



Steven Kivelson

Prabhu Goel Family Professor
Physics

CONTACT INFORMATION

- **Administrative Contact**

Denise Jones

Email dejones@stanford.edu

Bio

BIO

RESEARCH INTERESTS:

How do the interactions between the vastly many electrons in solids produce the emergent phenomena we recognize as the macroscopic behavior of the materials we encounter in everyday life, and in the exotic materials and devices we engineer in the laboratory?

The central source of intellectual vitality and practical importance of condensed matter physics is the richness and diversity of behaviors exhibited by strongly interacting systems with many degrees of freedom, ranging from the collective behavior of neurons in the brain to the collective condensation of Cooper pairs that produce the macroscopic quantum phenomena associated with superconducting order.

The main thrust of the research carried out by Professor Kivelson is the search for theoretical characterization of qualitatively new behaviors of interacting electrons (i.e., new states of matter) as well as new regimes of parameters in which familiar states of matter behave in new and different ways. In particular, he seeks to explore; qualitatively...the relation between the microscopic interactions between electrons and the effective parameters that control the macroscopic behavior of solids.

Current areas of Focus:

- theory of quantum liquid crystalline phases of highly correlated electronic fluids
- intertwined orders and the theory of high temperature superconductivity
- theory of spin liquids and other fractionalized quantum phases
- theory of the glass transition in super cool liquids

ACADEMIC APPOINTMENTS

- Professor, Physics
- Principal Investigator, Stanford Institute for Materials and Energy Sciences

ADMINISTRATIVE APPOINTMENTS

- Prabhu Goel Family Professor of Physics, Stanford University, (2012- present)
- Professor, Physics, Stanford University, (2004- present)
- Editor in Chief, Nature Partner Journal Quantum Materials, (2016- present)
- Professor, Physics and Astronomy, UCLA, (1988-2004)
- Professor of Physics, State University of New York at Stony Brook, (1988-1989)
- Associate Professor of Physics, State University of New York at Stony Brook, (1986-1988)
- Assistant Professor of Physics, State University of New York, (1982-1986)

PROFESSIONAL EDUCATION

- Ph.D., Harvard University , Physics (1979)

LINKS

- Defining "Emergence" in Physics: <http://www.nature.com/articles/npjquantmats201624>
- Understanding Complexity: <https://www.nature.com/articles/s41567-018-0136-6>
- Kivelson Group Web Link: <https://glam.stanford.edu/kivelson-group>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Past Graduate Students:

Assa Auerbach - Professor of Physics, Technion University - deceased.

Weikang Wu - deceased.

Shoucheng Zhang - Professor of Physics, Stanford University - deceased.

Shivaji Sondhi - Wykham Professor of Physics, Oxford University

Markku Salkola - Facebook, Menlo Park

Vadim Oganesyan - Professor of Physics CUNY

Kyrill Shtengle - Professor of Physics, UC Riverside

Oron Zachar

Zohar Nussinov - Professor of Physics, Washington University

Erica W. Carlson - Professor of Physics, Purdue University

Edward Sleva

John Robertson - Citadel, Austin

Wei-Feng Tsai

Ian Bindloss

Paul Oretto - Head of Machine Learning at Cantor Fitzgerald, New York

Erez Berg - Professor of Physics, Weizmann Institute

Hong Yao - Professor of Physics, Tsinghua University

Li Liu

Weejee Cho

George Karakonstantakis

Sam Lederer - Physics and Science Research Teacher, Harker School, San Jose

Laimei Nie - Assistant Professor of Physics, Purdue University

Ilya Esterlis - Assistant Professor, University of Wisconsin, Madison

John Dodaro - Research Associate, Stanford University

Chao Wang - Citadel LLC, New York

Yue Yu - Post Doctoral Fellow, University of Wisconsin, Milwaukee

Yuval Gannot - Software Engineer, Google, Mtn. View

Kyung-Su Kim - Post Doctoral Fellow, A.J. Leggett Institute, UIUC

Zhaoyu Han - Post Doctoral Fellow, Harvard University

Andrew Yuan - Post Doctoral Fellow, University of Maryland

Vladimir Calvera - Post Doctoral Fellow, University of Minnesota

Askhat Pandey - Fellow, All Souls College, Oxford

Past Post Docs:

Douglas Stone - Professor of Physics, Yale University

Gergeley Zimanyi - Professor of Physics, UC Davis

Dror Orgad - Professor of Physics, Tel Aviv University

Hae-Young Kee - Professor of Physics, University of Toronto

Oskar Vafek - Professor of Physics, University of Florida

Eun-Ah Kim - Professor of Physics, Cornell University

Srinivas Raghu - Professor of Physics, Stanford University

Maisam Barkeshli - Professor of Physics, University of Maryland

Michael Mulligan - Associate Professor of Physics, UC Riverside

Pavan Hosur - Professor of Physics, University of Houston

Yi Zhang - Professor of Physics, Tsinghua University

Abulhassan Vaezi - Professor of Physics, Sharifi University

Tomas Bzdusek - Professor of Physics, University of Zurich

Jingyuan Chen - Assistant Professor of Physics, Tsinghua University

Yoni Schattner - Research Scientist, Quantum Computing at the Amazon Center for
Quantum Computing at Caltech, Pasadena

John Sous - Assistant Professor of Chemistry, Yale University

Chaitanya Murthy - Assistant Professor, University of Rochester

Past Undergraduate Research Assistants:

Kevin S. Wang - Graduate student, Princeton University

Jeffrey Chang - Graduate student, Harvard University

Vijay Nathan Josephs - Graduate Student, Stanford University

Unofficial Past Students and Post Docs:

(i.e. where I believe I played the corresponding mentoring role, but the connection was unofficial - a shameless attempt to claim partial credit):

Shoucheng Zhang - (did his final year of PhD work, the part in CMT, under my direction and worked with me extensively while a post doc)

Jainendra Jain - (did the final portion of his PhD work, the part relevant to the quantum Hall effect, under my guidance and worked with me extensively while a post doc)

Daniel Rokhsar - (No official connection at all, but did significant portion of both his graduate and post-doctoral research in collaboration with me.)

Akash Maharaj - (was a student of Srinivas Raghu with whom he worked extensively, but he also did a significant portion of his graduate research in collaboration with me.)

Teaching

COURSES

2025-26

- Advanced Mathematical Methods for Condensed Matter Physics: PHYSICS 374 (Spr)
- Advanced Topics in Quantum Mechanics: PHYSICS 134, PHYSICS 234 (Win)

2024-25

- Theoretical Characterizing & Verifying Distinct Ground-State Phases of Interacting Quantum Systems: PHYSICS 460 (Aut)
- Thermodynamics, Kinetic Theory, and Statistical Mechanics II: PHYSICS 171 (Spr)

2023-24

- Condensed Matter Seminar: APPPHYS 470 (Aut, Win, Spr)
- Graduate Quantum Mechanics I: PHYSICS 230 (Win)
- Mathematical Methods for Physics: PHYSICS 112 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Arthur Campello, Nicole Ticea, Jin Gene Wong

Postdoctoral Faculty Sponsor

Evyatar Tulipman

Doctoral Dissertation Advisor (AC)

Jessica Pan

Doctoral Dissertation Co-Advisor (AC)

Tixuan Tan, Sijia Zhao

Doctoral (Program)

Langxuan Chen, Yiting Huang, V. Nathan Josephs, Aaron Leland, Joonseo Song, Alexa Tyberg, Luke Weaver, Seongyeon Youn

Publications

PUBLICATIONS

- **Critical Gate Distance for Wigner Crystallization in the Two-Dimensional Electron Gas.** *Physical review letters*
Valenti, A., Calvera, V., Yang, Y., Morales, M. A., Kivelson, S. A., Esterlis, I., Zhang, S.
2025; 135 (16): 166501
- **Modified Interferometer to Measure Anyonic Braiding Statistics.** *Physical review letters*
Kivelson, S. A., Murthy, C.
2025; 135 (12): 126605
- **Elastocaloric evidence for a multicomponent superconductor stabilized within the nematic state in Ba(Fe_{1-x}Cox)₂As₂.** *Proceedings of the National Academy of Sciences of the United States of America*
Ghosh, S., Ikeda, M. S., Chakraborty, A. R., Worasaran, T., Theuss, F., Peralta, L. B., Lozano, P. M., Kim, J. W., Thompson, P. J., Ryan, P. J., Ye, L., Kapitulnik, A., Kivelson, et al
2025; 122 (37): e2424833122
- **Modified Interferometer to Measure Anyonic Braiding Statistics** *PHYSICAL REVIEW LETTERS*
Kivelson, S. A., Murthy, C.
2025; 135 (12)
- **Spin-glass state in nickelate superconductors** *NPJ QUANTUM MATERIALS*
Saykin, D. R., Gonzalez, M., Fowlie, J., Kivelson, S. A., Hwang, H. Y., Kapitulnik, A.
2025; 10 (1)
- **Effect of disorder on the strain-tuned charge density wave multicriticality in PdxErTe₃** *PHYSICAL REVIEW B*
Singh, A. G., Bachmann, M. D., Fang, A., Kapitulnik, A., Kivelson, S. A., Fisher, I. R., Thompson, P., Rosenkranz, S., Osborn, R., Krogstad, M., Kim, J., Ryan, P. J.
2025; 112 (8)
- **Quantum spin liquid from electron-phonon coupling.** *Proceedings of the National Academy of Sciences of the United States of America*
Cai, X., Han, Z., Li, Z. X., Kivelson, S. A., Yao, H.
2025; 122 (33): e2426111122
- **Time-reversal symmetry breaking, collective modes, and Raman spectrum in pair-density-wave states** *NPJ QUANTUM MATERIALS*
Wu, Y., Chubukov, A. V., Wang, Y., Kivelson, S. A.
2025; 10 (1)
- **The significance of "stripes" in the physics of the cuprates, the Hubbard model, and other highly correlated electronic systems** *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*
Devereaux, T. P., Kivelson, S. A.
2025; 632
- **Models of interacting bosons with exact ground states: A unified approach** *PHYSICAL REVIEW B*
Han, Z., Kivelson, S. A.
2025; 111 (17)
- **Theory of Coulomb driven nematicity in a multivalley two-dimensional electron gas** *PHYSICAL REVIEW B*
Calvera, V., Valenti, A., Huber, S. D., Berg, E., Kivelson, S. A.
2025; 111 (15)
- **Emergent gauge fields in band insulators.** *Proceedings of the National Academy of Sciences of the United States of America*
Han, Z., Kivelson, S. A.
2025; 122 (15): e2421778122
- **Hydride superconductivity is here to stay** *NATURE REVIEWS PHYSICS*
Boeinger, G. S., Chubukov, A. V., Fisher, I. R., Grosche, F., Hirschfeld, P. J., Julian, S. R., Keimer, B., Kivelson, S. A., Mackenzie, A. P., Maeno, Y., Orenstein, J., Ramshaw, B. J., Sachdev, et al
2024

