



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-Vallee

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
 N.N.
- 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
 N.N.
- 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
 N.N.
- 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