



Scientific Program 2020

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.

05.01. – 11.01.2020 (ID: 2002)

Combinatorics

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

12.01. – 18.01.2020 (ID: 2003)

Model Theory: Groups, Geometries and Combinatorics

Emmanuel Breuillard, Münster
Amador Martin-Pizarro, Freiburg
Katrin Tent, Münster
Frank Olaf Wagner, Lyon

19.01. – 25.01.2020 (ID: 2004)

Representation Theory of Quivers and Finite Dimensional Algebras

Claire Amiot, Grenoble
William Crawley-Boevey, Bielefeld
Osamu Iyama, Nagoya
Henning Krause, Bielefeld

26.01. – 01.02.2020 (ID: 2005)

Statistics meet Machine Learning

Fadoua Balabdaoui, Zürich
Lutz Dümbgen, Bern
Klaus-Robert Müller, Berlin
Richard Samworth, Cambridge UK

02.02. – 08.02.2020 (ID: 2006a)

Boundary Element Methods

Stéphanie Chaillat-Loseille, Palaiseau
Ralf Hiptmair, Zürich
Francisco-Javier Sayas, Newark
Olaf Steinbach, Graz

02.02. – 08.02.2020 (ID: 2006b)

New Perspectives and Computational Challenges in High Dimensions

Aicke Hinrichs, Linz
Joscha Prochno, Hull
Christoph Thäle, Bochum
Elisabeth Werner, Cleveland

09.02. – 15.02.2020 (ID: 2007)

Manifolds and Groups

Clara Löh, Regensburg
Oscar Randal-Williams, Cambridge UK
Thomas Schick, Göttingen

16.02. – 22.02.2020 (ID: 2008)

Low-dimensional Topology

Stefan Friedl, Regensburg
Yoav Moriah, Haifa
Jessica Purcell, Melbourne
Saul Schleimer, Warwick

23.02. – 29.02.2020 (ID: 2009a/b/c)

Mini-Workshops (Deadline for applications: August 1st, 2019)

N.N.

01.03. – 07.03.2020 (ID: 2010)

Real Algebraic Geometry with a View Toward Hyperbolic Programming and Free Probability

Didier Henrion, Toulouse
Salma Kuhlmann, Konstanz
Roland Speicher, Saarbrücken
Victor Vinnikov, Be'er Sheva

08.03. – 14.03.2020 (ID: 2011)

Mechanics of Materials: Towards Predictive Methods for Kinetics in Plasticity, Fracture, and Damage

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

15.03. – 21.03.2020 (ID: 2012a)

Algebraic Structures in Statistical Methodology

Mathias Drton, Copenhagen
Thomas Kahle, Magdeburg
Seth Sullivant, Raleigh
Caroline Uhler, Cambridge MA

15.03. – 21.03.2020 (ID: 2012b)

New Directions in Rough Path Theory

Thomas Cass, London
Dan Crisan, London
Peter Friz, Berlin
Massimiliano Gubinelli, Bonn

22.03. – 28.03.2020 (ID: 2013a/b/c)

Mini-Workshops (Deadline for applications: August 1st, 2019)

N.N.

29.03. – 04.04.2020 (ID: 2014)

Arbeitsgemeinschaft (Subject will be announced in summer 2019)

N.N.

05.04. – 11.04.2020 (ID: 2015)

Set Theory

Ilijas Farah, Toronto
Ralf Schindler, Münster
Dima Sinapova, Chicago
W. Hugh Woodin, Cambridge MA

12.04. – 18.04.2020 (ID: 2016)

Data Assimilation – Mathematical Foundation and Applications

Youssef M. Marzouk, Cambridge MA
Sebastian Reich, Potsdam
Aretha Teckentrup, Edinburgh

19.04. – 25.04.2020 (ID: 2017)

Diophantische Approximationen

Yann Bugeaud, Strasbourg
Pietro Corvaja, Udine
Laura DeMarco, Evanston
Philipp Habegger, Basel

26.04. – 02.05.2020 (ID: 2018)

Space-Time Methods for Time-Dependent Partial Differential Equations

Stig Larsson, Göteborg
Riccardo Nochetto, College Park
Stefan Sauter, Zürich
Christian Wieners, Karlsruhe

03.05. – 09.05.2020 (ID: 2019)

Random Graphs: Combinatorics, Complex Networks and Disordered Systems

Amin Coja-Oghlan, Frankfurt
Tobias Friedrich, Potsdam
Mihyun Kang, Graz
Konstantinos Panagiotou, München

10.05. – 16.05.2020 (ID: 2020)

Mathematical Imaging and Surface Processing

Mirela Ben-Chen, Haifa
Antonin Chambolle, Palaiseau
Martin Rumpf, Bonn
Peter Schröder, Pasadena

17.05. – 23.05.2020 (ID: 2021)

Mathematical Advances in Geophysical Fluid Dynamics

Yoshikazu Giga, Tokyo
Matthias Hieber, Darmstadt
Peter Korn, Hamburg
Edriss S. Titi, College Station and Rehovot

24.05. – 30.05.2020 (ID: 2022)

Nonlinear Waves and Dispersive Equations

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

31.05. – 06.06.2020 (ID: 2023a/b)

Oberwolfach Seminars (Subjects will be announced in winter 2019)

N.N.

