

CHIH-CHUN CHIEN's Curriculum Vitae

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Education

2003-2009 PhD, Department of Physics, The University of Chicago
Advisor: Dr. Kathryn Levin
Thesis: Ultra-cold Fermi Gases with Tunable Attractive interactions:
Population Imbalance and Optical Lattices
2001-2003 MS, Department of Physics, National Taiwan University
Advisor: Dr. Ning-Ning Pang and Dr. Wen-Jer Tzeng
Thesis: Statistical Physics of Discrete Surface Growth Models
1997-2001 BS, National Taiwan University

Employment

2014.01-present Assistant Professor, Physics Group, School of Natural Sciences,
University of California, Merced
2011.03-2013.12 J. R. Oppenheimer Postdoctoral Fellow, Los Alamos National Laboratory
2009.12-2011.02 Director's Postdoctoral Fellow, Los Alamos National Laboratory
2009.04-2009.11 Postdoctoral Researcher, James Franck Institute, University of Chicago

Research

2010-present Collaboration with Frederick Cooper, Eddy Timmermans, Bogdan Damski,
Michael Zwolak, Massimiliano Di Ventra and others
on quantum dynamics of ultra-cold atoms, quantum and thermal transport
in nano systems, quantum field theories of condensed matter.
2005-2009 Professor Kathryn Levin's group
Theories of superfluidity and superconductivity
Models of ultra cold atoms
2004-2005 Professor Woowon Kang's group
Experiments on quantum Hall effects
2001-2003 Professor Ning-Ning Pang's group
Dynamic surface growth phenomena
Stochastic processes and complex systems

Research Interest (A Partial List)

1. **Ultra-cold atoms:** Superfluidity and magnetism of ultra-cold atoms in optical lattices; BEC-BCS crossover theories and their applications; Hybrid quantum systems involving cold atoms,

trapped ions, and optical cavities; Quantum transport in confined geometries; Quantum field theories of cold atoms; Quantum computations; Collective excitations; Fluctuation effects.

2. **Strongly correlated electrons:** Topics related to high-Tc superconductivity; Spin systems; Symmetry breaking and restoration; Exotic phases and orders in novel materials; Disordered or frustrated systems; Quantum phase transitions.
3. **Transport and non-equilibrium phenomena:** Transport properties of biomaterial and nano-devices; Energy transport and conversion in novel devices; Structural phase transitions in biomaterial; Quench dynamics and spontaneous emergence of topological defects.

Honors

- 2011 J. R. Oppenheimer Postdoctoral Fellowship, Los Alamos National Lab.
(The first Taiwanese winner of this prize in 37 years.)
- 2011 Theoretical Postdoctoral Fellowship (3-year appointment),
Joint Quantum Institute and University of Maryland. (declined)
- 2009 Director's Postdoctoral Fellowship, Los Alamos National Laboratory.
- 2007 Bloomenthal Fellowship for Theoretical Physics (for the best theoretical research
in physics graduate students), The University of Chicago.
- 2003 Dean's Award of Outstanding Thesis, National Taiwan University.
- 2002 Theoretical Physics Summer Fellowship, National Center for Theoretical Physics, Taiwan.
- 2001 Dean's Award (Top 5% of class 2001), National Taiwan University.

Professional Service

Referee for: Physical Review Letters, Physical Review B, Physical Review A, Journal of Physics B, Journal of Physics: Conference Series, New Journal of Physics, Physics Letters A, Journal of Physics: Condensed Matter, International Journal of Quantum Chemistry, Physica B.

Teaching Experience

- 2008 Summer teaching assistant, The University of Chicago
Course: Fundamental physics.
- 2003-2007 Teaching assistant, The University of Chicago
Courses: Fundamental physics, Quantum Mechanics Labs.
- 2002-2003 Teaching assistant, National Taiwan University
Course: Fundamental physics. Fundamental physics labs.
- 2001 Physics Camp Instructor, National Taiwan University
Course: Introduction to special relativity.

