Chapitre 1

Curriculum Vitae

Mihai Radu STANCU

- Date of birth : 16 July 1976
- Citizenship : Romanian
- Languages : Romanian, French, English, Hungarian
- Civil status : Married to Veronika CZELLAR STANCU
- Professional address : LAMFA UMR 6140, Université de Picardie - Jules Verne,
  33 rue St Leu, 80039 Amiens Cedex 1, France.
- Phone : +33666663919
- E-mail : radu.stancu@u-picardie.fr
- Web Page : http ://www.lamfa.u-picardie.fr/stancu/

Education

- PhD in Mathematics, Université de Lausanne, 19 July 2002
- Master in Mathematics, Université de Genève, 24 June 2000
- Bachelor Diploma in Mathematics, Université de Genève, 12 January 1998
- Programmer Certificate, Tudor Vianu High School, Bucharest, 15 June 1995

Academic Positions

- Associate Professor (LAMFA, UMR 6140, Université de Picardie), since November 2009
- Associate Researcher (LAMFA, UMR 6140, Université de Picardie), March - June 2009.
- Invited Professor (LAMFA, UMR 6140, Université de Picardie), October 2008.
- Lecturer (HEC, Paris), November 2008 - January 2009
- Postdoc in Algebra and Topology (Copenhagen University), Sep. 2007 - Aug. 2008
- Zassenhaus Assistant Professor (The Ohio State University), Sep. 2004 - Aug. 2007
- Invited Researcher and Lecturer (The Ohio State University), Apr. 2003 - Aug. 2004
- Teaching Assistant (Université de Genève), April 1998 - March 2003

Distinctions and Fellowships

– January - March 2008, MSRI, Berkeley,
  Invited Researcher ; Program : Representation Theory of Finite Groups.
– April - June 2005, Centre Bernoulli, Lausanne,
  Invited Researcher ; Program : Topology, Representation Theory, Cohomology.
– April 2003 - August 2004, The Ohio State University,
  National Swiss Foundation Fellowship ; Collaboration with Professor Markus Linckelmann
  on Broué Abelian Defect Conjecture and Fusion Systems.

Research Interests

– finite groups, modular representation theory, fusion systems, p-local groups ;
– Hochschild cohomology, category theory,
– functor cohomology, biset functors, double Burnside ring ;
– p-completed classifying spaces of fusion systems and connection with algebraic topology ;

Publications and Preprints

– The extension algebra of some cohomological Mackey functors
  (with Serge Bouc)
  preprint 2010, submitted

– *On the composition product of saturated fusion systems*
  (with Kári Ragnarsson and Sejong Park) to appear Journal of Algebra

– *Tate's and Yoneda's Theorems on control of transfer for fusion systems*
  (with Antonio Diaz, Adam Glesser and Sejong Park),
  to appear in J. London Math. Soc.

– *Encoding fusion data in the double Burnside ring*
  (with Kári Ragnarsson)
  preprint 2010, submitted.

– *On the graded center of the stable category of a finite p-group*
  (with Markus Linckelmann),
  Journal of Pure and Applied Algebra, 214 (2010), no. 6, 950–959.

– *A characteristic subgroup for fusion systems*
  (with Silvia Onofrei)
  Journal of Algebra, 322 (2009), no. 5, 1705–1718

– *A reduction theorem for fusion systems of blocks*
  (with Radha Kessar)
  Journal of Algebra 318 (2008), no. 2, pp. 806-823

– *Conjectures on finite and p-local groups*
  (with Ron Solomon)
  L'Enseignement Mathématique 54 (2008), pp. 61-66