- **Possible Sliding Regimes in Twisted Bilayer WTe₂**. *Physical review letters*
Wu, Y. M., Murthy, C., Kivelson, S. A.
2024; 133 (24): 246501
- **Possible Sliding Regimes in Twisted Bilayer WTe₂** *PHYSICAL REVIEW LETTERS*
Wu, Y., Murthy, C., Kivelson, S. A.
2024; 133 (24)
- **Importance of electron-phonon coupling near the electron-liquid to Wigner-crystal transition in two-dimensional atomically thin materials** *PHYSICAL REVIEW B*
Tan, T., Calvera, V., Kivelson, S. A.
2024; 110 (24)
- **Phase sensitive information from a planar Josephson junction** *NPJ QUANTUM MATERIALS*
Yuan, A. C., Kivelson, S. A.
2024; 9 (1)
- **"Quantum Geometric Nesting" and Solvable Model Flat-Band Systems** *PHYSICAL REVIEW X*
Han, Z., Herzog-Arbeitman, J., Bernevig, B., Kivelson, S. A.
2024; 14 (4)
- **Anomalous Landau Level Gaps Near Magnetic Transitions in Monolayer WSe₂** *PHYSICAL REVIEW X*
Foutty, B. A., Calvera, V., Han, Z., Kometter, C. R., Liu, S., Watanabe, K., Taniguchi, T., Hone, J. C., Kivelson, S. A., Feldman, B. E.
2024; 14 (3)
- **Anomalous Superfluid Density in a Disordered Charge-Density-Wave Material: Pd-Intercalated ErTe₃**. *Physical review letters*
Iguchi, Y., Straquadine, J. A., Murthy, C., Kivelson, S. A., Singh, A. G., Fisher, I. R., Moler, K. A.
2024; 133 (3): 036001
- **Anomalous Superfluid Density in a Disordered Charge-Density-Wave Material: Pd-Intercalated ErTe₃** *PHYSICAL REVIEW LETTERS*
Iguchi, Y., Straquadine, J. A., Murthy, C., Kivelson, S. A., Singh, A. G., Fisher, I. R., Moler, K. A.
2024; 133 (3)
- **Nematic Metal in a Multivalley Electron Gas: Variational Monte Carlo Analysis and Application to AIAs**. *Physical review letters*
Valenti, A., Calvera, V., Kivelson, S. A., Berg, E., Huber, S. D.
2024; 132 (26): 266501
- **Nematic Metal in a Multivalley Electron Gas: Variational Monte Carlo Analysis and Application to AIAs** *PHYSICAL REVIEW LETTERS*
Valenti, A., Calvera, V., Kivelson, S. A., Berg, E., Huber, S. D.
2024; 132 (26)
- **Dynamical defects in a two-dimensional Wigner crystal: Self-doping and kinetic magnetism** *PHYSICAL REVIEW B*
Kim, K., Esterlis, I., Murthy, C., Kivelson, S. A.
2024; 109 (23)
- **Quantum Bipolaron Superconductivity from Quadratic Electron-Phonon Coupling**. *Physical review letters*
Han, Z., Kivelson, S. A., Volkov, P. A.
2024; 132 (22): 226001
- **Emergent tetragonality in a fundamentally orthorhombic material**. *Science advances*
Singh, A. G., Bachmann, M. D., Sanchez, J. J., Pandey, A., Kapitulnik, A., Kim, J. W., Ryan, P. J., Kivelson, S. A., Fisher, I. R.
2024; 10 (21): eadk3321
- **Thermal transport measurements through the charge density wave transition in CsV₃Sb₅** *PHYSICAL REVIEW B*
Kountz, E. D., Murthy, C. R., Chen, D., Ye, L., Zic, M. P., Felser, C., Fisher, I. R., Kivelson, S. A., Kapitulnik, A.
2024; 109 (20)
- **The high price of overzealously defending the US research enterprise against theft by China**. *Proceedings of the National Academy of Sciences of the United States of America*

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- Kivelson, S. A., Michelson, P. F.
2023; 120 (48): e2314168120
- **Emergent Z2 symmetry near a charge density wave multicritical point** *PHYSICAL REVIEW B*
Kivelson, S. A., Pandey, A., Singh, A. G., Kapitulnik, A., Fisher, I. R.
2023; 108 (20)
 - **Two-fluid theory of composite bosons and fermions and the quantum Hall proximity effect** *PHYSICAL REVIEW B*
Han, Z., Kim, K., Kivelson, S. A., Hansson, T.
2023; 108 (19)
 - **Superconducting valence bond fluid in lightly doped eight-leg t-J cylinders** *PHYSICAL REVIEW B*
Jiang, H., Kivelson, S. A., Lee, D.
2023; 108 (5)
 - **Multiband mean-field theory of the d plus ig superconductivity scenario in Sr2RuO4** *PHYSICAL REVIEW B*
Yuan, A. C., Berg, E., Kivelson, S. A.
2023; 108 (1)
 - **Pseudo-spin order of Wigner crystals in multi-valley electron gases** *LOW TEMPERATURE PHYSICS*
Calvera, V., Kivelson, S. A. A., Berg, E.
2023; 49 (6): 679-700
 - **50 years of quantum spin liquids** *NATURE REVIEWS PHYSICS*
Kivelson, S., Sondhi, S.
2023
 - **Absence of a BCS-BEC crossover in the cuprate superconductors** *NPJ QUANTUM MATERIALS*
Sous, J., He, Y., Kivelson, S. A.
2023; 8 (1)
 - **Resonating Valence Bond States in an Electron-Phonon System.** *Physical review letters*
Han, Z., Kivelson, S. A.
2023; 130 (18): 186404
 - **One-dimensional Holstein model revisited** *PHYSICAL REVIEW B*
Zhao, S., Han, Z., Kivelson, S. A., Esterlis, I.
2023; 107 (7)
 - **How quantum phases on cylinders approach the two-dimensional limit** *PHYSICAL REVIEW B*
Gannot, Y., Kivelson, S. A.
2023; 107 (7)
 - **A stability bound on the [Formula: see text]-linear resistivity of conventional metals.** *Proceedings of the National Academy of Sciences of the United States of America*
Murthy, C., Pandey, A., Esterlis, I., Kivelson, S. A.
2023; 120 (3): e2216241120
 - **Interstitial-Induced Ferromagnetism in a Two-Dimensional Wigner Crystal.** *Physical review letters*
Kim, K. S., Murthy, C., Pandey, A., Kivelson, S. A.
2022; 129 (22): 227202
 - **Large extrinsic phonon thermal Hall effect from resonant scattering** *PHYSICAL REVIEW B*
Sun, X., Chen, J., Kivelson, S. A.
2022; 106 (14)
 - **Heuristic bounds on superconductivity and how to exceed them** *NPJ QUANTUM MATERIALS*
Hofmann, J. S., Chowdhury, D., Kivelson, S. A., Berg, E.
2022; 7 (1)

