



Mathematisches Forschungsinstitut Oberwolfach: Scientific Programme 2015

Participants of the workshops at Oberwolfach are invited personally by the Director of the Institute. The participation is subject to such an invitation. Interested researchers, in particular young mathematicians, may contact the administration of the Institute (admin@mfo.de). Since the number of participants is restricted, not all inquiries can be considered. Information is also available on our website: <http://www.mfo.de> or <http://www.oberwolfach.org>

04.01.2015 - 10.01.2015 (1502)

Spectral Theory and Weyl Functions

Jussi Behrndt, Graz
Malcolm Brown, Cardiff
Michael Plum, Karlsruhe
Christiane Tretter, Bern

11.01.2015 - 17.01.2015 (1503)

New Discretization Methods for the Numerical Approximation of PDEs

Stephan Dahlke, Marburg
Gitta Kutyniok, Berlin
Rob Stevenson, Amsterdam
Endre Süli, Oxford

18.01.2015 - 24.01.2015 (1504)

Geometric Topology

Martin Bridson, Oxford
Clara Löh, Regensburg
Thomas Schick, Göttingen

25.01.2015 - 31.01.2015 (1505)

Geometric Methods of Complex Analysis

Bo Berndtsson, Göteborg
John Erik Forneaess, Trondheim
Nikolay Shcherbina, Wuppertal

01.02.2015 - 07.02.2015 (1506)

Geometric and Algebraic Combinatorics

Gil Kalai, Jerusalem
Isabella Novik, Seattle
Francisco Santos, Santander
Volkmar Welker, Marburg

08.02.2015 - 14.02.2015 (1507)

15.02.2015 - 21.02.2015 (1508)

Mini-Workshops

N.N.

22.02.2015 - 28.02.2015 (1509)

Control Theory: A Mathematical Perspective on Cyber- Physical Systems

Frank Allgöwer, Stuttgart
Uwe Helmke, Würzburg
Naomi Leonard, Princeton

01.03.2015 - 07.03.2015 (1510)

Discrete Differential Geometry

Alexander I. Bobenko, Berlin
Richard Kenyon, Providence
Peter Schröder, Pasadena

08.03.2015 - 14.03.2015 (1511)

Homotopy Theory

Paul Goerss, Evanston
John Greenlees, Sheffield
Stefan Schwede, Bonn

15.03.2015 - 21.03.2015 (1512)

Algebraic Geometry

Christopher Hacon, Salt Lake City
Daniel Huybrechts, Bonn
Yujiro Kawamata, Tokyo
Bernd Siebert, Hamburg

22.03.2015 - 28.03.2015 (1513)

Subfactors and Conformal Field Theory

Dietmar Bisch, Nashville
Terry Gannon, Edmonton
Vaughan Jones, Nashville
Yasuyuki Kawahigashi, Tokyo

29.03.2015 - 04.04.2015 (1514)

Arbeitsgemeinschaft

N.N.

05.04.2015 - 11.04.2015 (1515)

Representations of Finite Groups

Joseph Chuang, London
Meinolf Geck, Stuttgart
Markus Linckelmann, London
Gabriel Navarro, Valencia

12.04.2015 - 18.04.2015 (1516a)

Mathematical Theory of Water Waves

Jerry Bona, Chicago
Mark Groves, Saarbrücken
Mariana Haragus, Besancon
Erik Wahlén, Lund

12.04.2015 - 18.04.2015 (1516b)

Copulae: On the Crossroads of Mathematics and Economics

Xiaohong Chen, New Haven
Wolfgang Karl Härdle, Berlin
Piotr Jaworski, Warsaw
Johanna G. Nešlehová, Montréal

19.04.2015 - 25.04.2015 (1517a)

Multivariate Splines and Algebraic Geometry

Henry K. Schenck, Urbana
Larry L. Schumaker, Nashville
Tatyana Sorokina, Towson

19.04.2015 - 25.04.2015 (1517b)

Mirror Symmetry, Hodge Theory and Differential Equations

Claus Hertling, Mannheim
Claude Sabbah, Palaiseau
Christian Sevenheck, Mannheim

26.04.2015 - 02.05.2015 (1518)

Tropical Aspects in Geometry, Topology and Physics

Tobias Ekholm, Uppsala
Hannah Markwig, Saarbrücken
Grigory Mikhalkin, Genève
Eugenii Shustin, Tel Aviv

03.05.2015 - 09.05.2015 (1519)

Cohomology of Finite Groups: Interactions and Applications

Alejandro Adem, Vancouver
David J. Benson, Aberdeen
Jon F. Carlson, Athens
Henning Krause, Bielefeld

10.05.2015 - 16.05.2015 (1520)

Enveloping Algebras and Geometric Representation Theory

Iain Gordon, Edinburgh
Bernard Leclerc, Caen
Wolfgang Soergel, Freiburg

17.05.2015 - 23.05.2015 (1521)

Probabilistic Techniques in Modern Statistics

Vladimir Koltchinskii, Atlanta
Richard Nickl, Cambridge UK
Markus Reiß, Berlin
Sara van de Geer, Zürich

24.05.2015 - 30.05.2015 (1522)

Oberwolfach Seminars

N.N.

