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Department of Mathematics
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Email: szczesny@math.upenn.edu
- Personal** Born in Wroclaw, Poland, on July 14, 1976.
Canadian citizen.
- Education**
- **University of California at Berkeley** - Ph.D, May 2002, advised by Edward Frenkel.
Thesis: *Algebraic curves, twisted vertex operators and Prym varieties.*
 - **University of Toronto, Canada**, B.Sc. (Hons.), 1994-1997.
Mathematics and Computer Science.
- Publications**
- *Heisenberg orbifolds and Prym varieties*, in preparation.
 - *Lattice orbifolds and Prym theta functions*, in preparation.
 - *Orbifold conformal blocks, chiral correlators, and KZ equations*, in preparation.
 - *Discrete torsion, orbifold elliptic genera, and the chiral de Rham complex*, with A. Libgober, [math.AG/0412422](#).
 - *Orbifold conformal blocks and the stack of G-covers*, submitted, [math.AG/0408123](#).
 - *Chiral de Rham complex and orbifolds*, with Edward Frenkel, submitted, [math.AG/0307181](#).
 - *Twisted vertex algebra modules on algebraic curves*, with Edward Frenkel, *Adv. Math.* **187** (1), 2004.
 - *Wakimoto modules for twisted affine algebras*, *Math. Res. Lett.* **9** (4), 2002.
- Honors and Awards**
- National Science Foundation, Principal Investigator for grant DMS-0401619, 2004-2007.
 - University of Pennsylvania, the Award for Good Teaching, Math 412, 2004.
 - University of Pennsylvania, the Award for Good Teaching, Math 371, 2003.
 - University of Pennsylvania, the Award for Good Teaching, Math

350, 2002.

- NSERC Julie Payette Research Fellowship, 2000 - 2002.
- NSERC Graduate Fellowship, 1998-2000.
- Morrey Prize (UC Berkeley), Fall 1999.

Service

- University of Pennsylvania: Putnam Examination Committee, 2004-2005; Preliminary Examination Committee, 2004-2005; Advisor for Mathematics Minors, 2002-2005; Graduate Admissions Committee, 2002-2004.

Invited talks

- University of Connecticut, *Colloquium*, April 2005.
- Johns Hopkins, *Algebraic geometry seminar*, March 2005.
- UMass Amherst, *Colloquium*, February 2005.
- Notre Dame, *Colloquium*, January 2005.
- University of Ottawa, *Colloquium*, January 2005.
- University of Western Ontario, *Colloquium*, January 2005.
- SUNY Stony Brook, *Geometry and Physics seminar*, October 2004.
- ABC-KLM conference, Gregynog, Wales, *Geometry and Physics*, October 2004.
- University of Illinois at Urbana-Champaign, *Algebraic geometry seminar* September 2004.
- Yale University, *Colloquium*, March 2004.
- ESI, Vienna. *Tensor categories and applications* July 2004.
- AMS conference, Houston, *Algebraic geometry special session*, May 2004.
- University of Michigan, *Algebraic geometry seminar*, March 2004.
- Boston University, *Geometry seminar*, February 2004, February 2005.
- University of Massachusetts, Amherst, *Representation theory seminar*, March 2004.
- Rutgers University, *Vertex algebra seminar*, December 2003.
- Columbia University, *Algebraic geometry seminar*, October 2003.
- University of Wisconsin, Madison, *Algebraic geometry seminar*, September 2003.
- Fields institute conference, *Infinite dimensional Lie algebras*, July 2003.
- BIRS workshop, *Motivic integration, elliptic genera, and the chiral de Rham complex*, June 2003.
- UPenn, *Math/physics seminar*, May 2003.

- UPenn, *Algebra seminar*, September 2002.
- Luminy conference, *Vector bundles on algebraic curves*, July 2002.
- Berkeley, *Infinite-dimensional Lie Algebras Seminar*, April 2002.
- Berkeley, *Quiver varieties seminar*, 2001.

Teaching

UPenn:

- Graduate topics course: *Vertex algebras and algebraic curves*
- Graduate algebra
- Advanced linear algebra
- Calculus for business
- Vector calculus
- Abstract algebra II
- Number theory

Berkeley:

- TA, *Lie Groups*
- TA, *Riemannian Geometry*
- TA, *Linear Algebra and Differential Equations*
- TA, *Calculus*

Languages

Polish, Swedish, French, English, Russian

References

Professor Edward Frenkel

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Professor Tony Pantev

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Professor Michael Thaddeus

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Professor Anatoly Libgober

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