Presentations (most recent 3 years)

- 2013.12 3rd International Conference on Nanotek & Expo, Las Vegas, NV, Invited talk:
DNA Heatronics: Designing thermal devices utilizing structural transitions.
- 2013.05 Seminar, Oregon State University, OR:
Mean-Field Theories for Atomic Gases from Path Integral Formalism.
- 2013.04 BLABS seminar, Los Alamos National Laboratory:
Resuscitating Large- N Theory for Atomic Gases.
- 2013.03 APS March Meeting, Baltimore, MD. Contributed talk:
Controllable Transport of Ultra-Cold Atoms in 1D Optical Lattices with Peierls Substitution.
- 2013.02 Colloquium, Washington State University, WA:
Atomtronics: Building devices with cold-atoms and optical lattices.
- 2013.01 Seminar, University of California, Merced, CA:
Non-equilibrium physics in atomic and molecular systems with applications.
- 2013.01 Colloquium, National Taiwan University, Taiwan.
Atomtronics: Building devices with cold-atoms and optical lattices.
- 2013.01 Seminar, Institute of Atomic and Molecular Sciences, Taiwan.
Non-equilibrium physics in atomic and molecular systems with applications.
- 2012.12 BLABS seminar, Los Alamos National Laboratory:
Atomtronics: Building devices with cold-atoms and optical lattices.
- 2012.11 Annual World Congress of NanoMedicine, Shenzhen, China. Invited talk (declined):
DNA heatronics: Tuning thermal transport via structures and structural transitions.
- 2012.08 Dynamics and Thermodynamics in Isolated Quantum Systems, Santa Barbara, CA. Poster:
Density- and Interaction- Induced Transport of Ultra-Cold Atoms in 1D Optical Lattices
- 2012.06 2012 QAMTS conference, Santa Fe, NM. Talk:
Quantum transport of ultra-cold atoms tunneling in optical lattices.
- 2012.03 UCSD condensed matter seminar, San Diego, CA:
Applications of micro-canonical simulations to transport phenomena in ultra-cold atoms.
- 2012.02 APS March Meeting, Boston, MA. Contributed talk:
Steady-state current, spin statistics, and interaction-induced transport in ultra-cold atoms.
- 2011.10 Quantum Lunch Talk, Los Alamos National Lab:
Auxiliary field theory of ultra-cold atoms and how it solves a 60-year-old problem.
- 2011.09 Los Alamos National Lab LDRD Day. Poster:
A unified theory of superconductivity and superfluidity.
- 2011.03 APS March Meeting, Dallas, TX. Contributed talk:
Momentum-resolved RF spectroscopy of polarized Fermi gases.
- 2011.03 Los Alamos National Lab., BLABS seminar:
Micro-canonical simulations: Testing mesoscopic and semi-classical theories.
- 2011.02 CNLS postdoc lecture series, Los Alamos National Lab:
Pitfalls in calculating correlation functions and response functions in BCS-BEC crossover.

Publication List

- (Updated on 12/24/2013) There are 8 Physical Review Letters, 1 Nanotechnology, 1 Europhysics Letter, 11 Rapid Communications in Physical Review A, B, and E, one Key Issue in Reports of Progress in Physics, 1 invited review in New Journal of Physics, and 1 review in Journal of Low Temperature Physics. 9 articles have been selected in Virtual Journal Series by AIP.
- The citation numbers are from ISI Web of Science (ISI). The total number of citations is 467.
- H-index: 14.

Peer reviewed: (I also listed recently submitted papers.)

