



Steven Kivelson

Professor of Physics

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

- Editor in Chief, Nature Partner Journal Quantum Materials, (2016- present)
- Prabhu Goel Family Professor of Physics, Stanford University, (2012- present)
- Professor, Physics, Stanford University, (2004- 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>

Teaching

COURSES

2019-20

- Condensed Matter Theory I: PHYSICS 372 (Win)
- Partial Differential Equations of Mathematical Physics: PHYSICS 111 (Aut)

2018-19

- Advanced Mechanics: PHYSICS 110, PHYSICS 210 (Aut)
- Thermodynamics, Kinetic Theory, and Statistical Mechanics II: PHYSICS 171 (Win)

2017-18

- Condensed Matter Theory I: PHYSICS 372 (Win)
- Solid State Physics: APPPHYS 272, PHYSICS 172 (Spr)

2016-17

- Condensed Matter Theory I: PHYSICS 372 (Win)
- Solid State Physics: APPPHYS 272, PHYSICS 172 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Sudi Chen, Jordan Cotler, Jack Jiang, Prashant Kumar, Se Joon Lim, Sam Mumford, Benjamin Nosarzewski, Johanna Palmstrom, Elliott Rosenberg, Aaron Sharpe, Joshua Straquadine, Xiaoqi Sun, Stephen Taylor, Patrick Worasaran, Jiecheng Zhang

Postdoctoral Faculty Sponsor

Jingyuan Chen

Doctoral Dissertation Advisor (AC)

Caleb Cook, Yuval Gannot, Zhaoyu Han, Chao Wang, Yue YU, Andrew Yuan

Postdoctoral Research Mentor

Jingyuan Chen

Doctoral (Program)

Yuri Lensky, Daniel Ranard

Publications

PUBLICATIONS

- **Physics of Superconducting Transition Temperatures** *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*
Kivelson, S. A.
2019
- **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)
- **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): 280–85
- **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., Oretto, 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., Oretto, 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., Oretto, 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., Oretto, 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., Oretto, 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.
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- **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*
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PRESENTATIONS

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