

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 excellent junior scientists working in the topic of a workshop, 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 tba 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 Wiemers, 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 tba 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 Koropecki, 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
 Françoise 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 tba in winter 2019)
 N.N.
- 18.10. – 24.10.2020 (ID: 2043a/b)
Oberwolfach Seminars (Subjects tba 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 tba 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