59. K.Velizhanin, **C.C.Chien**, Y.Dubi, and M.Zowlak, *Intrinsic thermal conductance, extended reservoir simulations, and Kramers transition rate theory*, arXiv: 1312.5422 (submitted to Physical Review X).
58. H.Guo, Y.Li, Y.He, and **C.C.Chien**, *Density and Spin Linear Response of Atomic Fermi Superfluids with Population Imbalance in BCS-BEC Crossover*, arXiv: 1308.1304 (submitted to Journal of Physics B).
57. G.W.Chern, **C.C.Chien**, and M.Di Ventra, *Dynamically generated flat-band phases in optical kagome lattices*, arXiv: 1307.6128 (submitted to Physical Review Letters).
56. H.Guo, Y. He, **C.C.Chien**, and K.Levin, *The Compressibility in Strongly Correlated Superconductors and Superfluids: From BCS to BEC*, Physical Review A 88, 043644 (2013). Number of citations: 0 (ISI).
55. J.F.Dawson, F.Cooper, **C.C.Chien**, and B.Mihaila, *Leading-Order Auxiliary Field Theory of the Bose-Hubbard Model*, Physical Review A 88, 023607 (2013). Number of citations: 0 (ISI).
54. K.Doï, M.Tsutsui, T. Ohshiro, **C.C.Chien**, M.Zwolak, M.Taniguchi, T.Kawai, S.Kawano, and M.Di Ventra, *Electrochemical response of biased nanoelectrodes in solution*, arXiv: 1302.3016 (submitted to Journal of Physical Chemistry C).
53. H. Guo, **C.C.Chien**, Y. He, and K.Levin, *Fundamental Constraints on Linear Response Theories of Fermi Superfluids Above and Below T_c* , International Journal of Modern Physics B 27, 1330010 (2013). (Invited review) Number of citations: 0 (ISI).
52. **C.C.Chien** and F.Cooper, *Quench Dynamics and Emergence of Phase Separation in Two-Component Atomic Bose Gases at Zero and High Temperatures*, Physical Review A 87, 045602 (2013). Number of citations: 1 (ISI).
51. **C.C.Chien** and M. Di Ventra, *Controlling Transport of Ultra-Cold Atoms in 1D Optical Lattices with Artificial Gauge Fields*, Physical Review A 87, 023609 (2013). Number of citations: 1 (ISI).
50. H. Guo, **C.C.Chien**, and Y. He, *Theories of Linear Response in BCS Superfluids and How They Meet Fundamental Constraints*, Journal of Low Temperature Physics 172, 5 (2013). (Review article) Number of citations: 3 (ISI).

49. **C.C.Chien**, K.A.Velizhanin, Y.Dubi, and M.Zwolak, *Tunable Thermal Switching via DNA-Based Nano Devices*, Nanotechnology 24, 095704 (2013). Number of citations: 2 (ISI). (See the NanoTechWeb news at <http://nanotechweb.org/cws/article/lab/52720> .)
48. **C.C.Chien**, F. Cooper, and E. Timmermans, *Large- N approximation for single- and two-component dilute Bose gases*, Physical Review A 86, 023634 (2012). Number of citations: 1 (ISI).
47. **C.C.Chien** and M. Di Ventra, *Dynamical crossover between the infinite-volume and empty-lattice limits of ultra-cold fermions in 1D optical lattices*, Europhysics Letters 99, 40003 (2012). Number of citations: 2 (ISI).
46. **C.C.Chien**, D.Gruss, M.Di Ventra, and M.Zwolak, *Interaction-induced conducting-nonconducting transition of ultra-cold atoms in 1D optical lattices*, New Journal of Physics 15, 063026 (2013). Number of citations: 1 (ISI).
45. **C.C.Chien**, J. She, and F. Cooper, *Mean-field description of pairing effects, BKT physics, and superfluidity of 2D interacting Bose gases*, arXiv: 1203.3254 (submitted to Annals of Physics).
44. **C.C.Chien**, H. Guo and K. Levin, *Comment on "Density and Spin response of a strongly-interacting Fermi gas in the attractive and quasi-repulsive regime"*, Physical Review Letters 109, 118901 (2012). Number of citations: 2 (ISI).
43. H. Guo, **C.C.Chien**, and Y. He, *Gauge Invariant Linear Response Theory of Relativistic BCS superfluids*, Physical Review D 85, 074025 (2012). Number of citations: 1 (ISI).
42. F.Cooper, **C.C.Chien**, B.Mihaila, J.F.Dawson, and E.Timmermans, *Composite-Field Goldstone States and Higgs Mechanism in Dilute Bose Gases*, Physical Review A 85, 023631 (2012). Number of citations: 2 (ISI).
41. **C.C.Chien**, M.Zwolak, and M.Di Ventra, *Bosonic and fermionic transport phenomena of ultra-cold atoms in 1D optical lattices*, Physical Review A 85, 041601 (2012). (Rapid Communication) Number of citations: 7 (ISI).
40. D.Wulin, G. Guo, **C.C.Chien**, and K.Levin, *A Pre-formed Pair Approach to Pseudogap Effects in the ab-Plane Optical Conductivity of the Cuprates*, Physical Review B 86, 134518 (2012). Number of citations: 2 (ISI).
39. B.Mihaila, F.Cooper, J.F.Dawson, **C.C.Chien**, and E.Timmermans, *Analytical limits for cold atom Bose gases with tunable interactions*, Physical Review A 84, 023603 (2011). Number of citations: 4 (ISI).
38. B.Mihaila, J.F.Dawson, F.Cooper, **C.C.Chien**, and E.Timmermans, *Auxiliary field formalism for dilute fermionic atom gases with tunable interactions*, Physical Review A 83, 053637 (2011). Number of citations: 3 (ISI).
37. F.Cooper, B.Mihaila, J.F.Dawson, **C.C.Chien**, and E.Timmermans, *Auxiliary-field approach to dilute Bose gases with tunable interactions*, Physical Review A 83, 053622 (2011). Number of citations: 6 (ISI).

