



Thomas Devereaux

Director of Stanford Institute for Materials and Energy Sciences (SIMES) and Professor of Photon Science

Photon Science Directorate

Bio

BIO

Professor Devereaux received his Ph.D. in Physics from the University of Oregon in 1991, M.S. from University of Oregon in 1988, and B.S from New York University in 1986.

Professor Devereaux is currently the Director of the Stanford Institute for Materials and Energy Sciences (SIMES), a professor in the Photon Science Faculty at SLAC National Accelerator Laboratory and Stanford University and a Senior Fellow of the Precourt Institute for Energy. SIMES is a joint institute between Stanford main campus and SLAC, a national laboratory, focusing on scientific foundations related to the energy challenge facing our society.

Professor Devereaux was a Post-doctoral Fellow at the Max Planck Institut, Stuttgart, (1991-1993), a Post-doctoral Fellow at the University of California, Davis, CA, (1993-1996), an Assistant Professor at The George Washington University, Washington, DC, (1996-1999), and an Associate Professor (1999-2006) and Professor (2006-2007) at the University of Waterloo, Waterloo, ON, Canada

His main research interests lie in the areas of theoretical condensed matter physics and computational physics. His research effort focuses on using the tools of computational physics to understand quantum materials. The goal of his research is to understand equilibrium and ultrafast non-equilibrium electron dynamics via a combination of analytical theory and numerical simulations to provide insight into materials of relevance to energy science. His group carries out numerical simulations on SIMES' high-performance compute cluster, the National Energy Research Scientific Computing Center (NERSC), and other US computational facilities. The specific focus of the group is the development of numerical methods and theories of photon-based spectroscopies of strongly correlated materials.

ACADEMIC APPOINTMENTS

- Professor, Photon Science Directorate

HONORS AND AWARDS

- Fellowship, U. S. Department of Education (1989-1991)
- Junior Scholar Incentive Award, George Washington University (1998)
- Research Fellowship, Alexander von Humboldt Foundation (2002-2006)
- Premier's Research Excellence Award, Province of Ontario (2003)
- Scientist Research Fellowship, Embassy of France (2005 & 2006)
- Fellow, American Physical Society (2008)

PROFESSIONAL EDUCATION

- Ph.D., University of Oregon , Physics (1991)
- M.S., University of Oregon , Physics (1988)
- B.S., New York University , Mathematics & Physics (1986)

LINKS

- Devereaux Group: <http://www.stanford.edu/group/phontheory/>
- Stanford Institute for Materials and Energy Sciences: <http://simes.stanford.edu/>
- SLAC National Accelerator Laboratory: <https://www6.slac.stanford.edu/>
- Precourt Institute for Energy: <https://energy.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My main research interests lie in the areas of theoretical condensed matter physics and computational physics. My research effort focuses on using the tools of computational physics to understand quantum materials. Fortunately, we are poised in an excellent position as the speed and cost of computers have allowed us to tackle heretofore unaddressed problems involving interacting systems. The goal of my research is to understand electron dynamics via a combination of analytical theory and numerical simulations to provide insight into materials of relevance to energy science. My group carries out numerical simulations on SIMES' high-performance supercomputer and US and Canadian computational facilities. The specific focus of my group is the development of numerical methods and theories of photon-based spectroscopies of strongly correlated materials.

Teaching

COURSES

2017-18

- Condensed Matter Seminar: APPPHYS 470 (Aut, Win, Spr)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Matthias Hepting, Yifan Jiang, Yehonatan Schattner

Doctoral Dissertation Advisor (AC)

