Stanford

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 Oreto - 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 Univeristy

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(Fe1-xCox)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*
  Boebinger, 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 WTe_{2}.** *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 ErTe_{3}.** *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 AlAs.** *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 AlAs** *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 CsV 3 Sb 5** *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*

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*

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 La2-xBaxCuO4** *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)
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PRESENTATIONS

- Superconductivity and Quantum Mechanics at the Macro-Scale 1 & 2 - Stanford Institute for Theoretical Physics
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