattice QCD Calculation of Nucleon Structure",
DE-SC0013065, 2023- 2027

Employment

Sep. 1974 - Sep. 1976	Visiting research scientist at CEN Saclay, Service de Physique Theorique, France
Oct. 1976 - June 1979	Research associate at Physics Dept. University of California, Los Angeles
July 1979 - Aug. 1980	Adjunct Assistant Professor, Physics Dept. University of California, Los Angeles
Sep. 1980 - July 1986	Associate Professor, Physics Dept. University of Kentucky, Lexington, KY
Dec. 1985 - July 1986	Visiting Professor, SUNY/Stony Brook, NY
Sept. 1990 - Dec. 1990	Visiting Professor, SUNY/Stony Brook, NY
Jan. 1991 - Aug. 1991	Humboldt Senior Scientist Award at HLRZ, Jülich, Germany
Jan. 1989 - 1999	Adjunct Professor, University of Science and Technology, Hefei, China
Aug. 1986 - May 2023	Professor, Physics Dept., University of Kentucky, Lexington, KY
Aug. 2006	Visiting Scientist, e-Science Institute, Edinburgh, UK
Apr. 2013 - June 2013	Visiting Prof., Physics Dept., Taiwan University
Sept. 2022 - Present	Affiliate at Lawrence Berkeley National Lab.

Review Volume Edited

K.F. Liu, Chiral Solitons, (World Scientific, 1987).

Conference Proceedings Edited

W-Y H. Wang, K.F. Liu, and Tzeng, Yiharn, Proc. of Int. Conf. on Medium- and High- Energy Nucl. Phys., Taipei, May 23-27, 1988 (World Scientific, 1989).

A. Alexandru, A. Bazarov, K.F. Liu, Proceedings of Extreme QCD 2012 (XQCD12) J. Phys. Conf. Ser. 432 (2013).

H.W. Lin, K.F. Liu et al., Proceedings of The 36th Annual International Symposium on Lattice Field Theory, PoS Lattice2018 (2019).

Refereed Publications

1. G.E. Brown, V. Horsfjord, and K.F. Liu, "The Isovector Monopole Vibration: Coulomb Energies, Breaking of Charge Symmetry and Effects from α-Particle Correlation in the Nuclear Surface", *Nucl. Phys.* **A205**, 73-80 (1973).

2. C.W. Wong, S.K. Young,and K.F. Liu, "Change Asymmetry and Neutron-Neutron Scattering", *Nucl. Phys.* **A253**, 96-123 (1975).

3. K.F. Liu, "Velocity Dependence of the Skyrme Interaction", *Phys. Lett.* **60B**, 9-14 (1975).

4. K.F. Liu and G.E. Brown, "Giant Multipole Resonances", *Nucl. Phys.* **A265**, 385-415 (1976).

5. K.F. Liu and N.V. Giai, "A Self-Consistent Microscopic Description of the Giant Resonances Including the Particle Continuum", *Phys. Lett.*, **65B**, 23-26 (1976).

6. K.F. Liu and G. Ripka, "Matrix Elements with Cranked Deformed Oscillator Wave Functions", *Nucl. Phys.* **A293**, 333-349 (1977).

7. K.F. Liu and C.W. Wong, "Comment on Electromagnetic Mass Splitting of Hadrons in the M.I.T. Bag Model", *Phys. Rev.* **D17**, 920-922 (1978).

8. K.F. Liu and C.W. Wong, "Meson Size Effect in the Newly Discovered Upsilon Particles", *Phys. Lett.* **73B**, 223-225 (1978).

9. K.F. Liu and C.W. Wong, "Quark Potential Model Mass Formulas for Hadrons", *Phys. Rev.* **D17**, 2350-2357 (1978).

10. C.W. Wong and K.F. Liu, "Detection of Nuclear Bag States", *Phys. Rev. Lett.* **41**, 82-85 (1978).

11. B. Grammaticos and K.F. Liu, "Cranking Calculations with Self-Consistent Symmetries in a Triaxial Basis", *Il Nuovo Cimento* **50A**, 349-372 (1979).

12. K.F. Liu and C.W. Wong, "Possible Exotic Mesons in the Charmonium Region", *Phys. Rev.* **D21**, 1350-1366 (1980).

13. C.W. Wong, K.F. Liu and Y. Tzeng, "Inelastic Production of Deutron Bag States", *Phys. Rev.* **C22**, 2523-2530 (1980).

14. C.W. Wong and K.F. Liu, "Comments on the Recoupled Wave Functions of Four-quark Mesons", *Phys. Rev.* **D21**, 2039-2040 (1980).

15. C.W. Wong and K.F. Liu, "Nucleon-Nucleon Interaction", Topics in Nuclear Physics, ed. T.T.S. Kuo and S.S.M. Wong, *Lecture Notes in Physics* **144**, 1-174 (Springer-Verlag 1981).

16. K.F. Liu and C.W. Wong, "Four-quark Mesonic States of Low Orbital Excitations", *Phys. Lett.* **107B**, 391-394 (198l).

17. K.F. Liu and C.W. Wong, "Center of Mass Correction in the M.I.T. Bag Model", *Phys. Lett.* **113B**, 1-5 (1982).

18. K.F. Liu, "Landau Sum Rules and Density Dependence of Spin Dependent Landau Parameters", *Il Nuo. Cim.* **70A**, 329-338 (1982).

19. K.F. Liu, "Color-Electric Instabilities in Baryons and Dibaryons?", *Phys. Lett.* **114B**, 222-226 (1982).

20. B.A. Li and K.F. Liu, "In Search of $Q^2\bar{Q}^2$ Mesons in $\gamma\gamma$ Reactions", *Phys. Lett.* **118B**, 435-441 (1982).

21. K.F. Liu and F. Gabbard, "Charge Exchange Reactions and Solar Neutrino Detection in ^{81}Br", *Phys. Rev.* **C27**, 93-97 (1983).

22. K.F. Liu and C.W. Wong, "Cluster Model of Baryons", *Phys. Rev.* **D28**, 170-180 (1983).

23. B.A. Li and K.F. Liu, "Production of Vector Meson Pairs in Hadronic Collisions", *Phys. Rev.* **D28**, 1636-1643 (1983).

24. B.A. Li and K.F. Liu, "Possible Evidence of $Q^2\bar{Q}^2$ Mesons in $\gamma\gamma \longrightarrow \rho^0\rho^0$ and $\rho^+\rho^-$ Reactions", *Phys. Rev. Lett.* **51**, 1510-1513 (1983).

25. K.F. Liu, "Color van der Waals Force in the Coupled Channel Approach", *Phys. Lett.* **131B**, 195-201 (1983).

26. B.A. Li and K.F. Liu, "Possible Explanation of $\rho^0\rho^0$ Production in J/Ψ Radiative Decay", *Phys Lett.* **134B**, 128-132 (1984).

27. B.A. Li and K.F. Liu, "J/Ψ Pair Production in Hadronic Collisions", *Phys. Rev.* **D29**, 426-432 (1984).

28. B.A. Li and K.F. Liu, "Are $Q^2\bar{Q}^2$ States Observable?", *Phys. Rev.* **D30**, 613-620 (1984).

29. K.F. Liu, J.S. Zhang and G.R.E. Black, "Time Dependence of Skyrme Soliton", *Phys. Rev.* **D30**, 2015-2018 (1984).

30. B.A. Li, Q.X. Sheng, H. Yu, and K.F. Liu, "In Search of $Q^2\bar{Q}^2$ Mesoniums in J/Ψ Radiative Decays", *Phys. Rev.* **D32**, 308-311 (1985).

31. K.F. Liu, J.S. Zhang, and G.W. Shuy, "Comment on Fusion of Polarized Deuterons", *Phys. Rev. Lett.*, **55**, 1649 (1985).

32. J.S. Zhang, K.F. Liu, and G.W. Shuy, "Fusion Reactions of Polarized Deuterons", *Phys. Rev. Lett.* **57**, 1410-1413 (1986).

33. M. Oka, K.F. Liu, and H. Yu, "Size and Shape of Interacting Skyrmion", *Phys. Rev.* **D34**, 1575-1580 (1986) .

34. W. Wilcox and K.F. Liu, "Charge Radii from Lattice Relative Charge Distributions", *Phys. Lett.* **B172**, 62-64 (1986).

35. G.E. Brown, H.Q. Song, R.K. Su, and K.F. Liu, "Roper Resonance and πN Phase Shift in the Skyrme Model with Defect", *Nucl. Phys.* **A458**, 573-582 (1986).

36. L.S. Celenza, V. Mishra, C.M. Shakin, and K.F. Liu, "Exotic States in QED", *Phys. Rev. Lett.* **57**, 55-57 (1986).

37. B.A. Li, K.F. Liu, and M.L. Yan, "Electromagnetic Mass Differences in the Skyrme Model", *Phys. Lett.* **177B**, 409-412 (1986).

38. W. Wilcox and K.F. Liu, "Relative Charge Distributions for Quarks in Lattice Mesons", *Phys. Rev.* **D34**, 3882-3887 (1986).

39. B.A. Li, K.F. Liu, and M.M. Zhang, "Semiclassical Skyrmion Equaton of Motion", *Phys. Rev.* **D35**, 1693-1697 (1987).

40. K.F. Liu and B.A. Li, "Evidence of Mesoniums in $\bar{p}n$ Annihilation and Photon-photon Reactions", *Phys. Rev. Lett.* **58**, 2288-2291 (1987).

41. B.A. Li, Q.X. Shen, and K.F. Liu, "Helicity Amplitudes of the Process J/ in the Glueball Interpretation of $\theta(1700)$", *Phys. Rev.* **D35**, 1070-1073 (1987).

42. B.A. Li and K.F. Liu, "Skyrmion Quantization and Phenomenology", Chiral Solitons, ed. K.F. Liu (World Scientific, 1987), pp. 421-456.

43. W. Wilcox and K.F. Liu, "Symmetric Source Method for Lattice Electromagnetic Form Factors", *Phys. Rev.* **D35**, 2056-2059 (1987).

44. K.F. Liu and S.F. Tuan, "Multiquark Structure of the U(3.1)", *Z. Phys.* **C39**, 57-60 (1988).

45. B.A. Li and K.F. Liu, "Symmetry Breaking in τ Decay", *Z.Phys.* **C40**, 559-563 (1988).

46. K. Ishikawa, I. Tanaka, K.F. Liu and B.A. Li, "Tensor Meson Dominance and Glueball Candidate $\theta(1720)$", *Phys. Rev.* **D37**, 3216-3219 (1988).

47. R.M. Woloshyn, T. Draper, K.F. Liu and W. Wilcox, "Heavy Meson Decay Constants from Lattice QCD", *Phys. Rev.* **D39**, 978-981 (1989).

48. B.A. Li, K.F. Liu, and M.L. Yan, "High Energy Elastic Scatterings of Skyrmions", *Phys. Lett.* **212B**, 108-112 (1988).

49. K.F. Liu, G.L. Li, and G.E. Brown, "Role of Nuclear Binding in EMC Effect", *Phys. Lett* **213B**, 531-536 (1988).

50. R.M. Woloshyn and K.F. Liu, "A Study of the Nucleon Axial Current Coupling in Quenched Lattice QCD", *Nucl. Phys.* **B311**, 527-540 (1988).

51. K.F. Liu, "Tree of Skyrmion", *Lecture Notes of Spring School on Medium-and High-Energy Nucl. Phys.*, ed. P.Hwang and E. Henley (World Scientific, 1989), pp.245-272.

52. T. Draper, R.M. Woloshyn, K.F. Liu and W. Wilcox, "The Pion Form Factor in Lattice QCD", *Nucl. Phys.* **B318**, 319-336 (1989).

53. K.F. Liu, B.A. Li, and K. Ishikawa, "Identification of $\theta(1720)$ as a Tensor Glueball", *Phys. Rev.* **D40**, 3648-3654 (1989).

54. B.A. Li and K.F. Liu, "K** Mesoniums in Reactions and Hadronic Collisions", *Phys. Rev.* **D40**, 2856-2860 (1989).

55. T. Draper, R.M. Woloshyn, and K.F. Liu, "Electromagnetic Properties of Nucleons from Lattice QCD", *Phys. Let.* **B234**, 121-126 (1990).

56. Y.G. Liang, B.A. Li, K.F. Liu, and R.K. Su, "Born Amplitudes and Seagull Term in Meson Soliton Scattering", *Phys. Lett.* **B243**, 133-140 (1990).

57. K.F. Liu, "Hadron Structure and Interaction form lattice QCD Calculation", *Int. Jour. of Supercomputer Applications* **4**, 72-80 (1990).

58. G.W. Wu, M.L. Yan and K.F. Liu, "Flavor Symmetry and Mass Splitting Formulas for Sub-SU(3) Skyrmion in SU(N)", *Phys. Rev.* **D43**, 185-195 (1991).

59. B.A. Li, M.L. Yan and K.F. Liu, "Quark Spin Content of the Proton in the Skyrme Model with Meson", *Phys. Rev.* **D43**, 1515-1519 (1991).

60. K.F. Liu, H.D. Luo, Z.Y. Ma, Q.B. Shen, and S.A.Moszkowski, "Skyrme - Landau Parametrization of the Effective Interactions", *Nucl. Phys.* **A534**, 1-24 (1991).

61. K.F. Liu, H.D. Luo, Z.Y. Ma, and Q.B. Shen, "Giant Resonances with the Extended Skyrme Interaction", *Nucl. Phys.* **A534**, 25-47 (1991).

62. K.F. Liu, H.D. Luo, and Z.Y. Ma, "Particle-Particle Effective Interaction in ^{18}O and ^{18}F", *Nucl. Phys.*, **A534**, 58-76 (1991).

63. K.F. Liu, H.D. Luo, Z.Y. Ma, and Q.B. Shen, "Sum Rules for Nuclear Excitation with Skyrme-Landau Interaction", *Nucl. Phys.* **A534**, 48-57 (1991).

64. S. Aoki et al., "Physics Goals of the QCD Teraflop Project", *Int. Jour. Mod. Phys.* **C2**, 829-947 (1991).

65. P. de Forcrand and K.F. Liu, "Glueball Wavefunctions in SU(2) Lattice Calculation", *Phys. Rev. Lett.* **69**, 245-248 (1992).

66. K.F. Liu, "Flavor-singlet Axial Charge of the Nucleon and Anomalous Ward Identity", *Phys. Lett.* **B281**, 141-147 (1992).

67. W. Wilcox, T. Draper and K.F. Liu, "Chiral Limit of Nucleon Lattice Electromagnetic Form Factors", *Phys. Rev.* **D46**, 1109-1122(1992).

68. G.E. Brown, Z.B. Li and K.F. Liu, "Why There is No Nuclear Dependence in Dimuon Production", *Nucl. Phys.* **A555**, 225-236 (1993).

69. Y. Liang, K.F. Liu, B.A. Li, and K. Ishikawa,"Lattice Calculation of Glueball Matrix Elements", *Phys. Lett.* **B307**, 375-382 (1993).

70. K.F. Liu, S.J. Dong, T. Draper, J.M. Wu and W. Wilcox, "Nucleon Axial Form Factor from Lattice QCD", *Phys. Rev.* **D49**, 4755-4761 (1994).

71. K.F. Liu and S.J. Dong, "Origin of Difference Between $\bar{u}$ and $\bar{d}$ Partons in Nucleon", *Phys. Rev. Lett.* **72**, 1790-1793 (1994).

72. S.J. Dong and K.F. Liu, "Stochastic Estimation with Z_2 Noise", *Phys. Lett.* **B328**, 130-136 (1994).

73. K.F. Liu, "Many Body Theory and Lattice Gauge Theory", *Phys. Rep.* **388**, 463-470 (1994).

74. K.F. Liu, Dong, S.J., Draper, T., and Wilcox, W., "πNN and Pseudoscalar Form Factors from Lattice QCD", *Phys. Rev. Lett.* **74**, 2172 - 2175 (1995).

75. S.J. Dong, J.-F. Lagaë and K.F. Liu, "Flavor-Singlet g_A from Lattice QCD", *Phys. Rev. Lett.* **75**, 2096-2099 (1995).

76. J.-F. Lagaë and K.F. Liu, "Finite ma corrections for Sea Quark Matrix Elements on the Lattice", *Phys. Rev.* **D52**, 4042 - 4052 (1995).

77. S.J. Dong, J.-F. Lagaë, and K.F. Liu, "$\pi N\sigma$ Term, $\bar{s}s$ in Nucleon, and Scalar Form Factor - A Lattice Study", *Phys. Rev.* **D54**, 5496-5500 (1996).

78. C.S. Lam and K.F. Liu, "A Multiple Commutator Formula for the Sum of Feynman Diagrams", *Nucl. Phys.* **B483**, 514-530 (1997).

79. C.S. Lam and K.F. Liu, "Consistency of the Baryon-Multimeson Amplitudes for Large Nc QCD", *Phys. Rev. Lett.* **79**, 597-600 (1997).

80. C. Thron, S.J. Dong, K.F. Liu, and H.P. Ying, "Padé, - Z−2 Estimator of Determinants" *Phys. Rev.* **D57**, 1642-1653 (1998).

81. K.F.Liu, "Valence Quark Model from Lattice QCD", *Lecture Notes in Physics, Chiral Dynamics: Theory and Experiment*, ed. A. Bernstein, D. Drechsel, and T. Walchepp, (Springer, 1998), pp. 78-85.

82. S.J. Dong, K.F. Liu, and A.G. Williams, "Lattice Calculation of the Strangeness Magnetic Moment of the Nucleon", *Phys. Rev.* **D58**, 074504-1 - 074504-5 (1998).

83. J.S. Zhang, K.F. Liu, and G.W. Shuy, "Neutron Suppression in Polarized *dd* Fusion Reaction", *Phys. Rev.* **C 60**, 054614-1 – 17 (1999).

84. K.F. Liu, S.J. Dong, T. Draper, D. Leinweber, J. Sloan, W. Wilcox, and R.M. Woloshyn, "Valence QCD: Connecting QCD to the Quark Model", *Phys. Rev.* **D59**, 112001-1 – 26 (1999).

85. L. Lin, K.F. Liu, and J. Sloan, "A noisy Monte Carlo algorithm", *Phys. Rev.* **D61**, 74505-1 – 5 (2000).

86. K.F. Liu, "Parton Degrees of Freedom from the Path-Integral Formalism", *Phys. Rev.* **D 62**, 074501-1 –10 (2000).

87. K.F. Liu, S.J. Dong, T. Draper, J. Sloan, W. Wilcox, and R.M. Woloshyn, "Reply to Isgur's Comments on Valence QCD", *Phys. Rev.* **D 61**, 118502-1 – 6 (2000).

