

DANIEL K. BISS
CURRICULUM VITÆ

Address

Department of Mathematics
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Education

1999-present Massachusetts Institute of Technology:
Ph.D. in mathematics expected June 2002
Proposed thesis title: Some applications of oriented matroids to topology
Thesis advisor: Michael Hopkins
Fall 1998 Department of mathematics, Hebrew University, Jerusalem, visiting graduate student
1995-1998 Harvard University:
A.B. in mathematics June 1998, *Summa cum laude*

Fellowships and awards

Clay Mathematics Institute Long Term Prize Fellowship, 2002–2007
National Defense Science and Engineering Graduate Fellowship, 1999–2002
AMS-MAA-SIAM Frank and Bennie Morgan Prize for outstanding undergraduate research, 1999
Thomas Temple Hoopes Prize for excellence in scholarly thesis work at Harvard University, 1998
Barry Goldwater Scholarship, 1997–1998

Research Interests

Topology, algebraic geometry, Lie theory, number theory, combinatorics

Teaching Experience

Spring 1999 Teaching Assistant for abstract algebra (18.06) at MIT
Spring 1998 Course Assistant for representation theory (126) at Harvard,
recipient of the Harvard University Certificate of Distinction in Teaching
1998-1999 Course Assistant for honors multivariable calculus and linear algebra (55a-b) at Harvard,
recipient both semesters of the Harvard University Certificate of Distinction in Teaching

Invited Lectures

- May 02 Cornell Topology festival:
"Some applications of oriented matroids to topology"
- Apr 02 University of Texas, Geometry seminar:
"Some applications of oriented matroids to topology"
- Dec 01 University of Chicago, Topology Seminar:
"Oriented matroids, Grassmannians, and a combinatorial bundle theory"
- Nov 01 Valley Geometry Seminar:
"A matroid-theoretic construction of $BO(n)$ and the topology of combinatorial differential manifolds"
- Oct 01 AMS Eastern Sectional Meeting, Williamstown, MA, Special Session in Algebraic and Topological Combinatorics:
"The matroid Grassmannian is homotopy equivalent to the real Grassmannian"
- Oct 01 Brown University, Geometry Seminar:
"Oriented matroids, Grassmannians, and a combinatorial bundle theory"
- Jun 01 International Conference in Algebraic Topology, Isle of Skye, Scotland:
"Oriented matroids, Grassmannians, and a combinatorial bundle theory"
- Apr 01 UC Berkeley, Topology Seminar:
"A matroid-theoretic construction of $BO(n)$ and the topology of combinatorial differential manifolds"
- Apr 01 Stanford University, Topology Seminar:
"A matroid-theoretic construction of $BO(n)$ and the topology of combinatorial differential manifolds"
- Apr 01 Princeton University, Topology Seminar:
"A matroid-theoretic construction of $BO(n)$ and the topology of combinatorial differential manifolds"
- Mar 01 Indiana University, Topology Seminar:
"A matroid-theoretic construction of $BO(n)$ and the topology of combinatorial differential manifolds"
- Jan 01 Texas A&M University, Topology Seminar:
"The topological fundamental group and generalized covering spaces"
- Mar 99 Indiana University, Topology Seminar:
"The topological fundamental group and generalized covering spaces"
- Jan 99 AMS-MAA Joint meetings, San Antonio, Morgan Prize address:
"The topological fundamental group and generalized covering spaces"