Yuan Chen

Publications

PUBLICATIONS

- **Nonequilibrium lattice-driven dynamics of stripes in nickelates using time-resolved x-ray scattering** *PHYSICAL REVIEW B*
Lee, W. S., Kung, Y. F., Moritz, B., Coslovich, G., Kaindl, R. A., Chuang, Y. D., Moore, R. G., Lu, D. H., Kirchmann, P. S., ROBINSON, J. S., Minitti, M. P., Dakovski, G., Schlotter, et al
2017; 95 (12)
- **Hybrid metal-organic chalcogenide nanowires with electrically conductive inorganic core through diamondoid-directed assembly.** *Nature materials*
Yan, H., Hohman, J. N., Li, F. H., Jia, C., Solis-Ibarra, D., Wu, B., Dahl, J. E., Carlson, R. M., Tkachenko, B. A., Fokin, A. A., Schreiner, P. R., Vailionis, A., Kim, et al
2017; 16 (3): 349-355

- **Modular soft x-ray spectrometer for applications in energy sciences and quantum materials.** *The Review of scientific instruments*
Chuang, Y., Shao, Y., Cruz, A., Hanzel, K., Brown, A., Frano, A., Qiao, R., Smith, B., Domning, E., Huang, S., Wray, L. A., Lee, W., Shen, et al
2017; 88 (1): 013110-?
- **Distinct Electronic Structure for the Extreme Magnetoresistance in YSb** *PHYSICAL REVIEW LETTERS*
He, J., Zhang, C., Ghimire, N. J., Liang, T., Jia, C., Jiang, J., Tang, S., Chen, S., He, Y., Mo, S., Hwang, C. C., Hashimoto, M., Lu, et al
2016; 117 (26)
- **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
- **Nature of a single doped hole in two-leg Hubbard and t-J ladders** *PHYSICAL REVIEW B*
Liu, S., Jiang, H., Devereaux, T. P.
2016; 94 (15)
- **Directly Characterizing the Relative Strength and Momentum Dependence of Electron-Phonon Coupling Using Resonant Inelastic X-Ray Scattering** *PHYSICAL REVIEW X*
Devereaux, T. P., Shvaika, A. M., Wu, K., Wohlfeld, K., Jia, C. J., Wang, Y., Moritz, B., Chaix, L., Lee, W., Shen, Z., Ghiringhelli, G., Braicovich, L.
2016; 6 (4)
- **All-optical materials design of chiral edge modes in transition-metal dichalcogenides** *NATURE COMMUNICATIONS*
Claassen, M., Jia, C., Moritz, B., Devereaux, T. P.
2016; 7
- **Time-domain pumping a quantum-critical charge density wave ordered material** *PHYSICAL REVIEW B*
Matveev, O. P., Shvaika, A. M., Devereaux, T. P., Freericks, J. K.
2016; 94 (11)
- **Distinctive orbital anisotropy observed in the nematic state of a FeSe thin film** *PHYSICAL REVIEW B*
Zhang, Y., Yi, M., Liu, Z., Li, W., Lee, J. J., Moore, R. G., Hashimoto, M., Nakajima, M., Eisaki, H., Mo, S., Hussain, Z., Devereaux, T. P., Shen, et al
2016; 94 (11)
- **Superconducting Gap Anisotropy in Monolayer FeSe Thin Film** *PHYSICAL REVIEW LETTERS*
Zhang, Y., Lee, J. J., Moore, R. G., Li, W., Yi, M., Hashimoto, M., Lu, D. H., Devereaux, T. P., Lee, D., Shen, Z.
2016; 117 (11)
- **Tailoring the nature and strength of electron-phonon interactions in the SrTiO₃(001) 2D electron liquid** *NATURE MATERIALS*
Wang, Z., Walker, S. M., Tamai, A., Wang, Y., Ristic, Z., Bruno, F. Y., de la Torre, A., Ricco, S., Plumb, N. C., Shi, M., Hlawenka, P., Sanchez-Barriga, J., Varykhalov, et al
2016; 15 (8): 835-?
- **Using RIXS to Uncover Elementary Charge and Spin Excitations** *PHYSICAL REVIEW X*
Jia, C., Wohlfeld, K., Wang, Y., Moritz, B., Devereaux, T. P.
2016; 6 (2)
- **Characterizing the three-orbital Hubbard model with determinant quantum Monte Carlo** *PHYSICAL REVIEW B*
Kung, Y. F., Chen, C., Wang, Y., Huang, E. W., Nowadnick, E. A., Moritz, B., Scalettar, R. T., Johnston, S., Devereaux, T. P.
2016; 93 (15)
- **Nonequilibrium Dynamical Mean-Field Theory for the Charge-Density-Wave Phase of the Falicov-Kimball Model** *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*
Matveev, O. P., Shvaika, A. M., Devereaux, T. P., Freericks, J. K.
2016; 29 (3): 581-585
- **Using Nonequilibrium Dynamics to Probe Competing Orders in a Mott-Peierls System** *PHYSICAL REVIEW LETTERS*
Wang, Y., Moritz, B., Chen, C., Jia, C. J., van Veenendaal, M., Devereaux, T. P.
2016; 116 (8)