88. N. Mathur, S. J. Dong, K. F. Liu, L. Mankiewicz, and N. C. Mukhopadhyay, "Quark Orbital Angular Momentum from Lattice QCD", *Phys. Rev.* **D62**, 114504-1 – 5 (2000).

89. S.J. Dong, F.X. Lee, K.F. Liu, and J.B. Zhang, "Chiral Symmetry, Quark Mass, and Scaling of the Overlap Fermions", *Phys. Rev. Lett.* **85**, 5051-5054 (2000).

90. K.F. Liu, "Strangeness Content in the Nucleon", *J. Phys.* **G27**, 511-522 (2001).

91. S.J. Dong, T. Draper, I. Horvath, F.X. Lee, K.F. Liu, and J.B. Zhang, "Chiral Properties of Pseudoscalar Mesons on a Quenched 20^4 Lattice with Overlap Fermions", *Phys. Rev.* **D65**, 054507-1 – 12 (2002).

92. I. Horvath, S.J. Dong, T. Draper, N. Isgur, F.X. Lee, K.F. Liu, J. McCune, H.B. Thacker, and J.B. Zhang, "Local Chirality of Low-Lying Dirac Eigenmodes and the Instanton Liquid Model", *Phys.Rev.* **D66**, 034501 (2002).

93. K.F. Liu, "Finite Density Algorithm in Lattice QCD – a Canonical Ensemble Approach", *Int. J. Mod. Phys.* **B16**, 2017-2032 (2002).

94. I. Horvath, S.J. Dong, T. Draper, F.X. Lee, K.F. Liu, H.B. Thacker, and J.B. Zhang, "On the Local Structure of Topological Charge Fluctuations in QCD", *Phys. Rev.***D67**, 011501 (2003).

95. B. Joo, I. Horvath, and K. F. Liu, "The Kentucky Noisy Monte Carlo Algorithm for Wilson Dynamical Fermions", *Phys. Rev.* **D67**, 074505 (2003), [hep-lat/0112033].

96. K.F. Liu and S.J. Dong, "Heavy and Light Quarks with Lattice Chiral Fermions", *Int. Jour. Modern Phys. A* **20**, 7241 (2005), [hep-lat/0206002].

97. I. Horvath, S.J. Dong, T. Draper, F.X. Lee, K.F. Liu, N. Mathur, H.B. Thacker, and J.B. Zhang, "Low-Dimensional Long-Range Topological Charge Structure in the QCD Vacuum", *Phys. Rev.* **D68**, 114505 (2003), [hep-lat/0302009].

98. Y. Chen, S.J. Dong, T. Draper, I. Horváth, F.X. Lee, K.F. Liu, N. Mathur, and J.B. Zhang, "Chiral Logs in Quenched QCD", *Phys. Rev.* **D70**, 034502 (2004), [hep-lat/0304005].

99. N. Mathur, Y. Chen, S.J. Dong, T. Draper, I. Horváth, F.X. Lee, K.F. Liu, and J.B. Zhang, "Roper Resonance and $S_{11}(1535)$ from Lattice QCD", *Phys. Lett.* **B605**, 137 (2005), [hep-ph/0306199]. [hep-ph/0306199].

100. K.F. Liu, "A Finite Baryon Density Algorithm", Edinburgh 2003, QCD and numerical analysis III, 101-111 (2005), (Springer-Verlag), [hep-lat/0312027].

101. Y. Chen, S.J. Dong, T. Draper, I. Horvath, K.F. Liu, N. Mathur, S. Tamhankar, C. Srinivasan, F. X. Lee, J.B. Zhang, "The Sequential Empirical Bayes Method: An Adaptive Constrained-Curve Fitting Algorithm for Lattice", [hep-lat/0405001].

102. N. Mathur, F.X. Lee, A. Alexandru, C. Bennhold, Y. Chen, S.J. Dong, T. Draper, I. Horvath, K.F. Liu, S. Tamhankar, and J.B. Zhang, "A Study of Pentaquarks on the Lattice with Overlap Fermions", *Phys. Rev.* **70**, 074508 (2004), [hep-ph/0406196].

103. I. Horvath, A. Alexandru, J.B. Zhang, Y. Chen, S.J. Dong, T. Draper, F.X. Lee, K.F. Liu, N. Mathur, S. Tamhankar, H.B. Thacker, "Inherently Global Nature of Topological Charge Fluctuations in QCD", *Phys, Lett.* **B612**, 21 (2005), [hep-lat/0501025].

104. I. Horvath, A. Alexandru, J.B. Zhang, Y. Chen, S.J. Dong, T. Draper, K.F. Liu, N. Mathur, S. Tamhankar, and H.B. Thacker, "The Negativity of the Overlap-Based Topological Charge Density Correlator in Pure-Glue QCD and the Non-Integrable Nature of its Contact Part", *Phys. Lett.* **B617**, 49 (2005), [hep-lat/0504005].

105. J.B. Zhang, S.J. Dong, T. Draper, I. Horváth, F.X. Lee, D.B. Leinweber, K.F. Liu, N. Mathur, and A.G. Williams, "Nonperturbative Renormalization of Composite Operators with Overlap Fermion", *Phys. Rev.* **D72**, 114509 (2005), [hep-lat/0507022].

106. A. Alexandru, M. Faber, I. Horvath, and K.F. Liu, "Lattice QCD at Finite Density via a New Canonical Approach", *Phys. ReV.* **D72**, 114513 (2005). [hep-lat/0507020].

107. S. Tamhankar, A. Alexandru, Y. Chen, S.J. Dong, T. Draper, I. Horvath, F.X. Lee, K.F. Liu, N. Mathur, and J.B. Zhang, "Charmonium Spectrum from Quenched QCD with Overlap Fermions", Phys. Lett. **B638**, 55-60 (2006), [hep-lat/0507027].

108. Y. Chen, S.J. Dong, T. Draper, I. Horváth, F.X. Lee, K.F. Liu, N. Mathur, C. Morningstar, M. Peardon, S. Tamhankar, B.L. Young, and J.B. Zhang, "Glueball Matrix Elements on Anisotropic Lattices", *Phys. Rev.* **D73**, 014516 (2006), [hep-lat/0510074]

109. I. Horvath, A. Alexandru, J.B. Zhang, Y. Chen, S.J. Dong, T. Draper, F.X. Lee, K.F. Liu, N. Mathur, S. Tamhankar, H.B. Thacker, "Inherently Global Nature of Topological Charge Fluctuations in QCD", *Phys. Lett.* **B612**, 21-28 (2005), [hep-lat/0501025].

110. I. Horvath, A. Alexandru, J.B. Zhang, Y. Chen, S.J. Dong, T. Draper, K.F. Liu, N. Mathur, S. Tamhankar, H.B. Thacker, "The Negativity of the Overlap-Based Topological Charge Density Correlator in Pure-Glue QCD and the Non-Integrable Nature of its Contact Part", *Phys. Lett.* **B617**, 49-59 (2005), [hep-lat/0504005].

111. K.F. Liu and N. Mathur, "A Review of Pentaquark Calculations on the Lattice", *Int. J. Mod. Phys.* **A21**, 851-858 (2006), [hep-lat/0510036].

112. N. Mathur, A. Alexandru, Y. Chen, S.J. Dong, T. Draper, I. Horvath, F.X. Lee, K.F. Liu, S. Tamhankar, and J.B. Zhang, "$a_0(1450)$ and $\sigma(600)$ Mesons from Lattice QCD", *Phys. Rev.* **D76**, 114505 (2007), [hep-ph/0607110].

113. H.Y. Cheng, C.K. Chua, and K.F. Liu, "Scalar Glueball, Scalar Quarkonia, and their Mixing", *Phys. Rev.* **D74**, 094005 (2006), [hep-ph/0607206].

114. K.F. Liu, "Pattern of Light Scalar Mesons", Prog. Theo. Phys. Suppl. **168**, 1 (2007).

115. K.F. Liu, A. Alexandru, and I. Horvath, "Gauge Field-Strength Tensor from the Overlap Operator", *Phys. Lett.* **B659**, 773-782 (2008), [hep-lat/0703010].

116. A. Alexandru, I. Horvath, and K.F. Liu, "Evaluation of Classical limits for Scalar and Tensor Tensities Associated with Overlap Dirac Operator", *Phys. Rev.* **D78**, 085002 (2008), [arXiv:0803.2744].

117. K.F. Liu, "Neutron Electric Dipole Moment at Fixed Topology", *Mod. Phys. Lett.* **A24**, 1971 (2009), [arXiv:0807.1365].

118. M. Deka, T. Streuer, T. Doi, S.J. Dong, T. Draper, K.F. Liu, N. Mathur, and A.W. Thomas, "Moments of Nucleon's Parton Distribution for the Sea and Valence Quarks from Lattice QCD, *Phys. Rev.* **D79**, 094502 (2009), [arXiv:0811.1779].

119. H.Y. Cheng, H.N. Li, and K.F. Liu, "Pseudoscalar Glueball Mass from the $\eta-\eta'$-G Mixing", *Phys. Rev.* **D79**, 014024 (2009), [arXiv:0811.2577].

120. T. Doi, M. Deka, S.J. Dong, T. Draper, K.F. Liu, D. Mankame, N. Mathur, and T. Streuer, "Nucleon Strangeness Form Factors from N(f) = 2+1 Clover Fermion Lattice QCD", *Phys. Rev.* **D80**, 094503 (2009), [arXiv:0903.3232].

121. A. Li, A. Alexandru, X.F. Meng, and K.F. Liu, "Study of QCD Critical Point Using Canonical Ensemble Method", *Nucl. Phys.* **A830**, 633C-635C (2009) (Proceedings of Quark Matter 2009), [arXiv:0980.1155].

122. A. Li, A. Alexandru, K.F. Liu, and X.F. Meng, "Finite density phase transition of QCD with $N_f = 4$ and $N_f = 2$ using canonical ensemble method", *Phys. Rev.* **D82**, 054502 (2010), [arXiv:1005.4158].

123. S. Prelovsek, T. Draper, C.B. Lang, M. Limmer, K.-F. Liu, N. Mathur, and D. Mohler, "Lattice study of light scalar tetraquarks with I=0,2,1/2,3/2: Are σ and κ tetraquarks?", *Phys. Rev.* **D82**, 094507 (2010), [arXiv:1005.0948].

124. A. Li, A. Alexandru, Y. Chen, T. Doi, S.J. Dong, T. Draper, M. Gong, A. Hasenfratz, I. Horváth, F.X. Lee, K.F. Liu, N. Mathur, T. Streuer, and J.B. Zhang,
"Overlap Valence on 2+1 Flavor Domain Wall Fermion Configurations with Deflation and Low-mode Substitution", *Phys. Rev.* **D82**, 114501 (2010), [arXiv:1005.5424].

125. A. Li, Andrei Alexandru, and Keh-Fei Liu,
"Critical point of $N_f = 3$ QCD from lattice simulations in the canonical ensemble", *Phys. Rev.* (Rapid Communication) **D84**, 071503 (2011), [arXiv:1103.3045].

126. J.M.M. Hall, F.X. Lee, D.B. Leinweber, K.F. Liu, N. Mathur, R.D. Young, and J.B. Zhang,
"Chiral extrapolation beyond the power-counting regime",
Phys. Rev. **D84**, 114011 (2011), [arXiv:1101.4411].

127. K.F. Liu,
"Charge-dependent Azimuthal Correlations in Relativistic Heavy Ion Collisions and Electromagnetic Effects", *Phys. Rev.* **C85**, 014909 (2012), [arXiv:1109.4883].

128. H.W. Lin and K.F. Liu,
"Comment on 'Controversy concerning the definition of quark and gluon angular momentum", *Phys. Rev.* **D85**, 058901 (2012), [arXiv:1111.0678].

129. Y.B. Yang, Y. Chen, G. Li, and K.F. Liu, "Is 1^-+ Meson a Hybrid?", *Phys. Rev.* **D86**, 094511 (2012), [arXiv:1202.2205].

130. M. Lujan, A. Alexandru, T. Draper, W. Freeman, M. Gong, F.X. Lee, A. Li, K.F. Liu, and N. Mathur, "The Δ_{mix} parameter in the overlap on domain-wall mixed action", *Phys. Rev.* **D86**, 014501 (2012), [arXiv:1204.6256].

131. K.F. Liu, W.C. Chang, H.Y. Cheng, and J.C. Peng, "Connected Sea Partons', *Phys. Rev. Lett.*, **109**, 252002 (2012), [arXiv:1206.4339].

132. M. Gong, A. Alexandru, Y. Chen, T. Doi, S.J. Dong, T. Draper, W. Freeman, M. Glatzmaier, A. Li, K.F. Liu, and Z. Liu, [χQCD Collaboration]
"Strangeness and charmness content of nucleon from overlap fermions on 2+1-flavor domain-wall fermion configurations", *Phys. Rev.* **D88**, 014503 (2013), [arXiv:1304.1194].

133. J. Liang, Y. Chen, M. Gong, L.C. Gui, K.F. Liu, Z.F. Liu, and Y.B. Yang, [χQCD Collaboration]
"The oscillatory behavior of the domain wall fermions revisited", Phys. Rev. D **89**, 094507 (2014), [arXiv:1310.3532].

134. M. Deka, T. Doi, Y. B. Yang, B. Chakraborty, S. J. Dong, T. Draper, M. Glatzmaier, M. Gong , H. W. Lin, K. F. . Liu, D. Mankame, N. Mathur, and T. Streuer, [χQCD Collaboration]
"A Lattice Study of Quark and Glue Momenta and Angular Momenta in the Nucleon," Phys. Rev. D **91**, 014505 (2015), [arXiv:1312.4816].

135. Z. Liu, Y. Chen, S. J. Dong, M. Glatzmaier, M. Gong, A. Li, and K. F. Liu, Y. B. Yang, and J. B. Zhang [χQCD Collaboration],
"Non-perturbative renormalization of overlap quark bilinears on 2+1-flavor domain wall fermion configurations,"
Phys. Rev. D **90** (2014) 034505, [arXiv:1312.7628].

136. J. C. Peng, W. C. Chang, H. Y. Cheng, T. J. Hou, K. F. Liu and J. W. Qiu,
"On the Momentum Dependence of the Flavor Structure of the Nucleon Sea,"
Phys. Lett. B **736**, 411 (2014), [arXiv:1401.1705].

137. M. Glatzmaier and K. F. Liu, and Y. B. Yang, [χQCD Collaboration]
"Perturbative Renormalization and Mixing of Quark and Glue Energy-Momentum Tensors on the Lattice,"
Phys. Rev. D **95**, no. 7, 074513 (2017),
doi:10.1103/PhysRevD.95.074513, [arXiv:1403.7211 [hep-lat]].

138. K. F. Liu,
"From Nuclear Structure to Nucleon Structure,"
Nucl. Phys. A **928**, 99 (2014), [arXiv:1404.3754].

139. Y. B. Yang, Y. Chen, T. Draper, M. Gong, K. F. Liu, Z. Liu and J. P. Ma,
"Meson Mass Decomposition from Lattice QCD," [χQCD Collaboration]
Phys. Rev. D **91**, 074516 (2015), [arXiv:1405.4440].

140. Y. B. Yang, Y. Chen, A. Alexandru, S. J. Dong, T. Draper, M. Gong, F. X. Lee and A. Li, K. F. Liu, Z. Liu, and M. Lujan, [χQCD Collaboration]
"Charm and strange quark masses and f_{D_s} from overlap fermions,"
Phys. Rev. D **92**, 034517 (2015), [arXiv:1410.3343].

141. H. Y. Cheng, C. K. Chua and K. F. Liu,
"Revisiting Scalar Glueballs,"
Phys. Rev. D **92**, no. 9, 094006 (2015),
doi:10.1103/PhysRevD.92.094006, [arXiv:1503.06827 [hep-ph]].

142. Y. Zhao, K. F. Liu and Y. Yang,
"Orbital Angular Momentum and Generalized Transverse Momentum Distribution,"
Phys. Rev. D **93** no.5, 054006 (2016), [arXiv:1506.08832].

143. K. F. Liu and C. Lorcé,
"The Parton Orbital Angular Momentum: Status and Prospects,"
Eur. Phys. J. A **52**, no. 6, 160 (2016),
doi:10.1140/epja/i2016-16160-8, [arXiv:1508.00911 [hep-ph]].

144. Y. B. Yang, A. Alexandru, T. Draper, M. Gong and K. F. Liu, [χQCD Collaboration]
"Stochastic sandwich method with low mode substitution for nucleon isovector matrix elements,"
Phys. Rev. D **93**, no. 3, 034503 (2016),
doi:10.1103/PhysRevD.93.034503, [arXiv:1509.04616 [hep-lat]].

145. E. C. Aschenauer *et al.*,
"Pre-Town Meeting on Spin Physics at an Electron-Ion Collider,"
Eur. Phys. J. A **53**, no. 4, 71 (2017);
DOI:10.1140/epja/i2017-12251-4, [arXiv:1410.8831].

146. M. Gong, Y. B. Yang, A. Alexandru, T. Draper, and K. F. Liu, [χQCD Collaboration]
"Strange and Charm Spins from Anomalous Ward Identity,"

Phys. Rev. D **95**, no. 11, 114509 (2017),
doi:10.1103/PhysRevD.95.114509, [arXiv:1511.03671 [hep-ph]].

147. Y. B. Yang, A. Alexandru, T. Draper, J. Liang and K. F. Liu, [χQCD Collaboration]
"πN and strangeness sigma terms at the physical point with chiral fermions,"
Phys. Rev. D **94**, no. 5, 054503 (2016),
doi:10.1103/PhysRevD.94.054503, [arXiv:1511.09089 [hep-lat]].

148. R. S. Sufian, Y. B. Yang, A. Alexandru, T. Draper, K. F. Liu and J. Liang, [χQCD Collaboration]
"Strange Quark Magnetic Moment of the Nucleon at Physical Point,"
Phys. Rev. Lett., **118**, no. 4, 042001 (2017), [arXiv:1606.07075 [hep-ph]].

149. K. F. Liu,
"Baryons and Chiral Symmetry" in G.E. Brown Memorial Book,
Int. J. Mod. Phys. E **26**, no. 01n02, 1740016 (2017),
doi:10.1142/S021830131740016X, [arXiv:1609.02572 [hep-ph]].

