



Scientific Program 2016

Participants of the Workshops at Oberwolfach are invited personally by the Director of the Institute. Participation is subject to such an invitation. Interested researchers, in particular young mathematicians, can contact the administration of the Institute. Since the number of participants is restricted, not all inquiries can be considered.

03.01.2016 – 09.01.2016 (1601)

Model Theory: groups, geometry, and combinatorics

Katrin Tent, Münster
Frank Wagner, Villeurbanne
Martin Ziegler, Freiburg

10.01.2016 – 16.01.2016 (1602)

Graph Theory

Reinhard Diestel, Hamburg
Daniel Kral, Coventry
Paul Seymour, Princeton

17.01.2016 – 23.01.2016 (1603)

Lattices and Applications in Number Theory

Renaud Coulangeon, Talence
Benedict Gross, Cambridge MA
Gabriele Nebe, Aachen

24.01.2016 – 30.01.2016 (1604)

Mathematical Imaging and Surface Processing

Antonin Chambolle, Palaiseau
Martin Rumpf, Bonn
Peter Schröder, Pasadena

31.01.2016 – 06.02.2016 (1605)

Algebraic Cobordism and Projective Homogeneous Varieties

Stefan Gille, Edmonton
Marc Levine, Essen
Ivan Panin, St. Petersburg
Alexander Vishik, Nottingham

07.02.2016 – 13.02.2016 (1606a/b/c)

Mini-Workshops (Deadline for Application: 26.07.2015)

N.N.

14.02.2016 – 20.02.2016 (1607a)

Topological Recursion and TQFTs

Gaetan Borot, Bonn
Leonid Chekhov, Moscow
Bertrand Eynard, Gif-sur-Yvette
Katrin Wendland, Freiburg

14.02.2016 – 20.02.2016 (1607b)

Hochschild Cohomology in Algebra, Geometry, and Topology

Luchezar L. Avramov, Lincoln
Ragnar-Olaf Buchweitz, Toronto
Wendy Lowen, Antwerpen

21.02.2016 – 27.02.2016 (1608a)

Asymptotic Geometric Analysis

Shiri Artstein-Avidan, Tel Aviv
Hermann König, Kiel
Alexander Koldobsky, Columbia

21.02.2016 – 27.02.2016 (1608b)

New Developments in Functional and Highly

Multivariate Statistical Methodology

Gerda Claeskens, Leuven
Holger Dette, Bochum
Irène Gijbels, Leuven
Peter Hall, Melbourne

28.02.2016 – 05.03.2016 (1609a/b/c)

Mini-Workshops (Deadline for Application: 26.07.2015)

N.N.

06.03.2016 – 12.03.2016 (1610)

Computationally and Statistically Efficient Inference

for Complex Large-scale Data

Gilles Blanchard, Potsdam
Nicolai Meinshausen, Zürich
Richard Samworth, Cambridge
Ming Yuan, Madison

13.03.2016 – 19.03.2016 (1611)

Mechanics of Materials: Mechanics of Interfaces

and Evolving Microstructure

Reinhold Kienzler, Bremen
David L. McDowell, Atlanta
Stefan Müller, Bonn
Ewald A. Werner, München

20.03.2016 – 26.03.2016 (1612)

Geometric Numerical Integration

Erwan Faou, Bruz/Paris
Ernst Hairer, Genève
Marlis Hochbruck, Karlsruhe
Christian Lubich, Tübingen

27.03.2016 – 02.04.2016 (1613)

Toric Geometry

Jürgen Hausen, Tübingen
Diane Maclagan, Coventry
Hal Schenck, Urbana

03.04.2016 – 09.04.2016 (1614)

Arbeitsgemeinschaft (topic tba in winter 2015)

N.N.