36. D.Wulin, H.Guo, **C.C.Chien**, and K.Levin *Spin Transport in Cold Fermi gases: A Pseudogap Interpretation of Spin Diffusion Experiments at Unitarity*, Physical Review A 83, 061601 (2011). (Rapid Communication. Selected in Virtual Journal of Atomic Quantum Fluids, vol. 3.) Number of citations: 6 (ISI).
35. **C.C.Chien**, *Spatially varying interactions induced in atomic gases by optical Feshbach resonance*, Physics Letters A 376, 729 (2012). Number of citations: 3 (ISI).
34. K.Velizhanin, **C.C.Chien**, Y.Dubi, and M.Zwolak, *Driving denaturation: Nanoscale thermal transport as a probe of DNA melting*, Physical Review E 83, 050906(R) (2011). (Rapid Communication) Number of citations: 3 (ISI).
33. D.Wulin, B.M.Fregoso, H.Guo, **C.C.Chien**, and K.Levin, *Conductivity in pseudogapped superconductors: A sum-rule-consistent preformed-pair scenario*, Physical Review B 84, 140509 (2011). (Rapid Communication) Number of citations: 3 (ISI).
32. H.Guo, D.Wulin, **C.C.Chien**, and K.Levin, *Transport Analogies in Bad Metals and Perfect Fluids: Insights into the Conductivity in high T_c Superconductors*, New Journal of Physics 13, 075011 (2011). (Invited review in the special issue "Focus on strongly correlated quantum fluids") Number of citations: 5 (ISI).
31. F.Cooper, **C.C.Chien**, B.Mihaila, J.F.Dawson, and E.Timmermans, *Non-perturbative predictions for cold atom Bose gases with tunable interactions*, Physical Review Letters 105, 240402 (2010). (Selected in Virtual Journal of Atomic Quantum Fluids, vol. 3.) Number of citations: 12 (ISI).
30. H.Guo, D.Wulin, **C.C.Chien**, and K.Levin, *Microscopic Approach to Viscosities in Superfluid Fermi Gases: From BCS to BEC*, Physical Review Letters 107, 020403 (2011). (Selected in Virtual Journal of Atomic Quantum Fluids, vol. 3.) Number of citations: 13 (ISI).
29. **C.C.Chien** and B.Damski, *Dynamics of a quantum quench in an ultra-cold atomic BCS superfluid*, Physical Review A 82, 063616 (2010). Number of citations: 2 (ISI).
28. P.Jiang, **C.C.Chien**, I.Yang, W.Kang, K.W.Baldwin, L.N.Pfeiffer, K.W. West, *Zero-Bias Anomalies in Narrow-Constriction Tunnel Junctions in the Quantum Hall Regime*, Physical Review Letters 105, 246801 (2010). Number of citations: 1 (ISI)
27. H.Guo, **C.C.Chien**, and K.Levin, *Establishing the Presence of Coherence in Atomic Fermi Superfluids: Spin-Flip and Spin-Preserving Bragg Scattering at Finite Temperatures*, Physical Review Letters 105, 120401 (2010). (Selected in Virtual Journal of Atomic Quantum Fluids, vol. 2.) Number of citations: 20 (ISI).
26. **C.C.Chien** and K.Levin, *Fermi liquid theory of ultra-cold trapped Fermi gases: Extracting the Landau Parameters*, Physical Review A 82, 013603 (2010). (Selected in Virtual Journal of Atomic Quantum Fluids, vol. 2.) Number of citations: 4 (ISI).
25. D.Wulin, Y.He, **C.C.Chien**, K.Levin, D.K.Morr, *Quasiparticle interference in temperature dependent-STM as a probe of superconducting coherence*, Physica C 470, S904 (2010). Number of citations: 0 (ISI).

