

## PRESENTATIONS

### INVITED TALKS / COLLOQUIA / SEMINARS

1. Workshop on Numerical Simulations of the Fermi-Hubbard Model, July 18-21, 2021, Fuzhou, China.  
*Superfluid phase diagrams in the attractive Fermi Hubbard model*
2. 16<sup>th</sup> National Conference on Magnetism Theories (第十六届全国磁学理论会议), Yangzhou, China, May 22-25, 2021.  
*Superfluid behavior of Fermi gases under arbitrary Zeeman splitting in mixed dimensions*
3. 17<sup>th</sup> National Conference on Low Temperature Physics (第十七届全国低温物理学术会), Jinhua, China, June 3-6, 2021.  
*Suppressing pairing fluctuations using population imbalance in atomic Fermi gases in a 2D optical lattice*
4. International Conference on Emerging Quantum Technology, Hefei, China, September 15-20, 2019.  
*Destruction and enhancement of superfluidity: Unusual effects of population imbalance in a continuum-lattice mixed system of atomic Fermi gases*
5. 5<sup>th</sup> Conference on Condensed Matter Physics, Liyang, Jiangsu, China, June 27-30, 2019.  
*Enhancement and destruction of superfluidity: Unusual effects of population imbalance of atomic Fermi gases on a 1D optical lattice*
6. Kavli ITS Workshop on "Emergent phenomena in ultracold atoms: merging topology, interaction, and dynamics", Beijing, June 2-23, 2019.  
*Unusual enhancement of superfluidity by spin imbalance in Fermi gases in 1D optical lattices*
7. 2018 Hangzhou Workshop on Quantum Matter, Hangzhou, October 8-10, 2018.  
*Ultra high temperature superfluidity in atomic Fermi gases using mixed dimensionality.*
8. 12th International Conference on Materials and Mechanism of Superconductivity and High Temperature Superconductors (M2S-2018), Beijing, August 19-24, 2018.  
*Two fluid model for diamagnetic susceptibility and Nernst effect in high  $T_c$  superconductors.*
9. 12<sup>th</sup> International Conference on Ceramic Materials Components for Energy and Environmental Applications (CMCEE-2018), Singapore, July 22-27, 2018.  
*Two fluid model for diamagnetic susceptibility and Nernst effect in high  $T_c$  superconductors.*
10. 16<sup>th</sup> National Conference on Low Temperature Physics (第十六届全国低温物理学术会), Xinxiang, Henan, Apr. 17-20, 2018.  
*Achieving the highest superfluid transition  $T_c$  in atomic Fermi gases using mixed dimensionality.*
11. Condensed matter theory seminar, Department of Physics, University of Illinois, Urbana, IL, USA, Apr 27, 2017.  
*Instability of Fulde-Ferrell-Larkin-Ovchinnikov states in three and two dimensions.*
12. 15<sup>th</sup> National Conference on Low Temperature Physics (第十五届全国低温物理学术会), Shaoguan, Guangdong, Nov. 16-18, 2016.  
*BCS-BEC crossover in atomic Fermi gases in mixed dimensions.*
13. Workshop of Quantum Connections at Hangzhou 2016, Wilceck Quantum Center, Hangzhou, Nov. 6-7, 2016.  
*Instability of Fulde-Ferrell-Larkin-Ovchinnikov states in ultracold atomic Fermi gases.*
14. 2016 Hangzhou Symposium on Degenerate Fermi Gases, Hangzhou, June 27-30, 2016.  
*Superfluidity, pairing, and other exotic quantum states in ultracold atomic Fermi gases.*
15. Physics Department Colloquium/Seminar, South University of Science and Technology of China (南方科学技术大学), Shenzhen, May 13, 2016.

