



Ian Fisher

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

Bio

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

- Chair, Department of Applied Physics, (2022- present)
- 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

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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2025; 15 (3)
- **Effect of disorder on the strain-tuned charge density wave multicriticality in PdxErTe₃** *PHYSICAL REVIEW B*
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- **Giant elastocaloric effect at low temperatures in TmVO₄ and implications for cryogenic cooling.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Elastocaloric signatures of symmetric and antisymmetric strain-tuning of quadrupolar and magnetic phases in DyB₂C₂**. *Proceedings of the National Academy of Sciences of the United States of America*
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- **Elastocaloric signature of nematic fluctuations**. *Proceedings of the National Academy of Sciences of the United States of America*
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