



Mathematisches Forschungsinstitut Oberwolfach: Scientific Programme 2014

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>

05.01. - 11.01.2014 (1402)

Combinatorics

Jeff Kahn, Piscataway
Angelika Steeger, Zürich
Benny Sudakov, Los Angeles

12.01. - 18.01.2014 (1403)

Set Theory

Ilijas Farah, Toronto
Sy-David Friedman, Vienna
Menachem Magidor, Jerusalem
W. Hugh Woodin, Berkeley

19.01. - 25.01.2014 (1404)

Representation Theory and Analysis of Reductive Groups: Spherical Spaces and Hecke Algebras

Bernhard Krötz, Paderborn
Eric M. Opdam, Amsterdam
Henrik Schlichtkrull, Copenhagen
Peter Trapa, Salt Lake City

26.01. - 01.02.2014 (1405)

Mixing, Transport and Coherent Structures

Sanjeeva Balasuriya, New London
George Haller, Zürich
Nicholas Ouellette, New Haven
Vered Rom-Kedar, Rehovot

02.02. - 08.02.2014 (1406a)

Langlands Correspondence and Constructive Galois Theory

Michael Dettweiler, Bayreuth
Jochen Heinloth, Essen
Zhiwei Yun, Stanford

02.02. - 08.02.2014 (1406b)

Dirichlet Series and Function Theory in Polydiscs

Andreas Defant, Oldenburg
Manuel Maestre, Burjassot
Eero Saksman, Helsinki
Kristian Seip, Trondheim

09.02. - 15.02.2014 (1407)

New Trends in Teichmüller Theory and Mapping Class Groups

Shigeyuki Morita, Tokyo
Athanasios Papadopoulos, Strasbourg
Robert C. Penner, Aarhus
Anna Wienhard, Princeton

16.02. - 22.02.2014 (1408)

Representation Theory of Quivers and Finite Dimensional Algebras

William Crawley-Boevey, Leeds
Osamu Iyama, Nagoya
Bernhard Keller, Paris
Henning Krause, Bielefeld

23.02. - 01.03.2014 (1409)

Mini-Workshops

N.N.

02.03. - 08.03.2014 (1410)

Enumerative Combinatorics

Mireille Bousquet-Melou, Bordeaux
Michael Drmota, Wien
Christian Krattenthaler, Wien
Marc Noy, Barcelona

09.03. - 15.03.2014 (1411)

Adaptive Statistical Inference

Mark Low, Philadelphia
Axel Munk, Göttingen
Alexandre Tsybakov, Malakoff

16.03. - 22.03.2014 (1412)

Nonlinear Evolution Equations: Analysis and Numerics

Marlis Hochbruck, Karlsruhe
Serge Nicaise, Valenciennes
Alexander Ostermann, Innsbruck
Roland Schnaubelt, Karlsruhe

23.03. - 29.03.2014 (1413)

Flat Surfaces and Dynamics on Moduli Space

Howard Masur, Chicago
Martin Möller, Frankfurt
Anton Zorich, Rennes

30.03. - 05.04.2014 (1414)

Arbeitsgemeinschaft

(subject to be announced in winter 2013)

N.N.

06.04. - 12.04.2014 (1415)

Real Algebraic Geometry With A View Toward Systems Control and Free Positivity

Didier Henrion, Toulouse
Salma Kuhlmann, Konstanz
Victor Vinnikov, Beer-Sheva

13.04. - 19.04.2014 (1416)

Mini-Workshops

N.N.

20.04. - 26.04.2014 (1417)

Hilbert Modules and Complex Geometry

Kenneth R. Davidson, Waterloo
Ronald G. Douglas, College Station
Jörg Eschmeier, Saarbrücken
Harald Upmeyer, Marburg

27.04. - 03.05.2014 (1418)

Modular Forms

Jan Hendrik Bruinier, Darmstadt
Atsushi Ichino, Kyoto
Tamotsu Ikeda, Kyoto
Özlem Imamoglu, Zürich

04.05. - 10.05.2014 (1419)

Stochastic Analysis in Finance and Insurance

Rene Carmona, Princeton
Martin Schweizer, Zürich
Nizar Touzi, Paris

11.05. - 17.05.2014 (1420)

Schnelle Löser für Partielle Differentialgleichungen

Randolph E. Bank, La Jolla
Lars Grasedyck, Aachen
Wolfgang Hackbusch, Leipzig
Gabriel Wittum, Frankfurt

18.05. - 24.05.2014 (1421)

Interactions between Algebraic Geometry and Noncommutative Algebra

Markus Reineke, Wuppertal
J. Toby Stafford, Manchester
Catharina Stroppel, Bonn
Michel Van den Bergh, Diepenbeek

25.05. - 31.05.2014 (1422a)

Algebraic Structures in Low-Dimensional Topology

Louis Hirsch Kauffman, Chicago
Vassily Olegovich Manturov, Moscow
Kent E. Orr, Bloomington
Robert Schneiderman, New York

25.05. - 31.05.2014 (1422b)

Okounkov Bodies and Applications

Megumi Harada, Hamilton
Kiumars Kaveh, Pittsburgh
Askold Khovanskii, Toronto

01.06. - 07.06.2014 (1423)

Stochastic Analysis: Around the KPZ Universality Class

Alice Guionnet, Lyon
Martin Hairer, Coventry
Wendelin Werner, Orsay

08.06. - 14.06.2014 (1424)

Oberwolfach Seminars

N.N.