- Superfluidity, pairing, pseudogap and other exotic quantum states in ultracold atomic Fermi gases.*
16. The 6th Workshop on Quantum Many-Body Computation (第六届量子多体计算会议), Beijing, April 21-24, 2016.  
*Instability of the Fulde-Ferrell-Larkin-Ovchinnikov states in ultracold atomic Fermi gases in 3D continuum*
  17. 1<sup>st</sup> WHU Summer Theory Institute: Frontiers in Condensed Matter and Cold Atoms, Wuhan, June 15 – 26, 2015.  
*Searching for the Fulde-Ferrell-Larkin-Ovchinnikov states in ultracold atomic Fermi gases in 3D continuum*
  18. 14<sup>th</sup> National Conference on Low Temperature Physics (第十四届全国低温物理学术研讨会), Hangzhou, Mar 31-Apr 4, 2015.  
*Death of the Fulde-Ferrell-Larkin-Ovchinnikov states in ultracold atomic Fermi gases in 3D continuum*
  19. 5<sup>th</sup> School on Frontiers in Theoretical Physics – Frontiers of Cold Atom Physics (第五期理论物理前沿讲习班 – 冷原子物理前沿), Guangzhou, Jan. 12-23, 2015.  
*Pairing, superfluidity, and pseudogap phenomena in ultracold atomic Fermi gases.*
  20. Hong Kong Forum of Physics 2013: Novel Quantum Systems, Hong Kong, Dec 12-14, 2013.  
*Pinning down the location of the Feshbach resonance in atomic Fermi gases : Density and particle-hole fluctuation effects*
  21. Center for Atom Optics and Ultrafast Spectroscopy, Swinburne University of Technology, Melbourne, Victoria, Australia, Aug. 23, 2013.  
*Exotic Pairing in Strongly Interacting Ultracold Fermi Gases at High Densities.*
  22. 7th National workshop for young scholars on cold atom physics and quantum information (第七届全国冷原子物理和量子信息青年学者学术讨论会), Tunxi, Anhui, China, July 27-31, 2013.  
*Exotic pairing in ultracold Fermi gases at high densities.*
  23. 2013 Hangzhou Workshop on Quantum Matter, Hangzhou, China, April 22-25, 2013.  
*Exotic pairing of ultracold Fermi gases with mass imbalance or long range interactions*
  24. The 7th CAS Cross-Trait and International Conference on Quantum Manipulation, Beijing, China, Jan 28-30, 2013.  
*Exotic pairing of ultracold Fermi gases with mass imbalance or long range interactions*
  25. 3rd International Conference on Quantum Foundation and Technology: Frontier and Future, Dunhuang, China, Aug 26-28, 2012.  
*Pairing and superfluidity in atomic Fermi gases in the presence of mass and population imbalance.*
  26. 4th International Workshop on Quantum Condensation, Pohang, Korea, Aug 13-24, 2012.  
*Zero density limit extrapolation of the superfluid transition temperature in a unitary atomic Fermi gas on a lattice*
  27. Lecture Series on Theories and Technology of Superconductivity, No. 25, National Key Lab for Superconductivity, Chinese Academy of Sciences (超导国家重点实验室 超导基础理论和实验技术系列讲座之二十五), Beijing, China, April 20, 2012.  
*BCS-BEC crossover theory and its applications in superconductivity and superfluidity*
  28. Quantum Control Workshop on Ultracold Atoms (超冷原子量子调控研讨会), Shanghai, China, Apr 6-8, 2012.  
*Phase diagrams of Fermi gases in a trap with mass and population imbalances at finite temperature.*
  29. 11th National conference on superconductivity (第十一届全国超导会议), Hangzhou, China, Oct. 31-Nov. 4, 2011.  
*Pairing fluctuation theory for the pseudogap phenomena in high  $T_c$  superconductivity .*
  30. 5<sup>th</sup> National workshop for young scholars on cold atom physics and quantum information (第五届全国冷原子物理和量子信息青年学者学术讨论会), Lanzhou, China, Aug 1-6, 2011.  
*Strongly interacting atomic Fermi gases: Superfluidity, pairing, and pseudogap phenomena.*

