

# Stanford

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## Ian Fisher

Professor of Applied Physics and, by courtesy, of Materials Science and Engineering

### Bio

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#### BIO

Our research focuses on the study of quantum materials with unconventional magnetic & electronic ground states & phase transitions. Emphasis on design and discovery of new materials. Recent focus on use of strain as a probe of, and tuning parameter for, a variety of electronic states. Interests include unconventional superconductivity, quantum phase transitions, nematicity, multipolar order, instabilities of low-dimensional materials and quantum magnetism.

#### ACADEMIC APPOINTMENTS

- Professor, Applied Physics
- Professor (By courtesy), Materials Science and Engineering
- Principal Investigator, Stanford Institute for Materials and Energy Sciences

#### ADMINISTRATIVE APPOINTMENTS

- Director, Geballe Laboratory for Advanced Materials, (2013-2021)
- Deputy Director, Geballe Laboratory for Advanced Materials, (2008-2013)

#### LINKS

- <http://web.stanford.edu/group/fisher/>: <http://web.stanford.edu/group/fisher/>

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research focuses on the study of quantum materials with unconventional magnetic & electronic ground states & phase transitions. Emphasis on design and discovery of new materials. Recent focus on use of strain as a probe of, and tuning parameter for, a variety of electronic states. Interests include unconventional superconductivity, quantum phase transitions, nematicity, multipolar order, instabilities of low-dimensional materials and quantum magnetism.

### Publications

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#### PUBLICATIONS

- **Field-tuned ferroquadrupolar quantum phase transition in the insulator TmVO<sub>4</sub>.** *Proceedings of the National Academy of Sciences of the United States of America*  
Massat, P., Wen, J., Jiang, J. M., Hristov, A. T., Liu, Y., Smaha, R. W., Feigelson, R. S., Lee, Y. S., Fernandes, R. M., Fisher, I. R.  
2022; 119 (28): e2119942119
- **Observation of the non-linear Meissner effect** *NATURE COMMUNICATIONS*  
Wilcox, J. A., Grant, M. J., Malone, L., Putzke, C., Kaczorowski, D., Wolf, T., Hardy, F., Meingast, C., Analytis, J. G., Chu, J., Fisher, I. R., Carrington, A.

