



Scientific Program 2025

Workshops

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

05.01. – 10.01.2025 (ID: 2502)

Graph Theory

Vida Dujmovic, Ottawa
Dan Král', Brno
Alex Scott, Oxford

12.01. – 17.01.2025 (ID: 2503)

Set Theory

Ilijas Farah, Toronto
Ralf Schindler, Münster
Dima Sinapova, Piscataway
Hugh Woodin, Cambridge MA

19.01. – 24.01.2025 (ID: 2504)

Cryptography

Johannes Buchmann, Darmstadt
Shafi Goldwasser, Berkeley
Yael Tauman Kalai, Cambridge MA
Vinod Vaikuntanathan, Cambridge MA

26.01. – 31.01.2025 (ID: 2505)

Overparametrization, Regularization, Identifiability and Uncertainty in Machine Learning

Nicolò Cesa-Bianchi, Milano
Philipp Hennig, Tübingen
Andreas Krause, Zürich
Ulrike von Luxburg, Tübingen

02.02. – 07.02.2025 (ID: 2506)

Mathematical Imaging and Surface Processing

Mirela Ben-Chen, Haifa
Antonin Chambolle, Paris
Benedikt Wirth, Münster

09.02. – 14.02.2025 (ID: 2507)

Geometric Structures in Group Theory

Martin Bridson, Oxford
Cornelia Drutu, Oxford
Linus Kramer, Münster
Bertrand Remy, Lyon

23.02. – 28.02.2025 (ID: 2509a)

Data Assimilation: From Mathematical and Statistical Foundations to Applications

Jana de Wiljes, Ilmenau
Youssef Marzouk, Cambridge MA
Aretha Teckentrup, Edinburgh

09.03. – 14.03.2025 (ID: 2511)

Mathematical Methods in Quantum Chemistry

Geneviève Dusson, Besançon
Michael Herbst, Lausanne
Benjamin Stamm, Stuttgart

16.03. – 21.03.2025 (ID: 2512)

Finite Groups, Fusion Systems and Applications

Inna Capdeboscq, Coventry
Ellen Henke, Dresden
Martin Liebeck, London

23.03. – 28.03.2025 (ID: 2513)

Frontiers of Statistics and Machine Learning

Marc Hoffmann, Paris
Richard J. Samworth, Cambridge UK
Johannes Schmidt-Hieber, Enschede
Claudia Strauch, Aarhus

06.04. – 11.04.2025 (ID: 2515)

Toric Geometry

Daniel Erman, Honolulu
Milena Hering, Edinburgh
Nathan Ilten, Burnaby
Hendrik Süß, Jena

13.04. – 18.04.2025 (ID: 2516)

Algebraic Groups

Philippe Gille, Villeurbanne
Friedrich Knop, Erlangen
Peng Shan, Beijing

20.04. – 25.04.2025 (ID: 2517)

Uncertainty Quantification

Oliver Ernst, Chemnitz
Fabio Nobile, Lausanne
Claudia Schillings, Berlin
Tim Sullivan, Coventry/London

27.04. – 02.05.2025 (ID: 2518)

Computational Multiscale Methods

Björn Engquist, Austin
Daniel Peterseim, Augsburg
Barbara Verfürth, Bonn
Yunan Yang, Ithaca

04.05. – 09.05.2025 (ID: 2519)

Singularities in Discrete Systems

Lucia Scardia, Edinburgh
Ulisse Stefanelli, Vienna
Florian Theil, Coventry

11.05. – 16.05.2025 (ID: 2520)

Mathematical Advances in Geophysical Fluid Dynamics

Anne-Laure Dalibard, Paris
Peter Korn, Hamburg
Leslie M. Smith, Madison
Edriss S. Titi, Cambridge UK/College Station/Rehovot

18.05. – 23.05.2025 (ID: 2521)

Enveloping Algebras and Geometric Representation Theory

Ghislain Fourier, Aachen
Iain Gordon, Edinburgh
Michaela Varagnolo, Cergy-Pontoise
Milen Yakimov, Boston

25.05. – 30.05.2025 (ID: 2522)

Statistical Physics Out of Equilibrium: Quantitative Results and Universality

Hugo Duminil-Copin, Genève/Bures-sur-Yvette
Patricia Gonçalves, Lisboa
Grégory Miermont, Lyon

01.06. – 06.06.2025 (ID: 2523)

Computational Group Theory

Bettina Eick, Braunschweig
Heiko Dietrich, Melbourne
Gabriele Nebe, Aachen
Colva Roney-Dougal, St Andrews

15.06. – 20.06.2025 (ID: 2525)

Recent Trends in Algebraic Geometry

Olivier Debarre, Paris
Gavril Farkas, Berlin
Rahul Pandharipande, Zürich
Claire Voisin, Paris

22.06. – 27.06.2025 (ID: 2526)

Non-Archimedean Geometry and Applications

Johannes Nicaise, London
Peter Scholze, Bonn
Michael Temkin, Jerusalem
Annette Werner, Frankfurt

29.06. – 04.07.2025 (ID: 2527)

Differentialgeometrie im Großen

Richard Bamler, Berkeley
Otis Chodosh, Stanford
Urs Lang, Zürich
Lu Wang, New Haven

06.07. – 11.07.2025 (ID: 2528)