31. 10th international conference on condensed matter theory and computational materials (第十届国际凝聚态理论与计算材料学会议), Jinhua, China, July 13-17, 2011.  
*Effects of particle-hole channel on BCS-BEC crossover in cold Fermi gases.*
32. 3rd International Workshop on Quantum Condensation, QC11, Hong Kong, July 4-15, 2011.  
*Effects of particle-hole channel on BCS-BEC crossover in cold Fermi gases.*
33. Seventh workshop on Quantum Control (第七届量子调控研讨会), Beijing, Feb 20, 2011.  
*Superfluidity and pairing in ultracold atomic Fermi gases.*
34. Zhejiang Normal University, Department of Physics, Jinhua, Zhejiang, China, Dec 15, 2010.  
*Superfluidity and pairing in ultracold atomic Fermi gases.*
35. University of Chicago Beijing Center conference on "Novel Quantum States in Condensed Matter", Beijing, Sep 1-3, 2010.  
*Superfluidity and pairing in ultracold atomic Fermi gases.*
36. 16<sup>th</sup> National Conference on Condensed Matter Theory and Statistical Physics (第十六届全国凝聚态理论和统计物理学会议), Changchun, China, Aug. 20-23, 2010.  
*Superfluidity and pairing in ultracold atomic Fermi gases.*
37. 2nd International Workshop on Quantum Condensation, Hsinchu, Taiwan, Aug 9-20, 2010.  
*BCS-BEC crossover in cold atomic Fermi gases .* (Tutorial lecture)
38. Workshop on "Condensed Matter Physics of Cold Atoms", Kavli Institute for Theoretical Physics China, Beijing, Sep. 21-Nov. 06, 2009.  
*Radio frequency spectroscopy in atomic Fermi gases.* (Invited talk)  
*BCS-BEC crossover.* (Tutorial Lecture)
39. 2009 Hangzhou Workshop on Quantum Matter, Hangzhou, China, Oct. 12-15.  
*Radio frequency spectroscopy in atomic Fermi gases.*
40. Chinese Physical Society Fall Meeting (中国物理学会秋季会议), Shanghai, September 17-20, 2009  
*Pairing fluctuation theory for the protected nodes and the Fermi arcs in the cuprate superconductors.*
41. 9<sup>th</sup> Int'l Conf. Materials and Mechanisms of Superconductivity (M2S-IX), Tokyo, September 7-12, 2009  
*Superfluidity in atomic Fermi gases with and without population imbalance.*
42. Summer Workshop on Quantum Condensation, Asian Pacific Center for Theoretical Physics, Pohang, Korea, August 16-31, 2009.  
*Superfluidity in atomic Fermi gases*
43. 5th Singapore-China Joint Symposium on Research Frontiers in Physics , Singapore, July 22-24, 2009  
*Superfluidity in atomic Fermi gases*
44. Hong Kong Forum 2008, Quantum Matter and Quantum Simulations, The University of Hong Kong, December 13-15, 2008  
*Fermionic superfluidity in cold atomic Fermi gases.*
45. Max-Planck Institute for Physics of Complex Systems, Quantum Dynamics Seminar, Dresden, Germany, July 9, 2008  
*Superfluidity in ultracold atomic Fermi gases.*
46. Zhejiang University (浙江大学), Department of Physics, Hangzhou, China, Dec. 28, 2007.  
*Superfluidity in ultracold atomic Fermi gases.*
47. Temple University, Department of Physics Colloquium, May 8, 2007.  
*Superfluidity in ultracold Fermi gases.*
48. American Physical Society (APS) March Meeting, Denver, March 5-9, 2007.  
[\*The important role of temperature in BCS—Bose-Einstein condensation crossover phenomena with population imbalance.\*](#)