150. Y. B. Yang, R. S. Sufian, A. Alexandru, T. Draper, M. J. Glatzmaier, K. F. Liu and Y. Zhao, [χQCD Collaboration]
"Glue spin and helicity in proton from lattice QCD,"
Phys. Rev. Lett., **118**, no. 10, 102001 (2017), [arXiv:1609.05937 [hep-ph]].

151. Y. B. Yang, M. Glatzmaier, K. F. Liu and Y. Zhao,[χQCD Collaboration]
"The 1-loop correction of the QCD energy momentum tensor with the overlap fermion and HYP smeared Iwasaki gluon,"
submitted to Phys. Rev. D for publication, arXiv:1612.02855 [nucl-th].

152. J. Liang, Y. B. Yang, K. F. Liu, A. Alexandru, T. Draper and R. S. Sufian, [χQCD Collaboration]
"Lattice Calculation of Nucleon Isovector Axial Charge with Improved Currents,"
Phys. Rev. D **96**, no. 3, 034519 (2017),
doi:10.1103/PhysRevD.96.034519, [arXiv:1612.04388 [hep-lat]].

153. K. F. Liu,
"Evolution equations for connected and disconnected sea parton distributions,"
Phys. Rev. D **96**, no. 3, 033001 (2017),
doi:10.1103/PhysRevD.96.033001, [arXiv:1703.04690 [hep-ph]].

154. R. S. Sufian, Y. B. Yang, J. Liang, T. Draper and K. F. Liu, [χQCD Collaboration]
"Sea Quarks Contribution to the Nucleon Magnetic Moment and Charge Radius at the Physical Point,"
Phys. Rev. D96, no. 11, 114504 (2017), [arXiv:1705.05849 [hep-lat]].

155. K. F. Liu, J. Liang and Y. B. Yang,[χQCD Collaboration]
"Variance Reduction and Cluster Decomposition,"
Phys. Rev. D97, no. 3, 034507 (2018),
doi:10.1103/PhysRevD.97.034507, [arXiv:1705.06358 [hep-lat]].

156. K. F. Liu and A. W. Chao,
"Accelerator Based Fusion Reactor,"
Nucl. Fusion **57**, 084002 (2017),
doi:10.1088/1741-4326/aa7642, [arXiv:1707.03043 [physics.plasm-ph]].

157. Y. Bi, H. Cai, Y. Chen, M. Gong, K. F. Liu, Z. Liu and Y. B. Yang, [χQCD Collaboration]
"RI/MOM and RI/SMOM renormalization of overlap quark bilinears on domain wall fermion configurations,"
Phys. Rev. D **97**, no. 9, 094501 (2018),
doi:10.1103/PhysRevD.97.094501, [arXiv:1710.08678 [hep-lat]].

158. H. W. Lin, K.F. Liu *et al.*,
"Parton distributions and lattice QCD calculations: a community white paper,"
Prog. Part. Nucl. Phys. **100**, 107 (2018),
doi:10.1016/j.ppnp.2018.01.007, [arXiv:1711.07916 [hep-ph]].

159. Y. B. Yang, M. Gong, J. Liang, H. W. Lin, K. F. Liu, D. Pefkou and P. Shanahan,
"Nonperturbatively-renormalized glue momentum fraction at physical pion mass from Lattice QCD,"
Phys. Rev. D **98**, 074506 (2018),
DOI:10.1103/PhysRevD.98.074506, arXiv:1805.00531 [hep-lat].

160. J. Liang, Y. B. Yang, T. Draper, M. Gong and K. F. Liu, [χQCD Collaboration]
"Quark spins and Anomalous Ward Identity,"
Phys. Rev. **D98**, 074505 (2018),
DOI:10.1103/PhysRevD.98.074505, arXiv:1806.08366 [hep-ph].

161. Z. Y. Fan, Y. B. Yang, A. Anthony, H. W. Lin and K. F. Liu,
"Gluon Quasi-PDF From Lattice QCD,"
Phys. Rev. Lett. **121**, no. 24, 242001 (2018),
DOI:10.1103/PhysRevLett.121.242001, arXiv:1808.02077 [hep-lat].

162. Y. B. Yang, J. Liang, Y. J. Bi, Y. Chen, T. Draper, K. F. Liu and Z. Liu, [χQCD Collaboration]
"Proton Mass Decomposition from the QCD Energy Momentum Tensor,"
Phys. Rev. Lett. **121**, no. 21, 212001 (2018),
DOI:10.1103/PhysRevLett.121.212001 , arXiv:1808.08677 [hep-lat].

163. A. S. Kronfeld *et al.* [USQCD Collaboration],
"Lattice QCD and Neutrino-Nucleus Scattering",
Eur. Phys. J. A **55** no.11, 196 (2019)
doi:10.1140/epja/i2019-12916-x, arXiv:1904.09931 [hep-lat].

164. R. S. Sufian, K. F. Liu and D. G. Richards,
"Weak Neutral Current Axial Form Factor and (Anti)Neutrino-Nucleon Scattering",
JHEP **01**, 136 (2020),
doi:10.1007/JHEP01(2020)136, arXiv:1809.03509 [hep-ph].

165. J. Liang, M. Sun, Y. B. Yang, T. Draper and K. F. Liu., [χQCD Collaboration]
"Ratio of strange to u/d momentum fraction in disconnected insertions",

Phys. Rev. D102, 034514 (2020),
doi:10.1103/PhysRevD.102.034514, arXiv:1901.07526 [hep-ph].

166. J. Liang, T. Draper, K. F. Liu, A. Rothkopf and Y. B. Yang,[χQCD Collaboration]
"Towards the nucleon hadronic tensor from lattice QCD", Phys. Rev. **D101** no.11, 114503 (2020),
doi:10.1103/PhysRevD.101.114503, [arXiv:1906.05312 [hep-ph]].

167. M.Y. Sun, Y. Chen, G. Wang, A. Alexandru, S.D Dong, T. Draper, J. Fallica, M. Gong, F.X. Lee, A. Li, J. Liang, K.F. Liu, N. Mathur, and Y.B. Yang, [χQCD Collaboration],
"Roper State from Overlap Fermions",
Phys.Rev. **D101**, 054511 (2020),
DOI: 10.1103/PhysRevD.101.054511, arXiv:1911.02635 [hep-ph].

168. D. Horkel, Y. Bi, M. Constantinou, T. Draper, J. Liang, K.F. Liu, Z.F. Liu, Y.B. Yang, [χQCD Collaboration]
"Nucleon isovector tensor charge from lattice QCD using chiral fermions",
Phys. Rev. **D101**, 094501 (2020),
DOI: 10.1103/PhysRevD.101.094501, arXiv:2002.06699.

169. R.S. Sufian, T. Liu, A. Alexandru, S.J. Brodsky, G.F. de Teramond, H.G. Dosch, T. Draper, K.F. Liu, Y.B. Yang,
"Constraints on charm-anticharm asymmetry in the nucleon from lattice QCD",
Phys. Lett. **B 808**, 135633 (2020),
DOI: 10.1016/j.physletb.2020.135633, arXiv:2003.01078.

170. G. Wang, J. Liang, T. Draper, K.F. Liu, and Y.B. Yang, [χQCD Collaboration],
"Lattice Calculation of Pion Form Factor with Overlap Fermions",
Phys. Rev. D **104**, 074502 (2021),
doi:10.1103/PhysRevD.104.074502, arXiv:2006.05431.

171. M. Constantinou, K.F. Liu et al.,
"Parton distributions and lattice QCD calculations: toward 3D structure",
Prog. Part. Nucl. Phys. **121**, 103908 (2021),
doi:10.1016/j.ppnp.2021.103908, arXiv:2006.08636.

172. K.F. Liu,
"PDF in PDFs from Hadronic Tensor and LaMET",
Phys. Rev. D **102**, no.7, 074502 (2020),
doi:10.1103/PhysRevD.102.074502, arXiv:2007.15075.

173. A. Arbuzov, A. Bacchetta, M. Butenschoen, F. G. Celiberto, U. D'Alesio, M. Deka, I. Denisenko, M. G. Echevarria, A. Efremov and N. Y. Ivanov, **K.F. Liu**, *et al.*
"On the physics potential to study the gluon content of proton and deuteron at NICA SPD," Prog. Part. Nucl. Phys. **119**, 103858 (2021),
doi:10.1016/j.ppnp.2021.103858, arXiv:2011.15005.

174. K. F. Liu,
"Proton mass decomposition and hadron cosmological constant,"
Phys. Rev. D **104**, no.7, 076010 (2021),
doi:10.1103/PhysRevD.104.076010, arXiv:2103.15768.

175. J. Liang, A. Alexandru, Y. J. Bi, T. Draper, K. F. Liu and Y. B. Yang,
"Detecting flavor content of the vacuum using the Dirac operator spectrum,"
Submitted for publication, arXiv:2102.05380.

176. L. Liu, T. Chen, T. Draper, J. Liang, K. F. Liu, G. Wang and Y. B. Yang,
"Nucleon isovector scalar charge from overlap fermions,"
Phys. Rev. D **104**, no.9, 094503 (2021), doi:10.1103/PhysRevD.104.094503, [arXiv:2103.12933 [hep-lat]].

177. G. Wang, Yi-Bo Yang, Jian Liang, Terrence Draper, and Keh-Fei Liu [chiQCD],
"Proton momentum and angular momentum decompositions with overlap fermions,"
Phys. Rev. D **106**, no.1, 014512 (2022), doi:10.1103/PhysRevD.106.014512, [arXiv:2111.09329].

178. F. Chen, X. Jiang, Y. Chen, K. F. Liu, W. Sun and Y. B. Yang,
"Glueballs at Physical Pion Mass,"
Chin. Phys. C **47** (2023) no.6, 063108, doi:10.1088/1674-1137/accc1c [arXiv:2111.11929].

179. K. F. Liu,
"Status on lattice calculations of the proton spin decomposition,"
AAPPS Bull. **32**, no.1, 8 (2022), doi:10.1007/s43673-022-00037-4, [arXiv:2112.08416].

180. G. Wang, Terrence Draper, Keh-Fei Liu, and Yi-Bo Yang, [chiQCD],
"Muon g-2 with overlap valence fermion,"
Phys. Rev. D **107** (2023) no.3, 034513, doi:10.1103/PhysRevD.107.034513, [arXiv:2204.01280].

181. F. He, Y. J. Bi, T. Draper, K. F. Liu, Z. Liu and Y. B. Yang, [chiQCD],
"RI/MOM and RI/SMOM renormalization of quark bilinear operators using the overlap fermion,"
Phys. Rev. D **108** (2023) no.5, 5, doi:10.1103/PhysRevD.108.054506, [arXiv:2204.09246].

182. T. J. Hou, M. Yan, J. Liang, K. F. Liu and C. P. Yuan,
"Connected and Disconnected Sea Partons from CT18 Parametrization of PDFs,"
Phys. Rev. D **106** (2022) no.9, 096008, doi:10.1103/PhysRevD.106.096008, [arXiv:2206.02431].

183. V. D. Burkert, L. Elouadrhiri, A. Afanasev, J. Arrington, M. Contalbrigo, W. Cosyn, A. Deshpande, D. I. Glazier, X. Ji, S. Liuti, **K.F. Liu** *et al.*
"Precision studies of QCD in the low energy domain of the EIC,"
Prog. Part. Nucl. Phys. **131** (2023), 104032, doi:10.1016/j.ppnp.2023.104032, [arXiv:2211.15746].

184. J. Liang, **K.F. Liu** *et al.* [χQCD],
"Nucleon electric dipole moment from the θ term with lattice chiral fermions,"
Phys. Rev. D **108** (2023) no.9, 094512, doi:10.1103/PhysRevD.108.094512, [arXiv:2301.04331].

185. Y. Bi, **K.F. Liu**, *et al.* [χ QCD],
"RI/(S)MOM renormalizations of overlap quark bilinears with different levels of hypercubic smearing,"
Phys. Rev. D **108** (2023) no.5, 5, doi:10.1103/PhysRevD.108.054506, [arXiv:2302.01659].

186. K.F. Liu,
"Hadrons, superconductor vortices, and cosmological constant,"
Phys. Lett. B **849** (2024), 138418, doi:10.1016/j.physletb.2023.138418, [arXiv:2302.11600].

187. X. L. Meng, P. Sun, A. Alexandru, I. Horváth, K.F. Liu, G. Wang, and Y.B. Yang, χ QCD and CLQCD],
"Separation of Infrared and Bulk in Thermal QCD,"
JHEP, **12**, 101 (2024), doi:10.1007/JHEP12(2024)101, [arXiv:2305.09459].

188. P. X. Ma, X. Feng, M. Gorchtein, L. C. Jin, K. F. Liu, C. Y. Seng, B. G. Wang and Z. L. Zhang,
"Lattice QCD Calculation of Electroweak Box Contributions to Superallowed Nuclear and Neutron Beta Decays,"
Phys. Rev. Lett. **132**, no.19, 191901 (2024), doi:10.1103/PhysRevLett.132.191901, [arXiv:2308.16755 [hep-lat]]

189. C. Li, T. Draper, J. Hua, J. Liang, K. F. Liu, J. Shi, N. Wang and Y. b. Yang,
"Fast Fermion Smearing Scheme with Gaussian-like Profile,"
Submitted for publication, [arXiv:2310.02179].

190. J. Liang, R. S. Sufian, B. Wang, T. Draper, T. Khan, K. F. Liu and Y. B. Yang,
"Elastic and resonance structures of the nucleon from hadronic tensor in lattice QCD: implications for neutrino-nucleon scattering and hadron physics,"
Submitted for publication, [arXiv:2311.04206].

191. B. Wang, **K.F. Liu**, *et al.* [χ QCD],
"Trace anomaly form factors from lattice QCD,"
Phys. Rev. D **109**, no.9, 094504 (2024), doi:10.1103/PhysRevD.109.094504, [arXiv:2401.05496 [hep-lat]].

192. P. Achenbach, D. Adhikari, A. Afanasev, F. Afzal, C. A. Aidala, **K.F. Liu**, *et al.*
"The present and future of QCD,"
Nucl. Phys. A **1047** (2024), 122874, doi:10.1016/j.nuclphysa.2024.122874

193. R. Boussarie, M. Burkardt, M. Constantinou, W. Detmold, M. Ebert, M. Engelhardt, S. Fleming, L. Gamberg, X. Ji, Z. B. Kang, and **K.F. Liu** *et al.*
"TMD Handbook,"
Submitted for publication, [arXiv:2304.03302].

194. K.F. Liu,
"Temperature dependence of beam on plasma stopping power in the resonance regions of fusion reactions, "
Fundamental Plasma Physics 9, 100032 (2024).

195. D. Li, Y. Chen, M. Gong, **K. F. Liu**, Z. Liu and T. Wang,
"Charm physics with overlap fermions on 2+1-flavor domain wall fermion configurations,"
Chin. Phys. C **48**, no.12, 123104 (2024), doi:10.1088/1674-1137/ad736f, [arXiv:2407.03697].

196. K.F. Liu,
"Lattice QCD and neutron electric dipole moment",
Submitted to Ann. Rev. Nucl. and Part. Phys.

197. D.H. Li, Y. Chen, Ming Gong, K.F. Liu, Z. Liu, T.X. Wang [χQCD],
"Charm physics with overlap fermions on 2+1-flavor domain wall fermion configurations,"

Chin. Phys. C **48**, no.12, 123104 (2024), doi:10.1088/1674-1137/ad736f, [arXiv:2407.03697 [hep-lat]].

198. B. Hu, X. Jiang, K. F. Liu, P. Sun and Y. B. Yang,
"Trace anomaly contributions to baryon masses from Lattice QCD,"
Submitted for publication, [arXiv:2411.18402 [hep-lat]].

Proceedings and Whitepapers

1. C.W. Wong and K.F. Liu, "Detection of Quark Bag States", Proceedings of the Meeting on Exotic Resonances, Hiroshima: 84-89 (1978).

2. K.F. Liu and C.W. Wong, "Meson Spectra", Proceedings of the 1980 Guangzhou (Canton) Conference on Theoretical Particle Physics (Academia Sinica), ed. Hu Ning and Tzu Hung-Yuan, 446-460 (van Nostrand Reinhold 1980).

3. K.F. Liu, "Landau Sum Rules and Spin Dependent Landau Parameters with Meson exchanges", Proceedings of the 5th High Energy Heavy Ion Workshop, Berkeley (Oct. 1981).

4. K.F. Liu, "NN Deformation Potential in Bag Model and Color van der Waals Force", *Proceedings of Int. Summer School on N-N Int. and Nuclear Many-Body Problems*, ed. S.S. Wu and T.T.S. Kuo (World Science, 1984). pp.591-603.

5. K.F. Liu, "A Possible Measurement of Quark Gluon Plasma Temperature in Relativistic Heavy Ion Collisions", Invited Contribution at the 1983 Indiana University Nuclear Physics Workshop, 1983, *AIP Conference Proceedings* **110**, 306-311 (1984).

6. B.A. Li and K.F. Liu, "J/Ψ Pair Production in πp and pp Collisions", *Few Body Problems in Physics*, ed. B. Zeitnitz, 129-130 (Elsevier Science, 1984).

7. B.A. Li and K.F. Liu, "Production of Vector Meson Pairs in Hadronic Collisions", *Few Body Problems in Physics*, ed. B. Zeitnitz, 131-132 (Elsevier Science, 1984).

8. B.A. Li and K.F. Liu, "Possible Explanation of $\rho^0\rho^0$ Production in J/Ψ Radiative Decays", *Few Body Problems in Physics*, ed. B. Zeitnitz, 603 (Elsevier Science, 1984).

9. K.F. Liu, "Color Van der Waals Force in the Coupled Channel Approach", *Few Body Problems in Physics*, ed. B. Zeitnitz, 675 (Elsevier Science, 1984).

10. K.F. Liu and J.S. Zhang, "Time Dependence of Skyrmion", *Proceedings of the Lewes Workshop on Solitions*, ed. A. Chodos, E. Hadjmichel, and C. Tze (World Scientific, 1984), pp.103-114.

11. K.F. Liu, "Glueball Transition Amplitudes in SU(2) Lattice Gauge Monte Carlo Calculations", *AIP conference Proceedings* **132**, 90-93 (1985).

12. K.F. Liu, "Production of $Q^2\bar{Q}^2$ Mesoniums in Reactions, Hadronic Collisions, and J/Ψ Radiative Decays", *AIP Conference Proceedings* **132**, 272-276 (1985).