10.04.2016 – 16.04.2016 (1615)

Diophantische Approximationen

Yann Bugeaud, Strasbourg
Philipp Habegger, Darmstadt
Umberto Zannier, Pisa

17.04.2016 – 23.04.2016 (1616)

Combinatorics and Probability

Bela Bollobás, Cambridge UK
Michael Krivelevich, Tel Aviv
Oliver Riordan, Oxford
Emo Welzl, Zürich

24.04.2016 – 30.04.2016 (1617)

Moduli spaces and Modular forms

Jan Hendrik Bruinier, Darmstadt
Gerard van der Geer, Amsterdam
Valery Gritsenko, Villeneuve d'Ascq

01.05.2016 – 07.05.2016 (1618)

Rough Paths, Regularity Structures and Related Topics

Thomas Cass, London
Peter Friz, Berlin
Massimiliano Gubinelli, Paris

08.05.2016 – 14.05.2016 (1619)

Cryptography

Johannes Buchmann, Darmstadt
Shafi Goldwasser, Cambridge MA

15.05.2016 – 21.05.2016 (1620a/b)

Oberwolfach Seminars (topics tba in winter 2015)

N.N.

22.05.2016 – 28.05.2016 (1621)

The Renormalization Group

Wojciech De Roeck, Leuven
Margherita Disertori, Bonn
Manfred Salmhofer, Heidelberg

29.05.2016 – 04.06.2016 (1622)

Nonlinear Evolution Problems

Klaus Ecker, Berlin
Jalal Shatah, New York
Gigliola Staffilani, Cambridge MA
Michael Struwe, Zürich

05.06.2016 – 11.06.2016 (1623)

Geometrie

John Lott, Berkeley
André Neves, London
Iskander Taimanov, Novosibirsk
Burkhard Wilking, Münster

12.06.2016 – 18.06.2016 (1624)

Classical Algebraic Geometry

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

19.06.2016 – 25.06.2016 (1625)

Hyperbolic Techniques in Modelling, Analysis and Numerics

Rinaldo M. Colombo, Brescia
Philippe G. LeFloch, Paris
Christian Rohde, Stuttgart

26.06.2016 – 02.07.2016 (1626)

Algebraic K-theory and Motivic Cohomology

Thomas Geisser, Nagoya
Annette Huber-Klawitter, Freiburg
Uwe Jannsen, Regensburg
Marc Levine, Essen

03.07.2016 – 09.07.2016 (1627a)

Statistics for Shape and Geometric Features

Dragi Anevski, Lund
Christopher Genovese, Pittsburgh
Geurt Jongbloed, Delft
Wolfgang Polonik, Davis

03.07.2016 – 09.07.2016 (1627b)

Learning Theory and Approximation

Andreas Christmann, Bayreuth
Kurt Jetter, Stuttgart
Steve Smale, Hong Kong
Ding-Xuan Zhou, Hong Kong

10.07.2016 – 16.07.2016 (1628)

Calculus of Variations

Simon Brendle, Stanford
Alessio Figalli, Austin
Robert L. Jerrard, Toronto
Neshan Wickramasekera, Cambridge UK

17.07.2016 – 23.07.2016 (1629)

Topologie

Mark Behrens, Notre Dame
Peter Teichner, Bonn
Nathalie Wahl, Copenhagen
Michael Weiss, Münster

24.07.2016 – 30.07.2016 (1630)

Recent Mathematical Developments in Quantum

Field Theory

Abdelmalek Abdesselam, Charlottesville
Stefan Hollands, Leipzig
Christoph Kopper, Palaiseau
Gandalf Lechner, Leipzig

31.07.2016 – 06.08.2016 (1631)

Computational Group Theory

Bettina Eick, Braunschweig
Gerhard Hiß, Aachen
Derek Holt, Coventry
Eamonn O'Brien, Auckland

07.08.2016 – 13.08.2016 (1632)

Arithmetic Geometry

Gerd Faltings, Bonn
Johan de Jong, New York
Peter Scholze, Bonn

14.08.2016 – 20.08.2016 (1633)