- **Quantum critical fluctuations in an Fe-based superconductor** *COMMUNICATIONS PHYSICS*
Jost, D., Peis, L., He, G., Baum, A., Gepraegs, S., Palmstrom, J. C., Ikeda, M. S., Fisher, I. R., Wolf, T., Lederer, S., Kivelson, S. A., Hackl, R.
2022; 5 (1)
- **Correlated Hofstadter spectrum and flavour phase diagram in magic-angle twisted bilayer graphene** *NATURE PHYSICS*
Yu, J., Foutty, B. A., Han, Z., Barber, M. E., Schattner, Y., Watanabe, K., Taniguchi, T., Phillips, P., Shen, Z., Kivelson, S. A., Feldman, B. E.
2022
- **Generic character of charge and spin density waves in superconducting cuprates.** *Proceedings of the National Academy of Sciences of the United States of America*
Lee, S., Huang, E. W., Johnson, T. A., Guo, X., Husain, A. A., Mitrano, M., Lu, K., Zakrzewski, A. V., de la Peña, G. A., Peng, Y., Huang, H., Lee, S. J., Jang, et al
2022; 119 (15): e2119429119
- **Pair density wave and reentrant superconducting tendencies originating from valley polarization** *PHYSICAL REVIEW B*
Han, Z., Kivelson, S. A.
2022; 105 (10)
- **Pair-density-wave in the strong coupling limit of the Holstein-Hubbard model** *NPJ QUANTUM MATERIALS*
Huang, K. S., Han, Z., Kivelson, S. A., Yao, H.
2022; 7 (1)
- **Stripe order enhanced superconductivity in the Hubbard model.** *Proceedings of the National Academy of Sciences of the United States of America*
Jiang, H., Kivelson, S. A.
1800; 119 (1)
- **The Hubbard Model** *ANNUAL REVIEW OF CONDENSED MATTER PHYSICS*
Arovas, D. P., Berg, E., Kivelson, S. A., Raghu, S.
2022; 13: 239-274
- **Elastocaloric signature of nematic fluctuations.** *Proceedings of the National Academy of Sciences of the United States of America*
Ikeda, M. S., Worasaran, T., Rosenberg, E. W., Palmstrom, J. C., Kivelson, S. A., Fisher, I. R.
2021; 118 (37)
- **High Temperature Superconductivity in a Lightly Doped Quantum Spin Liquid** *PHYSICAL REVIEW LETTERS*
Jiang, H., Kivelson, S. A.
2021; 127 (9)
- **High Temperature Superconductivity in a Lightly Doped Quantum Spin Liquid.** *Physical review letters*
Jiang, H. C., Kivelson, S. A.
2021; 127 (9): 097002
- **Strain-induced time reversal breaking and half quantum vortices near a putative superconducting tetracritical point in Sr₂RuO₄** *PHYSICAL REVIEW B*
Yuan, A. C., Berg, E., Kivelson, S. A.
2021; 104 (5)
- **Nematic antiferromagnetism and deconfined criticality from the interplay between electron-phonon and electron-electron interactions** *PHYSICAL REVIEW B*
Wang, C., Schattner, Y., Kivelson, S. A.
2021; 104 (8)
- **Superconductor-to-metal transition in overdoped cuprates** *NPJ QUANTUM MATERIALS*
Li, Z., Kivelson, S. A., Lee, D.
2021; 6 (1)
- **The quantum Hall effect in the absence of disorder** *NPJ QUANTUM MATERIALS*
Kim, K., Kivelson, S. A.
2021; 6 (1)

- **Npj Quantum Materials as a symbol of international scientific cooperation** *NPJ QUANTUM MATERIALS*
Kivelson, S.
2021; 6 (1): 0
- **Discovery of an insulating ferromagnetic phase of electrons in two dimensions.** *Proceedings of the National Academy of Sciences of the United States of America*
Kim, K., Kivelson, S. A.
2021; 118 (2)
- **Nematic quantum criticality in an Fe-based superconductor revealed by strain-tuning.** *Science (New York, N.Y.)*
Worasaran, T., Ikeda, M. S., Palmstrom, J. C., Straquadine, J. A., Kivelson, S. A., Fisher, I. R.
2021; 372 (6545): 973-977
- **Robust superconductivity intertwined with charge density wave and disorder in Pd-intercalated ErTe₃** *PHYSICAL REVIEW RESEARCH*
Fang, A., Singh, A. G., Straquadine, J. A. W., Fisher, I. R., Kivelson, S. A., Kapitulnik, A.
2020; 2 (4)
- **Strong Coupling Limit of the Holstein-Hubbard Model.** *Physical review letters*
Han, Z., Kivelson, S. A., Yao, H.
2020; 125 (16): 167001
- **Strong Coupling Limit of the Holstein-Hubbard Model** *PHYSICAL REVIEW LETTERS*
Han, Z., Kivelson, S. A., Yao, H.
2020; 125 (16)
- **Hubbard ladders at small U revisited** *PHYSICAL REVIEW B*
Gannot, Y., Jiang, Y., Kivelson, S. A.
2020; 102 (11)
- **A proposal for reconciling diverse experiments on the superconducting state in Sr₂RuO₄** *NPJ QUANTUM MATERIALS*
Kivelson, S., Yuan, A., Ramshaw, B., Thomale, R.
2020; 5 (1)
- **Eliashberg theory of phonon-mediated superconductivity - When it is valid and how it breaks down** *ANNALS OF PHYSICS*
Chubukov, A., Abanov, A., Esterlis, I., Kivelson, S. A.
2020; 417
- **Phases of frustrated quantum antiferromagnets on the square and triangular lattices** *PHYSICAL REVIEW B*
Yu, Y., Kivelson, S. A.
2020; 101 (21)
- **Enhanced Thermal Hall Effect in Nearly Ferroelectric Insulators.** *Physical review letters*
Chen, J. Y., Kivelson, S. A., Sun, X. Q.
2020; 124 (16): 167601
- **Enhanced Thermal Hall Effect in Nearly Ferroelectric Insulators** *PHYSICAL REVIEW LETTERS*
Chen, J., Kivelson, S. A., Sun, X.
2020; 124 (16)
- **The Physics of Pair-Density Waves: Cuprate Superconductors and Beyond** *ANNUAL REVIEW OF CONDENSED MATTER PHYSICS, VOL 11, 2020*
Agterberg, D. F., Davis, J., Edkins, S. D., Fradkin, E., Van Harlingen, D. J., Kivelson, S. A., Lee, P. A., Radzihovsky, L., Tranquada, J. M., Wang, Y.
edited by Marchetti, M. C., Mackenzie, A. P.
2020; 11: 231-70
- **Disorder-induced suppression of charge density wave order: STM study of Pd-intercalated ErTe₃** *PHYSICAL REVIEW B*
Fang, A., Straquadine, J. A. W., Fisher, I. R., Kivelson, S. A., Kapitulnik, A.
2019; 100 (23)
- **Physics of Superconducting Transition Temperatures** *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*

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- Kivelson, S. A.
2019
- **John Robert Schrieffer (1931-2019).** *Science (New York, N.Y.)*
Scalapino, D., Kivelson, S. A.
2019; 365 (6459): 1253
 - **John Robert Schrieffer (1931-2019) SCIENCE**
Scalapino, D., Kivelson, S.
2019; 365 (6459): 1253
 - **Fermi surface reconstruction by a charge density wave with finite correlation length** *PHYSICAL REVIEW B*
Gannot, Y., Ramshaw, B. J., Kivelson, S. A.
2019; 100 (4)
 - **Shoucheng Zhang (1963-2018) OBITUARY NATURE**
Kivelson, S.
2019; 565 (7741): 568
 - **Colloquium: Anomalous metals: Failed superconductors** *REVIEWS OF MODERN PHYSICS*
Kapitulnik, A., Kivelson, S. A., Spivak, B.
2019; 91 (1)
 - **Generalization of Anderson's theorem for disordered superconductors** *PHYSICAL REVIEW B*
Dodaro, J. F., Kivelson, S. A.
2018; 98 (17)
 - **Superconductivity in the doped $t - J$ model: Results for four-leg cylinders** *PHYSICAL REVIEW B*
Jiang, H., Weng, Z., Kivelson, S. A.
2018; 98 (14)
 - **Spatially modulated susceptibility in thin film $\text{La}_{2-x}\text{BaxCuO}_4$** *PHYSICAL REVIEW B*
Davis, S. I., Ullah, R. R., Adamo, C., Watson, C. A., Kirtley, J. R., Beasley, M. R., Kivelson, S. A., Moler, K. A.
2018; 98 (1)
 - **Pair density waves in superconducting vortex halos** *PHYSICAL REVIEW B*
Wang, Y., Edkins, S. D., Hamidian, M. H., Davis, J., Fradkin, E., Kivelson, S. A.
2018; 97 (17)
 - **Understanding complexity** *NATURE PHYSICS*
Kivelson, S., Kivelson, S.
2018; 14 (5): 426–27
 - **Transverse fields to tune an Ising-nematic quantum phase transition** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Maharaj, A. V., Rosenberg, E. W., Hristov, A. T., Berg, E., Fernandes, R. M., Fisher, I. R., Kivelson, S. A.
2017; 114 (51): 13430–34
 - **Superconductivity in engineered two-dimensional electron gases** *PHYSICAL REVIEW B*
Chubukov, A. V., Kivelson, S. A.
2017; 96 (17)
 - **Avoided criticality and slow relaxation in frustrated two-dimensional models** *PHYSICAL REVIEW B*
Esterlis, I., Kivelson, S. A., Tarjus, G.
2017; 96 (14)
 - **Non-quasiparticle transport and resistivity saturation: a view from the large- N limit (vol 2, 58, 2017)** *NPJ QUANTUM MATERIALS*
Werman, Y., Kivelson, S. A., Berg, E.
2017; 2