13. K.F. Liu, "Mesoniums and Glueballs", *Proceedings of the International Conference and Symposium on Unified Concepts of Many-body Problem (Nuclei, Stars, Metals & Liquid ^3He: Windsurfing the Fermi Sea -Stony Brook*, edited by T.T.S. Kuo and J. Speth (North-Holland, 1987), pp. 140-150.

14. K.F. Liu, "Skyrmion Tree", *Proc. of Int. Conf. on Medium Energy Physics*, eds. M.C. Chiang and L.S. Zheng (World Scientific, 1987), pp. 135-160.

15. K.F. Liu and B.A. Li, "Evidence of Mesoniums in $\bar{p}n$ Annihilations and Reactions", *Proc. of the second Int. Conf. on Hadron Spectroscopy, April 16-18, 1987*, KEK, Japan (KEK Report, 1987), pp. 138-143.

16. K.F. Liu, "On the Identification of $\theta(1720)$ as a Tensor Glueball", *Proc. of VIII Int. Workshop on Photon-Photon Collisions, Israeal, April, 1988*, ed. U. Karshon (World Scientific, 1988), p. 130-131.

17. K.F. Liu, "Identification of $\theta(1720)$ as a Tensor Glueball", *AIP Conf. Proc.,* **185** *(Brookhaven, Aug. 1988)*, ed. S.U. Chung, p. 310-314.

18. K.F. Liu, "Lattice Gauge Calculations of Glueball Wavefunctions and Mesoniums", *Proc. of the Hadron '89 Conf. (Ajaccio, France, Sept. 1989)*, pp.205-216.

19. K.F. Liu, "Nuclear Binding in EMC Effect", *Proc. of Int. Conf. in Medium and High Energy Nuclear Physics*, eds. P. Hwang, K.f. Liu and Y. Tzeng (World Scientific, 1989), pp.86-98.

20. K.F. Liu, "Lattice Gauge Calculations of Glueball Wavefunctions and Mesoniums", *Proc. of the Hadron '89 Conf. (Ajaccio, France, Sept. 1989)*, pp.205-216.

21. T. Draper, R.M. Woloshyn, W. Wilcox, and K.F. Liu, "Electromagnetic Form Factors of Hadrons", *Proc. the 1988 Symposium on Lattice Field Theory (Fermi Lab., Sept. 1988)*, eds. A.S. Kronfeld and P.B. MacKenzie, pp. 175-180 (1989).

22. K.F. Liu, "Tensor Dominance and the Tensor Glueball (1720)", *Proc. of Tau-Charm Factory Workshop, (SLAC; May 1989)*, ed. L. Beers, pp. 779-799.

23. W. Wilcox, K.F. Liu, T. Draper, and C.M. Wu, "Lattice Nucleon Electromagnetic Form Factors", *Nucl. Phys (Proc. Suppl.)* **B17**, 382-386 (1990).

24. Y.G. Liang, B.A. Li, K.F. Liu, T. Draper and R.M. Woloshyn, " Mesoniums in Lattice Gauge Calculation", *Nucl. Phys. (Proc.Suppl.)* **B17**, 408-412 (1990).

25. K.F. Liu, "Hadron Structure and Interaction from Lattice QCD", *Proc. 2nd Int. Conf on Medium- and High-Energy Nuclear Phys.*, ed. P. Hwang, (World Scientific, May 1990), pp. 64-77.

26. W. Wilcox, K.F. Liu, T. Draper, and C.M. Wu, "Lattice Nucleon Electromagnetic Form Factors", *Nucl. Phys (Proc. Suppl.)* **B17**, 382-386 (1990).

27. Y.G. Liang, K.F. Liu, B.A. Li, Ishikawa, K., "Lattice Calculation of Glueball Matrix Elements". *Nucl. Phys. (Proc. Suppl.)* **B20**, 189-193 (1991).

28. K.F. Liu, C.M. Wu, S.J. Dong, W. Wilcox, "Nucleon Axial Form Factor in Lattice Calculation". *Nucl. Phys. (Proc. Suppl.)*, **B20**, 467-474 (1991).

29. S.J. Dong and K.F. Liu, "Quark Loop Calculations", *Nucl. Phys.***B26** *(Proc. suppl.)*, 353-355 (1992).

30. S.J. Dong and K.F. Liu, "Sea-Quark Effects in Nucleon Structure", *Nucl. Phys. (Proc. Suppl.)* **B30**, 487-490 (1993).

31. P. de Forcrand and K.F. Liu, "Glueball Wavefunctions", *Nucl. Phys. (Proc. Suppl.)* **B30**, 521-524 (1993).

32. K.F. Liu, "Nucleon Structure from Lattice QCD", Invited talk at Energy Research Power Users Symposium, Rockville, MD, July 1994; hep - lat/9408007.

33. K.F. Liu and S.J. Dong, "Quark Model form Lattice QCD", *XXVII Int. Conf. on High Energy Physics, Glasgow, 20-27 July 1994*, ed. P.J. Bussey and I.G. Knowles, (IOP Publishing LTD, 1995), pp. 717-719.

34. S.J. Dong and K.F. Liu, "$\pi N\sigma$ Term and Quark Spin Content of the Nucleon", *Nucl. Phys. (Proc. Suppl.)* **B 42**, 322-324 (1995).

35. J.-F. Lagaë and K.F. Liu, "Finite ma Corrections for Sea Quark Matrix Elements", *Nucl. Phys. (Proc. Suppl.)* **B42**, 355-357 (1995).

36. K.F. Liu, "Comments on Lattice Calculations of Proton Spin Components", *Report for the workshop on future physics at HERA*, Sept. 25-26, 1995; hep-lat/9510046.

37. C. Thron, S.J. Dong, and K.F. Liu, "The PZ Method for Estimating Determinant Ratios with Applications", *Nucl. Phys. B (Proc. Suppl.)* **53**, 977-979 (1997).

38. K.F. Liu, S.J. Dong and C. Thron, "Hybrid Monte Carlo without Pseudofermions", *Nucl. Phys. B (Proc. Suppl.)* **53**, 980-982 (1997).

39. H.P. Ying, S.J. Dong, and K.F. Liu, "Comparison of Algorithms for Matrix Inversion with Multiquarks", *Nucl. Phys. B (Proc. Suppl.)* **53**, 993-996 (1997).

40. S.J. Dong, T. Draper, W.C. Kuo, K.F. Liu, C. Nenkov, M. Peardon, J. Sloan, and B.L. Young, "Glueball Matrix Elements on Anisotropic Lattices", *Nucl. Phys. B (Proc. Suppl.)* **63**, 254- 256 (1998).

41. K.F. Liu, "Valence Quark Model from Lattice QCD", *Nucl. Phys. B (Proc. Suppl.)* **64**, 129-133 (1998).

42. L. Lin, K.F. Liu, and J. Sloan, "An Improvement to the Linear Accept/Reject Algorithm", *Nucl. Phys.* **B Proc. Suppl. 73**, 843-846 (1999).

43. N. Mathur, S.J. Dong, K.F. Liu, and N.C. Mukhopadhyay, "Proton Spin Content From Lattice QCD", *Nucl. Phys.* **B Proc. Suppl. 83**, 247-249 (2000).

44. K.F. Liu, S.J. Dong, F.X. Lee, J.B. Zhang, " Hadron Masses and Quark Condensate from Overlap Fermions", *Nucl. Phys.* **B Proc. Suppl. 83**, 636-638 (2000).

45. K.F. Liu, S.J. Dong, F.X. Lee, and J.B. Zhang, "Overlap Fermions on a 20^4 Lattice", *Nucl. Phys. Proc. Suppl.* **B94**, 752-755 (2001).

46. I. Horvath, S.J. Dong, T. Draper, F.X. Lee, K.F. Liu, J.B. Zhang, H.B. Thacker, "The local structure of topological charge fluctuations in QCD", *Nucl. Phys.***B Proc. Suppl. 119**, 688 (2003).

47. T. Draper, S.J. Dong, I. Horvath, F. Lee, K.F. Liu, N. Mathur, J.B. Zhang, "Quenched Chiral Log and Light Quark Mass from Overlap Fermions", *Nucl. Phys.***B Proc. Suppl. 119**, 239 (2003).

48. F.X. Lee, S.J. Dong, T. Draper, I. Horvath, K.F. Liu, N. Mathur, J.B. Zhang, "Excited baryons from Bayesian priors and overlap fermions", *Nucl. Phys.***B Proc. Suppl. 119**, 297 (2003).

49. H. Thacker, S.J. Dong, T. Draper, I. Horvath, F.X. Lee, K.-F. Liu, J.B. Zhang, "Topological Charge Correlators, Spectral Bounds, and Contact Terms", *Nucl. Phys.***B Proc. Suppl. 119**, 685 (2003).

50. I. Horvath, S.J. Dong, T. Draper, K.F. Liu, N. Mathur, F.X. Lee, H.B. Thacker, and J.B. Zhang, "Uncovering Low-Dimensional Topological Structure in the QCD Vacuum", Proceedings of the "Confinement V" Conference, Gargnano, Italy, Sep 10-14, 2002.

51. I. Horvath, S.J. Dong, T. Draper, F.X. Lee, K.F. Liu, N. Mathur, J.B. Zhang, and H.B. Thacker, "Topological Structure of the QCD Vacuum", *Nucl. Phys.* **B Proc.Suppl.129**, 677 (2004), [hep-lat/0308029].

52. J.B. Zhang, D.B. Leinweber, K.F. Liu, and A.G. Williams, "Nonperturbative Renormalization of Composite Operators with Overlap Quarks", Cairns 2003, Lattice hadron physics, *Nucl. Phys.* **B Proc.Suppl.128**, 240 (2004), [hep-lat/0311030].

53. S. Tamhankar, A. Alexandru, Y. Chen, S. J. Dong, T. Draper, I. Horvath, F. X. Lee, K. F. Liu, N. Mathur, J. B. Zhang, "Charmonium Spectrum from Quenched QCD with Overlap Fermions", *Nucl. Phys. Proc. Suppl.* **B140**, 434 (2005), [hep-lat/0409128].

54. A. Alexandru, M. Faber, I. Horvath, and K.F. Liu, "Progress on a Canonical Finite Density Algorithm", *Nucl. Phys. Proc. Suppl.* **B140**, 517 (2005), [hep-lat/0410002].

55. K.F. Liu, " Simulation of Lattice Gauge Action from the Overlap Operator", *PoS(LAT2006)*, 056 (2006), [hep-lat/0609033].

56. T. Draper, N. Mathur, A. Alexandru, Y. Chen, S.J. Dong, I. Horvath, F.X. Lee, K.F. Liu, S. Tamhankar, and J.B. Zhang, "On the Locality and Scaling of Overlap Fermions at Coarse Lattice Spacings", [hep-lat/0609034].

57. Anyi Li, A. Alexandru, and K.F. Liu " Reweighting method in Finite Density lattice QCD", *PoS(Lattice06)030*, (2006), [hep-lat/0612011].

58. S.J. Dong and K.F. Liu, "Finite ma Errors of the Overlap Fermion", *PoS(LAT2007)093* (2007), [arXiv: 0710.3038].

59. A. Li, A. Alexandru, and K.F. Liu, "Recent Results in Finite Density from the Canonical Approach", *PoS(LAT2007)203* (2007), [arXiv:0711.2692].

60. K.F. Liu, "Challenges of Lattice Calculation of Scalar Mesons", *AIP Conf. Proc.* **1030**, 305 (2008), [arXiv:0805.3364].

61. T. Doi, M. Deka, S.J. Dong, T. Draper, K.F. Liu, D. Mankame, N. Mathur, T. Streuer, and I. Horvath, "Strangeness and Glue in the Nucleon from Lattice QCD", *PoS(LAT2008)*, 163 (2008), [arXiv:0810.2482].

62. D. Mankame, T. Doi, T. Draper, K.F. Liu, and T. Streuer, "2+1 flavor QCD Calculation of $\langle x \rangle$ and $\langle x^2 \rangle$", *PoS (LAT2008)*, 142 (2008), [arXiv:0810.3241].

63. A. Li, X. Meng, A. Alexandru, and K.F. Liu, "Finite Density Simulations with Canonical Ensemble", *PoS(LAT2008)*, 178 (2008), [arXiv:0810.2349].

64. S.J. Dong and K.F. Liu (χ QCD Collaboration), "Charmed Strange Mesons from Lattice QCD with Overlap Fermions", *PoS (LAT2008)*, 117 (2008), [arXiv:0810.2993].

65. χQCD Collaboration: T. Draper, T. Doi, K.F. Liu, D. Mankame, N. Mathur, and X. Meng, "Light Scalar Mesons in 2+1 Flavor Full QCD", *PoS (LAT2008)*, 108 (2008), [arXiv:0810.5512].

66. F. Buccella, D.V. Bugg, Yu.S. Kalashnikova, K.F. Liu, F. Llanes-Estrada, T. Matsuki, J.A. Oller, J.L. Rosner,G. Rupp, and M.D. Scadron, "Panel Discussion on Scalar Mesons: Plenary Session", *AIP Conf.Proc.1030:387-391 (2008).*

67. K.F. Liu "Panel Discussion on Scalar Mesons", *AIP Conf.Proc.1030:383-384 (2008).*

68. X.F. Meng, A. Alexandru, A. Li, and K.F. Liu, "Winding Number Expansion for the Canonical Approach to finite density Simulations", *PoS (LATTICE 2008)*, 032 (2008), [arXiv:0811.2112].

69. S.J. Dong, A. Alexandru, T. Draper, K.F. Liu, A. Li, T. Streuer, and J.B. Zhang, " The Charmed-strange Meson Spectrum from Overlap Fermions on domain Wall Dynamical Fermion Configurations", *PoS (LAT2009)*, 090 (2009), [arXiv:0911.0868].

70. T. Doi, M. Deka, S.J. Dong, T. Draper, K.F. Liu, D. Mankame, N. Mathur, and T. Streuer, "The Calculation of Nucleon Strangeness Form Factors from $N_f = 2 + 1$ Clover Fermion Lattice QCD", *PoS (LAT2009)*, 134 (2009), [arXiv:0910.2687].

71. S. Prelovsek, T. Draper, C.B. Lang, M. Limmer, K.-F. Liu, N. Mathur, and D. Mohler, "Spectroscopy of Light Tetraquark States", *PoS (LAT2009)*, 103 (2009), [arXiv:0910.2749].

72. S. Prelovsek, T. Draper, C.B. Lang, M. Limmer, K.-F. Liu, N. Mathur, and D. Mohler, "Searching for tetraquarks on the lattice", (Proc. of Lepton-Photon Conference, 2009), [arXiv:1002.0193].

73. T. Doi, M. Deka, S.J. Dong, T. Draper, K.F. Liu, D. Mankame, N. Mathur, and T. Streuer, "Nucleon strangeness form factors and moments of PDF", *AIP Conf.Proc.*, **1374**, 598-601 (2011), [arXiv:1010.2834].

74. N. Mathur, A. Alexandru, Y. Chen, T. Doi, S.J. Dong, T. Draper, M. Gong, F.X. Lee, A. Li, K.-F. Liu, T. Streuer, and J.B. Zhang, "Meson spectra from overlap fermion on domain wall gauge configurations", *PoS (LAT2010)*, 114 (2010), [arXiv:1011.4378].

75. M. Gong, A. Li, A. Alexandru, Y. Chen, T. Draper, K.F. Liu, "Study of the scalar charmed-strange meson Ds0*(2317) with chiral fermions", *PoS(LAT2010)*, 106 (2010), [arXiv:1103.0589].

76. K.F. Liu, M. Deka, T. Doi, Y.B. Yang, B. Chakraborty, Y. Chen, S.J. Dong, T. Draper, M. Gong, H.W. Lin, D. Mankame, N. Mathur, and T. Streuer, "Quark and Glue Momenta and Angular Momenta in the Proton — a Lattice Calculation", *PoS LATTICE2011*, 164 (2011), [arXiv:1203.6388].

77. M. Gong, A. Li, A. Alexandru, T. Draper, K.F. Liu (χQCD Collaboration), "The Strangeness and Charmness of Nucleon from Overlap Fermions", *PoS LATTICE2011*, 156 (2011), [arXiv:1204.0685].

78. Y. Chen, W. F. Chiu, L. C. Gui, J. Liang, K. F. Liu, Z. Liu and Y. B. Yang, "Lattice study on exotic vector charmonium relevant to X(4260)," PoS LATTICE **2013**, 251 (2013).

79. Y. Yang, Y. Chen, A. Alexandru, S. J. Dong, T. Draper, M. Gong, F. ee and A. Li, K. F. Liu, Z. Liu, M. Lujan, and N. Mathur, "Charmonium, D_s and D_s^* from overlap fermion on domain wall fermion configurations," PoS LATTICE **2013**, 500 (2014).

80. Z. Liu, Y. Chen, Y. Yang, S. J. Dong, M. Glatzmaier, M. Gong, A. Li, K. F. Liu, and J. B. Zhang [chiQCD Collaboration], "Non-perturbative renormalization of overlap quark bilinears on domain wall fermion configurations," PoS LATTICE **2013**, 307 (2014) [arXiv:1312.0375].

81. J. C. Peng, W. C. Chang, H. Y. Cheng and K. F. Liu, "The Flavor Structure of the Nucleon Sea," Few Body Syst. **56**, 349 (2015), doi:10.1007/s00601-015-0951-6 [arXiv:1402.1236 [hep-ph]].

82. K. F. Liu, Y. Chen, M. Gong, R. Sufian, M. Sun and A. Li, "The Roper Puzzle," PoS LATTICE **2013**, 507 (2014), [arXiv:1403.6847].

83. E. C. Aschenauer, I. Balitsky, L. Bland, S. J. Brodsky, M. Burkardt, V. Burkert, J. P. Chen and A. Deshpande *et al.*, "Pre-Town Meeting on Spin Physics at an Electron-Ion Collider," Eur. Phys. J. A **53**, no. 4, 71 (2017), doi:10.1140/epja/i2017-12251-4, [arXiv:1410.8831 [hep-ph]].

84. Y. B. Yang, M. Gong, K. F. Liu and M. Sun, "Quark Spin in Proton from Anomalous Ward Indentity," PoS LATTICE **2014**, 138 (2014), [arXiv:1504.04052].

85. Y. B. Yang, Y. Chen, T. Draper, M. Gong, K. F. Liu, Z. Liu and J. P. Ma, "Meson Mass Decomposition," PoS LATTICE **2014**, 137 (2014), [arXiv:1411.0927].