2022; 13 (1): 1201

- **Iron pnictides and chalcogenides: a newparadigm for superconductivity.** *Nature*  
Fernandes, R. M., Coldea, A. I., Ding, H., Fisher, I. R., Hirschfeld, P. J., Kotliar, G.  
1800; 601 (7891): 35-44
- **Expanding the momentum field of view in angle-resolved photoemission systems with hemispherical analyzers.** *The Review of scientific instruments*  
Gauthier, N., Sobota, J. A., Pfau, H., Gauthier, A., Soifer, H., Bachmann, M. D., Fisher, I. R., Shen, Z. X., Kirchmann, P. S.  
2021; 92 (12): 123907
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2021; 92 (12)
- **Role of Equilibrium Fluctuations in Light-Induced Order.** *Physical review letters*  
Zong, A., Dolgirev, P. E., Kogar, A., Su, Y., Shen, X., Straquadine, J. A., Wang, X., Luo, D., Kozina, M. E., Reid, A. H., Li, R., Yang, J., Weathersby, et al  
2021; 127 (22): 227401
- **Role of Equilibrium Fluctuations in Light-Induced Order** *PHYSICAL REVIEW LETTERS*  
Zong, A., Dolgirev, P. E., Kogar, A., Su, Y., Shen, X., Straquadine, J. W., Wang, X., Luo, D., Kozina, M. E., Reid, A. H., Li, R., Yang, J., Weathersby, et al  
2021; 127 (22)
- **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)
- **Anderson localization of electron states in a quasicrystal** *PHYSICAL REVIEW B*  
Sarkar, S., Krajci, M., Sadhukhan, P., Singh, V., Gloskovskii, A., Mandal, P., Fournce, V., de Weerd, M., Ledieu, J., Fisher, I. R., Barman, S.  
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- **Signatures of two-dimensional superconductivity emerging within a three-dimensional host superconductor.** *Proceedings of the National Academy of Sciences of the United States of America*  
Parra, C., Niestemski, F. C., Contryman, A. W., Giraldo-Gallo, P., Geballe, T. H., Fisher, I. R., Manoharan, H. C.  
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- **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.  
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- **Robust superconductivity intertwined with charge density wave and disorder in Pd-intercalated ErTe<sub>3</sub>** *PHYSICAL REVIEW RESEARCH*  
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- **Interplay of charge density wave states and strain at the surface of CeTe<sub>2</sub>** *PHYSICAL REVIEW B*  
Sharma, B., Singh, M., Ahmed, B., Yu, B., Walmsley, P., Fisher, I. R., Boyer, M. C.  
2020; 101 (24)
- **High resolution time- and angle-resolved photoemission spectroscopy with 11 eV laser pulses.** *The Review of scientific instruments*  
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- **High resolution time- and angle-resolved photoemission spectroscopy with 11 eV laser pulses** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
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- **Disorder-induced suppression of charge density wave order: STM study of Pd-intercalated ErTe<sub>3</sub>** *PHYSICAL REVIEW B*  
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- **Dynamical Slowing-Down in an Ultrafast Photoinduced Phase Transition.** *Physical review letters*  
Zong, A., Dolgirev, P. E., Kogar, A., Ergeçen, E., Yilmaz, M. B., Bie, Y. Q., Rohwer, T., Tung, I. C., Straquadine, J., Wang, X., Yang, Y., Shen, X., Li, et al  
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- **Dynamical Slowing-Down in an Ultrafast Photoinduced Phase Transition** *PHYSICAL REVIEW LETTERS*  
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- **Imaging anisotropic vortex dynamics in FeSe** *PHYSICAL REVIEW B*  
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- **Phase transition preceding magnetic long-range order in the double perovskite Ba<sub>2</sub>NaOsO<sub>6</sub>** *PHYSICAL REVIEW B*  
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- **Divergence of the quadrupole-strain susceptibility of the electronic nematic system YbRu<sub>2</sub>Ge<sub>2</sub>** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **Elastoresistive and elastocaloric anomalies at magnetic and electronic-nematic critical points** *PHYSICAL REVIEW B*  
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Mukuda, H., Matsumura, T., Maki, S., Yashima, M., Kitaoka, Y., Miyake, K., Murakami, H., Giraldo-Gallo, P., Geball, T. H., Fisher, I. R.  
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- **Transverse fields to tune an Ising-nematic quantum phase transition** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **Tuning Perpendicular Magnetic Anisotropy by Oxygen Octahedral Rotations in  $(\text{La}_{1-x}\text{Sr}_x)\text{MnO}_3/(\text{SrIrO}_3)$  Superlattices.** *Physical review letters*  
Yi, D., Flint, C. L., Balakrishnan, P. P., Mahalingam, K., Urwin, B., Vailionis, A., N'Diaye, A. T., Shafer, P., Arenholz, E., Choi, Y., Stone, K. H., Chu, J. H., Howe, et al  
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2017; 3 (8): e1700481
- **Determination of the resistivity anisotropy of orthorhombic materials via transverse resistivity measurements** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
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Boehm, T., Ahangharnejhad, R. H., Jost, D., Baum, A., Muschler, B., Kretzschmar, F., Adelman, P., Wolf, T., Wen, H., Chu, J., Fisher, I. R., Hackl, R.  
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- **Scaling of the Stress and Temperature Dependence of the Optical Anisotropy in  $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$**  *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*  
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- **Fermi surface evolution of Na-doped PbTe studied through density functional theory calculations and Shubnikov-de Haas measurements** *PHYSICAL REVIEW B*  
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- **Charge density wave modulation and gap measurements in CeTe<sub>3</sub>** *PHYSICAL REVIEW B*  
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2016; 94 (16)
- **High Current Density and Low Thermal Conductivity of Atomically Thin Semimetallic WTe<sub>2</sub>.** *ACS nano*  
Mleccko, M. J., Xu, R. L., Okabe, K., Kuo, H., Fisher, I. R., Wong, H. P., Nishi, Y., Pop, E.  
2016; 10 (8): 7507-7514
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2016; 12 (6): 560-?
- **Measurement of the B-1g and B-2g components of the elastoresistivity tensor for tetragonal materials via transverse resistivity configurations** *REVIEW OF SCIENTIFIC INSTRUMENTS*  
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2016; 87 (6)
- **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.  
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- **NMR Evidence for Inhomogeneous Nematic Fluctuations in  $\text{BaFe}_2(\text{As}_{1-x}\text{Px})_2$**  *PHYSICAL REVIEW LETTERS*  
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- **Dichroism in the Parent Ferropnictide BaFe<sub>2</sub>As<sub>2</sub> Across the Nematic Phase Transition** *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*  
Chinotti, M., Mirri, C., Dusza, A., Bastelberger, S., Degiorgi, L., Chu, J., Kuo, H., Fisher, I. R.  
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- **Electrodynamic response in the electronic nematic phase of BaFe<sub>2</sub>As<sub>2</sub>** *PHYSICAL REVIEW B*  
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- **Ultrafast resonant soft x-ray diffraction dynamics of the charge density wave in TbTe<sub>3</sub>** *PHYSICAL REVIEW B*  
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2015; 92 (8)
- **Field-induced spin density wave and spiral phases in a layered antiferromagnet** *PHYSICAL REVIEW B*  
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2015; 92 (2)
- **Elastoconductivity as a probe of broken mirror symmetries** *PHYSICAL REVIEW B*  
Hlobil, P., Maharaj, A. V., Hosur, P., SHAPIRO, M. C., Fisher, I. R., Raghu, S.  
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- **Wave-vector-dependent electron-phonon coupling and the charge-density-wave transition in TbTe<sub>3</sub>** *PHYSICAL REVIEW B*  
Maschek, M., Rosenkranz, S., Heid, R., Said, A. H., Giraldo-Gallo, P., Fisher, I. R., Weber, F.  
2015; 91 (23)
- **Bulk electronic structure of Zn-Mg-Y and Zn-Mg-Dy icosahedral quasicrystals** *PHYSICAL REVIEW B*  
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- **Classification of collective modes in a charge density wave by momentum-dependent modulation of the electronic band structure** *PHYSICAL REVIEW B*  
Leuenerger, 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.  
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- **Pressure dependence of the charge-density-wave and superconducting states in GdTe<sub>3</sub>, TbTe<sub>3</sub>, and DyTe<sub>3</sub>** *PHYSICAL REVIEW B*  
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- **Monotonic Doping-Dependence in the Anisotropy of the Drude Weight and Scattering Rate of Detwinned Ba(Fe<sub>1-x</sub>Co(x))<sub>2</sub>As<sub>2</sub> Established from the Optical Conductivity** *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*

