

Curriculum Vitae

Calin Chindris

Department of Mathematics

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Education/Employment

- 2008 – Visiting Assistant Professor (Post Doc), University of Iowa
- 2005 – 2008 Dunham Jackson Assistant Professor, University of Minnesota
- 2005 Ph.D. University of Michigan, Ann Arbor, Mathematics (advisor: Harm Derksen)
- 1999 M.S. Babes-Bolyai University, Cluj Napoca, Romania, Mathematics (advisor: Andrei Marcus)
- 1998 B.S. Babes-Bolyai University, Cluj Napoca, Romania, Mathematics (advisor: Andrei Marcus)

Academic Awards and Prizes

- 2005 Oct. Sumner Myers Award for best Ph.D. Thesis, University of Michigan, Ann Arbor
- 2005 Apr. The Wirt and Mary Cornwell Prize (“to a student who, during the previous four years, shall have demonstrated the greatest intellectual curiosity and given the most promise of original study and creative work in Mathematics”), University of Michigan, Ann Arbor
- 1999 Socrates-Erasmus Fellowship at Universitaire Instelling Antwerpen, Antwerp, Belgium, Spring Term
- 1994 – 1999 Romanian National Merit Scholarship, Babes-Bolyai University
- 1994 Third Prize, Romanian National Mathematical Olympiad
- 1993 First Prize, Romanian National Mathematical Olympiad
- 1990 – 1994 First Prize, Intercounty Grigore Moisil Mathematical Contest

Teaching Awards

- 2007 Dec. Award from the “Thank a Teacher” program run by the University of Minnesota Center for Teaching and Learning Services, “In appreciation of [my] teaching style and dedication to helping students learn” Calculus IV (Math 2263)

Research Interests

Representation theory of algebras, Invariant theory, Algebraic combinatorics, Algebraic geometry

Publications

available at <http://www.math.uiowa.edu/~cchindri>

Articles in progress

1. *Geometric characterizations of the representation type of hereditary algebras and canonical algebras.*

2. *The θ -stable decomposition for irreducible components of representation varieties.*

Submitted articles

3. *GIT-fans for quivers.* arXiv:0805.1440 [math.RT]
4. *On orbit closures for infinite type quivers.* arXiv:0709.3613 [math.RT]

Refereed articles (accepted or published)

5. *Cluster fans, stability conditions, and domains of semi-invariants*, Transactions of the American Mathematical Society (to appear), 19 pp. arXiv:0811.1290 [math.RT]
6. *Orbit semigroups and the representation type of quivers*, Journal of Pure and Applied Algebra 213 (2009), no. 7, 1418-1429. arXiv:0708.3413 [math.RT]
7. *Quivers, long exact sequences and Horn type inequalities II*, Glasgow Mathematical Journal 51 (2009), no. 2, 201-217. arXiv:0805.1439 [math.RT]
8. *Quivers, long exact sequences and Horn type inequalities*, Journal of Algebra 320 (2008), no. 1, 128-157. arXiv:math.RA/0410423
9. (with Harm Derksen and Jerzy Weyman) *Counterexamples to Okounkov's log-concavity conjecture*, Compositio Mathematica 143 (2007), no. 6, 1545-1557. arXiv:math/0610819 [math.RT]
10. *Eigenvalues of Hermitian matrices and cones arising from quivers*, International Mathematics Research Notices **2006**, Art. ID 59457, 27 pp.
11. *The cone of effective weights for quivers and Horn type problems*, Ph.D. Thesis, University of Michigan, 2005, 110 pp.

Invited Talks

- 2009 Nov. University of California, Riverside, AMS Special Session on "Representations of Algebras"
 May University of North Carolina at Chapel Hill, Conference on "Eigenvalue and Saturation Problems for Reductive Groups"
 Apr. Maurice Auslander Distinguished Lectures and International Conference on Representations of Algebras and Related Topics, Woods Hole, Massachusetts, USA
 Mar. University of Illinois at Urbana-Champaign, AMS Special Session on "Algebra, geometry and combinatorics"
 Feb. University of Iowa, Algebra Seminar
- 2008 Nov. University of Illinois at Urbana-Champaign, Algebra-Geometry-Combinatorics Seminar
 Nov. Iowa State University, Matrix Groups Seminar
 Feb. University of South Carolina, Colloquium
 Feb. University of Iowa, Colloquium
 Feb. University of Texas, Arlington, Colloquium
 Jan. University of Waterloo, Canada, Colloquium
- 2007 Oct. Maurice Auslander Distinguished Lectures and International Conference on Representation Theory and Related Topics, Northeastern University
 May Universidad Autónoma de Zacatecas, joint AMS-SMM Special Session on "Representation Theory"
 Apr. University of Arizona, AMS Special Session on "Representations of Algebras"
 Mar. University of California, Santa Barbara, Colloquium

- Feb. University of Minnesota, Combinatorics Seminar
- 2006 Nov. Northeastern University, Representation Theory Seminar
- Oct. University of Minnesota, Algebraic Representation Theory Seminar
- Apr. University of Michigan, Colloquium
- Mar. University of Pittsburgh, Algebra Seminar
- 2005 Dec. University of Minnesota, Combinatorics Seminar
- Oct. University of Minnesota, Jr Colloquium
- Apr. University of California, Santa Barbara, AMS Special Session on “Algebraic Geometry and Combinatorics”
- Apr. University of California, Santa Barbara, Algebra Seminar
- 2004 Nov. Texas Tech, Red Raider Symposium, Invariant Theory in Perspective (poster presentation)
- Oct. University of Michigan, Non-commutative Algebra Seminar
- 2003 Dec. University of Michigan, Student Commutative Algebra/Algebraic Geometry Seminar

Teaching experience

- 2009 Fall Topics Course in Algebra: Representations of Quivers, University of Iowa
Calculus III: Vector Calculus, University of Iowa
- 2009 Spring Finite Mathematics: An Applied Approach, University of Iowa
- 2008 Fall Engineering Math IV: Differential Equations (2 sections), University of Iowa
- 2008 Summer Multivariable Calculus and Vector Analysis, University of Minnesota
- 2008 Spring Topics Course: Representations of Quivers, University of Minnesota
- 2007 Fall Multivariable Calculus and Vector Analysis (2 sections), University of Minnesota
- 2007 Spring Graph Theory and Nonenumerative Combinatorics, University of Minnesota
- 2006 Fall Multivariable Calculus and Vector Analysis (2 sections), University of Minnesota
- 2006 Spring Graph Theory and Nonenumerative Combinatorics, University of Minnesota
- 2005 Fall Precalculus II (2 sections), University of Minnesota
- 2001 – 2004 Primary instructor for one section of (a multi-section course) Calculus I, University of Michigan (6 semesters)
- 2000 – 2001 Primary instructor for one section of (a multi-section course) Precalculus, University of Michigan (2 semesters)
- 1999 – 2000 Recitation for Calculus II and Calculus I, Ohio State University (3 quarters)
- 1999 – 2000 Attended training courses for teaching assistants at Ohio State University (one quarter) and University of Michigan (one week)