49. 5th International Conference of the Stripes, Roma, Italy, Dec 17-22, 2006.  
*Fermionic superfluidity: From high  $T_c$  superconductors to ultracold Fermi gases.*
50. Fudan University (复旦大学), Department of Physics, Shanghai, China, Jul 3, 2006.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
51. Institute of Applied Physics and Computational Mathematics, Chinese Academy of Engineering Physics (中国工程物理研究院应用物理与计算数学研究所), Beijing, Jun 30, 2006.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
52. Institute of Physics, Chinese Academy of Sciences (中国科学院物理研究所), Beijing, China, Jun 28, 2006.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
53. Zhejiang University (浙江大学), Department of Physics, Hangzhou, China, Jun 16, 2006.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
54. Nanjing University (南京大学), Department of Physics, Nanjing, China, Jun 14, 2006.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
55. University of Science & Technology of China (中国科学技术大学), Department of Physics, Hefei, China, Jun 12, 2006.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
56. Northeastern University, Department of Physics Colloquium, Boston, MA, USA, Feb 10, 2006.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
57. University of Michigan, Department of Physics, FOCUS Special Seminar, Ann Arbor, MI, USA, Feb 24, 2005.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
58. North Carolina State University, Department of Physics Colloquium, Raleigh, NC, USA, Feb 15, 2005.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
59. University at Buffalo, SUNY, Department of Physics Colloquium, Buffalo, NY, USA, Feb 3, 2005.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
60. University of Notre Dame, Department of Physics Seminar, South Bend, IN, USA, Jan 28, 2005.  
*Superfluidity in correlated fermions: From high  $T_c$  superconductors to ultracold atomic Fermi gases.*
61. Johns Hopkins University, Condensed Matter Physics Seminar, Baltimore, MD, USA, October 2002.  
*Pseudogap from a pseudo-order parameter: Finite center-of-mass momentum state pairing in high  $T_c$  superconductors.*
62. The University of Florida, Condensed Matter Physics Seminar, Gainesville, FL, USA, April 2001.  
*Pseudogap from a pseudo-order parameter: Non-time reversal state pairing in high  $T_c$  superconductors.*
63. National High Magnetic Field Laboratory, Florida State University, Condensed Matter Physics Seminar, Tallahassee, FL, USA, September 2000.  
*Generalization of BCS theory to short coherence length superconductors.*
64. National Laboratory for Superconductivity, Chinese Academy of Sciences (中国科学院超导国家实验室), Beijing, China, July 1999.  
*Pairing fluctuation theory for small pair superconductors.*

## OTHER CONFERENCE PRESENTATIONS

65. APS March Meeting, Denver, CO, USA, March 2–6, 2020.  
[Superfluidity of interacting fermions in optical lattices: Interplay of population imbalance, dimensionality, and lattice-continuum mixing.](#) (contributed talk)
66. APS March Meeting, Boston, MA, USA, Mar 4-8, 2019. (contributed talk)  
[Enhancement and destruction of superfluidity: Unusual effects of population imbalance of atomic Fermi gases on a 1D optical lattice.](#)
67. APS March Meeting, Boston, MA, USA, Mar 4-8, 2019. (contributed talk)  
[Probing the many-body physics via measurement of the closed-channel fraction in a  \${}^6\text{Li}\$  superfluid.](#)
68. APS March Meeting, Los Angeles, CA, USA, Mar 5-9, 2018. (contributed talk)  
[Achieving higher superfluid transition  \$T\_c\$  in atomic Fermi gases using mixed dimensionality.](#)
69. APS March Meeting, New Orleans, LA, USA, Mar 13-17, 2017. (contributed talk)  
[Instability of Fulde-Ferrell-Larkin-Ovchinnikov states in three and two dimensions.](#)
70. APS March Meeting, Baltimore, MD, USA, Mar 14-18, 2016. (contributed talk)  
[Superfluidity and BCS-BEC crossover of ultracold atomic Fermi gases in mixed dimensions.](#)
71. APS March Meeting, Denver, CO, USA, Mar 2-7, 2014. (contributed talk)  
[Theory of BCS-BEC crossover in ultracold atomic Fermi gases in the presence of impurities.](#)
72. APS March Meeting, Baltimore, MD, USA, Mar 17-22, 2013. (contributed talk)  
[Density and particle-hole fluctuation effects on the position of Feshbach resonances in atomic Fermi gases.](#)
73. APS March Meeting, Baltimore, MD, USA, Mar 17-22, 2013. (contributed talk)  
[Superfluidity of atomic Fermi gases with dipolar interactions.](#)
74. APS March Meeting, Boston, MA, USA, Feb 27-Mar 2, 2012. (contributed talk)  
[Superfluid transition temperature and its zero density limit extrapolation in a unitary atomic Fermi gas on a lattice.](#)
75. APS March Meeting, Boston, MA, USA, Feb 27-Mar 2, 2012. (contributed talk)  
[Strongly interacting atomic Fermi gases in a trap with mass and population imbalances at finite temperature.](#)
76. APS March Meeting, Dallas, TX, USA, March 21-25, 2011. (contributed talk)  
[Effects of particle-hole channel on the behavior of BCS-BEC crossover.](#)
77. APS March Meeting, Portland, OR, USA, March 15-19, 2010. (contributed talk)  
[Probing the homogeneous spectral function of a trapped atomic Fermi gas using momentum resolved rf spectroscopy.](#)
78. APS March Meeting, Pittsburg, PA, March 16-20, 2009 (contributed talk)  
[Probing the spectral function using momentum resolved radio frequency spectroscopy in trapped Fermi gases.](#)
79. Conference on Competing Orders, Pairing Fluctuations, and Spin Orbit Effects in Novel Unconventional Superconductors, Max Planck Institute for Physics of Complex Systems, Dresden, Germany, June 29-July 11, 2008 (contributed talk)  
[Understanding the protected nodes and collapse of the Fermi arcs in underdoped cuprate superconductors.](#)
80. APS March Meeting, New Orleans, LA, March 9-13, 2008. (contributed talk)  
[Understanding the protected nodes and the Fermi arcs in the cuprate superconductors.](#)