86. R. S. Sufian, M. Glatzmaier, Y. B. Yang, K. F. Liu, and M. Sun [xQCD Collaboration], "Glue Spin S_G in The Longitudinally Polarized Nucleon," PoS LATTICE **2014**, 166 (2015), [arXiv:1412.7168].

87. M. Sun, Y. Yang, K. F. Liu and M. Gong,
"Strange quark momentum fraction from overlap fermion," PoS LATTICE **2014**, 142 (2015), [arXiv:1502.05482].

88. K. F. Liu,
"Quark and Glue Components of the Proton Spin from Lattice Calculation," Plenary talk given at SPIN2014, the 21st International Symposium on Spin Physics, Int. J. Mod. Phys. Conf. Ser. **40**, 1660005 (2016), doi:10.1142/S2010194516600053, [arXiv:1504.06601 [hep-ph]].

89. C. Lorcé and K. F. Liu,
"Quark and gluon orbital angular momentum: Where are we?," Few Body Syst. **57**, no. 6, 379 (2016), doi:10.1007/s00601 -016-1043-y, [arXiv:1601.05282 [hep-ph]].

90. Y. B. Yang, R. S. Sufian, A. Alexandru, T. Draper, M. J. Glatzmaier and K. F. Liu, "Glue Spin of the Proton," PoS LATTICE **2015**, 129 (2016), [arXiv:1603.05256 [hep-ph]].

91. K. F. Liu, "Parton Distribution Function from the Hadronic Tensor on the Lattice," PoS LATTICE **2015**, 115 (2016), [arXiv:1603.07352 [hep-ph]].

92. K. F. Liu, J. Liang and Y. B. Yang, "Nucleon Matrix Elements at Physical Pion Mass and Cost Comparison," Pos LATTICE **2016**, (2016), arXiv:1702.04384 [hep-lat].

93. Y. B. Yang, Y. Chen, T. Draper, J. Liang and K. F. Liu, "Proton mass decomposition," EPJ Web Conf. **175**, 14002 (2018), doi:10.1051/epjconf/201817514002, [arXiv:1710.09011 [hep-lat]].

94. J. Liang, K. F. Liu and Y. B. Yang, "Lattice calculation of hadronic tensor of the nucleon," EPJ Web Conf. **175**, 14014 (2018), doi:10.1051/epjconf/201817514014, [arXiv:1710.11145 [hep-lat]].

95. G. Wang, J. Liang, T. Draper, K. F. Liu and Y. B. Yang, "Pion Form Factor with Overlap Fermion," PoS LATTICE **2018**, 127 (2018), doi:10.22323/1.334.0127, arXiv:1810.12824 [hep-lat].

96. J. Fallica, K. F. Liu, J. Liang, G. Wang and Y. B. Yang, "Coupling to Multihadron States with Chiral Fermions," PoS LATTICE **2018**, 080 (2019), doi:10.22323/1.334.0080, arXiv:1812.02252 [hep-lat].

97. Y. Hatta, Y. V. Kovchegov, C. Marquet, A. Prokudin, K.F. Liu, *et al.* "Proceedings, Probing Nucleons and Nuclei in High Energy Collisions: Dedicated to the Physics of the Electron Ion Collider: Seattle (WA), United States, October 1 - November 16, 2018," doi:10.1142/11684, arXiv:2002.12333.

98. Jian Liang and K.F. Liu, "PDFs and Neutrino-Nucleon Scattering from Hadronic Tensor," PoS, LATTICE2019, 046 (2020), arXiv:2008.12389.

99. T. J. Hou, J. Liang, K. F. Liu, M. Yan and C. P. Yuan, "Connected and Disconnected Sea Partons from CT18 Parametrization of PDFs," SciPost Phys. Proc. **8** (2022), 067, doi:10.21468/SciPostPhysProc.8.067, [arXiv:2108.06768].

100. M. Constantinou, L. Del Debbio, X. Ji, H. W. Lin, K. F. Liu, C. Monahan, K. Orginos, P. Petreczky, J. W. Qiu and D. Richards, N. Sato, P. Shanahan, C.-P. Yuan, J.H. Zhang, and Y. Zhao, "Lattice QCD Calculations of Parton Physics," https://doi.org/10.48550/arXiv.2202.07193, [arXiv:2202.07193].

101. L. A. Ruso, **K.F. Liu** *et al.,*
"Theoretical tools for neutrino scattering: interplay between lattice QCD, EFTs, nuclear physics, phenomenology, and neutrino event generators,"
2022 Snowmass Summer Study, [arXiv:2203.09030].

102. G. Colangelo, M. Davier, A. X. El-Khadra, M. Hoferichter, C. Lehner, L. Lellouch, T. Mibe, B. L. Roberts, T. Teubner H. Wittig, and **K.F. Liu***et al.*
"Prospects for precise predictions of a_μ in the Standard Model,"
2022 Snowmass Summer Study, [arXiv:2203.15810].

103. A. S. Kronfeld, **K.F. Liu** *et al.* [USQCD],
"Lattice QCD and Particle Physics,"
2022 Snowmass Summer Study, [arXiv:2207.07641].

104. B. Acharya, C. Adams, A. A. Aleksandrova, K. Alfonso, P. An, and **K.F. Liu**, *et al.*
"Fundamental Symmetries, Neutrons, and Neutrinos (FSNN): Whitepaper for the 2023 NSAC Long Range Plan,"
Whitepaper, [arXiv:2304.03451].

105. R. Abir, I. Akushevich, T. Altinoluk, D. P. Anderle, F. P. Aslan, **K.F. Liu**, *et al.*
"The case for an EIC Theory Alliance: Theoretical Challenges of the EIC,"
Whitepaper, [arXiv:2305.14572].

106. R. Alarcon, A. Aleksandrova, **K.F. Liu**, *et al.*
"Fundamental Neutron Physics: a White Paper on Progress and Prospects in the US,"
Whitepaper, [arXiv:2308.09059].

Invited Talks at International Conferences and Schools

1. "Continuum RPA",
   Eighth Masurian School in Nuclear Physics,
   Mikolajki, Poland, Aug. 24-Sept. 5, 1975.

2. "Effective Particle-Hole Interactions",
   International School of Physics-Enrico Fermi,
   Varenna, Italy, July 26-Aug. 7, 1976.

3. "Neutron-Neutron Scattering Length and effective Range",
   International School of Nuclear Physics-Ettore Majorana,
   Erice, Italy, Sept. 3 - Sept. 13, 1976.

4. "Detection of Multi-Baryon Resonances",
   International Meeting on Exotic Resonances,
   Hiroshima, Japan, Sept. 1, 1978.

5. "Meson Spectra",
   1980 Guangzhou Conference on Theoretical Particle Physics,
   Guangzhou, China. Jan. 5-10, 1980.

6. "Nucleon-Nucleon Interactions",
   Lecture series presented at International Winter School in Nuclear Physics,
   Beijing, China, Dec. 22, 1980 - Jan. 9, 1981.

7. "Multi-quark Hadrons",
   Workshop on the Role of QCD and Quarks in Nuclear Physics,
   University of Washington, Seattle, Aug. 2, 1982.

8. "NN Deformation Potential in Bag Model and Color van der Waals Force",
   International Summer School on Nucleon-Nucleon Interaction and Nuclear Many-Body Problem,
   Changchun, China, July 25 - Aug. 1, 1983.

9. "Charge Exchange Reactions and Solar Neutrino Detection in ^{81}Br",
   International Summer School on Nucleon-Nucleon Interaction and Nuclear Many-Body Problem,
   Changchun, China, July 25 - Aug. 1, 1983.

10. "A Possible Measurement of Quark Gluon Plasma Temperature in Relativistic Heavy Ion Collisions",
    1983 Indiana University Nuclear Physics Workshop on Manifestation of Hadron Substructure in Nuclear Physics,
    Bloomington, Oct. 19-21, 1983.

11. "Time Dependence of Skyrmion",
    Lewes Center for Theoretical Physics Workshop on Solitons,
    Lewes, June 11-15, 1984.

12. "Production of Vector Meson Pairs in Reactions",
VIth International Workshop on Photon-Photon Collisions,
Lake Tahoe, Sept. 10-13, 1984.

13. "Glueball Transition Amplitudes in SU(2) Lattice Gauge Monte Carlo Simulations",
International Conference on Hadron Spectroscopy-1985,
University of Maryland, April 20-22, 1985.

14. "Production of $Q^2\bar{Q}^2$ Mesoniums in Reactions, Hadronic Collisions, and J/Ψ Radiative Decays",
International Conference on Hadron Spectroscopy-1985,
University of Maryland, April 20-22, 1985.

15. "Skyrme-Landau Parametrization of Effective Interactions",
1985 Indiana University International Conference on Nuclear Physics,
Bloomington, Oct. 21-23 (1985).

16. "Mesoniums and Glueballs",
International Conference and Symposium on Unified Concepts of Many-Body Problems,
SUNY/Stony Brook, NY, Sept. 4-6, 1986.

17. "Vacuum to Glueball Transition Amplitudes in SU(2) Lattice Gauge Monte Carlo Simulations",
International Symposium on Lattice Gauge Theory,
Brookhaven National Lab. Sept. 15-19, 1986.

18. "Evidence of Mesoniums in Reactions and $\bar{p}n$ Annihilations",
2nd International Conference on Hadron Spectroscopy, KEK,
Tsukuba, Japan, April 16-18, 1987.

19. "Skyrmion Tree",
Int. Conf. on Medium Energy Physics,
Beijing, June 22-27, 1987.

20. "Exploring New Turfs in Nuclear Structure Calculations with Supercomputers",
First SUPER Int. Conf.,
Cornell Univ., March 29-30, 1988.

21. "Identification of $\theta(1720)$ as a Tensor Glueball",
VIII International Workshop on Photon-Photon Collisions,
Shoresh, Israel, April 24-28, 1988.

22. "Tree of Skyrmion",
International Spring School on Medium and High Energy Physics,
Taipei, May 16-24, 1988.

23. "Role of Nuclear Binding in EMC Effect",
Int. Conf. on Medium and High Energy Nuclear Physics,
Taipei, May 23-27, 1988.

24. "On the Tensor glueball candidate $\theta(1720)$",
BNL Workshop on Glueballs, Hybrids and Exotic Hadrons,
Aug. 29-Sept. 1, 1988.

25. "Tensor Dominance and Glueball $\theta(1720)$",
Tau-Charm Workshop,
SLAC, May 22-27, 1989.

26. "Mesoniums in Lattice QCD",
Lattice 89 Conference,
Capri, Sept. 22-27, 1989.

27. "Glueball Wavefunctions in SU(2) Lattice Calculation",
Int. Conference on Hadron Spectroscopy,
Ajaccio, France, Sept. 23-27, 1989.

28. "Hadron Structure and Interaction in Lattice QCD Calculation",
Int. Conf. on Medium- and High- Energy Nucl. Phys.,
Taiwan, May 14-18, 1990.

29. "Tensor Glueball",
Kaon Workshop,
TRIUMF, July 23-25, 1990.

30. "Hadron Structure and Interaction on the Lattice",
International Conference on High Energy Physics,
Singapore, Aug. 2-9, 1990.

31. "Glueball Matrix Elements",
International Conference on Lattice Field Theory,
Tallahassee, Oct. 8-12, 1990.

32. "Nucleon Axial-Vector Form Factors",
International Conference on Lattice Field Theory,
Tallahassee, Oct. 8-12, 1990.

33. "Flavor-singlet Axial Charge of the Nucleon",
Moriond Conference on Hadron Interaction at High Energies,
Les Arcs, Mar. 18-22,1991.

34. "Quark Loop Calculations",
Int. Conf. on Lattice Field Theory,
Tsukuba, Japan, Nov. 5-9, 1991.

35. "Shell Model and Quark Model: Many Body Theory vs. Lattice QCD",
Conf. on Realistic Nuclear Structure,
Stony Brook, May 28-30 1992.

36. "Skyrmion Phenomenology",
21st Int. Conf. on Differential Geometry Methods in Theoretical Physics,
Tianjian, June 5-9, 1992.

37. "Nucleon Structure from Lattice QCD",
QCD Workshop,
Argonne National Lab., July 13-17, 1992.

38. "Sea-Quark Effects in Nucleon",
Lattice '92 Conf.,
Amsterdam, Sept. 15-19, 1992.

39. "Vacuum Polarization and Nucleon Structure",
International Workshop on Nuclear and Intermediate Energy Physics,
Bochum, Germany, Sept. 10-12, 1992.

40. "Sea-Quark Effects in Nucleon Structure",
DPF '92, APS Particles and Fields Divisional Meeting,
Fermilab, Nov. 1992.

41. "Sea-Quarks in Nucleon",
Panic '93, Particle and Nuclear International Conference,
Perugia, Italy, Jun. 28 - Jul. 2, 1993.

42. "Origin of Difference between $\bar{u}$ and $\bar{d}$ in the Nucleon",
Institute of Nuclear Theory Workshop on Lattice Theory,
Seattle, Jul. 12 - Jul. 30, 1993.

43. "Lattice Calculation of Nucleon Properties",
Workshop on Chiral Symmetry and Nuclear Physics,
European Center for Theoretical Studies, Sept. 20 - 30, 1993.

44. "Quark Model from QCD",
Lattice '93 Conference,
Dallas, Oct. 12 - 16, 1993.

45. "Glueball Masses and Matrix Elements from Lattice Calculation",
Intersections of Nuclear and Particle Physics,
St. Petersburg, May 30 - June 2, 1994.

46. "Nucleon Structure from Lattice QCD",
2nd Energy Research Power Users Symposium,
Rockville, MD, July 12, 1994.

47. "Quark Model from QCD",
International Conference on High Energy Physics,
Glasgow, July 21 - 27, 1994.

48. "Quark Model from Lattice QCD",
Int. Workshop on Hadron Physics at e^+e^- colliders,
Institute of High Energy Physics, Beijing. Oct. 12-15, 1994.

49. "Flavor-Singlet Axial Current and Gottfried Sum Rule from Lattice QCD",
Cambridge Workshop on Particle Physics,
Cambridge, England, Dec. 16-18, 1994.

50. "Valence Approximation in Lattice QCD",
Int. Symp. on Lattice Field Theory,
Melbourne, Australia, July 11-15, 1995.

51. "Stochastic Calculation with Z_2 Noise",
Workshop on Large Sparse Matrix Calculation and Lattice QCD,
Univ. Of Kentucky, Aug. 31-Sept. 2, 1995.

52. "Nucleon Structure from Lattice QCD",
3rd Int. Conf. On Computational Physics,
Chunyuen, Taiwan, Nov. 13-17, 1995.

53. "Nucleon Structure from Lattice QCD",
Plenary Talk at APS meeting,
Indianapolis, May 2-5, 1996.

54. "Valence Quark Model from Lattice QCD",
Institute of Nuclear Theory,
Univ. of Washington, May 13-17, 1996

55. "Hybrid Monte Carlo without Pseudofermions",
Lattice '96,
St. Louis, June 4-8, 1996

56. "Valence Quark Model from Lattice QCD",
Workshop on Hadron Physics,
Argonne National Lab., July 22-25, 1996.

57. "Flavor Singlet g_A from Lattice Calculation",
Int. Conf. on High-Energy Physics,
Warsaw, Jul. 26-31, 1996

58. "Quark and Parton Model from Lattice QCD",
3rd Int. Workshop on Particle Phenomenology,
Taiwan, Nov. 15-17, 1996.

59. "Anatomy of Flavor-singlet g_A",
QCD Euroconference 97,
Montpellier, July 3-9, 1997.

60. "Valence QCD and Quark Model",
QCD Workshop,
Bonn, July 28-31, 1997.

61. "Valence QCD and Quark Model",
International Symposium on Trends in Sub-Atomic Physics,
Taipei, August 7-12, 1997.

62. "Parton Degree of Freedom from Path Integral Formalism",
2nd Joint Meeting of Chinese Physical Societies,
Taipei, August 11-15, 1997.

63. "Valence Quark Model from Lattice QCD",
Workshop on Chiral Dynamics,
Mainz, Sept. 1-5, 1997.

64. "Valence QCD and Quark Model",
Workshop on N* Physics,
Trento, May 18-22, 1998.

65. "Valence QCD and Lattice Results",
International Conference on High Energy Physics,
Vancouver, July 23, 30, 1998.

66. "Flavor-spin Structure of Nucleon from Lattice Calculations",
Division of Nuclear Physics Annual Meeting,
Santa Fe, Oct. 28-31, 1998.

67. "A Noisy Monte Carlo Algorithm',
Workshop on Lattice QCD,
Adelaide, Australia, Nov. 7 – 12, 1998.

68. "Valence QCD and Quark Model",
Plenary talk, Joint US-Japan Workshop on Photon–Hadron Physics,
Honolulu, Feb. 22 – 25, 1999.

69. "Parton Degrees of Freedom from Path-Integral Formalism",
Plenary talk, Gordon Conference on Nuclear Physics and QCD,
Newport, July 19 – 23, 1999.

70. "Noisy Monte Carlo with Fermion Determinant",
Workshop on Numerical Challenges in Lattice QCD,
Wuppertal, Germany, Aug. 22 - 24, 1999.

71. "A Noisy Monte Carlo Algorithm with Fermion Determinant",
Workshop on Chiral Gauge Theory,
Taiwan Univ., Sept. 13 – 18, 1999.

72. "Sea-quark from Lattice Perspective",
Workshop on Sea-quarks and Hadron Physics,
U. Conn, Nov. 11 – 13, 1999.

73. "Strangeness Content in the Nucleon",
Plenary talk at Strangeness 2000 Conference,
Berkeley, July 21 – 25, 2000.

74. "A Noisy Monte Carlo Algorithm with Fermion Determinant",
Physics in New Millennium Conference,
Hong Kong, July 31 – Aug. 4, 2000.

75. "Finite Density Algorithms'
Workshop on a New Computing Venue for Lattice Gauge Theory Calculations",
Brookhaven National Lab., Oct. 12-14, 2000.

76. "Ginsparg-Wilson Fermion and Higher Dimensional Anomaly",
Int. Conf.on Flavor Physics,
Zhang Jia Jie, China, May 31 - June 6, 2001.