24. D.Wulin, **C.C.Chien**, D.K.Morr, K.Levin, *Contrasting Nodal and Anti-Nodal Behavior in the Cuprates Via Multiple Gap Spectroscopies*, Physical Review B 81, 100504(R) (2010). (Rapid Communication) Number of citations: 3 (ISI).
23. **C.C.Chien**, H.Guo, Y.He, K.Levin, *Comparative Study of BCS-BEC Crossover Theories above T_c : the Nature of the Pseudogap in Ultra-Cold Atomic Fermi Gases*, Physical Review A 81, 023622 (2010). (Selected in Virtual Journal of Atomic Quantum Fluids, vol. 2.) Number of citations: 17 (ISI).
22. D.Wulin, Y.He, **C.C.Chien**, K.Levin, D.K.Morr, *Model for the temperature dependence of the quasiparticle interference pattern in the measured scanning tunneling spectra of underdoped cuprate superconductors*, Physical Review B 80, 134504 (2009). (Selected in Virtual Journal of Applications of Superconductors, vol. 17.) Number of citations: 13 (ISI).
21. **C.C.Chien**, Y.He, Q.J.Chen, K.Levin, *Two Energy Gap Preformed-Pair Scenario For the Cuprates: Implications for Angle-Resolved Photoemission Spectroscopy*, Physical Review B 79, 214527 (2009). (Selected in Virtual Journal of Applications of Superconductors, vol. 17.) Number of citations: 21 (ISI).
20. H.Guo, **C.C.Chien**, Q.J.Chen, Y.He, K.Levin, *Finite-Temperature Behavior of an Interspecies Fermionic Superfluid with Population Imbalance*, Physical Review A 80, 011601(R) (2009). (Rapid Communication. Selected in Virtual Journal of Atomic Quantum Fluids, vol. 1.) Number of citations: 6 (ISI).
19. H.Guo, **C.C.Chien**, Y.He, *Relativistic BCS-BEC crossover of a two-species Fermi gas with number density asymmetry at zero temperature*, Nuclear Physics A 823, 83 (2009). Number of citations: 7 (ISI).
18. Q.J.Chen, Y.He, **C.C.Chien**, K.Levin, *Theory of Radio Frequency Spectroscopy Experiments in Ultracold Fermi Gases and Their Relation to Photoemission Experiments in the Cuprates*, Reports on Progress in Physics 72, 122501 (2009). (Key Issue) Number of citations: 15 (ISI).
17. K.Levin, Q.J.Chen, **C.C.Chien**, Y.He, *Comparison of Different Pairing Fluctuation Approaches to BCS-BEC Crossover*, Annals of Physics 325, 233 (2010). Number of citations: 15 (ISI).
16. **C.C.Chien**, Q.J.Chen, K.Levin, *Fermions with attractive interactions on optical lattices and implication for correlated systems*, Physical Review A 78, 043612 (2008). Number of citations: 11 (ISI).
15. Y.He, **C.C.Chien**, Q.J.Chen, K.Levin, *Temperature and final state effects in radio frequency spectroscopy experiments on atomic Fermi gases*, Physical Review Letters 102, 020402 (2009). Number of citations: 14 (ISI).
14. Y.He, **C.C.Chien**, Q.J.Chen, K.Levin, *Radio frequency spectroscopy of trapped Fermi gases with population imbalance*, Physical Review A 77, 011602 (2008). (Rapid Communication) Number of citations: 12 (ISI).