81. APS March Meeting, Baltimore, MD, March 13-17, 2006. (contributed talk)  
[Understanding the superfluid phase diagram in trapped Fermi gases.](#)
82. APS March Meeting, Baltimore, MD, March 13-17, 2006. (contributed talk)  
[Population of closed-channel molecules in trapped Fermi gases with broad Feshbach resonances.](#)
83. APS March Meeting, Los Angeles, CA, March 21-25, 2005. (contributed talk)  
[Thermodynamics of ultracold fermions in traps in the strongly interacting regime.](#)
84. APS March Meeting, Indianapolis, IN, March 18-22, 2002. (contributed talk)  
[Pairing fluctuation theory of high  \$T\_c\$  superconductivity in the presence of nonmagnetic impurities.](#)
85. Conference on Physical Phenomena at High Magnetic Fields (PPHMF-IV), National High Magnetic Field Laboratory, Santa Fe, NM, October 19-27, 2001. (poster)  
*Magnetic field effects on  $T_c$  and the pseudogap onset temperature in cuprate superconductors.*
86. APS March Meeting, Seattle, WA, March 12-16, 2001. (contributed talk)  
[Superconducting phase coherence in the presence of a pseudogap in phase insensitive experiments.](#)
87. Conference on High Temperature Superconductivity, Institute for Theoretical Physics, University of California, Santa Barbara, August 13-17, 2000. (poster)  
*Nodal quasiparticles versus phase fluctuations in high  $T_c$  superconductors: An intermediate scenario.*
88. APS March Meeting, Minneapolis, MN, March 20-24, 2000. (contributed talk)  
[Nodal Quasiparticles versus Phase Fluctuations in High  \$T\_c\$  Superconductors: An Intermediate Scenario.](#)
89. M<sup>2</sup>S-HTSC-VI centennial conference, Houston, Texas, February 20-25, 2000. (poster)  
*Nodal quasiparticles versus phase fluctuations in high  $T_c$  superconductors: An intermediate scenario.*
90. Conference on Interdisciplinary Sciences & Applications of Oxides with Strong Electron Correlation (Satellite Conference of IUMRS-ICAM'99), Kunming, China, June 21-25, 1999. (contributed talk)  
*Pairing fluctuation theory for small pair superconductors*
91. APS Centennial Meeting, Atlanta, GA, March 22-26, 1999. (contributed talk)  
[Theory of small pair superconductors: Application to the cuprates.](#)
92. APS Centennial Meeting, Atlanta, GA, March 22-26, 1999. (contributed talk)  
[BCS to Bose-Einstein crossover on a quasi-2D lattice with a d-wave pairing symmetry.](#)
93. 1999 University of Miami Conference on High Temperature Superconductivity, University of Miami, Florida, January 7-13, 1999. (poster)  
*A BCS -- Bose-Einstein crossover theory for d-wave superconductors and its application to the cuprates.*
94. Seventh Annual STCS Graduate Student Workshop, Chicago, IL, April 29, 1998. (contributed talk)  
*BCS to Bose-Einstein crossover and pseudogap phenomena via resonant pair scattering.*
95. APS March Meeting, Los Angeles, CA, March 16-20, 1998. (contributed talk)  
[Pseudogap Phenomena in d-wave Superconductors via Resonant Pair Scattering.](#)