- **Ultrafast resonant soft x-ray diffraction dynamics of the charge density wave in TbTe₃** *PHYSICAL REVIEW B*
Moore, R. G., Lee, W. S., Kirchman, P. S., Chuang, Y. D., Kemper, A. F., Trigo, M., Patthey, L., Lu, D. H., Krupin, O., Yi, M., Reis, D. A., Doering, D., Denes, et al
2016; 93 (2)
- **Raman and fluorescence characteristics of resonant inelastic X-ray scattering from doped superconducting cuprates** *SCIENTIFIC REPORTS*
Huang, H. Y., Jia, C. J., Chen, Z. Y., Wohlfeld, K., Moritz, B., Devereaux, T. P., Wu, W. B., Okamoto, J., Lee, W. S., Hashimoto, M., He, Y., Shen, Z. X., Yoshida, et al
2016; 6
- **Nonequilibrium response of an electron-mediated charge density wave ordered material to a large dc electric field** *PHYSICAL REVIEW B*
Matveev, O. P., Shvaika, A. M., Devereaux, T. P., Freericks, J. K.
2016; 93 (4)
- **Origin of the low critical observing temperature of the quantum anomalous Hall effect in V-doped (Bi, Sb)₂Te₃ film.** *Scientific reports*
Li, W., Claassen, M., Chang, C., Moritz, B., Jia, T., Zhang, C., Rebec, S., Lee, J. J., Hashimoto, M., Lu, D., Moore, R. G., Moodera, J. S., Devereaux, et al
2016; 6: 32732-?
- **Direct observation of Higgs mode oscillations in the pump-probe photoemission spectra of electron-phonon mediated superconductors** *PHYSICAL REVIEW B*
Kemper, A. F., Sentef, M. A., Moritz, B., Freericks, J. K., Devereaux, T. P.
2015; 92 (22)
- **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
- **Doping evolution of spin and charge excitations in the Hubbard model** *PHYSICAL REVIEW B*
Kung, Y. F., Nowadnick, E. A., Jia, C. J., Johnston, S., Moritz, B., Scalettar, R. T., Devereaux, T. P.
2015; 92 (19)
- **Gauge invariance in the theoretical description of time-resolved angle-resolved pump/probe photoemission spectroscopy** *PHYSICA SCRIPTA*
Freericks, J. K., Krishnamurthy, H. R., Sentef, M. A., Devereaux, T. P.
2015; T165
- **Magnetic excitations and phonons simultaneously studied by resonant inelastic x-ray scattering in optimally doped Bi_{1.5}Pb_{0.55}Sr_{1.6}La_{0.4}CuO_{6+delta}** *PHYSICAL REVIEW B*
Peng, Y. Y., Hashimoto, M., Sala, M. M., AMORESE, A., Brookes, N. B., Dellea, G., Lee, W., Minola, M., Schmitt, T., Yoshida, Y., Zhou, K., Eisaki, H., Devereaux, et al
2015; 92 (6)
- **Origin of strong dispersion in Hubbard insulators** *PHYSICAL REVIEW B*
Wang, Y., Wohlfeld, K., Moritz, B., Jia, C. J., van Veenendaal, M., Wu, K., Chen, C., Devereaux, T. P.
2015; 92 (7)
- **Fidelity study of superconductivity in extended Hubbard models** *PHYSICAL REVIEW B*
Plonka, N., Jia, C. J., Wang, Y., Moritz, B., Devereaux, T. P.
2015; 92 (2)
- **Position-Momentum Duality and Fractional Quantum Hall Effect in Chern Insulators.** *Physical review letters*
Claassen, M., Lee, C. H., Thomale, R., Qi, X., Devereaux, T. P.
2015; 114 (23): 236802-?
- **Position-Momentum Duality and Fractional Quantum Hall Effect in Chern Insulators** *PHYSICAL REVIEW LETTERS*
Claassen, M., Lee, C. H., Thomale, R., Qi, X., Devereaux, T. P.
2015; 114 (23)
- **Direct characterization of photoinduced lattice dynamics in BaFe₂As₂** *NATURE COMMUNICATIONS*
Gerber, S., Kim, K. W., Zhang, Y., Zhu, D., Plonka, N., Yi, M., Dakovski, G. L., Leuenberger, D., Kirchmann, P. S., Moore, R. G., Chollet, M., Glownia, J. M., Feng, et al

