

## Princeton Center for Theoretical Science

The Princeton Center for Theoretical Science is dedicated to exploring the frontiers of theory in the natural sciences. Its purpose is to promote interaction among theorists and seed new directions in research, especially in areas cutting across traditional disciplinary boundaries.

The Center is home to a corps of Center Postdoctoral Fellows, chosen from nominations made by senior theoretical scientists around the world. A group of senior Faculty Fellows, chosen from science and engineering departments across the campus, are responsible for guiding the Center. Center activities include focused topical programs chosen from proposals by Princeton faculty across the natural sciences. The Center is located on the fourth floor of Jadwin Hall, in the heart of the campus "science neighborhood". The Center hopes to become the focus for innovation and cross-fertilization in theoretical natural science at Princeton.

### Faculty Fellows:

Paul Steinhardt, Director  
Igor Klebanov, Associate Director  
Ravindra Bhatt  
William Bialek  
Curtis Callan  
Roberto Car  
David Spergel  
Salvatore Torquato

### Center Postdoctoral Fellows:

Dmitry Abanin 2008-2011  
Bogdan Andrei Bernevig 2006-2009  
Thomas Klose 2007-2010  
Jean-Luc Lehners 2007-2010  
M. Lisa Manning 2008-2011  
Meera Parish 2006-2009  
Matthew Reece 2008-2011  
Antonello Scardicchio 2006-2009  
Branson Stephens 2007-2010  
Aleksandra Walczak 2007-2010

To find out more about Center Postdoctoral Fellowships and Programs see:

<http://pcts.princeton.edu/pcts>



## Iron-based HiTC Superconductors Workshop

**November 13-14, 2008**

**Fourth Floor, Jadwin Hall**

Organizers: Bogdan Andrei Bernevig, Ravindra Bhatt, M. Zahid Hasad, Ali Yazdani

# Iron-based HiTC Superconductors Workshop

**Thursday, November 13, 2008**

- 9:00 – 9:50 am “Title TBA”  
**Zlatko Tesanovic, Johns Hopkins University**
- 9:50 – 10:40 am “Superconductivity and spin-density-wave instability in FeAs-based systems”  
**Nan Lin Wang, Institute of Physics, Chinese Academy of Sciences, Beijing**
- 10:40 – 11:00 am Coffee Break**
- 11:00 – 11:50 am “Title TBA”  
**Pengcheng Dai, Oak Ridge National Laboratory**
- 11:50 – 1:00 pm Lunch**
- 1:00 – 1:50 pm “Title TBA”  
**Xingjiang Zhou, National Lab for Superconductivity, Chinese Academy of Sciences, Beijing**
- 1:50 – 2:40 pm** “Title TBA”  
**X. Christianson, Oak Ridge National Laboratory**
- 2:40 – 3:00 pm **Coffee Break**
- 3:00 – 3:50 pm “Electronic structure, superconductivity and magnetism in ferropnictides”  
**Igor Mazin, NRL**
- 4:00 pm** **Physics Tea in Room 218, Faculty Lounge, Jadwin Hall**
- 4:30 – 5:30 pm **Joint Physics/PCTS Colloquium, A-10, Jadwin Hall**  
“Title TBA”  
**Paul Canfield, Iowa State University/Ames Laboratory**

# Iron-based HiTC Superconductors Workshop

**Friday, November 14, 2008**

- 9:00 – 9:50 am “A 3-orbital parametrization of the Fermi pockets in Fe Pnictides”  
**Patrick Lee, MIT**
- 9:50 – 10:40 am “Transport properties and pressure effects in iron-based superconductors and related compounds”  
**Toshimitsu Ito, AIST, Japan**
- 10:40 – 11:00 am Coffee Break**
- 11:00 – 11:50 am “Title TBA”  
**J.P. Hu, Purdue University**
- 11:50 – 1:30 pm Lunch**
- 1:30 – 2:20 pm “Title TBA”  
**Paul Canfield, Iowa State University/Ames Laboratory**
- 2:20 - 3:10 pm** “Title TBA”  
**Dunghai Lee, Berkeley University**
- 3:10 3:30 pm **Coffee Break**
- 3:30 – 4:20 pm** “Title TBA”  
**Jenny Hoffman, Harvard University**
- 4:20 – 5:10 pm “Title TBA”  
**Gabi Kotliar, Rutgers University**
- 5:10 – 6:00 pm Light Reception**