

Dr. Richard Burstein
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Education

- UC Berkeley, Ph.D, 2008 under supervision of Professor V.F.R. Jones.
Thesis: *Commuting-Square Subfactors of Bisch-Haagerup Type* .
- Massachusetts Institute of Technology, S.B. Mathematics and Physics, 2002

Fellowships and Awards

- East Asia Pacific Summer Institutes 2007, supervised by Professor Y. Kawahigashi

Positions

- Vanderbilt University, Assistant Professor, 2009-
- Courses taught:
 - Discrete Math
- University of Ottawa, Fields Institute Fellow, 2008-9
- Courses taught:
 - Multivariable calculus
- UC Berkeley, Teaching Assistant, 2003-2008
- Courses taught:
 - Linear algebra
 - Differential calculus
 - Integral calculus
 - Multivariable calculus
 - Numerical analysis

Research Interests

- Subfactors
 - Commuting-square and Hadamard subfactors

- Central sequence subfactors
- Subfactors obtained from groups
- Planar algebras
 - Automorphisms of planar algebras
 - Bipartite graph planar algebras
 - Abstract construction of subfactor planar algebras
- Group cohomology

Invited presentations

- "Automorphisms of planar algebras," Vanderbilt University Subfactor Seminar (2009)
 - American Mathematical Society national meeting (2009)
 - Canadian Mathematical Society national meeting (2008)
- "Subfactors obtained from Hadamard matrices," Von Neumann Algebras and Ergodic Theory of Group Actions workshop, Oberwolfach Institute (2008)
 - West Coast Operator Algebras Seminar (2008)
 - UC Berkeley Subfactor Seminar (2008)
- "Commuting-square subfactors", Kyushu University Operator Algebras Seminar (2007)

Other Activities

- Co-organizer, Vanderbilt Subfactor Seminar
- Co-organizer, Shanks Workshop 2010

Publications

- Automorphisms of the bipartite graph planar algebra. Preprint.
- Group-type subfactors and Hadamard matrices. Preprint.
- Commuting-square subfactors and central sequences. To appear, International Math Journal.
- Hadamard subfactors of Bisch-Haagerup type. Doctoral thesis, UC Berkeley (2008).