2015; 6

- **Classification of collective modes in a charge density wave by momentum-dependent modulation of the electronic band structure** *PHYSICAL REVIEW B*
Leuenberger, D., Sobota, J. A., Yang, S., Kemper, A. F., Giraldo-Gallo, P., Moore, R. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.
2015; 91 (20)
- **Theory of Floquet band formation and local pseudospin textures in pump-probe photoemission of graphene** *NATURE COMMUNICATIONS*
Sentef, M. A., Claassen, M., Kemper, A. F., Moritz, B., Oka, T., Freericks, J. K., Devereaux, T. P.
2015; 6
- **Renormalization of spectra by phase competition in the half-filled Hubbard-Holstein model** *PHYSICAL REVIEW B*
Nowadnick, E. A., Johnston, S., Moritz, B., Devereaux, T. P.
2015; 91 (16)
- **Fractionalization, entanglement, and separation: Understanding the collective excitations in a spin-orbital chain** *PHYSICAL REVIEW B*
Chen, C., van Veenendaal, M., Devereaux, T. P., Wohlfeld, K.
2015; 91 (16)
- **Spin Chain in Magnetic Field: Limitations of the Large-N Mean-Field Theory** *14th European Conference on Physics of Magnetism (PM)*
Wohlfeld, K., Chen, C., van Veenendaal, M., Devereaux, T. P.
POLISH ACAD SCIENCES INST PHYSICS.2015: 201-3
- **Probing LaMO₃ Metal and Oxygen Partial Density of States Using X-ray Emission, Absorption, and Photoelectron Spectroscopy** *JOURNAL OF PHYSICAL CHEMISTRY C*
Hong, W. T., Stoerzinger, K. A., Moritz, B., Devereaux, T. P., Yang, W., Shao-Horn, Y.
2015; 119 (4): 2063-2072
- **Interface ferroelectric transition near the gap-opening temperature in a single-unit-cell FeSe film grown on Nb-Doped SrTiO₃ substrate.** *Physical review letters*
Cui, Y., Moore, R. G., Zhang, A., Tian, Y., Lee, J. J., Schmitt, F. T., Zhang, W., Li, W., Yi, M., Liu, Z., Hashimoto, M., Zhang, Y., Lu, et al
2015; 114 (3): 037002-?
- **Interface Ferroelectric Transition near the Gap-Opening Temperature in a Single-Unit-Cell FeSe Film Grown on Nb-Doped SrTiO₃ Substrate.** *Physical review letters*
Cui, Y., Moore, R. G., Zhang, A., Tian, Y., Lee, J. J., Schmitt, F. T., Zhang, W., Li, W., Yi, M., Liu, Z., Hashimoto, M., Zhang, Y., Lu, et al
2015; 114 (3): 037002-?
- **Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in Bi₂Sr₂CaCu₂O_{8+δ}** *NATURE MATERIALS*
Hashimoto, M., Nowadnick, E. A., He, R., Vishik, I. M., Moritz, B., He, Y., Tanaka, K., Moore, R. G., Lu, D., Yoshida, Y., Ishikado, M., Sasagawa, T., Fujita, et al
2015; 14 (1): 37-42
- **Why LiFePO₄ is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation** *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*
Liu, X., Wang, Y. J., Barbiellini, B., Hafiz, H., Basak, S., Liu, J., Richardson, T., Shu, G., Chou, F., Weng, T., Nordlund, D., Sokaras, D., Moritz, et al
2015; 17 (39): 26369-26377
- **Theory of Floquet band formation and local pseudospin textures in pump-probe photoemission of graphene.** *Nature communications*
Sentef, M. A., Claassen, M., Kemper, A. F., Moritz, B., Oka, T., Freericks, J. K., Devereaux, T. P.
2015; 6: 7047-?
- **Direct characterization of photoinduced lattice dynamics in BaFe₂As₂.** *Nature communications*
Gerber, S., Kim, K. W., Zhang, Y., Zhu, D., Plonka, N., Yi, M., Dakovski, G. L., Leuenberger, D., Kirchmann, P. S., Moore, R. G., Chollet, M., Glowia, J. M., Feng, et al
2015; 6: 7377-?
- **Balancing Act: Evidence for a Strong Subdominant d-Wave Pairing Channel in Ba_{0.6}K_{0.4}Fe₂As₂** *PHYSICAL REVIEW X*
Boehm, T., Kemper, A. F., Moritz, B., Kretzschmar, F., Muschler, B., Eiter, H., Hackl, R., Devereaux, T. P., Scalapino, D. J., Wen, H.
2014; 4 (4)
- **Numerical exploration of spontaneous broken symmetries in multiorbital Hubbard models** *PHYSICAL REVIEW B*
Kung, Y. F., Chen, C., Moritz, B., Johnston, S., Thomale, R., Devereaux, T. P.