## WORK PRESENTED BY COAUTHORS

96. APS March Meeting, virtual, Mar 15–19, 2021. (contributed talk by Zhiqiang Wang)  
[Quantum Geometric Contributions to the BKT Transition: Beyond Mean Field Theory.](#)
97. APS March Meeting, virtual, Mar 15–19, 2021. (contributed talk by Rufus Boyack)

- [The effect of the pseudogap on thermomagnetic transport in cuprates.](#)
98. APS March Meeting, Denver, CO, USA, Mar 2-6, 2020. (contributed talk by Lin Sun)  
[Unusual superfluid behavior of population imbalanced atomic Fermi gases in a two-dimensional optical lattice.](#)
99. APS March Meeting, Denver, CO, USA, Mar 2-6, 2020. (contributed talk by Xiaoyu Wang)  
[Strong pairing in two dimensions: Pseudogaps, domes, and other implications.](#)
100. APS March Meeting, Los Angeles, CA, USA, Mar 5-9, 2018. (contributed talk by Rufus Boyack)  
[Cuprate diamagnetism in the presence of a pseudogap: Beyond the standard fluctuation formalism.](#)
101. APS March Meeting, Los Angeles, CA, USA, Mar 5-9, 2018. (contributed talk by Xiaoyu Wang)  
[Hall Effect in Hole-doped Cuprates: Pairing Fluctuations Versus Fermi Surface Reconstruction](#)
102. APS March Meeting, Baltimore, MD, USA, Mar 14-18, 2016. (contributed talk by Jibiao Wang)  
[Superfluidity of ultracold atomic gases of Fermi-Fermi mixtures on an optical lattice.](#)
103. APS March Meeting, San Antonio, TX, USA, Mar 2-7, 2015. (contributed talk by Jibiao Wang)  
[Stability of Fulde-Ferrell-Larkin-Ovchinnikov states in ultracold atomic Fermi gases.](#)
104. APS March Meeting, San Antonio, TX, USA, Mar 2-7, 2015. (contributed talk by Yanming Che)  
[Effects of nonmagnetic impurities on BCS-BEC crossover in atomic Fermi gases.](#)
105. APS March Meeting, Baltimore, MD, USA, Mar 17-22, 2013. (contributed talk by Jibiao Wang)  
[Fulde-Ferrell-Larkin-Ovchinnikov states in Fermi-Fermi mixtures.](#)
106. APS March Meeting, Pittsburgh, PA, USA, March 16-20, 2009. (contributed talk, by Yan He)  
[Temperature and final state effects in radio frequency spectroscopy experiments on atomic Fermi gases.](#)
107. APS March Meeting, Pittsburgh, PA, USA, March 16-20, 2009. (contributed talk, by Hao Guo)  
[Finite temperature effects of  \$^6\text{Li}\$ - \$^{40}\text{K}\$  mixtures in the BCS-BEC crossover.](#)
108. APS March Meeting, Pittsburgh, PA, USA, March 16-20, 2009. (contributed talk, by C.-C. Chien)  
[Ultra-cold fermions with attractive interactions in optical lattices.](#)
109. APS March Meeting, New Orleans, LA, March 9-13, 2008. (contributed talk, by Yan He)  
[First- and second-sound-like modes at finite temperature in trapped Fermi gases from BCS to BEC.](#)
110. APS March Meeting, New Orleans, LA, March 9-13, 2008. (contributed talk, by Chih-Chun Chien)  
[Transport Properties of a Fermi gas with attractive interactions in the BEC-BCS crossover.](#)
111. APS March Meeting, Denver, CO, March 5-9, 2007. (contributed talk, by Yan He)  
[Single-plane-wave Larkin-Ovchinnikov-Fulde-Ferrell state in BCS--Bose-Einstein condensation crossover.](#)
112. APS March Meeting, Denver, CO, March 5-9, 2007. (contributed talk, by Chih-Chun Chien)  
[Finite Temperature Effects in Trapped Unitary Fermi Gases with Population Imbalance.](#)
113. International School of Physics "Enrico Fermi", Course CLXIV, "Ultra-cold Fermi Gases", Villa Monastero, Varenna, Italy, 20-30 June 2006. (invited talk, by K. Levin)  
[Finite Temperature Effects in Ultracold Fermi Gases.](#)
114. APS March Meeting, Baltimore, MD, March 13-17, 2006. (contributed talk, by Yan He)  
[Radio frequency spectroscopy and the pairing gap in trapped Fermi gases.](#)
115. APS March Meeting, Baltimore, MD, March 13-17, 2006.