- *Realizing fusion systems*
  (with Ian Leary)
  Algebra and Number Theory 1 (2007), no. 1, pp. 17-34
- *Control of the fusion in fusion systems*
  Journal of Algebra and its Applications 5 (2006), no. 6, pp. 817-837
- *Almost all generalized extraspecial p-groups are resistant*
  Journal of Algebra 249 (2002), pp. 120-126.
- *Equivalent definitions of fusion systems*, preprint, 2003
- *On normal subsystems of fusion systems*, preprint, 2003
- *Propriétés locales des groupes finis*
  PhD thesis, July 2002

Programming Skills

- C, Fortran, Pascal, Scheme, Basic, Maple, Splus, GAP

Participation to Conferences and Seminars

- Representations of Finite Groups, MFO, 25-31 March 2012, Oberwolfach
- Conference "Interactions between topology and group theory", 9-11 November 2011, Strasbourg,
  Transfer for Fusion Systems
- Fusion Day, Universidad de Málaga, 29 June 2011, Málaga,
  Fusion systems on pro-p groups
- Algebra/Topology Seminar, University of Copenhagen, 18 April 2011, Copenhagen,
  Extensions of cohomological Mackey functors
- Séminaire Chevalley, Paris 7, 28 October 2010, Paris,
  Algèbre d'extensions de certains foncteurs de Mackey cohomologiques simples.
- Algebra Seminar, NTU, 14 April 2010, Singapore,
  The theory of fusion systems
- Barcelona Topology Workshop, Universidad Autonoma de Barcelona, 18 December 2009, Barcelona,
  Saturated fusion systems as idempotents in the double Burnside ring.
- Séminaire de Topologie Alébrique, LAGA, Paris 13, 08 October 2009, Paris
  Fusion dans l'anneau double de Burnside
- Journées Fusion, LAMFA, Université de Picardie, 10-11 September 2009, Amiens,
  Encoding fusion data in the double Burnside ring.
- Séminaire de Théorie des groupes, EPFL, 23 June 2009, Lausanne
  Fusion et l'anneau double de Burnside
- Conference on Algebraic Topology, Group Theory and Representation Theory, 9-15 June 2009, Isle of Skye,
  On the graded centre of a stable category of a finite p-group.
- Representations of Finite Groups, MFO, 22 - 28 March 2009, Oberwolfach,

    On the graded center of the stable category of a finite p-group
- Séminaire Chevalley, Université Paris 7, 8 January 2009, Paris,
  Sur le centre gradué de la catégorie stable d'un p-groupe fini
- Workshop 'Local Methods in Fusion Systems', University of Copenhagen, 17 - 21 December 2008, Copenhague,
  Characteristic idempotents and fusion systems
- Séminaire d'algèbre, Université de Saint-Etienne, 18 November 2008, Saint-Etienne,
  Le centre gradué de la catégorie stable d'un p-groupe fini
- Séminaire d'algèbre, Université de Picardie, 1 October 2008, Amiens,
  Sur le centre gradué de la catégorie stable d'un p-groupe fini
- Algebra/Topology Seminar, University of Copenhagen, 10 August 2008, Copenhague,
  On the graded center of the stable module category in characteristic p
- Modules and representation Theory, Babes-Bolyai University, 7 - 12 July 2008, Cluj,
  A characteristic subgroup for fusion systems
- Algebra/Topology Seminar, University of Copenhagen, 15 Mai 2008, Copenhague,
  Schemes, sheaves of modules and cohomology
- Group Theory Seminar, Ohio State University, 19 March 2008, Columbus,
  A characteristic subgroup for fusion systems at even prime
- Algebra Seminar, University of Washington, 4 March 2008, Seattle,
  Fusion Systems via graphs of groups
- Postdoc Seminar MSRI, 22 February 2008, Berkeley,
  Realizing Fusion Systems
- Séminaire d'algèbre, EPFL, 22 January 2008, Lausanne,
  Systèmes de fusion et graphes de groupes
- Algebra Seminar, University of Aberdeen, 6 December 2007, Aberdeen,
  Fusion system and graphs of groups
- Algebra/Topology Seminar, University of Copenhagen, 30 August 2007, Copenhagen,
  Fusion systems inside infinite groups
- Conference 'Around Broué's conjectures', 28 Mai - 1 June 2007, Luminy,
  Realizing fusion systems
- Zassenhaus Group Theory Conference, 16 - 18 March 2007, Saint Louis,
  Searching for Resistant Groups
- Algebra Seminar, University of Washington, 21 January 2007, Seattle,
  Fusion Systems of Blocks and Generalizations
- AMS National Meeting, 5 - 6 January 2007, New Orleans,
  Control of Fusion and Normal Fusion Subsystems
- The 28th Ohio State-Denison Mathematics Conference, 19 - 21 Mai 2006, Columbus,
  Fusion Systems of Blocks of Group Algebras
- Representations of Finite Groups, MFO, 26 March - 1 April 2006, Oberwolfach
- Workshop on Group Actions and Representation Theory, 11 - 16 Novembrer 2005, Banff,
  A Reduction Theorem for Fusion Systems of Blocks
- Groups, Homotopy and Configuration Spaces, 5 - 11 July 2005, Tokyo,
  Reduction Theorems for Fusion Systems of Blocks
- Cohomology of Finite Groups : Interactions and Applications, MFO, 4 - 9 September 2005,