07.06. – 13.06.2020 (ID: 2024)

Geometrie

Aaron Naber, Evanston
André Neves, Chicago
Burkhard Wilking, Münster

14.06. – 20.06.2020 (ID: 2025)

Universality: Random Matrices, Random Geometry and SPDEs

Martin Hairer, London
Grégory Miermont, Lyon
Horng-Tzer Yau, Cambridge MA

21.06. – 27.06.2020 (ID: 2026)

Geometric Structures in Group Theory

Martin Bridson, Oxford
Cornelia Drutu, Oxford
Linus Kramer, Münster
Bertrand Rémy, Palaiseau

28.06. – 04.07.2020 (ID: 2027)

Non-Commutative Geometry and Cyclic Homology

Alain Connes, Paris
Ryszard Nest, Copenhagen
Thomas Nikolaus, Münster
Guoliang Yu, College Station

05.07. – 11.07.2020 (ID: 2028)

Real Analysis, Harmonic Analysis and Applications

Michael Christ, Berkeley
Detlef Müller, Kiel
Christoph Thiele, Bonn
Ana Vargas, Madrid

12.07. – 18.07.2020 (ID: 2029)

Algebraic Geometry: Moduli spaces, Birational Geometry and Derived Aspects

Christopher Hacon, Salt Lake City
Daniel Huybrechts, Bonn
Richard Thomas, London
Chenyang Xu, Cambridge MA

19.07. – 25.07.2020 (ID: 2030)

Arithmetic Geometry

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

26.07. – 01.08.2020 (ID: 2031)

Topologie

Mark Behrens, Notre Dame
Ruth Charney, Waltham
Soren Galatius, Stanford/Copenhagen
Michael Weiss, Münster

02.08. – 08.08.2020 (ID: 2032)

Calculus of Variations

Alessio Figalli, Zürich
Robert V. Kohn, New York
Tatiana Toro, Washington
Neshan Wickramasekera, Cambridge UK

09.08. – 15.08.2020 (ID: 2033)

Cohomology of Finite Groups: Interactions and Applications

Alejandro Adem, Vancouver
David J. Benson, Aberdeen
Natàlia Castellana Vila, Bellaterra
Henning Krause, Bielefeld

16.08. – 22.08.2020 (ID: 2034)

Komplexe Analysis - Algebraicity and Transcendence

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

23.08. – 29.08.2020 (ID: 2035)

Low-Dimensional Topology and Number Theory

Paul E. Gunnells, Amherst
Thang Le, Atlanta
Adam S. Sikora, New York
Don B. Zagier, Bonn

30.08. – 05.09.2020 (ID: 2036)

Automorphic Forms and Arithmetic

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

06.09. – 12.09.2020 (ID: 2037a)

Topological and Smooth Dynamics on Surfaces

Tobias Jäger, Jena
Andres Koropec, Niteroi
Sonja Stimag, Zagreb
Fabio Tal, Sao Paulo

06.09. – 12.09.2020 (ID: 2037b)

Structure-Preserving Discretizations for Nonlinear Systems of Hyperbolic, Involution-Constrained Partial Differential Equations on Manifolds

Manuel Castro, Malaga
Bruno Despres, Paris
Michael Dumbser, Trento
Christian Klingenberg, Würzburg

13.09. – 19.09.2020 (ID: 2038)

Variational Methods for Evolution

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

20.09. – 26.09.2020 (ID: 2039)

Discrete Geometry

Karim Adiprasito, Jerusalem
Xavier Goaoc, Marne-la-Vallée
Günter Rote, Berlin

27.09. – 03.10.2020 (ID: 2040a)

Lefschetz Properties in Algebra, Geometry and Combinatorics

Martina Juhnke-Kubitzke, Osnabrück
Juan Migliore, Notre Dame
Rosa Miro-Roig, Barcelona
Justyna Szpond, Krakow

27.09. – 03.10.2020 (ID: 2040b)

Stochastic Processes under Constraints

Frank Aurzada, Darmstadt
Martin Kolb, Paderborn
Francoise Pene, Brest
Vitali Wachtel, Augsburg

04.10. – 10.10.2020 (ID: 2041a/b/c)

Mini-Workshops (Deadline for applications: March 1st, 2020)

N.N.

11.10. – 17.10.2020 (ID: 2042)

Arbeitsgemeinschaft (Subject will be announced in winter 2019)

N.N.

18.10. – 24.10.2020 (ID: 2043a/b)

Oberwolfach Seminars (Subjects will be announced in winter 2019)

N.N.

25.10. – 31.10.2020 (ID: 2044)

New Challenges in the Interplay between Finance and Insurance

Hansjörg Albrecher, Lausanne
Francesca Biagini, München
Monique Jeanblanc, Evry
Thorsten Schmidt, Freiburg

01.11. – 07.11.2020 (ID: 2045)

Control Methods in Hyperbolic Partial Differential Equations

Fabio Ancona, Padua
Bani Anvari, London
Olivier Glass, Paris
Michael Herty, Aachen

08.11. – 14.11.2020 (ID: 2046)

Mathematical Logic: Proof Theory, Constructive Mathematics

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

15.11. – 21.11.2020 (ID: 2047a/b/c)

Mini-Workshops (Deadline for applications: March 1st, 2020)

N.N.

22.11. – 28.11.2020 (ID: 2048a/b)

Oberwolfach Seminars (Subjects will be announced in winter 2019)

N.N.

29.11. – 05.12.2020 (ID: 2049)

Classical and Quantum Mechanical Models of Many-Particle Systems

Eric Carlen, Piscataway
Klemens Fellner, Graz
Isabelle Gallagher, Paris
Pierre-Emmanuel Jabin, College Park

06.12. – 12.12.2020 (ID: 2050)

Computational Inverse Problems for Partial Differential Equations

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

13.12. – 19.12.2020 (ID: 2051)

History of Mathematics: A Global Cultural Approach

Maarten Bullynck, Paris
Clemency Montelle, Christchurch
Volker Remmert, Wuppertal
David E. Rowe, Mainz