2014; 90 (22)

- **Interfacial mode coupling as the origin of the enhancement of T-c in FeSe films on SrTiO₃** *NATURE*
Lee, J. J., Schmitt, F. T., Moore, R. G., Johnston, S., Cui, Y., Li, W., Yi, M., Liu, Z. K., Hashimoto, M., Zhang, Y., Lu, D. H., Devereaux, T. P., Lee, et al
2014; 515 (7526): 245-U207
- **Beyond Planck-Einstein quanta: Amplitude-driven quantum excitation** *PHYSICAL REVIEW B*
Shen, W., Devereaux, T. P., Freericks, J. K.
2014; 90 (19)
- **Asymmetry of collective excitations in electron- and hole-doped cuprate superconductors** *NATURE PHYSICS*
Lee, W. S., Lee, J. J., Nowadnick, E. A., Gerber, S., Tabis, W., Huang, S. W., Strocov, V. N., Motoyama, E. M., Yu, G., Moritz, B., Huang, H. Y., Wang, R. P., Huang, et al
2014; 10 (11): 883-889
- **Distinguishing Bulk and Surface Electron-Phonon Coupling in the Topological Insulator Bi₂Se₃ Using Time-Resolved Photoemission Spectroscopy** *PHYSICAL REVIEW LETTERS*
Sobota, J. A., Yang, S., Leuenberger, D., Kemper, A. F., Analytis, J. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.
2014; 113 (15)
- **Exact solution for high harmonic generation and the response to an ac driving field for a charge density wave insulator** *PHYSICAL REVIEW B*
Shen, W., Kemper, A. F., Devereaux, T. P., Freericks, J. K.
2014; 90 (11)
- **Effect of dynamical spectral weight redistribution on effective interactions in time-resolved spectroscopy** *PHYSICAL REVIEW B*
Kemper, A. F., Sentef, M. A., Moritz, B., Freericks, J. K., Devereaux, T. P.
2014; 90 (7)
- **Ultrafast electron dynamics in the topological insulator Bi₂Se₃ studied by time-resolved photoemission spectroscopy** *JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA*
Sobota, J. A., Yang, S., Leuenberger, D., Kemper, A. F., Analytis, J. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.
2014; 195: 249-257
- **Energy gaps in high-transition-temperature cuprate superconductors** *NATURE PHYSICS*
Hashimoto, M., Vishik, I. M., He, R., Devereaux, T. P., Shen, Z.
2014; 10 (7): 483-495
- **Direct observation of bulk charge modulations in optimally doped Bi_{1.5}Pb_{0.6}Sr_{1.54}CaCu₂O_{8+δ}** *PHYSICAL REVIEW B*
Hashimoto, M., Ghiringhelli, G., Lee, W., Dellea, G., AMORESE, A., Mazzoli, C., KUMMER, K., Brookes, N. B., Moritz, B., Yoshida, Y., Eisaki, H., Hussain, Z., Devereaux, et al
2014; 89 (22)
- **Exact solution for Bloch oscillations of a simple charge-density-wave insulator** *PHYSICAL REVIEW B*
Shen, W., Devereaux, T. P., Freericks, J. K.
2014; 89 (23)
- **Bandgap closure and reopening in CsAuI₃ at high pressure** *PHYSICAL REVIEW B*
Wang, S., Kemper, A. F., Baldini, M., SHAPIRO, M. C., Riggs, S. C., Zhao, Z., Liu, Z., Devereaux, T. P., Geballe, T. H., Fisher, I. R., Mao, W. L.
2014; 89 (24)
- **Angle-resolved photoemission spectroscopy study of HgBa₂CuO_{4+δ}** *PHYSICAL REVIEW B*
Vishik, I. M., Barisic, N., Chan, M. K., Li, Y., Xia, D. D., Yu, G., Zhao, X., Lee, W. S., Meevasana, W., Devereaux, T. P., Greven, M., Shen, Z.
2014; 89 (19)
- **Nonequilibrium "Melting" of a Charge Density Wave Insulator via an Ultrafast Laser Pulse.** *Physical review letters*
Shen, W., Ge, Y., Liu, A. Y., Krishnamurthy, H. R., Devereaux, T. P., Freericks, J. K.
2014; 112 (17): 176404-?
- **Real-space visualization of remnant mott gap and magnon excitations.** *Physical review letters*
Wang, Y., Jia, C. J., Moritz, B., Devereaux, T. P.
2014; 112 (15): 156402-?