Oberwolfach,
– Workshop on Topology, Representation Theory, Cohomology, Centre Bernoulli, EPFL,
4 - 10 April 2005, Lausanne. *Exotic Fusion Systems for Blocks*
– Algebra Seminar, University of Georgia, 28 April 2004, Athens,
Control of the Fusion in Fusion Systems
– AMS Sectional Meeting, Ohio University, 26 - 27 March 2004, Athens,
Fusion Control in Fusion Systems
– Group Theory Seminar, Rutgers University, 24 March 2004, New Brunswick,
Resistant Groups
– Weekend Algebra Meeting, Florida Atlantic University, 7 - 9 November 2003, Boca Raton,
Fusion Systems over Finite p-Groups
– Séminaire d'Algèbre et de Théorie de Nombres, EPFL, 11 October 2003, Lausanne,
Contrôle de la p-fusion dans les groupes finis
– Schweizerische Mathematische Gesellschaft, Herbsttagung 18 - 19 September 2002, Davos,
Local Properties of Finite Groups

Scientific Responsibilities

Conference Organization
– 22-25 June 2010, Conference 'Group Representation Theory and Related Topics', Centre Bernoulli, EPFL, Lausanne, (with Jon Carlson, Nadia Mazza et Donna Testerman).
– 17-21 December 2008, Workshop 'Local Methods in Fusion Systems', University of Copenhagen, Copenhagen, (with Jesper Grodal).

Local Seminar Co-organization :
– since 2009 : Work group in Algebra, Université de Picardie, Amiens
– 2008 : Algebra Seminar, University of Copenhagen, Copenhagen
– 2007 : Algebra Seminar, Ohio State University, Columbus

Expert in Master and PhD Thesis Committee :
– March 2012, PhD Thesis, Biset functors, by Mélanie Baumann, EPFL, Lausanne.
– 4 June 2010, PhD Thesis, The structure of p-local compact groups, by Alex González de Miguel, UAB, Barcelona.
– 19 June 2009, PhD Thesis, Posets of subgroups, by David Bornand, EPFL, Lausanne.
– 12 September 2008, Master Thesis, Control of Fusion, by Lorna Henderson, University of Aberdeen, Aberdeen.
– 25 January 2008, Master Thesis, Les sous-groupes génétiques, by Mélanie Baumann, EPFL, Lausanne.

Referee for Mathematical Journals :
– Journal of the London Mathematical Society,
– Journal of Algebra,
– Advances in Mathematics,

- – Journal of Topology,
- – Proceedings of the Edinburgh Mathematical Society,
- – Journal of Group Theory,
- – L'Enseignement Mathématique.