77. "Chiral Properties of Pseudoscalar Mesons on the 20^4 Lattice with Overlap Fermions",
Workshop on Lattice QCD and Phenomenology,
INT, Univ. of Washington, Oct. 4-6, 2001

78. "Finite Density Algorithms"
Nankai Symposium on Mathematical Physics,
Tianjin, Oct. 7-10, 2001

79. "Hadron Structure and Spectroscopy with Overlap Fermions",
SciDac Meeting,
Jefferson Lab., Feb. 1, 2002

80. "Chiral Symmetry with Overlap Fermions",
Workshop on Hadron Physics with Lattice QCD,
Brookhaven National Lab., Mar. 18-22, 2002

81. "Hadron Spectroscopy with Overlap Fermions",
BLAST Workshop,
MIT, July 22-26, 2002

82. "Lattice Gauge Theory and Chiral Symmetry",
Workshop on Theoretical Physics,
Zhejiang University, Oct. 24-26, 2002

83. "Finite Density Algorithms",
Third International Workshop on Numerical Analysis and Lattice QCD,
e-Science Institute, Edinburgh, June 30 - July 4, 2003

84. "Chiral Logs in Quenched QCD",
Workshop on Lattice Hadron Physics,
Cairns, Australia, July 22 - 30, 2003

85. "Pentaqurks from Lattice QCD with Overlap Fermions",
Penta-quark 2003 Workshop,
Jefferson Lab., Nov. 6-8, 2003

86. "Baryon Spectroscopy and Chiral Symmetry",
KEK workshop on Nuclear chiral dynamics,
KEK, Tsukuba, Mar. 18 -20, 2004

87. "Baryon Spectroscopy and Chiral Symmetry",
From Nuclear to Nucleon Structure,
Helsinki Institute of Physics, Helsinki, Apr. 1-2, 2004

88. "Baryon Spectroscopy and Chiral Symmetry",
Harryfest,
McGill University, Montreal, May 15, 2004

89. "Finite Density Algorithm – Canonical Ensemble Approch",
Institure of Nuclear Theory Workshop on Finite Density,
INT, Washington, June 3, 2004

90. "Chiral Symmetry, Hadron Physics, and Lattice QCD",
4 lectures at Beijing School on Light Hadron Physics,
Beijing, Sept. 26-30, 2004

91. "Finite Density and Mesoniums", Conference on Modern Challenges of Lattice Field Theory,
KITP, Santa Barbara, Mar. 28 – Apr. 1, 2005

92. "Pentaquark Baryon and Tetraquark Mesoniums from Lattice QCD",
International Conference on QCD and Hadron Physics,
Peking Univ., Beijing, June 16 – 20, 2005

93. "Noisy Monte Carlo Method with Stochastically Estimated Determinants",
International Conference on the Frontiers of Nonlinear and Complex Systems (ICFNCS),
Hong Kong Baptist University , May 24–26, 2006

94. "Pentaquark Baryon and Tetraquark Mesoniums from Lattice QCD",
International Workshop on Tau-Charm Physics,
IHEP, Beijing, June 5 – 7, 2006

95. "The Strong Interaction of Quarks and Gluons on the Lattice",
Public lecture at National e-Science Center of UK,
Edinburgh, Sept. 6, 2006

96. "Pentaquark Baryon and Tetraquark Mesoniums from Lattice QCD",
Workshop on Lattice QCD, Chiral Perturbation Theory, and Hadron Phenomenology,
ECT, Trento, Oct. 2 – 6, 2006

97. "Pattern of Scalar Mesons",
Yukawa International Seminars Series on Frontiers of QCD,
Yukawa Institute, Kyoto, Nov. 20 – Dec. 8, 2006

98. "Simulation of Gauge Action from the Overlap Operator",
Workshop On: Domain Wall Fermions at Ten Years,
Riken, Brookhaven National Lab., Mar. 15-17, 2007

99. "Pattern of Light Scalar Mesons",
Workshop on Hadron Structure and Lattice QCD,
Bled, Slovenia, July 9-16, 2007

100. "Recent Finite Density Results from Lattice QCD",
2007 International Symposium on Cosmology and Particle Astrophysics,
Taipei, Nov. 13-15, 2007

101. "Pattern of Light Scalar Mesons',
Chiral07, Chiral Symmetry in Hadron and Nuclear Physics,
Osaka, November 13-16, 2007

102. "Pattern of Light Scalar Mesons',
Scadron70, Workshop on Scalar Mesons and Related Topics,
Lisbon, Feb. 11-16, 2008

103. "Quark and Glue Momenta and Angular Momenta from Lattice QCD",
Gluon Polarization in the Nucleon Workshop,
University of Illinois, June 16–17, 2008

104. "Finite Density Phase Transitions with the Canonical Ensemble",
Extreme QCD Workshop,
North Carolina State University, July 21–23, 2008

105. "Finite Density Phase Transitions with the Canonical Ensemble",
INT Workshop on QCD Critical Point,
INT, Univ. of Washington, Aug. 11–15, 2008

106. "Hadron Spectroscopy from Lattice QCD",
BES Workshop on Hadron Physics,
Xian, Oct. 16–18, 2008

107. "Parton Distribution Function and Disconnected Insertions on the Lattice",
DOE National Exascale-computing Workshop,
Washington, D.C. Jan. 26 – 28, 2009

108. "Roper Resonance and Excited Baryons from the Lattice",
NSTAR International 2009 Workshop on Baryons
IHEP, Beijing, Apr. 19 – 22, 2009

109. "Nucleon Structure and Hadron Spectrascopy",
USQCD All Hand's Meeting, Fermilab, May 14–15, 2009

110. "Moments and Strange Parton Distribution",
10th Conference on the Intersections of Particle and Nuclaea Physics (CIPANP 2009),
San Diego, May 25 – 31, 2009

111. "QCD Critical End Point from Lattice",
4th International Symposium on Symmetries of Subatomic Phyics (SSP 2009),
Taipei, June 2 – 5, 2009

112. "Preliminary Results from Overlap Fermion on 2+1 Flavor Domain-wall Fermion Configrations",
Lattice QCD Workshop at Kavli Institute of Theoretical Physics, China
Beijing, July 6 – 25, 2009

113. "f_D and f_{D_S} from Chiral Fermions",
International Symposium of Lattice Field Theory,
Peking University., Beijing, Jul. 26 – 31, 2009

114. "Nucleon Structure from Lattice QCD",
Internationl Conference on Physics Eduation and Frontier Physics,
Lanzhou, Aug. 3 – 7, 2009

115. "Precision Charm-lignt Mesons",
High Energy Physics Workshop (IHEP and PKU),
Sanya, Dec. 17 – 22, 2009

116. "Precision Charmed Meson Spectroscopy and Decay Constants from Chiral Fermions",
New Frontiers in QCD 2010 Workshop,
Yukawa Insitute of Theoretical Physics, Kyoto, Feb. 1 – 18, 2010

117. "Hadron Spectroscopy and Nucleon Form Factors",
All Hands Meeting of USQCD Collaboration,
BNL, Apr. 16 – 17, 2010

118. "$N_F = 3$ Critical Point from Canonical Ensembel",
International Symposium of Lattice Field Theory,
Villasimius, Sardina, June 14 – 19, 2010

119. "$N_F = 3$ Critical Point from Canonical Ensembel",
XQCD workshop,
Bad Honnef, June 21 – 23, 2010

120. "Hadron Physics from Lattice QCD",
2nd International Workshop on Hadron Physics,
Fragrant Hill, Beijing, July 28 – 31, 2010

121. "Lattice Calculation of New Mesons in the Charm Region and Nucleon Structure",
Weihai Summer Symposium on QCD and Hadron Physics,
Weihai, Shangdong, Aug. 4 – 10, 2010

122. "Hadron Spectroscopy and Nucleon Form Factors",
All Hands Meeting of USQCD Collaboration,
BNL, May 6 – 7, 2011

123. "Quark and Glue Momenta and Angular Momenta",
International Symposium of Lattice Field Theory,
Lake Tahoe, July 11 – 15, 2011

124. "Quark and Glue Momenta and Angular Momenta",
International Conference on Physics Edition and Frontier Physics,
Kaohsiung, Aug. 1 –5, 2011

125. "Path-integral Formulation of Deep Inelastic Scattering and Connected Sea Partons",
Taida Lattice Workshop,
Taiwan University, Aug. 9 – 10, 2011

126. "Quark and Glue Momenta and Angular Momenta",
Taida Lattice Workshop,
Taiwan University, Aug. 9 – 10, 2011

127. "Lattice Calculation of Critical Point from Canonical Ensemble",
Workshop on Fluctuations, Correlations, and RHIC Low Energy Runs,
BNL, Oct. 3 – 5, 2011

128. "Quark and Glue Momentum and Angular Momentum",
Workshop on Orbital Angular Momentum,
INT, U. Washington, Feb. 6– 10, 2012

129. "Where Does the Spin of the Proton Come from?",
Workshop on Electroweak Nuclear Physics,
Duke University, Mar. 8 – 10, 2012

130. "Lattice Calculation of Nucleon Structure and Hadron Spectroscopy",
USQCD All Hands Meeting,
Fermilab, May 4 –5, 2012

131. "Progress with Overlap Fermions",
Workshop on New Horizons for Lattice Computations with Chiral Fermions,
BNL, May 14 – 16, 2012

132. "Nucleon Structure from Lattice QCD",
Workshop on Nucleon Structure,
Kavli Institute of Theoretical Physics, Beijing, July 9 – 14, 2012

133. "Where Does the Spin of the Proton Come from?",
4th Hadron Workshop,
Kavli Institute of Theoretical Physics, Beijing, July 16 – 20, 2012

134. "Roper Resonance and 1^{-+} Meson",
Workshop on Excited States from Lattice QCD,
INT, U. Washington, Aug. 1 – 20, 2012

135. "Where Does the Spin of the Proton Come from?",
Diffraction 2012 Conference,
Lanzarote, Canary Islands, Sept. 10 – 15, 2012

136. "Finite Density with Canonical Ensemble and the Sign Problem",
International Workshop on the Sign Problem in QCD and Beyond,
Regensburg, Germany, Sept. 19 – 22, 2012

137. "Where Does the Spin of the Proton Come from?",
Division of Nuclear Physics Meeting, APS,
Newport Beach, Oct. 24 – 27, 2012

138. "Nucleon structure and overlap fermion",
QCD Workshop at Jiao-Tung University,
Shanghai, Mar. 22, 2013.

139. "Spin structure of the proton",
5th Asian Nuclear Physics Association meeting,
Taipei, Apr. 19, 2013.

140. "Roper resonance and 1^{-+} mesons", HEP Workshop on XYZ Particles,
Beijing, May 10, 2013.

141. "Path-integral formulation of parton distribution function",
Workshop on Lattice QCD and Hadron Physics,
Taiwan University, Taipei, June 5, 2013.

142. "Proton spin components and connected sea partons",
Workshop on the Flavor Dependence of Partons, ETC, Trento, July 2, 2013.

143. "The Roper puzzle",
2013 International Symposium of Lattice Field Theory,
Mainz, Germany, Aug. 1, 2013.

144. "Lattice results on nucleon spin structure",
9th Circum-Pan-Pacific Symposium on High Energy Spin Physics,
Jinan, China, Oct. 28 - 31, 2013.

145. "From Nuclear Structure to Nucleon Structure",
45 Years of Nuclear Theory at Stony Brook: a Tribute to Gerald E. Brown,
Stony Brook, Nov. 24 - 26, 2013.

146. "Challenges of Lattice Calculation of Parton Distribution Functions",
Maryland MCFP Workshop on LP3,
U. Maryland, Mar. 31, 2014.

147. "Quark and Glue Structure of the Nucleon",
USQCD All Hands Meeting,
JLab, Apr. 18-19, 2014.

148. "Quark and Glue Components of Proton Spin",
QCD Evolution Workshop,
Santa Fe, May 12 - 16, 2014.

149. "Pi N Sigma Term and Scalar Form Factor from Overlap Fermion",
2014 International Symposium of Lattice Field Theory,
Columbia University, NYC, June 23-28, 2014.

150. "Nuclear Structure with Quarks and Glue",
Computational Nuclear Physics Town Meeting,
July 14-15, 2014.

151. "Quark and Glue Components of Nucleon Spin - Lattice QCD Calculation",
ECT Workshop on Spin and Orbital Angular Momentum of Quarks and Gluons in the Nucleon,
Trento, Aug. 25- 29, 2014.

152. "Quark and Glue Spins of the Nucleon",
Plenary talk at the 21st International Symposium on Spin Physics,
Peking University, Oct. 20-24, 2014

153. "Quark and Glue Spins of the Nucleon",
81st Annual Meeting of the APS Southeastern Section,
Columbia, SC, Nov. 12-15, 2014.

154. "Quark and Glue Components of the Proton Spin",
6th Workshop of the APS Topical Group on Hadron Physics (GHP 2015)
Baltimore, Apr. 8 - 10, 2015.

155. "Parton Distribution Function from Hadronic Tensor on the Lattice",
2015 International Symposium of Lattice Field Theory,
Kobe, July 14 - 18, 2015.

156. "Quark and Glue Structure of the Nucleon",
International School of Nuclear Physics – 37th Course: Probing Hadron Structure with Lepton and Hadron Beams,
Erice, Sept. 16 - 24, 2015

157. "Quark and Glue Components of the Proton Spin",
INT Workshop on Intersections of BSM Phenomenology and QCD for New Physics Searches,
Sept. 21 - Oct. 4, 2015

158. "Meson and Nuclear Mass Decomposition from Lattice QCD",
Workshop on The Proton Mass: At the Heart of Most Visible Matter,
Temple University, Mar. 28 - 29, 2016

159. "Quark and Glue Structure of Nucleon",
QCD All Hands Meeting,
BNL, Apr. 29 - 30, 2016

160. "PDF from the Hadronic Tensor on the Lattice and Connected Sea Evolution",
QCD Evolution, NIKHEF, May 30 - June 3, 2016

161. "Quark and Glue Structure of Nucleon",
The 3rd Workshop on QCD Phase Structure,
Wuhan, June 6 - 9, 2016

162. "Quark Spin of Nucleon and Topology",
QCD Workshop Series in Paris,
June 13 - 16, 2016

163. "Nucleon Isovector Matrix Elements at Physical Point and Cost Comparison",
2016 International Symposium of Lattice Field Theory,
Southampton, July 25 - 30, 2016

164. "PDF from the Hadronic Tensor on the Lattice and Connected Sea Evolution",
Plenary talk at 7th International Conference on Physics Opportunities at an ElecTron-Ion-Collider (POETIC 7),
Temple University, Philadelphia, Nov. 14 - 18, 2016

165. "Proton Structure from Lattice QCD",
3D Parton Distributions: Path to LHC,
INFN, Frascati, Nov. 29 - Dec. 2, 2016

166. "Origin of Proton Mass and Spin",
Workshop on Ting-Wai Chiu's Lifetime Achievement,
Taiwan University, Taipei, Feb. 3, 2017

167. "PDF from the Hadronic Tensor on the Lattice and Connected Sea Evolution",
Parton-Lattice Workshop,
Oxford University, Mar. 22 - 24, 2017

168. "Origin of Nucleon Mass",
ECT Workshop on Mass Decomposition,
Trento, Apr. 3 - 7, 2017

169. "Variance Reduction and Cluster Decomposition",
2017 International Symposium of Lattice Field Theory,
Granada, June 19 - 24, 2017

170. "Hadronic Tensor from Lattice QCD",
T.D. Lee Institute Workshop on PDFs,
Peking University, July 14 - 16, 2017

171. "Origin of Proton Mass and Spin",
9th workshop on hadron physics in China and opportunities worldwide,
Nanjing University, July 24 - 28, 2017

172. "PDF from the Hadronic Tensor on the Lattice and Connected Sea Evolution",
9th workshop on hadron physics in China and opportunities worldwide,
Nanjing University, July 24 - 28, 2017

173. "Sea Partons from Euclidean Hadronic Tensor",
INT Workshop on The Flavor Structure of Nucleon Sea,
Oct. 2 - 13, 2017

174. "Comments on Current-Current Correlators",
Lattice PDF Workshop,
Maryland University, Apr. 6-8, 2018

175. "Accelerator Based Fusion Reactor",
12th West Lake International Symposium on Plasma Simulation,
Hangzhou, May 3-5, 2018

176. "Glue Spin from Lattice QCD",
13th Conference on the Interaction of Particle and Nuclear Physics (CIPANP),
Palm Springs, May 29 - June 3, 2018

177. "Roper State from Overlap Fermion",
2018 International Symposium of Lattice Field Theory,
Michigan State University, July 23 - 28, 2018

178. "Proton Mass and Spin Decomposition",
INT Workshop on Probing Nucleons and Nuclei in High Energy Collisions,
INT, University of Washington, Oct. 15 - 20, 2018

179. "Hadronic Tensor from Euclidean Path-Integral Formalism",
Workshop on EICC
Guangzhou, Jan. 8, 2019

180. "Partons from the Path-Integral Formalism of the Hadronic Tensor",
BNL workshop on Lattice Parton Distribution, Apr. 25, 2019

181. "Lattice QCD for Hadron Structure in the EIC Era"',
LPC Workshop on Physics Connection between LHC and EIC
Fermilab, Nov. 14, 2019

182. "Valence and Connected Sea Partons from Hadronic and LaMET",
Pheno Symposium, Pittsburg (online) , May 4, 2020

183. "Gluon Content from Lattice QCD",
Gluon content of proton and deuteron with the Spin Physics,
Dubna (online), Oct. 1, 2020

184. "Decomposition of Proton Mass and Rest Energy",
3rd Proton Mass Workshop; Origin and Perspective,
Argonne National Lab, Jan. 14-16, 2021

185. "A Rhyming Couplet for Prof. Akito Arima",
Akito Arima Memorial, Apr. 8, 2021

186. "What Makes Proton a Stable Particle and How Can the EIC Provides Insights",
2nd PSQEIC Workshop, APTCP, July 19-23, 2021

187. "PDF in PDFs",
38th International Symposium on Lattice Field Theory",
MIT, July 26-30, 2021

188. "Hadron Cosmological Constant and Origin of Proton Mass",
vConf2021- A Virtual Tribute to Quark Confinement and the Hadron Spectrum,
University of Stavanger, Aug. 2-6, 2021

189. "Neutrino-Nucleon Scattering and Roper State",
Tackling The Real-Time Challenge In Strongly Correlated Systems: Spectral Properties From Euclidean Path Integrals,
ECT, Sept. 13-17, 2021

190. "Accelerator Based Fusion Reactor",
Symposium on Fusion Engineering,
Dever, Dec. 12 - 16, 2021

191. "Decomposition of Proton Mass and Hadron Cosmological Constant",
BNL-HET &RBRC Joint Workshop "DWQ@25",
BNL, Dec. 13 -17, 2021