Multiscale Interactions in Geophysical Fluids

Rupert Klein, Berlin
Shafer Smith, New York
Jacques Vanneste, Edinburgh

21.08.2016 – 27.08.2016 (1634)

C*-Algebras

Mikael Rordam, Copenhagen
Andreas Thom, Leipzig
Stefaan Vaes, Leuven
Dan-Virgil Voiculescu, Berkeley

28.08.2016 – 03.09.2016 (1635)

Measured Group Theory

Miklos Abert, Budapest
Damien Gaboriau, Lyon
Andreas Thom, Leipzig

04.09.2016 – 10.09.2016 (1636)

Self-Adaptive Numerical Methods for Computationally

Challenging Problems

Randy Bank, La Jolla
Zhiqiang Cai, West Lafayette
Rüdiger Verfürth, Bochum

11.09.2016 – 17.09.2016 (1637)

Many-Body Quantum Systems and Effective Theories

Christian Hainzl, Tübingen
Benjamin Schlein, Zürich
Robert Seiringer, Klosterneuburg

18.09.2016 – 24.09.2016 (1638a)

Adaptive Algorithms

Carsten Carstensen, Berlin
Rob Stevenson, Amsterdam

18.09.2016 – 24.09.2016 (1638b)

Theory and Numerics of Inverse Scattering Problems

Fioralba Cakoni, Newark
Martin Hanke-Bourgeois, Mainz
Andreas Kirsch, Karlsruhe
William Rundell, College Station

25.09.2016 – 01.10.2016 (1639)

Singularities

Francois Loeser, Paris
András Némethi, Budapest
Duco van Straten, Mainz

02.10.2016 – 08.10.2016 (1640)

Mathematical and Algorithmic Aspects of Data Assimilation

in the Geosciences

Andreas Griewank, Berlin
Sebastian Reich, Potsdam
Ian Roulstone, Guildford
Andrew Stuart, Coventry

09.10.2016 – 15.10.2016 (1641)

Arbeitsgemeinschaft (topic tba in summer 2016)

N.N.

16.10.2016 – 22.10.2016 (1642a/b)

Oberwolfach Seminars (topics tba in winter 2015)

N.N.

23.10.2016 – 29.10.2016 (1643)

Definability and Decidability Problems in Number Theory

Jochen Koenigsmann, Oxford
Hector Pasten, Cambridge MA
Alexandra Shlapentokh, Greenville
Xavier Vidaux, Concepción

30.10.2016 – 05.11.2016 (1644a/b/c)

Mini-Workshops (Deadline for Application: 01.05.2016)

N.N.

06.11.2016 – 12.11.2016 (1645)

Analytic Number Theory

Jörg Brüdern, Göttingen
Hugh L. Montgomery, Ann Arbor
Robert C. Vaughan, State College
Trevor D. Wooley, Bristol

13.11.2016 – 19.11.2016 (1646)

Large Scale Stochastic Dynamics

Thierry Bodineau, Palaiseau
Fabio Toninelli, Villeurbanne
Bálint Tóth, Budapest

20.11.2016 – 26.11.2016 (1647a/b)

Oberwolfach Seminars (topics tba in winter 2015)

N.N.

27.11.2016 – 03.12.2016 (1648)

Heat Kernels, Stochastic Processes and Functional Inequalities

Masha Gordina, Storrs
Takashi Kumagai, Kyoto
Laurent Saloff-Coste, Ithaca
Karl-Theodor Sturm, Bonn

04.12.2016 – 10.12.2016 (1649)

Surface Bundles

Benson Farb, Chicago
Ursula Hamenstädt, Bonn
Andrew Ranicki, Edinburgh

11.12.2016 – 17.12.2016 (1650)

Asymptotic Phenomena in Local Algebra and Singularity Theory

Aldo Conca, Genova
Steven Dale Cutkosky, Columbia
Srikanth B. Iyengar, Salt Lake City

18.12.2016 – 24.12.2016 (1651a/b/c)

Mini-Workshops (Deadline for Application: 01.05.2016)

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