- **Time to fix science prizes** *NATURE PHYSICS*
Sondhi, S., Kivelson, S.
2017; 13 (9): 822
- **Vestigial nematicity from spin and/or charge order in the cuprates** *PHYSICAL REVIEW B*
Nie, L., Maharaj, A. V., Fradkin, E., Kivelson, S. A.
2017; 96 (8)
- **Fractional charge and emergent mass hierarchy in diagonal two-leg t-J cylinders** *PHYSICAL REVIEW B*
Jiang, Y., Jiang, H., Yao, H., Kivelson, S. A.
2017; 95 (24)
- **Charge-4e superconductors: A Majorana quantum Monte Carlo study** *PHYSICAL REVIEW B*
Jiang, Y., Li, Z., Kivelson, S. A., Yao, H.
2017; 95 (24)
- **Superconductivity and non-Fermi liquid behavior near a nematic quantum critical point** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lederer, S., Schattner, Y., Berg, E., Kivelson, S. A.
2017; 114 (19): 4905-4910
- **Intertwined order in a frustrated four-leg t - J cylinder** *PHYSICAL REVIEW B*
Dodaro, J. F., Jiang, H., Kivelson, S. A.
2017; 95 (15)
- **Non-quasiparticle transport and resistivity saturation: a view from the large-N limit** *NPJ QUANTUM MATERIALS*
Werman, Y., Kivelson, S. A., Berg, E.
2017; 2
- **Ideal charge-density-wave order in the high-field state of superconducting YBCO** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Jang, H., Lee, W., Nojiri, H., Matsuzawa, S., Yasumura, H., Nie, L., Maharaj, A. V., Gerber, S., Liu, Y., Mehta, A., Bonn, D. A., Liang, R., Hardy, et al
2016; 113 (51): 14645-14650
- **Defining emergence in physics** *NPJ QUANTUM MATERIALS*
Kivelson, S., Kivelson, S. A.
2016; 1
- **Ising Nematic Quantum Critical Point in a Metal: A Monte Carlo Study** *PHYSICAL REVIEW X*
Schattner, Y., Lederer, S., Kivelson, S. A., Berg, E.
2016; 6 (3)
- **Why do we need another journal?** *NPJ QUANTUM MATERIALS*
Kivelson, S.
2016; 1
- **Cold-spots and glassy nematicity in underdoped cuprates** *PHYSICAL REVIEW B*
Lee, K., Kivelson, S. A., Kim, E.
2016; 94 (1)
- **What really happens in strongly correlated superconductors: insights from a quantum Monte-Carlo study of high temperature superconductivity in FeSe films** *SCIENCE BULLETIN*
Kivelson, S. A.
2016; 61 (12): 911-13
- **Ubiquitous signatures of nematic quantum criticality in optimally doped Fe-based superconductors** *SCIENCE*
Kuo, H., Chu, J., Palmstrom, J. C., Kivelson, S. A., Fisher, I. R.
2016; 352 (6288): 958-962
- **Electronic pair binding and Hund's rule violations in doped C-60** *PHYSICAL REVIEW B*

- Jiang, H., Kivelson, S.
2016; 93 (16)
- **Necessity of Time-Reversal Symmetry Breaking for the Polar Kerr Effect in Linear Response.** *Physical review letters*
Cho, W., Kivelson, S. A.
2016; 116 (9): 093903-?
 - **Quantum oscillations in a bilayer with broken mirror symmetry: A minimal model for YBa₂Cu₃O_{6+δ}** *PHYSICAL REVIEW B*
Maharaj, A. V., Zhang, Y., Ramshaw, B. J., Kivelson, S. A.
2016; 93 (9)
 - **Vestigial chiral and charge orders from bidirectional spin-density waves: Application to the iron-based superconductors** *PHYSICAL REVIEW B*
Fernandes, R. M., Kivelson, S. A., Berg, E.
2016; 93 (1)
 - **Self-duality and a Hall-insulator phase near the superconductor-to-insulator transition in indium-oxide films** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Breznay, N. P., Steiner, M. A., Kivelson, S. A., Kapitulnik, A.
2016; 113 (2): 280-285
 - **Self-duality and a Hall-insulator phase near the superconductor-to-insulator transition in indium-oxide films.** *Proceedings of the National Academy of Sciences of the United States of America*
Breznay, N. P., Steiner, M. A., Kivelson, S. A., Kapitulnik, A.
2016; 113 (2): 280-5
 - **Three-dimensional charge density wave order in YBa₂Cu₃O_{6.67} at high magnetic fields** *SCIENCE*
Gerber, S., Jang, H., Nojiri, H., Matsuzawa, S., Yasumura, H., Bonn, D. A., Liang, R., Hardy, W. N., Islam, Z., Mehta, A., Song, S., Sikorski, M., Stefanescu, et al
2015; 350 (6263): 949-952
 - **Fluctuating orders and quenched randomness in the cuprates** *PHYSICAL REVIEW B*
Nie, L., Sierens, L. E., Melko, R. G., Sachdev, S., Kivelson, S. A.
2015; 92 (17)
 - **Macroscopic character of composite high-temperature superconducting wires** *PHYSICAL REVIEW B*
Kivelson, S. A., Spivak, B.
2015; 92 (18)
 - **Nematicity and quantum paramagnetism in FeSe** *NATURE PHYSICS*
Wang, F., Kivelson, S. A., Lee, D.
2015; 11 (11): 959-963
 - **One Hole in the Two-Leg t-J Ladder and Adiabatic Continuity to the Noninteracting Limit** *PHYSICAL REVIEW LETTERS*
White, S. R., Scalapino, D. J., Kivelson, S. A.
2015; 115 (5)
 - **Colloquium: Theory of intertwined orders in high temperature superconductors** *REVIEWS OF MODERN PHYSICS*
Fradkin, E., Kivelson, S. A., Tranquada, J. M.
2015; 87 (2): 457-482
 - **Enhancement of Superconductivity near a Nematic Quantum Critical Point** *PHYSICAL REVIEW LETTERS*
Lederer, S., Schattner, Y., Berg, E., Kivelson, S. A.
2015; 114 (9)
 - **From quantum matter to high-temperature superconductivity in copper oxides** *NATURE*
Keimer, B., Kivelson, S. A., Norman, M. R., Uchida, S., Zaanen, J.
2015; 518 (7538): 179-186
 - **Disruption of quantum oscillations by an incommensurate charge density wave** *PHYSICAL REVIEW B*
Zhang, Y., Maharaj, A. V., Kivelson, S.

2015; 91 (8)

- **Coherent transmutation of electrons into fractionalized anyons** *SCIENCE*
Barkeshli, M., Berg, E., Kivelson, S.
2014; 346 (6210): 722-725
- **Coherent transmutation of electrons into fractionalized anyons.** *Science*
Barkeshli, M., Berg, E., Kivelson, S.
2014; 346 (6210): 722-725
- **Quenched disorder and vestigial nematicity in the pseudogap regime of the cuprates** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Nie, L., Tarjus, G., Kivelson, S. A.
2014; 111 (22): 7980-7985
- **Quenched disorder and vestigial nematicity in the pseudogap regime of the cuprates.** *Proceedings of the National Academy of Sciences of the United States of America*
Nie, L., Tarjus, G., Kivelson, S. A.
2014; 111 (22): 7980-7985
- **Correlations and renormalization of the electron-phonon coupling in the honeycomb Hubbard ladder and superconductivity in polyacene** *PHYSICAL REVIEW B*
Karakonstantakis, G., Liu, L., Thomale, R., Kivelson, S. A.
2013; 88 (22)
- **Evidence from tunneling spectroscopy for a quasi-one-dimensional origin of superconductivity in Sr₂RuO₄** *PHYSICAL REVIEW B*
Firmo, I. A., Lederer, S., Lupien, C., Mackenzie, A. P., Davis, J. C., Kivelson, S. A.
2013; 88 (13)
- **Field theory of the quantum Hall nematic transition** *PHYSICAL REVIEW B*
Maciejko, J., Hsu, B., Kivelson, S. A., Park, Y., Sondhi, S. L.
2013; 88 (12)
- **Band structure effects on the superconductivity in Hubbard models** *PHYSICAL REVIEW B*
Cho, W., Thomale, R., Raghu, S., Kivelson, S. A.
2013; 88 (6)
- **Gapless spin liquids: Stability and possible experimental relevance** *PHYSICAL REVIEW B*
Barkeshli, M., Yao, H., Kivelson, S. A.
2013; 87 (14)
- **Kerr effect as evidence of gyrotropic order in the cuprates** *PHYSICAL REVIEW B*
Hosur, P., Kapitulnik, A., Kivelson, S. A., Orenstein, J., Raghu, S.
2013; 87 (11)
- **Microscopic Model of Quasiparticle Wave Packets in Superfluids, Superconductors, and Paired Hall States** *PHYSICAL REVIEW LETTERS*
Parameswaran, S. A., Kivelson, S. A., Shankar, R., Sondhi, S. L., Spivak, B. Z.
2012; 109 (23)
- **HIGH-TEMPERATURE SUPERCONDUCTIVITY Ineluctable complexity** *NATURE PHYSICS*
Fradkin, E., Kivelson, S. A.
2012; 8 (12): 864–66
- **Charge and spin collective modes in a quasi-one-dimensional model of Sr₂RuO₄** *PHYSICAL REVIEW B*
Chung, S. B., Raghu, S., Kapitulnik, A., Kivelson, S. A.
2012; 86 (6)
- **Typology for quantum Hall liquids** *PHYSICAL REVIEW B*
Parameswaran, S. A., Kivelson, S. A., Rezayi, E. H., Simon, S. H., Sondhi, S. L., Spivak, B. Z.
2012; 85 (24)

