



Scientific Program 2017

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 junior scientists, can contact the administration of the Institute. Since the number of participants is restricted, not all inquiries can be considered.

01.01.2017 – 07.01.2017 (1701)

Combinatorics

Jeff Kahn, Piscataway
Angelika Steger, Zürich
Benny Sudakov, Zürich

08.01.2017 – 14.01.2017 (1702)

Mini-Workshops (Deadline for Applications: 01.05.2016)

N.N.

15.01.2017 – 21.01.2017 (1703)

Cryptography

Johannes Buchmann, Darmstadt
Shafi Goldwasser, Cambridge MA

22.01.2017 – 28.01.2017 (1704)

Emerging Developments in Interfaces and Free Boundaries

Charles M. Elliott, Warwick
Yoshikazu Giga, Tokyo
Michael Hinze, Hamburg
Vanessa Styles, Brighton

29.01.2017 – 04.02.2017 (1705)

Applications of Optimal Transportation in the Natural Sciences

Jean-David Benamou, Le Chesnay
Virginie Ehrlacher, Marne-la-Vallée
Daniel Matthes, Garching

05.02.2017 – 11.02.2017 (1706)

Mini-Workshops (Deadline for application: 01.05.2016)

N.N.

12.02.2017 – 18.02.2017 (1707)

Set Theory

Ilijas Farah, Toronto
Sy-David Friedman, Wien
Ralf Schindler, Münster
Hugh Woodin, Cambridge MA

19.02.2017 – 25.02.2017 (1708)

Representation Theory of Quivers and Finite Dimensional Algebras

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

26.02.2017 – 04.03.2017 (1709)

Mathematics of Quantitative Finance

Peter Friz, Berlin
Antoine Jacquier, London
Josef Teichmann, Zürich

05.03.2017 – 11.03.2017 (1710)

Real Algebraic Geometry With a View Toward Moment Problems and Optimization

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

12.03.2017 – 18.03.2017 (1711)

Space-time Methods for Time-dependent Partial Differential Equations

Ricardo Nochetto, College Park
Stefan Sauter, Zürich
Christian Wieners, Karlsruhe

19.03.2017 – 25.03.2017 (1712)

Statistical Recovery of Discrete, Geometric and Invariant Structures

Peter Bühlmann, Zürich
Axel Munk, Göttingen
Martin Wainwright, Berkeley
Bin Yu, Berkeley

26.03.2017 – 01.04.2017 (1713)

Multiscale and High-Dimensional Problems

Albert Cohen, Paris
Wolfgang Dahmen, Aachen
Ronald A. DeVore, College Station
Angela Kunoth, Köln

02.04.2017 – 08.04.2017 (1714)

Arbeitsgemeinschaft (Topic tba in summer 2016)

N.N.

09.04.2017 – 15.04.2017 (1715)

Discrete Geometry

Imre Barany, London
Xavier Goaoc, Marne-la-Vallée
Günter Rote, Berlin

16.04.2017 – 22.04.2017 (1716)

Algebraic Statistics

Mathias Drton, Seattle
Thomas Kahle, Magdeburg
Bernd Sturmfels, Berkeley
Caroline Uhler, Klosterneuburg

23.04.2017 – 29.04.2017 (1717)

Algebraic Groups

Corrado De Concini, Roma
Peter Littelmann, Köln
Zinovy Reichstein, Vancouver

30.04.2017 – 06.05.2017 (1718)

O-Minimality and its Applications to Number Theory and Analysis

Tobias Kaiser, Passau
Jonathan Pila, Oxford
Patrick Speissegger, Hamilton
Alex Wilkie, Manchester

07.05.2017 – 13.05.2017 (1719)

Geophysical Fluid Dynamics

Yoshikazu Giga, Tokyo
Matthias Hieber, Darmstadt
Edriss S. Titi, College Station/Rehovot

14.05.2017 – 20.05.2017 (1720)

Computational Inverse Problems for Partial Differential Equations

Liliana Borcea, Ann Arbor
Thorsten Hohage, Göttingen
Barbara Kaltenbacher, Klagenfurt

21.05.2017 – 27.05.2017 (1721)

Harmonic Analysis and the Trace Formula

Werner Müller, Bonn
Sug Woo Shin, Berkeley
Birgit Speh, Ithaca
Nicolas Templier, Ithaca

28.05.2017 – 03.06.2017 (1722)

Stochastic Analysis: Geometry of Random Processes

Alice Guionnet, Lyon
Martin Hairer, Warwick
Grégory Miermont, Lyon

04.06.2017 – 10.06.2017 (1723)

Oberwolfach Seminars (Topics tba in winter 2016)

N.N.