13. **C.C.Chien**, Y.He, Q.J.Chen, K.Levin, *Superfluid-insulator transitions at non-integer filling in optical lattices of fermionic atoms*, Physical Review A 77,011601 (2008). (Rapid Communication) Number of citations: 12 (ISI).
12. Y.He, **C.C.Chien**, Q.J.Chen, K.Levin, *Thermodynamics and superfluid density in BCS-BEC crossover with and without population imbalance*, Physical Review B 76, 224516 (2007). Number of citations: 23 (ISI).
11. Y.He, Q.J.Chen, **C.C.Chien**, K.Levin, *First and second sound modes at finite temperature in trapped Fermi gases from BCS to BEC*, Physical Review A 76, 051602 (2007). (Rapid Communication) Number of citations: 13 (ISI).
10. Q.J.Chen, **C.C.Chien**, Y.He, K.Levin, *Fermionic superfluidity: From high T_c superconductors to ultracold fermi gases*, Journal of Superconductivity and Novel Magnetism 20, 515 (2007). Number of citations: 4 (ISI).
9. **C.C.Chien**, Q.J.Chen, Y.He, K.Levin, *Superfluid phase diagrams of trapped Fermi gases with population imbalance*, Physical Review Letters 98, 110404 (2007). Number of citations: 39 (ISI).
8. Y.He, **C.C.Chien**, Q.J.Chen, K.Levin, *Single-plane-wave Larkin-Ovchinnikov-Fulde-Ferrell state in BCS-Bose-Einstein condensation crossover*, Physical Review A 75, 021602 (2007). (Rapid Communication) Number of citations: 21 (ISI).
7. Q.J.Chen, Y.He, **C.C.Chien**, K.Levin, *Theory of Superfluids with Population Imbalance: Finite Temperature and BCS-BEC Crossover Effects*, Physical Review B 75, 014521 (2007). Number of citations: 14 (ISI).
6. Q.J.Chen, Y.He, **C.C.Chien**, K.Levin, *Stability conditions and phase diagrams for two component Fermi gases with population imbalance*, Physical Review A 74, 063603 (2006). Number of citations: 17 (ISI).
5. **C.C.Chien**, Q.J.Chen, Y.He, K.Levin, *Finite temperature effects in trapped Fermi gases with population imbalance*, Physical Review A 74, 021602 (2006). (Rapid Communication) Number of citations: 17 (ISI).
4. **C.C.Chien**, Q.J.Chen, Y.He, K.Levin, *Intermediate temperature superfluidity in an atomic Fermi gas with population imbalance*, Physical Review Letters 97, 090402 (2006). Number of citations: 44 (ISI).
3. **C.C.Chien**, Y.He, Q.J.Chen, K.Levin, *Ground State Description of a Single Vortex in an Atomic Fermi gas: From BCS to Bose-Einstein Condensation*, Physical Review A 73, 041603 (2006). (Rapid Communication) Number of citations: 14 (ISI).
2. **C.C.Chien**, N.N.Pang, W.J.Tzeng, *"Initial-stage growth phenomena and distribution of local configurations of the restricted solid-on-solid model"*, Physical Review E 70, 021602 (2004). Number of citations: 6 (ISI).
1. **C.C.Chien**, N.N.Pang, W.J.Tzeng, *"Restricted solid-on-solid model: From local morphology to correlation functions and scaling exponents"*, International Journal of Modern Physics B 18, 827 (2004). Number of citations: 0 (ISI).

Not peer reviewed:

1. **C.C.Chien**, *Ultra-cold Fermi Gases with Tunable Attractive Interactions: Population Imbalance and Optical Lattices*, Ph.D Thesis, University of Chicago, 2009.
2. **C.C.Chien**, *Statistical Physics of Discrete Surface Growth Models*, M.S. Thesis, National Taiwan University, 2003. (Dean's Award of Outstanding Thesis)

References

Professor Kathryn Levin
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