192. "Neutron Electric Dipole Moment with Overlap Fermion",
INT Workshop on Hadron Parity Violation,
INT, Seattle, Jan. 24-27, 2022

193. "Neutrino-Nucleon Scattering from Hadronic Tensor on the Lattice",
ITP Workshop on Neutrinos as a Portal to New Physics and Astrophysics,
Santa Barbara, Mar. 3, 2022

194. "Hadrons, Type II Superconductors, and Cosmological Constant",
QCD Evolution 2022,
University of Virginia, May 10, 2022

195. "Muon g-2 with Overlap Valence Fermion",
Schwingerfest,
UCLA, June 15, 2022

196. "Hadrons, Type II Superconductors, and Cosmological Constant",
INT workshop on Origin of the Visible Universe,
INT, Seattle, June 17, 2022

197. "Hadrons, Type II Superconductors, and Cosmological Constant",
CFNS Workshop, High Luminosity-EIC
UVA, June 23, 2022

198. "Hadrons, Type II Superconductors, and Cosmological Constant",
14th Quark Confinement and Hadron Spectroscopy,
Stavanger, Aug. 1, 2022

199. "Neutron Electric Dipole Moment with Overlap Fermion",
ECT* Workshop on Neutron Electric Dipole Moment,
Trento, Aug. 4, 2022

200. "Neutron Electric Dipole Moment with Overlap Fermion",
Lattice Conference 2022
Bonn, Aug. 8, 2022

201. "Hadrons, Type II Superconductors, and Cosmological Constant",
14th Conference on the Intersection of Particle and Nuclear Physics (CIPANP),
Orlando, Aug. 30, 2022

202. "Hadronic Tensor with Lattice QCD – Neutrino-Nucleon Scattering",
Parton Workshop,
INT, Seattle, Sept. 12, 2022

203. "Hadrons, Type II Superconductors, and Cosmological Constant",
Mainz workshop on Fermion Actions, Mar. 10, 2023

204. "Hadrons, Type II Superconductors, and Cosmological Constant",
Workshop on High Temperature QCD, Prague, Apr. Apr. 14, 2023

205. "πN and Other Nucleon Excited States in Nucleon Two- and Three-point Functions",
40th Lattice Conference, Fermilab, Aug. 2, 2023

206. "Hadrons, Type II Superconductors, and Cosmological Constant",
3rd Chinese Lattice Conference, Beijing, Oct. 7, 2023

207. "Hadrons, Type II Superconductors, and Cosmological Constant",
EIC workshop in India, Bangaluru, Feb. 7, 2024

208. "Energy and Pressure Analogies Linking Hadrons, Superconductors, and Cosmic Expansion",
4th EIC Asia Workshop, Fudan University, Shanghai, July 2, 2024

209. "π N states in Nucleon Two-, Three-, and Four-point Functions - importance of correct prior",
ff INT Workshop on Inverse Problems and Uncertainty Quantification in Nuclear Physics, INT, Seattle, July 10, 2024

210. "Trace Anomaly Form Factors of the Pion and Nucleon ",
Recent Advances in High Temperature QCD Workshop, Budapest, Oct. 29, 2024

Seminars and Talks Given at Various Institutions and Conferences

1. "Rotational Motion Galore",
   SUNY
   Stony Brook, Nov. 29, 1973.

2. "Giant Dipole Resonance with a New Skyrme Interaction",
   APS Meeting,
   Washington, D.C., April, 1974.

3. "Giant Multipole Resonances",
   C.E.N.
   Saclay, Nov. 21, 1974.

4. "One-and Two-Particle Properties Outside the Closed Shell",
   Saclay Symposium on Nuclear and Particle Physics,
   Gif-sur-Yvette, April 20, 1975.

5. "A Self-Consistent Description of Giant Resonances including Particle Continuum",
   Institut de Physique Nucleaire,
   Orsay, May 26, 1976.

6. "Some Applications of Skyrme Interactions",
   Stony Brook, Sept. 30, 1976.

7. "Some Applications of Skyrme Interactions",
   Michigan St. Univ. Oct. 4, 1976.

8. "Giant Multipole Resonances",
   UCLA, Jan. 19, 1977.

9. "Quark Potential Model Mass Formulas for Hadrons",
   Lawrence Berkeley Lab.,
   Aug. 24, 1977.

10. "Quark Model Mass Formulas for Hadrons",
    Institut de Physique Nucleaire,
    Orsay, Dec. 2, 1977.

11. "Meson Size Effects in the Upsilon Particles",
    APS Meeting,
    San Francisco, Jan. 23, 1978.

12. "Quark Potential Model Mass Formulas for Hadrons",
    UCLA,
    Jan 18, 1978.

13. "Quark Potential Model of Hadrons',"
    University of Pennsylvania,
    Feb. 28, 1978.

14. "Quark Model of Hadron Masses",
Stanford University, March 14, 1978.

15. "Giant Multipole Resonances",
LSU, March 16, 1978.

16. "Detection of Quark Bag State",
Colloquium at LSU, March 16, 1978.

17. "Giant Resonances",
Lawrence Berkeley Lab., March 20, 1978.

18. "Detection of Nuclear Bag States",
Institute of High Energy Physics,
Peking, Aug. 23, 1978.

19. "Nuclear Response Function and Giant Resonances",
Peking University,
Peking, Aug. 25, 1978.

20. "Quark Model of Hadron Masses",
Tokyo University, Sept. 6, 1978.

21. "Quark Models of Hadrons and Nuclei",
Northridge, Oct. 27, 1978.

22. "Quark Models of Hadrons and Nuclei",
Brooklyn College, Feb. 22, 1979.

23. "The Puzzling Mesons in the Charmonium Region",
UCLA, April 25, 1979.

24. "Quark Models of Hadrons and Nuclei",
Univ. of Washington,
Seattle, Dec. 19, 1979.

25. "Quark Models of Hadrons & Nuclei",
Institute of High Energy Physics,
Beijing, Jan. 15, 1980.

26. "Quark Models of Hadrons & Nuclei",
Nanjing Univ.,
Nanjing, Jan. 18, 1980.

27. "Quark Models of Hadrons & Nuclei",
Academia Sinica,
Shanghai, Jan. 20, 1980.

28. "Quark Models of Hadrons & Nuclei",
Northridge, Feb. 15, 1980.

29. "Quarks, Gluons, and Hadron Spectroscopy",
Colloquium at Univ. of Kentucky, March 17, 1980.

30. "Quark Models of Hadrons & Nuclei",
Argonne National Lab., March 19, 1980.

31. "Quark in Nuclei",
Nankai Univ.,
Tianjin, Jan. 3, 1981.

32. "Quark in Nuclei",
Institute of Modern Physics,
Lanchow, Jan. 12, 1981.

33. "Quark in Nuclei",
Lawrence Berkeley Lab., May 13, 1981.

34. "Multiquark Systems and NN Interaction at Short-Distances",
Indiana Univ., Nov. 30, 1981.

35. "(p,n) Reactions and Gamow-Teller Transitions",
Univ. of Kentucky, Nov. 18, 1981.

36. "Multi-quark Hadrons and Color van der Waals Force",
SUNY/Stony Brook, Dec. 11, 1981.

37. "Color van der Waals Force Revisited",
APS Meeting in Washington, D.C., April 26, 1982.

38. "Multi-quark Hadrons",
Lawrence Berkeley Lab., July 19, 1982.

39. "Multi-quark Hadrons",
TRIUMF, Aug. 3, 1982.

40. "Charge Exchange Reactions and Solar Neutrino Detection in 81Br",
Oak Ridge Nat. Lab., Nov. 5, 1982.

41. "Production of Vector Meson Pairs in High Energy Reactions",
Workshop on Quarks in Nuclei,
SUNY/Stony Brook, Dec. 17, 1982.

42. "Production of Vector Meson Pairs in High Energy Reactions",
Rutgers Univ., Dec. 20, 1982.

43. "Possible Measurement of Quark Gluon Plasma Temperature in Heavy Ion Reactions",
Theory Workshop,
Oak Ridge Nat. Lab., June 11, 1983.

44. "NN Deformation Potential in Bag Model and Color van der Waals Force",
Argonne Nat. Lab., July 6, 1983.

45. "Production of Vector Meson Pairs in Reactions, Hadronic Collisions, and J/Ψ Radiative Decays",
Institute of High Energy Physics,
Beijing, Aug. 2, 1983.

46. "Production of Vector Meson Pairs in Reactions, Hadronic Collisions, and J/Ψ Radiative Decays",
DESY,
Hamburg, Aug. 26, 1983.

47. "Production of Vector Meson Pairs in Reactions, Hadronic Collisions, and J/Ψ Radiative Decays",
Colloquium at Vanderbilt University, Dec. 2, 1983.

48. "Hartree-Fock and RPA",
Univ. of Kentucky, Feb. 9, 1984.

49. "Smoking Gun Signatures of the Multi-quark Hadrons",
Colloquium at University of Kentucky, April 20, 1984.

50. "NN Deformation Potential in Bag Model",
APS Meeting,
Washington, D.C., April 25, 1984.

51. "Production of $Q^2\bar{Q}^2$ Mesoniums in High Energy Reactions",
Colloquium,
Univ. of Kentucky, April 20, 1984.

52. "Time Dependence of Skyrmion",
Lawrence Berkeley Lab. Sept. 14, 1984.

53. "Time Dependence of Skyrmion",
Oak Ridge National Lab., Oct. 13, 1984.

54. "Time Dependence of Skyrme Soliton",
SUNY,
Stony Brook, Oct. 18, 1984.

55. "Production of $Q^2\bar{Q}^2$ Mesons in Reactions, Hadronic Collisions and J/ Radiative Decays",
SLAC, March 20, 1985.

56. "Production of $Q^2\bar{Q}^2$ Mesoniums",
UC Riverside, March 21, 1985.

57. "Production of $Q^2\bar{Q}^2$ Mesoniums",
UCLA, March 22, 1985.

58. "Smoking Gun Signatures of the Multi-quark Hadrons",
Colloquium at University of Kentucky, April 20, 1984.

59. "NN Deformation Potential in Bag Model",
APS Meeting,
Washington, D.C., April 25, 1984.

60. "Production of $Q^2\bar{Q}^2$ Mesoniums in High Energy Reactions",
Colloquium,
Univ. of Kentucky, April 20, 1984.

61. "Time Dependence of Skyrmion",
Lawrence Berkeley Lab. Sept. 14, 1984.

62. "Time Dependence of Skyrmion",
Oak Ridge National Lab., Oct. 13, 1984.

63. "Time Dependence of Skyrme Soliton",
SUNY,
Stony Brook, Oct. 18, 1984.

64. "Production of $Q^2\bar{Q}^2$ Mesons in Reactions, Hadronic Collisions and J/ Radiative Decays",
SLAC, March 20, 1985.

65. "Production of $Q^2\bar{Q}^2$ Mesoniums",
UC Riverside, March 21, 1985.

66. "Production of $Q^2\bar{Q}^2$ Mesoniums",
UCLA, March 22, 1985.

67. "Detection of Quark Gluon Plasma via Quadru-leptons",
Brookhaven National Lab., April 21, 1985.

68. "Monte Carlo Simulations",
Univ. of Kentucky, May 8, 1985.

69. "Glueball Transition Amplitudes in SU(2) Monte Carlo Calculations",
Lewes Workshop on Lattice Gauge Calculations, July 3, 1985.

70. "Glueball Transition Amplitudes in SU(2) Monte Carlo Calculations",
Institute of High Energy Physics, Beijing Aug. 12, 1985.

71. "Introduction to Skyrmion",
Institute of Atomic Energy,
Beijing, Aug. 13, 1985.

72. "Giant Multipole Resonances",
Univ. of Kentucky, Sept. 12, 1985.

73. "Recent Development in Skyrmion Phenomenology",
SUNY
Stony Brook, Sept. 23, 1985.

74. "Quarks, Gluons and Hadron Spectroscopy",
Colloquium at Univ. of Houston, Oct. 29, 1985.

75. "Introduction to Skyrmions",
Taiwan University, Dec. 26, 1985.

76. "Mesoniums and Glueballs",
Tsing Hua University, Dec. 30, 1985 .

77. "Glueball Phenomenology",
Academia Sinca,
Taiwan, Jan. 2, 1986.

78. "Mesoniums and Glueballs",
Institute for Theoretical Physics,
Santa Barbara, Jan. 10, 1986.

79. "Mesoniums and Glueballs",
CUNY/ Brooklyn, Feb. 26, 1986.

80. "Quarks, Gluons and Hadron Spectroscopy",
Colloquium at West Virginia University, Oct. 16, 1986.

81. "Mesoniums and Glueballs",
Colloquium at University of Arizona, Oct. 22, 1986.

82. "Mesoniums and Glueballs",
University of Maryland, Nov. 5, 1986.

83. "Mesoniums and Glueballs",
Brown University, Nov. 24, 1986.

84. "QCD and Hadron Spectroscopy",
Colloquium at Virginia Polytechnic Institute, April, 2, 1987.

85. "Introduction to Skyrmion",
Fudan University, June 17, 1987.

86. "Introduction to Skyrmion",
University of Science and Technology,
Hefei, June 19, 1987.

87. "Skyrmion Tree",
Institute of High Energy Physics,
Beijing, June 20, 1987.

88. "Skyrmion Tree",
University of Toronto, Sept. 23, 1987.

89. "Skyrme-Landau Parametrization of Effective Interactions",
Oak Ridge, Sept. 26, 1987.

90. "Identification of Glueballs",
SLAC, Nov. 11, 1987.

91. "Role of Nuclear Binding in EMC Effect",
Oak Ridge, Mar. 3, 1988.

92. "Role of Nuclear Binding in EMC Effect",
Stony Brook, Mar. 17, 1988.

93. "Skyrmion Tree",
Univ. of Kentucky Colloquium, April 1, 1988.

94. "Skyrmion Tree",
Univ. of Helsinki, April 19, 1988.

95. "Skyrmion Tree",
Niels Bohr Institute, April 22, 1988.

96. "Tensor Glueball",
Saclay, France, May 2, 1988.

97. "Tensor Glueball Identification",
Univ. of Kentucky, July 15, 1988.

98. "Lattice Gauge Calculations",
SUNY/Stony Brook, Mar. 23, 1989.

99. "Tensor Glueball Identification",
CERN, June 21, 1989.

100. "Lattice Gauge Calculations",
Univ. of Regensburg, June 26, 1989.

101. "Glueball Identification and Lattice Results",
Lattice Workshop at Univ. of Kentucky, July 27 - Aug. 4, 1989.

102. "Lattice Calculations of Hadron Structure",
Taiwan University, Jan. 10, 1990.

103. "Lattice Calculations of Hadron Structure",
Academia Sinica,
Taiwan, Jan. 11, 1990.

104. "Large Nc QCD, Skyrmion and Meson-Exchange Models",
Univ. of Kentucky, Feb. 26, 1990.

105. "Large Nc QCD, Skyrmion and Meson-Exchange Models",
SUNY/Stony Brook, March 22, 1990.

106. "Hadron Structure in Lattice QCD",
SUNY/Stony Brook, March 21, 1990.

107. "Hadron Structure in Lattice QCD",
Hollifield Theory Users Workshop,
Oak Ridge, March 24, 1990.

108. "Hadron Structure in Lattice Calculation",
Oak Ridge, Jun. 21, 1990.

109. "Hadron Structure and Interaction on the Lattice",
TRIUMF, Jul. 11, 1990.

110. "Hadron Structure and Interaction on the Lattice",
University of Washington, Jul. 16, 1990.

111. "Large Nc QCD, Skyrmion and Meson-exchange Models",
University of Connecticut, Oct. 22, 1990.

112. "Nucleon Axial-Vector Form Factor on the Lattice",
SUNY/Stony Brook, Oct. 24, 1990.

113. "Status of Glueballs",
ITP-Stony Brook, Nov. 15, 1990.

114. "Status of Glueballs",
Frei University,
Berlin, Apr. 12, 1991.

115. "Lattice Calculation of Hadron Structure",
University of T?bingen, Apr. 18, 1991.

116. "Proton Spin Crisis",
University of Heidelberg, May 6, 1991.

117. "Axial Charge of Nucleon",
Saclay, May 15, 1991.

118. "Proton Spin Crisis",
HLRZ, KFA - Jülich, May 22, 1991.

119. "Proton Spin Anticrisis",
IKP, KFA - Jülich, May 28, 1991.

120. "Proton Spin Anticrisis",
NIKHEF, Jun. 6, 1991.

121. "Lattice Calculation of Hadron Structure",
Workshop at Free University,
Amsterdam, Jun. 7, 1991.

122. "Proton Spin Anticrisis",
CERN, July 22, 1991.

123. "Proton Spin Anticrisis",
Institute of Nuclear Theory,
Seattle, Oct. 7, 1991.

124. "Proton Spin Anticrisis",
UCLA, Oct. 31, 1991.

125. "Quarks, Gluons, and QCD",
Colloquium at Univ. of Louisville, Nov. 6, 1991.

126. "Nucleon Structure from Lattice QCD",
Inst. of High Energy Physics, Jun. 11, 1992.

127. "Nucleon Structure from Lattice QCD",
Univ. of Science and Technology, Jun. 17, 1992.

128. "Nucleon Structure from Lattice QCD",
Bochum, Sept. 10, 1992.

129. "Ab Initio Calculation of QCD",
Center for Computational Sciences, Nov. 4, 1992.

130. "Violation of Gottfried Sum Rule",
Los Alamos, Dec. 21, 1994.

131. "Origin of and Difference",
Univ. of Cincinnati, Jan. 26, 1993.

132. "Origin of and Difference",
SUNY/Stony Brook, Mar. 16, 1993.

133. "Nucleon Structure from Lattice QCD",
Brookhaven Lab., Mar. 19, 1993.

134. "Nucleon Structure from Lattice QCD",
Columbia Univ., Mar. 22, 1993.

135. "Nucleon Structure from Lattice QCD",
SLAC, July 9, 1993.

136. "Origin of and Difference",
Oak Ridge, Feb. 4, 1994.

137. "Quarks, Gluons, and QCD",
Comitia,
Univ. of Kentucky, Feb. 15, 1994.

138. "Quarks, Gluons, and QCD",
Chung Hsing Univ., June 10, 1994.

139. "Quark Model from QCD",
Tsing Hua Univ., June 16, 1994.

140. "Quark Model from QCD",
Academia Sinica, June 14, 1994.

141. "Quark Model from QCD",
Taiwan University, June 22, 1994.