- **Exact Spin Liquid Ground States of the Quantum Dimer Model on the Square and Honeycomb Lattices** *PHYSICAL REVIEW LETTERS*
Yao, H., Kivelson, S. A.
2012; 108 (24)
- **The weakly coupled Pfaffian as a type I quantum hall liquid** *International Workshop on Electronic Crystals (ECRYS)*
Parameswaran, S. A., Kivelson, S. A., Sondhi, S. L., Spivak, B. Z.
ELSEVIER SCIENCE BV.2012: 1937–38
- **Observable NMR signal from circulating current order in YBCO** *PHYSICAL REVIEW B*
Lederer, S., Kivelson, S. A.
2012; 85 (15)
- **Pressure effects on magnetically driven electronic nematic states in iron pnictide superconductors** *PHYSICAL REVIEW B*
Hu, J., Setty, C., Kivelson, S.
2012; 85 (10)
- **Phases of the Infinite U Hubbard Model on Square Lattices** *PHYSICAL REVIEW LETTERS*
Liu, L., Yao, H., Berg, E., White, S. R., Kivelson, S. A.
2012; 108 (12)
- **Electronic liquid crystalline phases in a spin-orbit coupled two-dimensional electron gas** *PHYSICAL REVIEW B*
Berg, E., Rudner, M. S., Kivelson, S. A.
2012; 85 (3)
- **Effects of longer-range interactions on unconventional superconductivity** *PHYSICAL REVIEW B*
Raghu, S., Berg, E., Chubukov, A. V., Kivelson, S. A.
2012; 85 (2)
- **Thermodynamics of phase formation in the quantum critical metal Sr₃Ru₂O₇** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Rost, A. W., Grigera, S. A., Bruin, J. A., Perry, R. S., Tian, D., Raghu, S., Kivelson, S. A., Mackenzie, A. P.
2011; 108 (40): 16549-16553
- **Fermi-surface reconstruction in a smectic phase of a high-temperature superconductor** *PHYSICAL REVIEW B*
Yao, H., Lee, D., Kivelson, S.
2011; 84 (1)
- **Hydrodynamic Description of Transport in Strongly Correlated Electron Systems** *PHYSICAL REVIEW LETTERS*
Andreev, A. V., Kivelson, S. A., Spivak, B.
2011; 106 (25)
- **Weakly Coupled Pfaffian as a Type I Quantum Hall Liquid** *PHYSICAL REVIEW LETTERS*
Parameswaran, S. A., Kivelson, S. A., Sondhi, S. L., Spivak, B. Z.
2011; 106 (23)
- **From a Single-Band Metal to a High-Temperature Superconductor via Two Thermal Phase Transitions** *SCIENCE*
He, R., Hashimoto, M., Karapetyan, H., Koralek, J. D., Hinton, J. P., Testaud, J. P., Nathan, V., Yoshida, Y., Yao, H., Tanaka, K., Meevasana, W., Moore, R. G., Lu, et al
2011; 331 (6024): 1579-1583
- **Superconductivity from repulsive interactions in the two-dimensional electron gas** *PHYSICAL REVIEW B*
Raghu, S., Kivelson, S. A.
2011; 83 (9)
- **Enhanced pairing in the checkerboard Hubbard ladder** *PHYSICAL REVIEW B*
Karakonstantakis, G., Berg, E., White, S. R., Kivelson, S. A.
2011; 83 (5)
- **Local interlayer tunneling between two-dimensional electron systems in the ballistic regime** *PHYSICAL REVIEW B*
Luna, K., Kim, E., Oreto, P., Kivelson, S. A., Goldhaber-Gordon, D.

2010; 82 (23)

- **Entropy-driven formation of a half-quantum vortex lattice** *PHYSICAL REVIEW B*
Chung, S. B., Kivelson, S. A.
2010; 82 (21)
- **Fragile Mott Insulators** *PHYSICAL REVIEW LETTERS*
Yao, H., Kivelson, S. A.
2010; 105 (16)
- **Pair-Density-Wave Correlations in the Kondo-Heisenberg Model** *PHYSICAL REVIEW LETTERS*
Berg, E., Fradkin, E., Kivelson, S. A.
2010; 105 (14)
- **Hidden Quasi-One-Dimensional Superconductivity in Sr₂RuO₄** *PHYSICAL REVIEW LETTERS*
Raghu, S., Kapitulnik, A., Kivelson, S. A.
2010; 105 (13)
- **Nematic valley ordering in quantum Hall systems** *PHYSICAL REVIEW B*
Abanin, D. A., Parameswaran, S. A., Kivelson, S. A., Sondhi, S. L.
2010; 82 (3)
- **Superconductivity in the repulsive Hubbard model: An asymptotically exact weak-coupling solution** *PHYSICAL REVIEW B*
Raghu, S., Kivelson, S. A., Scalapino, D. J.
2010; 81 (22)
- **Colloquium: Transport in strongly correlated two dimensional electron fluids** *REVIEWS OF MODERN PHYSICS*
Spivak, B., Kravchenko, S. V., Kivelson, S. A., Gao, X. P.
2010; 82 (2): 1743-1766
- **Properties of a diagonal two-orbital ladder model of the iron pnictide superconductors** *PHYSICAL REVIEW B*
Berg, E., Kivelson, S. A., Scalapino, D. J.
2010; 81 (17)
- **Electron Nematic Phases Proliferate** *SCIENCE*
Fradkin, E., Kivelson, S. A.
2010; 327 (5962): 155–56
- **Nematic Fermi Fluids in Condensed Matter Physics** *ANNUAL REVIEW OF CONDENSED MATTER PHYSICS, VOL 1*
Fradkin, E., Kivelson, S. A., Lawler, M. J., Eisenstein, J. P., Mackenzie, A. P.
2010; 1: 153-178
- **Striped superconductors: how spin, charge and superconducting orders intertwine in the cuprates** *NEW JOURNAL OF PHYSICS*
Berg, E., Fradkin, E., Kivelson, S. A., Tranquada, J. M.
2009; 11
- **Charge-4e superconductivity from pair-density-wave order in certain high-temperature superconductors** *NATURE PHYSICS*
Berg, E., Fradkin, E., Kivelson, S. A.
2009; 5 (11): 830-833
- **A twisted ladder: relating the Fe superconductors to the high-Tc cuprates** *NEW JOURNAL OF PHYSICS*
Berg, E., Kivelson, S. A., Scalapino, D. J.
2009; 11
- **Topological Insulators and Nematic Phases from Spontaneous Symmetry Breaking in 2D Fermi Systems with a Quadratic Band Crossing** *PHYSICAL REVIEW LETTERS*
Sun, K., Yao, H., Fradkin, E., Kivelson, S. A.
2009; 103 (4)
- **Microscopic theory of the nematic phase in Sr₃Ru₂O₇** *PHYSICAL REVIEW B*
Raghu, S., Paramakanti, A., Kim, E. A., Borzi, R. A., Grigera, S. A., Mackenzie, A. P., Kivelson, S. A.

2009; 79 (21)

- **Algebraic Spin Liquid in an Exactly Solvable Spin Model** *PHYSICAL REVIEW LETTERS*
Yao, H., Zhang, S., Kivelson, S. A.
2009; 102 (21)
- **d-Wave to s-wave to normal metal transitions in disordered superconductors** *5th International Workshop on Electronic Crystals (ECRYS-2008)*
Spivak, B., Oreto, P., Kivelson, S. A.
ELSEVIER SCIENCE BV.2009: 462–65
- **Theory of the striped superconductor** *PHYSICAL REVIEW B*
Berg, E., Fradkin, E., Kivelson, S. A.
2009; 79 (6)
- **d-wave to s-wave to normal metal transitions in disordered superconductors** *Landau Memorial Conference on Advances in Theoretical Physics*
Spivak, B., Oreto, P., Kivelson, S. A.
AMER INST PHYSICS.2009: 89–93
- **IRON-BASED SUPERCONDUCTORS Unity or diversity?** *NATURE MATERIALS*
Kivelson, S. A., Yao, H.
2008; 7 (12): 927-928
- **In search of a theory of supercooled liquids** *NATURE MATERIALS*
Kivelson, S. A., Tarjus, G.
2008; 7 (11): 831–33
- **Route to high-temperature superconductivity in composite systems** *PHYSICAL REVIEW B*
Berg, E., Orgad, D., Kivelson, S. A.
2008; 78 (9)
- **Theory of quantum metal to superconductor transitions in highly conducting systems** *PHYSICAL REVIEW B*
Spivak, B., Oreto, P., Kivelson, S. A.
2008; 77 (21)
- **Theory of electron nematic order in LaFeAsO** *PHYSICAL REVIEW B*
Fang, C., Yao, H., Tsai, W., Hu, J., Kivelson, S. A.
2008; 77 (22)
- **Optimal inhomogeneity for superconductivity: Finite-size studies** *PHYSICAL REVIEW B*
Tsai, W., Yao, H., Laeuchli, A., Kivelson, S. A.
2008; 77 (21)
- **Theory of the nodal nematic quantum phase transition in superconductors** *PHYSICAL REVIEW B*
Kim, E., Lawler, M. J., Oreto, P., Sachdev, S., Fradkin, E., Kivelson, S. A.
2008; 77 (18)
- **Polar Kerr-effect measurements of the high-temperature YBa₂Cu₃O_{6+x} superconductor: Evidence for broken symmetry near the pseudogap temperature** *PHYSICAL REVIEW LETTERS*
Xia, J., Schemm, E., Deutscher, G., Kivelson, S. A., Bonn, D. A., Hardy, W. N., Liang, R., Siemons, W., Koster, G., Fejer, M. M., Kapitulnik, A.
2008; 100 (12)
- **Stability of nodal quasiparticles in superconductors with coexisting orders** *PHYSICAL REVIEW LETTERS*
Berg, E., Chen, C., Kivelson, S. A.
2008; 100 (2)
- **Exact chiral spin liquid with non-Abelian anyons** *PHYSICAL REVIEW LETTERS*
Yao, H., Kivelson, S. A.
2007; 99 (24)
- **Superconductivity in zigzag CuO chains** *PHYSICAL REVIEW B*