- [Ground state description of a single vortex in an atomic Fermi gas: From BCS to Bose-Einstein condensation.](#) (contributed talk, by Chih-Chun Chien)
- 116.APS March Meeting, Los Angeles, CA, March 21-25, 2005.  
[Density Profiles of Strongly Interacting Trapped Fermi Gases.](#) (contributed talk, by Jelena Stajic)
- 117.APS March Meeting, Indianapolis, IN, March 18-22, 2002.  
[Theory of Pair-breaking Effects in the Pseudogap Phase.](#) (contributed talk, by Ying-Jer Kao)
- 118.APS March Meeting, Indianapolis, IN, March 18-22, 2002. (contributed talk, by Jelena Stajic)  
[Using Scaling Observations of the Superfluid Density to Distinguish Models of the Pseudogap.](#)
- 119.APS March Meeting, Indianapolis, IN, March 18-22, 2002. (contributed talk, by Andrew P. Iyengar)  
[Using ab-plane AC Conductivity to Distinguish Models of the Pseudogap.](#)
- 120.APS March Meeting, Seattle, WA, March 12-16, 2001. (contributed talk, by Andrew P. Iyengar)  
[Magnetic Field Effects on  \$T\$  and  \$T\_c\$  in the Presence of a Pseudogap.](#)
- 121.SNS conference, Chicago, IL 2001. (contributed talk, by Ying-Jer Kao)  
*A precursor superconductivity approach to magnetic field effects in the pseudogap phase.*
122. SNS conference, Chicago, IL 2001. (contributed talk, by Andrew P. Iyengar)  
*Magnetic field effect in the pseudogap phase: A precursor superconductivity scenario.*
- 123.SNS conference, Chicago, IL 2001. (invited talk, by K. Levin)  
*Origin of the pseudogap phase: Precursor superconductivity versus a competing energy gap scenario.*
- 124.APS March Meeting, Minneapolis, MN, March 20-24, 2000.  
[Pair Excitations, Collective Modes and Gauge Invariance in the BCS-Bose Einstein Crossover Scenario.](#) (contributed talk, by Ioan Kosztin)
- 125.M2S-HTSC-VI centennial conference, Houston, Texas, February 2000.  
*Short coherence length superconductivity: A generalization of BCS theory for the underdoped cuprates.* (Invited talk, by K. Levin)
- 126.APS Centennial Meeting, Atlanta, GA, March, 1999. (contributed talk, by Ioan Kosztin)  
[Theory of Small Pair Superconductors: Between BCS Theory and Bose Condensation.](#)
- 127.1999 University of Miami Conference on High Temperature Superconductivity, Coral Gables, FL, Jan. 1999.  
*What happens below  $T_c$  in the pseudogap phase of the cuprates?: A pairing fluctuation scenario and its experimental implications.* (Invited talk, by Ioan Kosztin)
- 128.APS March Meeting, Los Angeles, CA, 1998. (contributed talk, by Ioan Kosztin)  
[Pseudogap effects above and below  \$T\_c\$ : A resonant pair scattering approach.](#)