142. "Everything You Want to Know About Goldberger-Treiman Relation, etc.",
Univ. of Kentucky, Sept. 12, 1994.

143. "Quarks, Gluons, and Quantum Chromodynamics",
Triangle Universities, Feb. 14, 1995.

144. "Flavor-Singlet g_A and $\pi N\sigma$ Term from Lattice QCD",
Institute of Nuclear Theory,
Seattle, Mar. 14, 1995.

145. "Lattice Calculation of Nucleon Structure",
Univ. Of Adelaide, Jul. 19, 1995.

146. "Nucleon Structure from Lattice QCD",
Colloquium at Univ. Of Adelaide, Jul. 21, 1995.

147. "Nucleon Structure from Lattice QCD",
Caltech, Jan. 24, 1996.

148. "Nucleon Structure from Lattice QCD",
Univ. of Kentucky, Feb. 5, 1996.

149. "Nucleon Structure from Lattice QCD",
Indiana University, Mar. 8, 1996.

150. "Nucleon Structure from Lattice QCD",
Texas A&M, Mar. 29, 1996.

151. "Quark and Parton Models from Lattice QCD",
Univ. of Kentucky, Aug. 26, 1996.

152. "Status of Glueballs",
Univ. of Kentucky, Sept. 16, 1996.

153. "Quarks, Gluons, and QCD",
Colloquium at Kent State Univ., Oct. 9, 1996.

154. "Status of Glueballs",
Academia Sinica,
Taipei, Nov. 18, 1996

155. "Quark and Parton Models from Lattice QCD",
Taiwan Univ., Nov. 19, 1996

156. "Quark and Parton Models from Lattice QCD",
SLAC, Nov. 20, 1996.

157. "Valence QCD and Quark Model",
Colloquium at University of Virginia, Mar. 8, 1997.

158. "Parton Model from Lattice QCD",
University of Virginia, Mar. 9, 1997.

159. "Valence QCD and Quark Model",
University of Maryland, Sept. 26, 1997.

160. "Valence QCD and Quark Model",
Washington University, Nov. 13, 1997.

161. "Lattice QCD and Hadron Structure",
Colloquium at Argonne National Lab., Dec. 12, 1997.

162. "Parton Model and Lattice QCD",
Caltech, Jan. 7, 1998.

163. "Valence QCD",
University of Cincinnati, Feb. 24, 1998.

164. "Large N_c QCD - An Introduction",
University of Kentucky, Sept. 21, 1998.

165. "Recent Lattice Results",
Midwest Theorists Workshop,
Argonne, Sept. 25, 1998.

166. "Parton Degrees of Freedom from Path-Integral Formalism", SLAC, Dec. 14, 1998.

167. "Parton Degrees of Freedom from Path-Integral Formalism", Caltech, Jan. 8, 1999.

168. "Introduction to Lattice QCD, I", Center for Theoretical Sciences, Taiwan, June 14, 1999.

169. "Introduction to Lattice QCD, II", Center for Theoretical Sciences, Taiwan, June 21, 1999.

170. "Hadron Masses and Scaling from Overlap Fermions", Lattice 1999, Pisa, Italy, June 28 – July 4, 1999.

171. "Parton Degrees of Freedom from Path-Integral Formalism", Taiwan University, Sept. 28, 1999.

172. "Parton Degrees of Freedom from Path-Integral Formalism", Michigan State University, Nov. 16, 1999.

173. "Valence QCD and Quark Model", Lawrence Berkeley Lab., Dec. 20, 1999.

174. "Neutron Suppression in Polarized Fusion Reaction", Caltech, Jan. 7, 2000.

175. "Parton Degrees of Freedom from Path-Integral Formalism", Jefferson Lab., Feb. 9, 2000.

176. "A Finite Density Algorithm with Noisy Monte Carlo', Workshop on Finite Density, Institute of Nuclear Theory, Seattle, Mar. 13 – 18, 2000.

177. "Overlap Fermions", Lattice Hadron Physics Collaboration Meeting, Jefferson Lab. June 5 – 9, 2000.

178. "Parton Degrees of Freedom from Path-Integral Formalism", Tokyo Univ., Aug. 1, 2000.

179. "Parton Degrees of Freedom from Path-Integral Formalism", Institute of High Energy Physics, Beijing, Aug. 7, 2000.

180. "Neutron Suppression in Polarized Fusion Reaction", Institute of Atomic Energy, Beijing, Aug. 8, 2000.

181. "Study of Overlap Fermions", Lattice 2000, Bangalore, India, Aug. 17 – 22, 2000.

182. "Overlap Fermions", Caltech, Jan. 1, 2001.

183. "Valence QCD and Quark Model", Univ. of Illinois, Jan. 31, 2001.

184. "Finite Density Algorithms", CCS, Univ. of Kentucky, Mar. 28, 2001.

185. "Valence QCD and Quark Model", Univ. of Pittsburgh, Apr. 5, 2001.

186. "Overlap Fermions", Fudan University, May 29, 2001.

187. "Overlap Fermions", Taiwan Univ. June 7, 2001.

188. "Kentucky Noisy Monte Carlo Algorithm"
Lattice 2001, Berlin, Aug. 19-25, 2001

189. "Lattice Calculation with Overlap Fermions", Institute of High Energy physics, Beijing, Oct. 10, 2001.

190. "Local Chirality and Instanton Liquid Model", Caltech, Jan. 8, 2002.

191. "Chiral Symmetry and Overlap Fermion", Univ. of Maryland, May 10, 2002.

192. "A Unified Approach to Heavy and Light Quarks with Overlap Fermions", Lattice 2002, MIT, June 24-29, 2002.

193. "Chiral Behaviors with Overlap Fermion", OSU, Oct. 2, 2002.

194. "Chiral Symmetry and Overlap Fermion", Lawrence Berkeley Lab., Oct. 17, 2002.

195. "Chiral Behaviors with Overlap Fermion", Lawrence Berkeley Lab.,Oct. 18, 2002.

196. "Hadron Spectroscopy", IHEP, Beijing, Oct. 21, 2002.

197. "Chiral Symmetry and Overlap Fermion" Peking Univ., Oct. 22, 2002.

198. "Chiral Symmetry and Overlap Fermion", IHEP, Beijing, Oct. 23, 2002.

199. "Chiral Symmetry and Overlap Fermion", Institute of Theoretical Physics, Oct. 28, 2002.

200. "Quenched Chiral Logs in Lattice QCD", Kellog, Caltech, Jan. 8, 2003.

201. "Chiral Logs in Quenched QCD", Lattice 2003, Tsukuba, July 15-19, 2003.

202. "Pentaquark Search on the Lattice", Univ. of Kentucky, Dec. 11, 2003.

203. "Pentaquark States with Overlap Fermions", Caltech, Jan. 8, 2004.

204. "Pentaquark States on the Lattice", Michigan State Univ., Jan. 27, 2004.

205. "Pentaquark States on the Lattice", University of Illinois, Mar. 3, 2004.

206. "Baryon Spectroscopy and Chiral Symmetry", JLab Users Meeting, June 18, 2004.

207. "Finite Density Algorithm with Canonical Ensemble Approach", Lattice 2004, Fermilab, June 26, 2004.

208. "Chiral Symmetry and Topology from Lattice QCD", SLAC, Oct. 6, 2004.

209. "Finite Density and Mesoniums", Caltech, Jan. 6, 2005

210. "Finite Density with the Canonical Approach", SciDac meeting, Boston Univ., Jan. 10, 2005

211. "Finite Density and Mesonisums", Univ. of Kentucky, Mar. 11, 2005

212. "QCD at Finite Density and Mesonisums", UCLA, Mar. 15, 2005

213. "Lattice QCD and Multiquark Hadrons", colloquium at TUNL and Duke Univ., May 5, 2005

214. "Lattice QCD and Multiquark Hadrons", Institute of Atomic Energy, June 14, 2005

215. "Pentaquark Baryon and Tetraquark Mesoniums from Lattice QCD", Institute of Theoretical Physics, Beijing, June 21, 2005

216. "Pentaquark Baryon and Tetraquark Mesoniums from Lattice QCD", Institute of High Energy Physics, Beijing, June 22, 2005

217. "Non-exotic 1^{-+} Meson", Lattice '05, Dublin, July 25 – 30, 2005

218. "Update on Finite Density and Scalar Mesons", Caltech, Jan. 18, 2006

219. "Lattice Quantum Chromodynamics", colloquium at USC, Jan. 23, 2006

220. "Introduction to Lattice QCD I", Taiwan University, May 22, 2006

221. "Introduction to Lattice QCD II", Taiwan University, May 23, 2006

222. "Lattice Quantum Chromodynamics", National Central Univ., May 30, 2006

223. "Hadron Spectroscopy from Lattice QCD", Taiwan University, May 29, 2006

224. "Parton Degree of Freedom from Path-Integral Formalism", Academia Sinica, Taipei, June 21, 2006

225. "Simulation of Gauge Action from the Overlap Operator", Lattice 06, Tucson, July 24 - 28, 2006

226. "Simulation of Gauge Action from the Overlap Operator', University of Edinburgh, Aug. 23, 2006

227. "Pentaquark Baryon and Tetraquark Mesoniums from Lattice QCD", Glasgow University, Aug. 30, 2006

228. "Simulation of Gauge Action from the Overlap Operator", DESY-Zeuthen, Sept. 26, 2006

229. "Pentaquark Baryon and Tetraquark Mesoniums from Lattice QCD", University of Graz, Graz, Oct. 23, 2006

230. "Pentaquark Baryon and Tetraquark Mesoniums from Lattice QCD", Univ. Regensburg, Oct. 24, 2006

231. "$\sigma(600)$ and Pattern of Scalar Mesons", CERN, Nov. 2, 2006

232. "Simulation of Gauge Action from the Overlap Operator", Univ. of Tsukuba, Nov. 13, 2006

233. "Pentaquark Baryon and Tetraquark Mesoniums from Lattice QCD", University of Tokyo, Nov. 17, 2006

234. "Pattern of Scalar Mesons", Caltech, Jan. 5, 2007

235. "Finite Density with Canonical Approach", SUNY/Stony Brook, Mar. 14, 2007

236. "Neutron Electric Dipole Moment at Fixed Topology", Lattice 07, Regensburg, July 30-Aug.4, 2007

237. "Strong Interaction of Quarks and Gluons on the Lattice", Colloquium, UK, Sept. 7, 2007

238. "Pattern of Light Scalar Mesons", UK, Oct. 8, 2007

239. "Glue and Sea Quark Content in Nucleon", Caltech, Jan. 18, 2008

240. "Quarks and Gluons on the Lattice", Colloquium, Tata Institute, Mimbai, Jan. 30, 2008

241. "Lattice QCD", graduate seminar, UK, Mar. 4, 2008

242. "Nucleon Form Factors and Hadron Spectroscopy", USQCD All Hand's Meeting, JLab, Apr. 4–5, 2008

243. "Roper Resonance from 2+1 Flavor Clover Fermions", Lattice 08, Williamsburg, July 14–19, 2008

244. "Pattern of Light Scalar Mesons and Quark/Glue Content in the Nucleon", JLab, Mar. 24, 2008.

245. "Strong Interaction of Quarks and Gluons on the Lattice", Colloquium, School on High Energy Physics, June 27, 2008.

246. "Finite Density Phase Transition and Strangeness Magnetic Moment", Caltech, Jan. 9, 2009

247. "Quarks, Gluons, and Quantum Chromodynamics", UK, Feb. 17, 2009

248. "Finite Density Phase Trasition from Lattice QCD", STAR Collaboration, Brookhaven, Mar. 26, 2009

249. "Finite Density Phase Trasition from Lattice QCD", Peking University of High Energy Physics Center, June 29, 2009

250. "Spectrum of D_S meson and Decay Constants f_{D_S} and f_D from 2+1 Flavor Chiral Fermions', Univ. of Kentucky, Sept. 21, 2009

251. "Finite Density from the Canonical Ensemble", Taiwan University, Dec. 14, 2009

252. "Progress on Finite Density Phase Transition and Precision Lattice QCD Calculation", Caltech, Jan. 6, 2010

253. "Finite Density QCD Phase Transition from Lattice Calculation", Tokyo University, Feb. 1, 2010

254. "Quarks, Gluons, and QCD", Graduate Seminar, UK, Apr. 23, 2010

255. "Finite Density QCD Phase Transition from Lattice Calculation", University of Wisconsin, Apr. 29, 2010

256. "Nucleon Structure from Lattice QCD", UK, Sept. 27, 2010

257. "Nucleon Structure from Lattice QCD", Los Alamos, Nov. 29, 2010

258. "Finite Density QCD Phase Transition from Lattice Calculation", UCLA, Jan. 6, 2011

259. "Path-integral Formulation of Deep Inelastic Scattering and Connected Sea Partons", Michigan State University, Mar. 15, 2012

260. "Nucleon Structure and Proton Spin", UK, Mar. 31, 2011

261. "Finite Density QCD Phase Transition from Lattice Calculation", Univ. of Minnesota, Apr. 27, 2011

262. "Path-integral Formulation of Deep Inelastic Scattering and Connected Sea Partons", UK, Sept. 19, 2011

263. "Quark and Glue Momentum and Angular Momentum", UCLA, Jan. 5, 2012

264. "Nucleon Structure from Lattice QCD", University of Illinois, Apr. 30, 2012

265. "Where Does the Spin of the Proton Come from?", University of Kentucky, Sept. 6, 2012

266. "Where Does the Spin of the Proton Come from?', LBL, Jan. 18, 2013

267. "Where Does the Spin of the Proton Come from?", Academic Sinica, Apr. 12, 2013.

268. "Where Does the Spin of the Proton Come from?", Tsinghua University, Apr. 29, 2013.

269. "Connected Sea Partons", Taiwan University, May 15, 2013.

270. "Parton Distribution from Path-Integral Formalism", Nuclear Theory, Lawrence Berkeley Lab, Jan. 17, 2014

271. "Quark and Glue Components of Proton Spin and Meson Masses", MIT, Feb. 21, 2014.

272. "Quark and Glue Components of Proton Spin and Meson Masses", Triangle University seminar, NCSU, Apr. 1, 2014.

273. "Interface of Expt, Phenomenology, and Lattice QCD – Nucleon Structure of Quarks and Glue", EIC-JLab Workshop, Aug. 13-14, 2014

274. "Quark and Glue Spins in the Nucleon", University of Kentucky, Oct. 6, 2014.

275. "Quark and Glue Components of Proton Spin and Hadron Mass", LBL, Jan. 7, 2015

276. "Quark and Glue Components of the Proton Spin", SLAC, May 11, 2016

277. "Accelerator Based Fusion Reactor", LBL, May 17, 2016

278. "Where do the Proton Mass and Spin Come from?", Colloquium at University of Kentucky, Jan. 20, 2017

279. "Accelerator Based Fusion Reactor", Taiwan University, Mar. 6, 2017

280. "PDF from the Hadronic Tensor on the Lattice and Connected Sea Evolution", Jefferson Lab, Apr. 26, 2017

281. "Accelerator Based Fusion Reactor", Institute of Plasma Physics, Hefei, July 24, 2017

282. "Accelerator Based Fusion Reactor", University of Science and Technology, Hefei, July 26, 2017

283. "Accelerator Based Fusion Reactor" Nanjing University, July 29, 2017

284. "Accelerator Based Fusion Reactor" Zhejiang University, July 29, 2017

285. "Accelerator Based Fusion Reactor" Academia Sinica, Aug. 14, 2017

286. "Quark and Glue Spin – a tale of crises and puzzles", LBL, Jan. 10, 2018

287. "Quark and Glue Spin – a tale of crises and puzzles", University of Maryland, Feb. 7, 2018

288. "Quark and Glue Spins of the Proton", Institute of Modern Physics, Lanzhou, May 9, 2018

289. "Proton Mass and Spin Decomposition", University of Regensburg, Sept. 27, 2018

290. 'Proton Mass and Spin Decomposition", University of Mainz, Oct. 10, 2018

291. "Quark and Glue Momentum and Angular Momentum Decomposition", χQCD collaboration meeting, UKY, Dec. 14, 2018

292. "Proton Mass and Spin Decomposition", BNL, Jan. 3, 2019

293. "Proton Mass and Spin Decomposition", UIUC, Mar. 25, 2019

294. "PDF for Hadronic Tensor", χQCD collaboration meeting, UKY, Dec. 13, 2019

295. "Proton Mass and Spin Decomposition and Neutrino-Nucleon Scattering from Lattice", Michigan State University, Feb. 11, 2020

296. "Quarks, Gluons, and Quantum Chromodynamics", Graduate Seminar, UKY, Nov. 6, 2020

297. "Proton Mass Decomposition and Hadron Cosmological Constant", χQCD Collaboration, Jan 10, 2021

298. "Hadron Cosmological Constant and Parton Degrees of Freedom",
Michigan State University, Apr. 6, 2021

299. "Hadron Cosmological Constant and Parton Degrees of Freedom",
University of Kentucky, May 3, 2021

300. "Accelerator Based Fusion Reactor",
University of Rochester, Nov. 16, 2021

301. "Hadrons, Cosmological Constant, and Type II Superconductors",
University of Kentucky, Mar. 30, 2022

302. "Hadrons, Cosmological Constant, and Type II Superconductors",
SLAC, Oct. 5, 2022

303. "Hadrons, Cosmological Constant, and Type II Superconductors",
LBNL, Oct. 12, 2022

304. "Hadrons, Type II Superconductors, and Cosmological Constant",
Aix-Marseille University, Mar. 14, 2022

305. "Hadrons, Type II Superconductors, and Cosmological Constant",
Regensburg University, Mar. 16, 2022

306. "Hadrons, Type II Superconductors, and Cosmological Constant",
Taiwan University, Oct. 3, 2023

307. "Hadrons, Type II Superconductors, and Cosmological Constant",
Institute of Theoretical Physics, AS, Oct. 10, 2023

308. "Hadrons, Type II Superconductors, and Cosmological Constant",
Institute of High Energy Physics, Oct. 9, 2023

309. "Hadrons, Type II Superconductors, and Cosmological Constant",
South China Normal University, Oct. 17, 2023

310. " Hadrons, Type II Superconductors, and Cosmological Constant",
Institute of Physics, Academia Sinica, Oct. 26, 2023

311. "Hadrons, Type II Superconductors, and Cosmological Constant",
Colloquium at Tata Institute of Fundamental Research, Feb. 15, 2024

312. "Hadrons, Type II Superconductors, and Cosmological Constant",
Colloquium at University of Kentucky, Dec. 13, 2024