-
- Berg, E., Geballe, T. H., Kivelson, S. A.
2007; 76 (21)
- **Myriad phases of the checkerboard Hubbard model** *PHYSICAL REVIEW B*
Yao, H., Tsai, W., Kivelson, S. A.
2007; 76 (16)
 - **Dynamical layer decoupling in a stripe-ordered High-T-c superconductor** *PHYSICAL REVIEW LETTERS*
Berg, E., Fradkin, E., Kim, E., Kivelson, S. A., Oganessian, V., Tranquada, J. M., Zhang, S. C.
2007; 99 (12)
 - **On the absence of ferromagnetism in typical 2D ferromagnets** *COMMUNICATIONS IN MATHEMATICAL PHYSICS*
Biskup, M., Chayes, L., Kivelson, S. A.
2007; 274 (1): 217-231
 - **Electron nematic phase in a transition metal oxide** *SCIENCE*
Fradkin, E., Kivelson, S. A., Oganessian, V.
2007; 315 (5809): 196–97
 - **Theory of stripes in quasi-two-dimensional rare-earth tellurides** *PHYSICAL REVIEW B*
Yao, H., Robertson, J. A., Kim, E., Kivelson, S. A.
2006; 74 (24)
 - **Inferring effective interactions from the local density of states: Application to STM data from Bi2Sr2CaCu2O8+delta** *PHYSICAL REVIEW B*
Jamei, R., Robertson, J., Kim, E., Fang, A., Kapitulnik, A., Kivelson, S. A.
2006; 74 (17)
 - **Distinguishing patterns of charge order: Stripes or checkerboards** *PHYSICAL REVIEW B*
Robertson, J. A., Kivelson, S. A., Fradkin, E., Fang, A. C., Kapitulnik, A.
2006; 74 (13)
 - **Transport in two dimensional electronic micro-emulsions** *ANNALS OF PHYSICS*
Spivak, B., Kivelson, S. A.
2006; 321 (9): 2071-2115
 - **Magnetic model of the tetragonal-orthorhombic transition in the cuprates** *PHYSICAL REVIEW B*
Fang, C., Hu, J., Kivelson, S., Brown, S.
2006; 74 (9)
 - **Superconductivity in inhomogeneous Hubbard models** *PHYSICAL REVIEW B*
Tsai, W., Kivelson, S. A.
2006; 73 (21)
 - **Superconducting materials: Superconductivity on the verge of catastrophe** *NATURE MATERIALS*
Kivelson, S. A.
2006; 5 (5): 343–44
 - **Hysteresis and noise from electronic nematicity in high-temperature superconductors** *PHYSICAL REVIEW LETTERS*
Carlson, E. W., Dahmen, K. A., Fradkin, E., Kivelson, S. A.
2006; 96 (9)
 - **Gap-inhomogeneity-induced electronic states in superconducting Bi2Sr2CaCu2O8+delta** *PHYSICAL REVIEW LETTERS*
Fang, A. C., Capriotti, L., Scalapino, D. J., Kivelson, S. A., Kaneko, N., Greven, M., Kapitulnik, A.
2006; 96 (1)
 - **The frustration-based approach of supercooled liquids and the glass transition: a review and critical assessment** *JOURNAL OF PHYSICS-CONDENSED MATTER*
Tarjus, G., Kivelson, S. A., Nussinov, Z., Viot, P.
2005; 17 (50): R1143-R1182

- **Transport in two dimensional electronic micro-emulsions** *International Workshop on Electronic Crystals (ECRYS-2005)*
Spivak, B., Kivelson, S.
EDP SCIENCES S A.2005: 255–256
- **Enhancement of superconductivity by local inhomogeneities** *PHYSICAL REVIEW B*
Martin, I., Podolsky, D., Kivelson, S. A.
2005; 72 (6)
- **Drag resistance of two-dimensional electronic microemulsions** *PHYSICAL REVIEW B*
Spivak, B., Kivelson, S. A.
2005; 72 (4)
- **Surface pinning of fluctuating charge order: An extraordinary surface phase transition** *PHYSICAL REVIEW B*
Brown, S. E., Fradkin, E., Kivelson, S. A.
2005; 71 (22)
- **Competition between charge-density waves and superconductivity in striped systems** *International Conference on Strongly Correlated Electron Systems (SCES 04)*
Arrigoni, E., Fradkin, E., Kivelson, S. A.
ELSEVIER SCIENCE BV.2005: 623–625
- **Universal aspects of coulomb-frustrated phase separation** *PHYSICAL REVIEW LETTERS*
Jamei, R., Kivelson, S., Spivak, B.
2005; 94 (5)
- **Spectral function of a Luttinger liquid coupled to phonons and angle-resolved photoemission measurements in the cuprate superconductors** *PHYSICAL REVIEW B*
Bindloss, I. P., Kivelson, S. A.
2005; 71 (1)
- **Phases intermediate between a two-dimensional electron liquid and Wigner crystal** *PHYSICAL REVIEW B*
Spivak, B., Kivelson, S. A.
2004; 70 (15)
- **Mechanism of high-temperature superconductivity in a striped Hubbard model** *PHYSICAL REVIEW B*
Arrigoni, E., Fradkin, E., Kivelson, S. A.
2004; 69 (21)
- **Quasi-one-dimensional dynamics and nematic phases in the two-dimensional Emery model** *PHYSICAL REVIEW B*
Kivelson, S. A., Fradkin, E., Geballe, T. H.
2004; 69 (14)
- **Incipient order in the t-j model at high temperatures** *PHYSICAL REVIEW LETTERS*
Pryadko, L. P., Kivelson, S. A., Zachar, O.
2004; 92 (6)
- **Order by disorder, without order, in a two-dimensional spin system with O(2) symmetry** *ANNALES HENRI POINCARÉ*
Biskup, M., Chayes, L., Kivelson, S. A.
2004; 5 (6): 1181-1205
- **Optimal inhomogeneity for superconductivity** *PHYSICAL REVIEW B*
Arrigoni, E., Kivelson, S. A.
2003; 68 (18)
- **How to detect fluctuating stripes in the high-temperature superconductors** *REVIEWS OF MODERN PHYSICS*
Kivelson, S. A., Bindloss, I. P., Fradkin, E., Oganessian, V., Tranquada, J. M., Kapitulnik, A., Howald, C.
2003; 75 (4): 1201-1241
- **Two classes of Mott insulator** *PHYSICAL REVIEW B*
Lee, D. H., Kivelson, S. A.

2003; 67 (2)

- **Stripes, electron fractionalization, and ARPES** *International Conference on Spectroscopies in Novel Superconductors (SNS 2001)*
Carlson, E. W., Orgad, D., Kivelson, S. A., Emery, V. J.
PERGAMON-ELSEVIER SCIENCE LTD.2002: 2213–18
- **Where do holes go in doped antiferromagnets and what is their relationship to superconductivity?** *International Conference on Spectroscopies in Novel Superconductors (SNS 2001)*
Arrigoni, E., Zacher, M. G., Eder, R., Hanke, W., Harju, A., Kivelson, S. A.
PERGAMON-ELSEVIER SCIENCE LTD.2002: 2207–12
- **Competing order in the mixed state of high-temperature superconductors** *PHYSICAL REVIEW B*
Kivelson, S. A., Lee, D. H., Fradkin, E., Oganesyan, V.
2002; 66 (14)
- **Spin-1 neutron resonance peak cannot account for electronic anomalies in the cuprate superconductors** *PHYSICAL REVIEW LETTERS*
Kee, H. Y., Kivelson, S. A., Aeppli, G.
2002; 88 (25)
- **Theory of the quantum Hall smectic phase. I. Low-energy properties of the quantum Hall smectic fixed point** *PHYSICAL REVIEW B*
Barci, D. G., Fradkin, E., Kivelson, S. A., Oganesyan, V.
2002; 65 (24)
- **Josephson tunneling spectroscopy of negative-U centers** *PHYSICAL REVIEW B*
Oganesyan, V., Kivelson, S., Geballe, T., Moyzhes, B.
2002; 65 (17)
- **Distribution of spectral weight in a system with disordered stripes** *PHYSICAL REVIEW B*
Granath, M., Oganesyan, V., Orgad, D., Kivelson, S. A.
2002; 65 (18)
- **Stripes and superconducting pairing in the t-J model with Coulomb interactions** *PHYSICAL REVIEW B*
Arrigoni, E., Harju, A. P., Hanke, W., Brendel, B., Kivelson, S. A.
2002; 65 (13)
- **Self-organized quasi-one dimensional structures in high-temperature superconductors: The stripe phase** *Spring Meeting of the Deutsche-Physikalische-Gesellschaft*
Arrigoni, E., Zacher, M. G., Eder, R., Hanke, W., Kivelson, S. A.
SPRINGER-VERLAG BERLIN.2002: 307–318
- **Quantum theory of a nematic Fermi fluid** *PHYSICAL REVIEW B*
Oganesyan, V., Kivelson, S. A., Fradkin, E.
2001; 64 (19)
- **Nodal quasiparticles in stripe ordered superconductors** *PHYSICAL REVIEW LETTERS*
Granath, M., Oganesyan, V., Kivelson, S. A., Fradkin, E., Emery, V. J.
2001; 87 (16)
- **Thermodynamics of the interplay between magnetism and high-temperature superconductivity** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Kivelson, S. A., Aeppli, G., Emery, V. J.
2001; 98 (21): 11903-11907
- **Electronic mechanism of superconductivity in the cuprates, C-60, and polyacenes** *PHYSICAL REVIEW B*
CHAKRAVARTY, S., Kivelson, S. A.
2001; 64 (6)
- **Evidence of electron fractionalization from photoemission spectra in the high temperature superconductors** *PHYSICAL REVIEW LETTERS*
Orgad, D., Kivelson, S. A., Carlson, E. W., Emery, V. J., Zhou, X. J., Shen, Z. X.
2001; 86 (19): 4362-4365