15.06. - 21.06.2014 (1425)

Geometrie

John Lott, Berkeley
Iskander Taimanov, Novosibirsk
Burkhard Wilking, Münster

22.06. - 28.06.2014 (1426)

Computational Multiscale Methods

Carsten Carstensen, Berlin/Seoul
Björn Engquist, Austin/Stockholm
Daniel Peterseim, Berlin

29.06. - 05.07.2014 (1427)

Classical Algebraic Geometry

Olivier Debarre, Paris
David Eisenbud, Berkeley
Gavril Farkas, Berlin
Ravi Vakil, Stanford

06.07. - 12.07.2014 (1428)

Algebraische Zahlentheorie

Benjamin Howard, Chestnut Hill
Guido Kings, Regensburg
Ramdorai Sujatha, Bombay
Otmar Venjakob, Heidelberg

13.07. - 19.07.2014 (1429)

Calculus of Variations

Simon Brendle, Stanford
Camillo De Lellis, Zürich
Robert L. Jerrard, Toronto

20.07. - 26.07.2014 (1430)

Real Analysis, Harmonic Analysis and Applications

Michael Christ, Berkeley
Detlef Müller, Kiel
Christoph Thiele, Bonn

27.07. - 02.08.2014 (1431)

Cryptography

Johannes Buchmann, Darmstadt
Shafi Goldwasser, Cambridge MA/Rehovot

03.08. - 09.08.2014 (1432)

**Analysis, Geometry and Topology
of Positive Scalar Curvature Metrics**

Bernd Ammann, Regensburg
Bernhard Hanke, Augsburg
Andre Neves, London

10.08. - 16.08.2014 (1433)

Mathematics and Algorithms in Tomography

Martin Burger, Münster
Alfred Louis, Saarbrücken
Todd Quinto, Medford

17.08. - 23.08.2014 (1434)

Low-dimensional Topology and Number Theory

Paul E. Gunnells, Amherst
Walter Neumann, New York
Adam S. Sikora, New York
Don Zagier, Bonn/Paris

24.08. - 30.08.2014 (1435)

Komplexe Analysis

Philippe Eyssidieux, St. Martin d'Hères
Jun-Muk Hwang, Seoul
Stefan Kebekus, Freiburg
Mihai Paun, Nancy

31.08. - 06.09.2014 (1436)

Discrete Geometry

Imre Barany, Budapest
Jiri Matousek, Praha/Zürich
Günter Rote, Berlin

07.09. - 13.09.2014 (1437)

New Horizons in Statistical Decision Theory

Richard Gill, Leiden
Madalin Guta, Nottingham
Michael Nussbaum, Ithaca

14.09. - 20.09.2014 (1438)

Topologie

Thomas Schick, Göttingen
Peter Teichner, Bonn
Nathalie Wahl, Copenhagen
Michael Weiss, Münster

21.09. - 27.09.2014 (1439)

Reactive Flows in Deformable, Complex Media

Margot Gerritsen, Stanford
Jan Martin Nordbotten, Bergen
Iuliu Sorin Pop, Eindhoven
Barbara Wohlmuth, Garching

28.09. - 04.10.2014 (1440)

Mini-Workshops

N.N.

05.10. - 11.10.2014 (1441)

Arbeitsgemeinschaft

(subject to be announced in summer 2014)
N.N.

12.10. - 18.10.2014 (1442)

Oberwolfach Seminars

N.N.

19.10. - 25.10.2014 (1443)

Dirichlet Form Theory and its Applications

Sergio Albeverio, Bonn
Zhen-Qing Chen, Seattle
Masatoshi Fukushima, Osaka
Michael Röckner, Bielefeld

26.10. - 01.11.2014 (1444)

Valuation Theory and Its Applications

Zoe Chatzidakis, Paris
Franz-Viktor Kuhlmann, Saskatoon
Jochen Koenigsmann, Oxford
Florian Pop, Philadelphia

02.11. - 08.11.2014 (1445a)

Probability, Trees and Algorithms

Luc Devroye, Montreal
Ralph Neininger, Frankfurt

02.11. - 08.11.2014 (1445b)

Lehrerfortbildung

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09.11. - 15.11.2014 (1446)

Combinatorial Optimization

Gerard Cornuejols, Pittsburgh
Fritz Eisenbrand, Lausanne
Bruce Shepherd, Montreal

16.11. - 22.11.2014 (1447)

Mathematical Logic:

Proof theory, Constructive Mathematics

Samuel R. Buss, La Jolla
Ulrich Kohlenbach, Darmstadt
Michael Rathjen, Leeds

23.11. - 29.11.2014 (1448)

Oberwolfach Seminars

N.N.

30.11. - 06.12.2014 (1449)

Mini-Workshops

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07.12. - 13.12.2014 (1450)

**Mathematics in Undergraduate Study Programs:
Challenges for Research and for the Dialogue
between Mathematics and Didactics of Mathematics**

Rolf Biehler, Paderborn
Reinhard Hochmuth, Lüneburg
Celia Hoyles, London
Patrick W. Thompson, Tempe

14.12. - 20.12.2014 (1451)

Variational Methods for Evolution

Luigi Ambrosio, Pisa
Alexander Mielke, Berlin
Mark Peletier, Eindhoven
Giuseppe Savare, Pavia