Dynamische Systeme

Marie-Claude Arnaud, Paris
Sylvain Crovisier, Paris
Umberto Hryniewicz, Aachen
Michael Hutchings, Berkeley

13.07. – 18.07.2025 (ID: 2529)

Real Analysis, Harmonic Analysis, and Applications

Mike Christ, Berkeley
Larry Guth, Cambridge MA
Lillian Pierce, Durham
Christoph Thiele, Bonn

20.07. – 25.07.2025 (ID: 2530)

Partial Differential Equations

Ailana Fraser, Vancouver
Xavier Ros-Oton, Barcelona
Felix Schulze, Coventry

27.07. – 01.08.2025 (ID: 2531)

Subfactors and Applications

Dietmar Bisch, Nashville
Terry Gannon, Edmonton
Yasuyuki Kawahigashi, Tokyo
Yoshiko Ogata, Tokyo/Kyoto

03.08. – 08.08.2025 (ID: 2532)

C*-Algebras

Adrian Ioana, La Jolla
Dimitri Shlyakhtenko, Los Angeles
Andreas Thom, Dresden
Wilhelm Winter, Münster

10.08. – 15.08.2025 (ID: 2533)

Algebraic K-theory

Hélène Esnault, Berlin
Thomas Geisser, Tokyo
Lars Hesselholt, Copenhagen
Moritz Kerz, Regensburg

17.08. – 22.08.2025 (ID: 2534)

Computation and Learning in High Dimensions

Markus Bachmayr, Aachen
Albert Cohen, Paris
Angela Kunoth, Köln
Olga Mula, Eindhoven

Mini-Workshops

16.02. – 21.02.2025 (2508a/b/c), deadline for appl.: 01.09.2024
02.03. – 07.03.2025 (2510a/b/c), deadline for appl.: 01.09.2024
26.10. – 31.10.2025 (2544a/b/c), deadline for appl.: 01.04.2025
07.12. – 12.12.2025 (2550a/b/c), deadline for appl.: 01.04.2025

Tandem- or Mini-Workshops

21.09. – 26.09.2025 (2539a/b) deadline for appl.: 01.09.2024

Arbeitsgemeinschaft (study group)

30.03. – 04.04.2025 (2514), to be announced in summer 2024
05.10. – 10.10.2025 (2541), to be announced in winter 2024
12.10. – 17.10.2025 (2542), to be announced in winter 2024

Oberwolfach Seminars

08.06. – 13.06.2025 (2524a/b), to be announced in winter 2024
19.10. – 24.10.2025 (2543a/b), to be announced in winter 2024
23.11. – 28.11.2025 (2548a/b), to be announced in winter 2024

24.08. – 29.08.2025 (ID: 2535a)

Cohomology Theories for Automorphic Forms and Enumerative Algebra

Claudia Alfes-Neumann, Bielefeld
YoungJu Choie, Pohang
Anke Pohl, Bremen
Christopher Voll, Bielefeld

24.08. – 29.08.2025 (ID: 2535b)

Stein's Method in Stochastic Geometry, Statistical Learning, and Optimisation

Krishnakumar Balasubramanian, Davis
Murat A. Erdogdu, Toronto
Larry Goldstein, Los Angeles
Gesine Reinert, Oxford

31.08. – 05.09.2025 (ID: 2536)

Large Scale Stochastic Dynamics

Pietro Caputo, Roma
Fabio Toninelli, Vienna
Bálint Tóth, Bristol/Budapest

07.09. – 12.09.2025 (ID: 2537)

New Mathematical Directions in Coding Theory

Noga Ron-Zewi, Haifa
Mary Wootters, Stanford

14.09. – 19.09.2025 (ID: 2538)

Combinatorics, Probability and Computing

Robert Morris, Rio de Janeiro
Oliver Riordan, Oxford
Lisa Sauermann, Bonn

28.09. – 03.10.2025 (ID: 2540)

Singularities

Javier Fernandez de Bobadilla, Bilbao
François Loeser, Paris
András Némethi, Budapest
Duco van Straten, Mainz

02.11. – 07.11.2025 (ID: 2545)

Analytic Number Theory

Kaisa Matomäki, Turku
James Maynard, Oxford
Kannan Soundararajan, Stanford
Trevor D. Wooley, West Lafayette

09.11. – 14.11.2025 (ID: 2546)

Arithmetic Statistics for Algebraic Objects

Lior Bary-Soroker, Tel Aviv
Alina Ostafe, Sydney
Peter Sarnak, Princeton

16.11. – 21.11.2025 (ID: 2547)

Recent Developments in SPDEs and BSDEs meet Harmonic and Functional Analysis

Benjamin Gess, Bielefeld/Leipzig
Stefan Geiss, Jyväskylä
Stefanie Petermichl, Würzburg
Mark Veraar, Delft

30.11. – 05.12.2025 (ID: 2549)

Functional Inequalities: Geometric Calculus meets Stochastic Analysis

Masha Gordina, Storrs
Jessica Lin, Montreal
Emanuel Milman, Haifa
Karl-Theodor Sturm, Bonn

14.12. – 19.12.2025 (ID: 2551)

Homogeneous Structures: Model Theory meets Universal Algebra

Libor Barto, Praha
Manuel Bodirsky, Dresden
Aleksandra Kwiatkowska, Münster
Michael Pinsker, Wien