

Princeton Center for Theoretical Physics

The Princeton Center for Theoretical Physics is a new, University-funded enterprise 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. The full complement of nine Fellows will be in residence by Fall 2008. 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 involving participants from inside and outside the university. To house these activities, the University is constructing a dedicated facility in Jadwin Hall, home of the Physics Department, 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:

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

Center Postdoctoral Fellows:

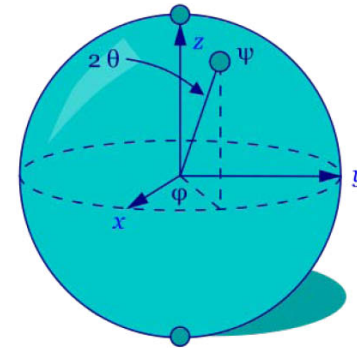
Bogdan Andrei Bernevig 2006-2009
Thomas Klose 2007-2010
Jean-Luc Lehners 2007-2010
Meera Parish 2006-2009
Antonello Scardicchio 2006-2009
Branson Stephens 2007-2010
Aleksandra Walczak 2007-2010



Symposium on The Route to Non-Abelian Physics

Frontiers in Quantum Computing Program

February 13, 2008
9:15 am – 4:00 pm



Organizers

William Brinkman, Robert Calderbank, Gerald Gilbert
Shivaji Sondhi

Sponsored by
Princeton Center for Theoretical Physics
&
The MITRE Corporation

Symposium on The Route to Non-Abelian Physics

February 13, 2008

Room 343, Jadwin Hall

9:15 am – 4:00 pm

9:15 – 9:30 am	Introduction: Curtis Callan & Shivaji Sondhi, Princeton U.
9:30 – 10:00 am	Overview: Bert Halperin, Harvard U.
10:00 – 10:50 am	<i>"Detecting abelian anyons"</i> Vladimir Goldman, Stony Brook
10:50 – 11:40 am	Amir Yacoby, Harvard U.
11:40 – 12:30 pm	<i>"Confinement of Fractional Quantum Hall States"</i> Robert Willett, Alcatel-Lucent
12:30 – 2:00 pm	Lunch—Brush Gallery, McDonnell Hall
2:00 – 2:50 pm	Charles Marcus, Harvard U.
2:50 – 3:30 pm	Summary discussion led by Bernd Rosenow, Harvard U.
3:30 – 4:00 pm	<i>"Superconducting proximity effect and Majorana Fermions at the surface of a topological insulator"</i> Charles Kane, University of Pennsylvania