31.05.2015 - 06.06.2015 (1523)

Mathematical Methods in Quantum Molecular Dynamics

George A. Hagedorn, Blacksburg
Caroline Lasser, München
Claude Le Bris, Marne-La-Vallée

07.06.2015 - 13.06.2015 (1524)

Free Probability Theory

Alice Guionnet, Cambridge MA
Roland Speicher, Saarbrücken
Dan-Virgil Voiculescu, Berkeley

14.06.2015 - 20.06.2015 (1525)

Noncommutative Geometry

Alain Connes, Paris
Joachim Cuntz, Münster
Stefaan Vaes, Leuven
Guoliang Yu, Nashville

21.06.2015 - 27.06.2015 (1526)

New Perspectives on the Interplay between Discrete Groups in Low-Dimensional Topology and Arithmetic Lattices

Ursula Hamenstädt, Bonn

Gregor Masbaum, Paris

Alan Reid, Austin

Tyakal Nanjundiah Venkataramana, Mumbai

28.06.2015 - 04.07.2015 (1527)

Differentialgeometrie im Großen

Gerard Besson, Saint Martin d'Hères

Ursula Hamenstädt, Bonn

Michael Kapovich, Davis

05.07.2015 - 11.07.2015 (1528)

Explicit Methods in Number Theory

Karim Belabas, Talence

Bjorn Poonen, Cambridge MA

Fernando Rodriguez Villegas, Trieste

12.07.2015 - 18.07.2015 (1529)

Mathematical Aspects of General Relativity

Mihalis Dafermos, Princeton

Jim Isenberg, Eugene

Hans Ringström, Stockholm

19.07.2015 - 25.07.2015 (1530)

Dynamische Systeme

Hakan Eliasson, Paris

Helmut Hofer, Princeton

Jean-Christophe Yoccoz, Paris

26.07.2015 - 01.08.2015 (1531)

Interplay of Analysis and Probability in Applied Mathematics

Volker Betz, Darmstadt

Wolfgang König, Berlin

Florian Theil, Coventry

Johannes Zimmer, Bath

02.08.2015 - 08.08.2015 (1532)

Partial Differential Equations

Alice Chang, Princeton

Camillo De Lellis, Zürich

Peter Topping, Coventry

09.08.2015 - 15.08.2015 (1533)

Mathematical Aspects of Hydrodynamics

Peter Constantin, Princeton

Susan Friedlander, Los Angeles

Gregory Seregin, Oxford

Edriss S. Titi, Rehovot & Irvine

16.08.2015 - 22.08.2015 (1534)

Applied Harmonic Analysis and Sparse Approximation

Ingrid Daubechies, Durham

Gitta Kutyniok, Berlin

Holger Rauhut, Aachen

Thomas Strohmer, Davis

23.08.2015 - 29.08.2015 (1535)

Reductions of Shimura Varieties

Laurent Fargues, Paris

Ulrich Görtz, Essen

Eva Viehmann, Garching

Torsten Wedhorn, Paderborn

30.08.2015 - 05.09.2015 (1536)

Scaling Limits in Models of Statistical Mechanics

Dmitry Ioffe, Haifa

Gady Kozma, Rehovot

Fabio Toninelli, Lyon

06.09.2015 - 12.09.2015 (1537)

Oberwolfach Seminars

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13.09.2015 - 19.09.2015 (1538)

Recent Developments in the Numerics of Nonlinear Hyperbolic Conservation Laws

Rémi Abgrall, Zürich

Willem Hundsdorfer, Amsterdam

Andreas Meister, Kassel

Thomas Sonar, Braunschweig

20.09.2015 - 26.09.2015 (1539)

The Mathematics and Statistics of Quantitative Risk Management

Richard Davis, New York

Paul Embrechts, Zürich

Thomas Mikosch, Copenhagen

Andrew Patton, Durham

27.09.2015 - 03.10.2015 (1540)

Computational Engineering

Susanne C. Brenner, Baton Rouge

Carsten Carstensen, Berlin

Leszek Demkowicz, Austin

Peter Wriggers, Hannover

04.10.2015 - 09.10.2015 (1541)

Arbeitsgemeinschaft

N.N.

11.10.2015 - 17.10.2015 (1542)

Computational Geometric and Algebraic Topology

Benjamin Burton, Brisbane

Herbert Edelsbrunner, Klosterneuburg

Jeff Erickson, Urbana

Stephan Tillmann, Sydney

18.10.2015 - 24.10.2015 (1543)

Mixed-integer Nonlinear Optimization: A Hatchery for Modern Mathematics

Leo Liberti, Palaiseau

Sebastian Sager, Magdeburg

Angelika Wiegele, Klagenfurt

25.10.2015 - 31.10.2015 (1544a)

History of Mathematics: Models and Visualization in the Mathematical and Physical Sciences

Jeremy Gray, Milton Keynes

Ulf Hashagen, München

Tinne Hoff Kjeldsen, Roskilde

David E. Rowe, Mainz

01.11.2015 - 07.11.2015 (1545)

08.11.2015 - 14.11.2015 (1546)

Mini-Workshops

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15.11.2015 - 21.11.2015 (1547)

Complexity Theory

Peter Bürgisser, Berlin

Oded Goldreich, Rehovot

Madhu Sudan, Cambridge MA

Salil Vadhan, Cambridge MA

22.11.2015 - 28.11.2015 (1548)

Oberwolfach Seminars

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29.11.2015 - 05.12.2015 (1549)

Geometric Partial Differential Equations: Surface and Bulk Processes

Klaus Deckelnick, Magdeburg

Charles M. Elliott, Coventry

Ralf Kornhuber, Berlin

James A. Sethian, Berkeley

06.12.2015 - 12.12.2015 (1550)

Convex Geometry and its Applications

Franck Barthe, Toulouse

Martin Henk, Magdeburg

Monika Ludwig, Wien

13.12.2015 - 19.12.2015 (1551)

Non-Archimedean Geometry and Applications

Vladimir Berkovich, Rehovot

Walter Gubler, Regensburg

Peter Schneider, Münster

Annette Werner, Frankfurt