- **Dynamic competition between spin-density wave order and superconductivity in underdoped Ba_{1-x}K_xFe₂As₂** *NATURE COMMUNICATIONS*
Yi, M., Zhang, Y., Liu, Z., Ding, X., Chu, J., Kemper, A. F., Plonka, N., Moritz, B., Hashimoto, M., Mo, S., Hussain, Z., Devereaux, T. P., Fisher, et al
2014; 5
- **Charge-orbital-lattice coupling effects in the dd excitation profile of one-dimensional cuprates** *PHYSICAL REVIEW B*
Lee, J. J., Moritz, B., Lee, W. S., Yi, M., Jia, C. J., Sorini, A. P., Kudo, K., Koike, Y., Zhou, K. J., Monney, C., Strocov, V., Patthey, L., Schmitt, et al
2014; 89 (4)
- **Persistent spin excitations in doped antiferromagnets revealed by resonant inelastic light scattering.** *Nature communications*
Jia, C. J., Nowadnick, E. A., Wohlfeld, K., Kung, Y. F., Chen, C., Johnston, S., Tohyama, T., Moritz, B., Devereaux, T. P.
2014; 5: 3314-?
- **Persistent spin excitations in doped antiferromagnets revealed by resonant inelastic light scattering.** *Nature communications*
Jia, C. J., Nowadnick, E. A., Wohlfeld, K., Kung, Y. F., Chen, C., Johnston, S., Tohyama, T., Moritz, B., Devereaux, T. P.
2014; 5: 3314-?
- **Dynamic competition between spin-density wave order and superconductivity in underdoped Ba(1-x)K(x)Fe₂As₂.** *Nature communications*
Yi, M., Zhang, Y., Liu, Z., Ding, X., Chu, J., Kemper, A. F., Plonka, N., Moritz, B., Hashimoto, M., Mo, S., Hussain, Z., Devereaux, T. P., Fisher, et al
2014; 5: 3711-?
- **Examining Electron-Boson Coupling Using Time-Resolved Spectroscopy** *PHYSICAL REVIEW X*
Sentef, M., Kemper, A. F., Moritz, B., Freericks, J. K., Shen, Z., Devereaux, T. P.
2013; 3 (4)
- **Tunneling spectroscopy for probing orbital anisotropy in iron pnictides** *PHYSICAL REVIEW B*
Plonka, N., Kemper, A. F., Graser, S., Kampf, A. P., Devereaux, T. P.
2013; 88 (17)
- **Existence of Orbital Order and its Fluctuation in Superconducting Ba(Fe_{1-x}Cox)₂As₂ Single Crystals Revealed by X-ray Absorption Spectroscopy** *PHYSICAL REVIEW LETTERS*
Kim, Y. K., Jung, W. S., Han, G. R., Choi, K., Kim, K., Chen, C., Devereaux, T. P., Chainani, A., Miyawaki, J., Takata, Y., Tanaka, Y., Oura, M., Shin, et al
2013; 111 (21)