11.06.2017 – 17.06.2017 (1724)

Nonlinear Waves and Dispersive Equations

Herbert Koch, Bonn
Pierre Raphael, Nice
Daniel Tataru, Berkeley
Monica Visan, Los Angeles

18.06.2017 – 24.06.2017 (1725a)

Reaction Networks and Population Dynamics

Ellen Baake, Bielefeld
Tom Kurtz, Madison
Carsten Wiuf, Copenhagen

18.06.2017 – 24.06.2017 (1725b)

Nonlinear Partial Differential Equations on Graphs

Reika Fukuizumi, Sendai
Jeremy Marzuola, Chapel Hill
Dmitry Pelinovsky, Hamilton
Guido Schneider, Stuttgart

25.06.2017 – 01.07.2017 (1726)

Geometric Structures in Group Theory

Martin Bridson, Oxford
Linus Kramer, Münster
Bertrand Rémy, Palaiseau
Karen Vogtmann, Warwick

02.07.2017 – 08.07.2017 (1727)

Differentialgeometrie im Großen

Gerard Besson, Saint Martin d'Heres
Ursula Hamenstädt, Bonn
Michael Kapovich, Davis
Ben Weinkove, Evanston

09.07.2017 – 15.07.2017 (1728)

Dynamische Systeme

Hakan Eliasson, Paris
Helmut Hofer, Princeton
Jean-Christophe Yoccoz, Paris

16.07.2017 – 22.07.2017 (1729)

Material Theories

Sergio Conti, Bonn
Antonio DeSimone, Trieste
Stephan Luckhaus, Leipzig
Lev Truskinovsky, Palaiseau

23.07.2017 – 29.07.2017 (1730)

Real Analysis, Harmonic Analysis, and Applications

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

30.07.2017 – 05.08.2017 (1731)

Partial Differential Equations

Camillo De Lellis, Zürich
Richard M. Schoen, Stanford/Irvine
Peter M. Topping, Warwick

06.08.2017 – 12.08.2017 (1732)

Analysis, Geometry and Topology of Positive Scalar Curvature Metrics

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

13.08.2017 – 19.08.2017 (1733)

Proof Complexity and Beyond

Albert Atserias, Barcelona
Jakob Nordström, Stockholm
Toniann Pitassi, Toronto
Alexander Razborov, Chicago/Moscow

20.08.2017 – 26.08.2017 (1734)

Low-dimensional Topology and Number Theory

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

27.08.2017 – 02.09.2017 (1735)

Komplexe Analysis

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

03.09.2017 – 09.09.2017 (1736)

Automorphic Forms and Arithmetic

Valentin Blomer, Göttingen
Emmanuel Kowalski, Zürich
Philippe Michel, Lausanne

10.09.2017 – 16.09.2017 (1737)

Mathematical Questions and Challenges in Quantum Electrodynamics and its Applications

Volker Bach, Braunschweig
Miguel Ballesteros, Mexico
Dirk-André Deckert, München
Israel Michael Sigal, Toronto

17.09.2017 – 23.09.2017 (1738)

Mini-Workshops (Deadline for applications: 01.03.2017)

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24.09.2017 – 30.09.2017 (1739)

Algebraic Geometry: Birational Classification, Derived Categories, and Moduli Spaces

Christopher Hacon, Salt Lake City
Daniel Huybrechts, Bonn
Bernd Siebert, Hamburg
Chenyang Xu, Beijing

01.10.2017 – 07.10.2017 (1740)

Spectral Structures and Topological Methods in Mathematical Quasicrystals

Michael Baake, Bielefeld
David Damanik, Houston
Johannes Kellendonk, Villeurbanne
Daniel Lenz, Jena

08.10.2017 – 13.10.2017 (1741)

Arbeitsgemeinschaft (Topic tba in winter 2016)

N.N.

15.10.2017 – 21.10.2017 (1742)

Oberwolfach Seminars (Topics tba in winter 2016)

N.N.

22.10.2017 – 28.10.2017 (1743)

Mini-Workshops (Deadline for applications: 01.03.2017)

N.N.

29.10.2017 – 04.11.2017 (1744a)

Interplay between Number Theory and Analysis for Dirichlet Series

Frédéric Bayart, Aubière
Kaisa Matomäki, Turku
Eero Saksman, Helsinki
Kristian Seip, Trondheim

29.10.2017 – 04.11.2017 (1744b)

Copositivity and Complete Positivity

Abraham Berman, Haifa
Immanuel M. Bomze, Vienna
Mirjam Dür, Trier
Naomi Shaked-Monderer, Yezreel Valley

05.11.2017 – 11.11.2017 (1745)

Mathematical Logic: Proof Theory, Constructive Mathematics

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

12.11.2017 – 18.11.2017 (1746)

Variational Methods for Evolution

Alexander Mielke, Berlin
Mark Peletier, Eindhoven
Dejan Slepcev, Pittsburgh

19.11.2017 – 25.11.2017 (1747)

Oberwolfach Seminars (Topics tba in winter 2016)

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26.11.2017 – 02.12.2017 (1748)

Reflection Positivity

Arthur Jaffe, Harvard
Karl-Hermann Neeb, Erlangen
Gestur Olafsson, Baton Rouge
Benjamin Schlein, Zürich

03.12.2017 – 09.12.2017 (1749)

Classical and Quantum Mechanical Models of Many-Particle Systems

Anton Arnold, Wien
Eric Carlen, Piscataway
Laurent Desvillettes, Cachan

10.12.2017 – 16.12.2017 (1750)

Network Models: Structure and Function

Louigi Addario-Berry, Montreal
Shankar Bhamidi, Chapel Hill
Remco van der Hofstad, Eindhoven
Frank den Hollander, Leiden

17.12.2017 – 23.12.2017 (1751)

Mathematical Instruments between Material Artifacts and Ideal Machines: Their Scientific and Social Role before 1950

Samuel Gessner, Lisboa
Ulf Hashagen, München
Jeanne Peiffer, Paris
Dominique Tournès, Sainte-Clotilde