
Curriculum Vitae

Andrew Graeme Dolphin

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Academic Degrees

Ph.D. in Mathematics, Defended 28/11/08. Supervisor: Prof. D. W. Hoffmann.

University of Nottingham, UK

Master of Mathematics, Grade: First Class, Awarded June 2005

University of Durham, UK

Academic Career

December 2008 - present: Universität Konstanz, Germany
Post-doctoral assistant with Dr. K.J. Becher and Prof. M. Schweighofer

June-July 2008: University College Dublin, Ireland

Pre-Doctoral Researcher with Dr. K. Hutchinson.

September 2005 - August 2008: University of Nottingham, UK

Ph.D. student for Prof. D. W. Hoffmann.

Publications

Published articles

Metabolic involutions. Journal of Algebra.

Volume 336, (2011), Pages 286-300.

Addendum to Metabolic involutions [J. Algebra 336 (1) (2011) 286300]: Unitary involutions. Journal of Algebra.

Volume 339 (2011), 336338.

Preprints

Metabolic Involutions and quadratic radical extensions, submitted July, 2011.

<http://www.math.uni-bielefeld.de/LAG/man/435.html>

Differential forms and bilinear forms under field extensions, joint with D.W. Hoffmann, submitted September, 2011.

<http://www.math.uni-bielefeld.de/LAG/man/426.html>

Decomposition of algebras with involution in characteristic 2, submitted August, 2011.

<http://www.math.uni-bielefeld.de/LAG/man/425.html>

Thesis

Bilinear and differential forms over function field extensions - Doctoral Thesis. University of Nottingham, UK.

Conference talks

Decomposition of involutions in characteristic 2

Ramification in Algebra and Geometry, Emory, USA, May 2011

Bilinear forms in characteristic 2 under simple extensions

International Conference on The Algebraic and Arithmetic Theory of Quadratic Forms, Chile, December 2007.

Invited seminar talks

Algebras with involutions in characteristic 2

Number theory seminar, École Polytechnique Fédérale de Lausanne, Switzerland, 2011

Isotropic involutions in characteristic 2

K-theory and quadratic forms seminar, University College Dublin, Ireland, December 2010

Differential forms and function fields

Séminaire d'algèbre, Université D'Artois, France, November 2009

Bilinear and Differential Forms over Simple Extensions

Real Geometry and Algebra Seminar, Universität Konstanz, Germany, December 2008

Conference and workshop attendance

Workshop: Motives and the Milnor Conjecture, Paris 2011

Ramification in algebra and geometry, Emory, USA, 2011

Mini course 2010: patching, involutions and buildings, Lens, France, 2010

Positivity, valuations, and quadratic forms, Konstanz, Germany, 2009

Quadratic forms and linear algebraic groups, Oberwolfach, Germany, 2009
Quadratic forms, algebraic groups, algebraic cobordism and related topics, Nottingham, UK 2008

International conference on the algebraic and arithmetic theory of quadratic forms, Chile 2007

Mini course 2008: Essential dimension and canonical dimension, Lens, France, 2008

LMS workshop on motives quadratic forms and algebraic groups, Belfast 2007

Mini course 2007: Quadratic forms, triangulated categories and valuations, Lens, France, 2007

Mini course 2006: quadratic forms, Lens, France, 2006

Quadratic forms, linear algebraic groups, and related topics, Nottingham, UK 2005

Teaching

Universität Konstanz, Germany

Summer 2011: Fachseminar Reelle Geometrie und Algebra, organisation and preparation for student giving seminar.

Summer 2011: Proseminar: Algebra and Coding Theory, organisation and preparation for student given seminar.

Winter 2010-2011: Algebra, organisation of problem class, preparing problem sheets and solution sheets.

Summer 2010: Algebra and coding theory. Organization of Proseminar.

Summer 2009: Algebra and Galois theory, preparing problem sheets.

Winter 2008-2009: Theorie der quadratischen Formen, teaching problem classes and marking.

University of Nottingham, UK

Summer 2007: Introduction to number theory and Elementary number theory, teaching problem classes and marking.

Winter 2006: Foundations of pure mathematics, Mathematical structures, teaching problem classes and marking.

Summer 2006: Mathematical analysis and Elementary number theory, teaching problem classes and marking.

Winter 2005: Foundations of pure mathematics, Mathematical structures,
teaching problem classes and marking.

University of Durham, UK

2004/05: Core mathematics and Complex analysis marking.

Funding

EPSRC PhD research grant 2005-2008

Non-academic honors

Group-leader, Nottingham improvisation troupe, 2008

Treasurer, humanist society, University of Nottingham, 2006-2007.

President, games society, University of Durham, 2004-2005.

President, Trevelyan alternative film society, 2002-2003.

Skills

Languages: English (native), French to “A” grade at GCSE, Basic German.

Computer Skills: Linux, L^AT_EX, Open Office, Windows, Word, Excel, HTML, XML.