- Dusza, A., Lucarelli, A., Chu, J., Fisher, I. R., Degiorgi, L.  
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- **Evidence for a nematic component to the hidden-order parameter in URu2Si2 from differential elastoresistance measurements** *NATURE COMMUNICATIONS*  
Riggs, S. C., SHAPIRO, M. C., Maharaj, A. V., Raghu, S., Bauer, E. D., Baumbach, R. E., Giraldo-Gallo, P., Wartenbe, M., Fisher, I. R.  
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  - **Stripe-like nanoscale structural phase separation in superconducting BaPb(1-x)Bi(x)O3.** *Nature communications*  
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  - **Observation of universal strong orbital-dependent correlation effects in iron chalcogenides.** *Nature communications*  
Yi, M., Liu, Z., Zhang, Y., Yu, R., Zhu, J., Lee, J. J., Moore, R. G., Schmitt, F. T., Li, W., Riggs, S. C., Chu, J., Lv, B., Hu, et al  
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  - **Observation of universal strong orbital-dependent correlation effects in iron chalcogenides.** *Nature communications*  
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  - **Disorder driven metal-insulator transition in BaPb(1-x)Bi(x)O3 and inference of disorder-free critical temperature.** *Physical review letters*  
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2014; 113 (17): 177004-?
  - **Disorder Driven Metal-Insulator Transition in BaPb1-xBixO3 and Inference of Disorder-Free Critical Temperature** *PHYSICAL REVIEW LETTERS*  
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  - **Nematic-driven anisotropic electronic properties of underdoped detwinned Ba(Fe1-xCox)(2)As-2 revealed by optical spectroscopy** *PHYSICAL REVIEW B*  
Mirri, C., Dusza, A., Bastelberger, S., Chu, J., Kuo, H., Fisher, I. R., Degiorgi, L.  
2014; 90 (15)
  - **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.  
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Sobota, J. A., Yang, S., Leuenberger, D., Kemper, A. F., Analytis, J. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.  
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Sobota, J. A., Yang, S., Leuenberger, D., Kemper, A. F., Analytis, J. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.  
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  - **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.  
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Kuo, H., Fisher, I. R.  
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