- **Effects of dissipation on quantum phase transitions** *PHYSICAL REVIEW B*
Kapitulnik, A., Mason, N., Kivelson, S. A., CHAKRAVARTY, S.
2001; 63 (12)
- **Quantum theory of the smectic metal state in stripe phases** *PHYSICAL REVIEW LETTERS*
Emery, V. J., Fradkin, E., Kivelson, S. A., Lubensky, T. C.
2000; 85 (10): 2160-2163
- **Dimensional crossover in quasi-one-dimensional and high-T-c superconductors** *PHYSICAL REVIEW B*
Carlson, E. W., Orgad, D., Kivelson, S. A., Emery, V. J.
2000; 62 (5): 3422-3437
- **Are there stripes in the ET materials?** *20th Anniversary of Organic Superconductivity*
Emery, V. J., Kivelson, S. A.
EDP SCIENCES S A.2000: 127-37
- **Charge inhomogeneity and high temperature superconductivity** *International Workshop on Inelastic X-ray Scattering*
Emery, V. J., Kivelson, S. A.
PERGAMON-ELSEVIER SCIENCE LTD.2000: 467-71
- **Nematic phase of the two-dimensional electron gas in a magnetic field** *PHYSICAL REVIEW LETTERS*
Fradkin, E., Kivelson, S. A., Manousakis, E., Nho, K.
2000; 84 (9): 1982-1985
- **Charge-ordered states in doped AFMs: Long-range "Casimir" attraction and instability** *2nd International Conference on Stripes and High Tc Superconductivity*
Hone, D. W., Kivelson, S., Pryadko, L. P.
KLUWER ACADEMIC/PLENUM PUBL.2000: 447-453
- **Microscopic theory of high-temperature superconductivity** *2nd International Conference on Stripes and High Tc Superconductivity*
Emery, V. J., Kivelson, S. A.
KLUWER ACADEMIC/PLENUM PUBL.2000: 69-75
- **Stripe liquid, crystal, and glass phases of doped antiferromagnets** *2nd International Conference on Stripes and High Tc Superconductivity*
Kivelson, S. A., Emery, V. J.
KLUWER ACADEMIC/PLENUM PUBL.2000: 91-100
- **Electronic structure of doped insulators and high temperature superconductivity** *International Conference on Physics and Chemistry of Molecular and Oxide Superconductors (MOS-99)*
Emery, V. J., Kivelson, S. A.
SPRINGER/PLENUM PUBLISHERS.1999: 189-98
- **Topological doping and the stability of stripe phases** *PHYSICAL REVIEW B*
Pryadko, L. P., Kivelson, S. A., Emery, V. J., Bazaliy, Y. B., Demler, E. A.
1999; 60 (10): 7541-7557
- **Stripe phases in high-temperature superconductors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Emery, V. J., Kivelson, S. A., Tranquada, J. M.
1999; 96 (16): 8814-8817
- **Avoided critical behavior in O(n) systems** *PHYSICAL REVIEW LETTERS*
Nussinov, Z., Rudnick, J., Kivelson, S. A., Chayes, L. N.
1999; 83 (3): 472-475
- **Classical phase fluctuations in high temperature superconductors** *PHYSICAL REVIEW LETTERS*
Carlson, E. W., Kivelson, S. A., Emery, V. J., Manousakis, E.
1999; 83 (3): 612-615
- **Classification and stability of phases of the multicomponent one-dimensional electron gas** *PHYSICAL REVIEW B*

- Emery, V. J., Kivelson, S. A., Zachar, O.
1999; 59 (24): 15641-15653
- **Wigner glass, spin liquids and the metal-insulator transition** *PHILOSOPHICAL MAGAZINE B-PHYSICS OF CONDENSED MATTER STATISTICAL MECHANICS ELECTRONIC OPTICAL AND MAGNETIC PROPERTIES*
Chakravarty, S., Kivelson, S., Nayak, C., Voelker, K.
1999; 79 (6): 859-868
 - **Liquid-crystal phases of quantum Hall systems** *PHYSICAL REVIEW B*
Fradkin, E., Kivelson, S. A.
1999; 59 (12): 8065-8072
 - **Local electronic structure and high temperature superconductivity.** *Conference on High Temperature Superconductivity*
Emery, V. J., Kivelson, S. A.
AMER INST PHYSICS.1999: 37-44
 - **Crossovers and phase coherence in cuprate superconductors** *International Conference on Spectroscopies in Novel Superconductors (SNS'97)*
Emery, V. J., Kivelson, S. A.
PERGAMON-ELSEVIER SCIENCE LTD.1998: 1705-10
 - **Instability of charge ordered states in doped antiferromagnets** *PHYSICAL REVIEW LETTERS*
Pryadko, L. P., Kivelson, S., Hone, D. W.
1998; 80 (25): 5651-5654
 - **Doped antiferromagnets in high dimension** *PHYSICAL REVIEW B*
Carlson, E. W., Kivelson, S. A., Nussinov, Z., Emery, V. J.
1998; 57 (23): 14704-14721
 - **Electronic liquid-crystal phases of a doped Mott insulator** *NATURE*
Kivelson, S. A., Fradkin, E., Emery, V. J.
1998; 393 (6685): 550-553
 - **Landau theory of stripe phases in cuprates and nickelates** *PHYSICAL REVIEW B*
Zachar, O., Kivelson, S. A., Emery, V. J.
1998; 57 (3): 1422-1426
 - **Spin-gap proximity effect mechanism of high-temperature superconductivity** *PHYSICAL REVIEW B*
Emery, V. J., Kivelson, S. A., Zachar, O.
1997; 56 (10): 6120-6147
 - **Pairing and phase coherence in high temperature superconductors** *International Conference on Materials and Mechanisms of Superconductivity - High Temperature Superconductors V*
Emery, V. J., Kivelson, S. A., Zachar, O.
ELSEVIER SCIENCE BV.1997: 174-177
 - **High-temperature pairing in stripes** *International Conference on Stripes, Lattice Stabilities, and High-Temperature Superconductivity*
Zachar, O., Kivelson, S. A., Emery, V. J.
SPRINGER/PLENUM PUBLISHERS.1997: 373-78
 - **Composite-fermion Hall conductance at $\nu=1/2$** *PHYSICAL REVIEW B*
Kivelson, S. A., Lee, D. H., Krotov, Y., Gan, J.
1997; 55 (23): 15552-15561
 - **Two point-contact interferometer for quantum Hall systems** *PHYSICAL REVIEW B*
Chamon, C. D., Freed, D. E., Kivelson, S. A., Sondhi, S. L., Wen, X. G.
1997; 55 (4): 2331-2343
 - **Frustration-limited domain theory of supercooled liquids and the glass transition** *Symposium on Supercooled Liquids - Advances and Novel Applications, at the 212th National Meeting of the American-Chemical-Society*
Tarjus, G., Kivelson, D., Kivelson, S.
AMER CHEMICAL SOC.1997: 67-81

- **A viewpoint, model and theory for supercooled liquids** *International Seminar on the Dynamics of Glass Transition and Related Topics*
Kivelson, D., Tarjus, G., Kivelson, S. A.
PROGRESS THEORETICAL PHYSICS PUBLICATION OFFICE.1997: 289–99
- **Reply to "Comment on 'Fitting of viscosity: Distinguishing the temperature dependences predicted by various models of supercooled liquids' "** *Physical review. E, Statistical physics, plasmas, fluids, and related interdisciplinary topics*
Kivelson, Tarjus, Xiao, Kivelson
1996; 54 (5): 5873-5874
- **Textured edges in quantum Hall systems** *PHYSICAL REVIEW LETTERS*
Karlhede, A., Kivelson, S. A., Lejnell, K., Sondhi, S. L.
1996; 77 (10): 2061-2064
- **Modular invariance, self-duality and the phase transition between quantum Hall plateaus** *NUCLEAR PHYSICS B*
Fradkin, E., Kivelson, S.
1996; 474 (3): 543-574
- **Exact results for a 1D Kondo lattice from bosonization** *PHYSICAL REVIEW LETTERS*
Zachar, O., Kivelson, S. A., Emery, V. J.
1996; 77 (7): 1342-1345
- **Metallic stripes in high-temperature superconductors** *JOURNAL OF SUPERCONDUCTIVITY*
Salkola, M. I., Emery, V. J., Kivelson, S. A.
1996; 9 (4): 401-406
- **Implications of charge ordering for single-particle properties of high-T-c superconductors** *PHYSICAL REVIEW LETTERS*
Salkola, M. I., Emery, V. J., Kivelson, S. A.
1996; 77 (1): 155-158
- **Topological doping of correlated insulators** *SYNTHETIC METALS*
Kivelson, S. A., Emery, V. J.
1996; 80 (2): 151-158
- **Paired states in the even integer quantum Hall effect.** *Physical review. B, Condensed matter*
Tikofsky, Kivelson
1996; 53 (20): R13275-R13278
- **Charge ordering in high-temperature superconductors** *International Symposium on Frontiers of High -T(c) Superconductivity*
Emery, V. J., Kivelson, S. A.
ELSEVIER SCIENCE BV.1996: 44–48
- **Electrons in flatland** *SCIENTIFIC AMERICAN*
Kivelson, S., Lee, D. H., Zhang, S. C.
1996; 274 (3): 86-91
- **Avoided critical behavior in a uniformly frustrated system** *PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS*
Chayes, L., Emery, V. J., Kivelson, S. A., Nussinov, Z., Tarjus, G.
1996; 225 (1): 129-153
- **Fitting of viscosity: Distinguishing the temperature dependences predicted by various models of supercooled liquids** *PHYSICAL REVIEW E*
Kivelson, D., Tarjus, G., Zhao, X. L., Kivelson, S. A.
1996; 53 (1): 751-758
- **A THERMODYNAMIC THEORY OF SUPERCOOLED LIQUIDS** *PHYSICA A*
Kivelson, D., Kivelson, S. A., Zhao, X. L., Nussinov, Z., Tarjus, G.
1995; 219 (1-2): 27-38
- **SUPERCONDUCTIVITY IN BAD METALS** *PHYSICAL REVIEW LETTERS*
Emery, V. J., Kivelson, S. A.