- **Direct Optical Coupling to an Unoccupied Dirac Surface State in the Topological Insulator Bi₂Se₃** *PHYSICAL REVIEW LETTERS*
Sobota, J. A., Yang, S., Kemper, A. F., Lee, J. J., Schmitt, F. T., Li, W., Moore, R. G., Analytis, J. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.
2013; 111 (13)
- **Time-dependent charge-order and spin-order recovery in striped systems** *PHYSICAL REVIEW B*
Kung, Y. F., Lee, W., Chen, C., Kemper, A. F., Sorini, A. P., Moritz, B., Devereaux, T. P.
2013; 88 (12)
- **Electron-mediated relaxation following ultrafast pumping of strongly correlated materials: model evidence of a correlation-tuned crossover between thermal and nonthermal states.** *Physical review letters*
Moritz, B., Kemper, A. F., Sentef, M., Devereaux, T. P., Freericks, J. K.
2013; 111 (7): 077401-?
- **Electron-Mediated Relaxation Following Ultrafast Pumping of Strongly Correlated Materials: Model Evidence of a Correlation-Tuned Crossover between Thermal and Nonthermal States** *PHYSICAL REVIEW LETTERS*
Moritz, B., Kemper, A. F., Sentef, M., Devereaux, T. P., Freericks, J. K.
2013; 111 (7)
- **Mapping of unoccupied states and relevant bosonic modes via the time-dependent momentum distribution** *PHYSICAL REVIEW B*
Kemper, A. F., Sentef, M., Moritz, B., Kao, C. C., Shen, Z. X., Freericks, J. K., Devereaux, T. P.
2013; 87 (23)
- **Role of Lattice Coupling in Establishing Electronic and Magnetic Properties in Quasi-One-Dimensional Cuprates** *PHYSICAL REVIEW LETTERS*
Lee, W. S., Johnston, S., Moritz, B., Lee, J., Yi, M., Zhou, K. J., Schmitt, T., Patthey, L., Strocov, V., Kudo, K., Koike, Y., van den Brink, J., Devereaux, et al
2013; 110 (26)
- **Determinant quantum Monte Carlo study of the two-dimensional single-band Hubbard-Holstein model** *PHYSICAL REVIEW B*

- Johnston, S., Nowadnick, E. A., Kung, Y. F., Moritz, B., Scalettar, R. T., Devereaux, T. P.
2013; 87 (23)
- **Doping evolution of the oxygen K-edge x-ray absorption spectra of cuprate superconductors using a three-orbital Hubbard model** *PHYSICAL REVIEW B*
Chen, C., Sentef, M., Kung, Y. F., Jia, C. J., Thomale, R., Moritz, B., Kampf, A. P., Devereaux, T. P.
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