1995; 74 (16): 3253-3256

- **IMPORTANCE OF PHASE FLUCTUATIONS IN SUPERCONDUCTORS WITH SMALL SUPERFLUID DENSITY** *NATURE*
Emery, V. J., Kivelson, S. A.
1995; 374 (6521): 434-437
- **METALLIC SCREENING AND CORRELATION-EFFECTS IN SUPERCONDUCTING FULLERENES** *PHYSICAL REVIEW LETTERS*
Lammert, P. E., Rokhsar, D. S., CHAKRAVARTY, S., Kivelson, S., Salkola, M. I.
1995; 74 (6): 996-999
- **COLLECTIVE CHARGE-TRANSPORT IN HIGH-TEMPERATURE SUPERCONDUCTORS** *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*
Emery, V. J., Kivelson, S. A.
1994; 235: 189-192
- **2-PHASE COEXISTENCE AND SEMIMETALLIC STATES IN CONDUCTING POLYMERS** *PHYSICAL REVIEW B*
Salkola, M. I., Kivelson, S. A.
1994; 50 (19): 13962-13973
- **FRUSTRATION-LIMITED CLUSTERS IN LIQUIDS** *JOURNAL OF CHEMICAL PHYSICS*
Kivelson, S. A., Zhao, X. L., Kivelson, D., Fischer, T. M., Knobler, C. M.
1994; 101 (3): 2391-2397
- **STRATEGIES FOR FINDING SUPERCONDUCTIVITY IN CONDUCTING POLYMERS** *Workshop on the Metallic Phase of Conducting Polymers*
Kivelson, S. A., Emery, V. J.
ELSEVIER SCIENCE SA.1994: 249-54
- **STUDY OF AN ISING-MODEL WITH COMPETING LONG-RANGE AND SHORT-RANGE INTERACTIONS** *PHYSICAL REVIEW LETTERS*
Low, U., Emery, V. J., Fabricius, K., Kivelson, S. A.
1994; 72 (12): 1918-1921
- **ELECTRONIC PHASE-SEPARATION AND HIGH-TEMPERATURE SUPERCONDUCTORS** *Conference on Strongly Correlated Electronic Materials: The Los Alamos Symposium 1993*
Kivelson, S. A., Emery, V. J.
ADDISON-WESLEY PUBL CO.1994: 619-656
- **PROPERTIES OF AN ORBITAL KONDO ARRAY** *Conference on Strongly Correlated Electronic Materials: The Los Alamos Symposium 1993*
Emery, V. J., Kivelson, S. A.
ADDISON-WESLEY PUBL CO.1994: 669-672
- **DYNAMICAL IMPURITY PROBLEMS** *8th International Summer School on Fundamental Problems in Statistical Mechanics*
Emery, V. J., Kivelson, S. A.
ELSEVIER SCIENCE PUBL B V.1994: 1-26
- **SOLUTION OF AN ORBITAL KONDO ARRAY** *PHYSICAL REVIEW LETTERS*
Emery, V. J., Kivelson, S. A.
1993; 71 (22): 3701-3704
- **ELECTRONIC CORRELATIONS AND ELECTRON-PHONON COUPLING IN C-60** *INTERNATIONAL JOURNAL OF MODERN PHYSICS B*
Salkola, M. I., CHAKRAVARTY, S., Kivelson, S. A.
1993; 7 (15): 2859-2884
- **QUANTUM PERCOLATION AND PLATEAU TRANSITIONS IN THE QUANTUM HALL-EFFECT** *PHYSICAL REVIEW LETTERS*
Lee, D. H., Wang, Z. Q., Kivelson, S.
1993; 70 (26): 4130-4133
- **SKYRMIONS AND THE CROSSOVER FROM THE INTEGER TO FRACTIONAL QUANTUM HALL-EFFECT AT SMALL ZEEMAN ENERGIES** *PHYSICAL REVIEW B*
Sondhi, S. L., Karlhede, A., Kivelson, S. A., Rezayi, E. H.
1993; 47 (24): 16419-16426

- **FRUSTRATED ELECTRONIC PHASE-SEPARATION AND HIGH-TEMPERATURE SUPERCONDUCTORS** *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*
Emery, V. J., Kivelson, S. A.
1993; 209 (4): 597-621
- **2-PHASE COEXISTENCE IN THE METALLIC STATE OF POLYACETYLENE** *PROGRESS OF THEORETICAL PHYSICS SUPPLEMENT*
Salkola, M. I., Kivelson, S. A.
1993: 53-60
- **THE METALLIC STATE OF HEAVILY DOPED CONDUCTING POLYMERS** *Nobel Symposium on Conjugated Polymers and Related Materials: The Interconnection of Chemical and Electronic Structure*
Kivelson, S. A., Salkola, M. I.
OXFORD UNIVERSITY PRESS.1993: 247–259
- **LOW-ENERGY PHYSICS OF HIGH-TEMPERATURE SUPERCONDUCTORS** *JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS*
Emery, V. J., Kivelson, S. A.
1992; 53 (12): 1499-1506
- **LONG-RANGE INTERACTIONS AND THE QUANTUM HALL-EFFECT** *PHYSICAL REVIEW B*
Sondhi, S. L., Kivelson, S. A.
1992; 46 (20): 13319-13325
- **MAPPING OF THE 2-CHANNEL KONDO PROBLEM TO A RESONANT-LEVEL MODEL** *PHYSICAL REVIEW B*
Emery, V. J., Kivelson, S.
1992; 46 (17): 10812-10817
- **ZERO-TEMPERATURE HALL-COEFFICIENT OF AN INSULATOR** *PHYSICAL REVIEW LETTERS*
Zhang, S. C., Kivelson, S., Lee, D. H.
1992; 69 (8): 1252-1255
- **Comment on "Electron-phonon coupling and superconductivity in alkali-intercalated C60 solid"** *Physical review letters*
Chakravarty, Khlebnikov, Kivelson
1992; 69 (1): 212-?
- **METAL NONMETAL TRANSITION IN POLYACETYLENE** *SYNTHETIC METALS*
Kivelson, S. A., Salkola, M. I.
1991; 44 (3): 281-291
- **Reply to "Neutral-fermion-soliton statistics in the short-range resonating-valence-bond state: A reevaluation"** *Physical review. B, Condensed matter*
Kivelson, Rokhsar, Sethna, Shore
1989; 40 (10): 7343-7344
- **Jain and Kivelson reply.** *Physical review letters*
Jain, Kivelson
1989; 62 (2): 231-?
- **SUPERCONDUCTIVITY AND THE QUANTUM HARD-CORE DIMER GAS** *PHYSICAL REVIEW LETTERS*
Rokhsar, D. S., Kivelson, S. A.
1988; 61 (20): 2376-2379
- **2E OR NOT 2E - FLUX-QUANTIZATION IN THE RESONATING VALENCE BOND STATE** *EUROPHYSICS LETTERS*
Kivelson, S. A., Rokhsar, D. S., Sethna, J. P.
1988; 6 (4): 353-358
- **THE LOW-TEMPERATURE PROPERTIES OF A SHORT-RANGED RESONATING-VALENCE-BOND SUPERCONDUCTOR** *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*
Kivelson, S., Rokhsar, D. S.
1988; 153: 531-537

- **Effect of quasiparticle tunneling on quantum-phase fluctuations and the onset of superconductivity in granular films.** *Physical review. B, Condensed matter*
Chakravarty, Kivelson, Zimanyi, HALPERIN
1987; 35 (13): 7256-7259

PRESENTATIONS

- Superconductivity and Quantum Mechanics at the Macro-Scale 1 & 2 - Stanford Institute for Theoretical Physics
- After 33 years - is anything settled (about cuprate High Temperature Supcondcutivity - Harvard University
- Quantum Mechanics at a Human Scale - A Public Lecture on Superconductivity - Boulder Summer School 2014 (July 9, 2017)
- Achieving Confusion - The Puzzle of Bad Metals - Kavli Institute for Theoretical Physics - UCSB (October 5, 2011)
- Phenomenology of the Cuprate High Temperature Superconductors, I & II (1/2/2017)