

Oberwolfach Meetings 2027



Mathematisches
Forschungsinstitut
Oberwolfach



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.

03.01. – 08.01.2027 ID: 2701

Moduli Theory in Differential Geometry and Analysis

B. Hanke (Augsburg), I. Alonso Lorenzo (Piscataway),
C. Mantoulidis (Houston), M. Upmeyer (Aberdeen)

10.01. – 15.01.2027 ID: 2702

Geometry of Motives

S. Gille (Edmonton), C. Ravi (Mumbai),
P. Sechin (Regensburg), A. Vishik (Nottingham)

17.01. – 22.01.2027 ID: 2703

Wave-Kinetic Interfaces: Dispersive Dynamics Meets Kinetic Theory

M. Iacobelli (Zürich), N. Pavlovic (Austin),
G. Staffilani (Cambridge MA), N. Visciglia (Pisa)

24.01. – 29.01.2027 ID: 2704

Geometric Methods in Data Science

M. Bauer (Tallahassee), X. Pennec (Sophia Antipolis),
S. Sommer (København), G. Steidl (Berlin)

31.01. – 05.02.2027 ID: 2705

Non-commutative Function Theory: A Link between Operator Theory and Random Matrices

M. Banna (Abu Dhabi), G. Cébron (Toulouse),
M. Hartz (Saarbrücken), J. E. McCarthy (St Louis)

07.02. – 12.02.2027 ID: 2706a

Mahler Measures and L-Functions

M. Lalin (Montréal), D. van Straten (Mainz),
W. Zudilin (Nijmegen)

07.02. – 12.02.2027 ID: 2706b

Lagrangian Torus Fibrations

M. Abouzaid (Stanford), E. Mazzon (Paris),
H. Ruddat (Stavanger)

14.02. – 19.02.2027 ID: 2707

Scientific Machine Learning: Mathematical Foundations and Algorithmic Advances

M. Han Veiga (Columbus), A. Heinlein (Delft),
C. B. Schönlieb (Cambridge UK), J. Zech (Heidelberg)

21.02. – 26.02.2027 ID: 2708

Hypoelliptic Operators in Geometry

W. Bauer (Hannover), X. Ma (Tianjin/Paris),
N. Savale (Dublin), Y. Wang (Baltimore)

28.02. – 05.03.2027 ID: 2709

Statistical Analysis of Black Box Models

P. Bartlett (Berkeley), S. Langer (Bochum),
J. Rousseau (Paris), S. Wang (Berlin)

07.03. – 12.03.2027 ID: 2710

Representations of Finite Groups

O. Dudas (Marseilles), R. Kessar (Manchester),
B. Späth (Wuppertal), P. H. Tiep (Rutgers)

21.03. – 26.03.2027 ID: 2712

Homotopy Theory

J. Grodal (København), M. Hill (Minneapolis),
B. Richter (Hamburg)

28.03. – 02.04.2027 ID: 2713

Generalized Computability Theory

J. P. Aguilera (Wien), N. Greenberg (Wellington),
B. Löwe (Hamburg/Cambridge UK),
M. I. Soskova (Madison)

04.04. – 09.04.2027 ID: 2714

Aperiodic Order: Spectral Theory, Harmonic Analysis and Dynamical Systems in Interaction

D. Damanik (Houston), D. Lenz (Jena),
N. P. Frank (Poughkeepsie), R. Yassawi (London)

11.04. – 16.04.2027 ID: 2715

Geometric, Algebraic and Topological Combinatorics

M. Juhnke (Osnabrück), E. Nevo (Jerusalem/Valladolid),
F. Santos (Santander), V. Welker (Marburg)

18.04. – 23.04.2027 ID: 2716

Structure Preserving Methods for Computational Geometric Mechanics

E. Celledoni (Trondheim), S. Ober-Blöbaum (Paderborn),
A. Palha (Delft), A. Stern (St Louis)

25.04. – 30.04.2027 ID: 2717

Mathematical Analysis of Fluid Dynamics Models

I. Kukavica (Los Angeles), A. Mazzucato (University Park),
E. S. Titi (Cambridge UK), E. Wiedemann (Erlangen)

02.05. – 07.05.2027 ID: 2718

Statistical Physics and Random Surfaces

C. Garban (Lyon), J. Miller (Cambridge UK),
S. Sheffield (Cambridge MA)

09.05. – 14.05.2027 ID: 2719

Complexity Theory

M. Bläser (Saarbrücken), I. Dinur (Princeton/Rehovot),
R. O'Donnell (Pittsburgh), S. Vadhan (Harvard)

23.05. – 28.05.2027 ID: 2721

Interactions between Algebraic Geometry and Noncommutative Algebra

W. Crawley-Boevey (Bielefeld), O. Schiffmann (Orsay),
S. Spenko (Bruxelles), M. Wemyss (Glasgow)

30.05. – 04.06.2027 ID: 2722a

Nonlinear Optics: Physics, Analysis, and Numerics

K. Busch (Berlin), R. El-Ganainy (St Louis),
M. Hochbruck (Karlsruhe), C. Lasser (München)

30.05. – 04.06.2027 ID: 2722b

Methods of Mathematization around 1900

H. Junker (Bonn), D. Kent (St Andrews),
J. Lorenat (Claremont)

06.06. – 11.06.2027 ID: 2723

Arithmetic of Shimura Varieties

K. Madapusi (Chestnut Hill), T. Richarz (Darmstadt),
E. Viehmann (Münster), M. Zhang (Princeton)

13.06. – 18.06.2027 ID: 2724

Homological Commutative Algebra and Applications to Geometry

H. Brenner (Osnabrück), D. Eisenbud (Berkeley),
E. Faber (Graz), C. Miller (Syracuse)

20.06. – 25.06.2027 ID: 2725

Recent Trends in Algebraic Geometry

G. Farkas (Berlin), M. Mustata (Ann Arbor),
R. Pandharipande (Zürich), C. Voisin (Paris)

27.06. – 02.07.2027 ID: 2726

Mathematical Horizons in Artificial Intelligence

C. Boyer (Paris), M. Hein (Tübingen),
R. Nowak (Madison), F. Yang (Zürich)

04.07. – 09.07.2027 ID: 2727

Differentialgeometrie im Grossen

O. Chodosh (Stanford), J. Lotay (Oxford),
A. Lytchak (Karlsruhe), L. Wang (New Haven)

11.07. – 16.07.2027 ID: 2728

Dynamische Systeme

S. Crovisier (Gif-sur-Yvette), U. L. Hryniewicz (Aachen),
T. M-Seara (Barcelona)

18.07. – 23.07.2027 ID: 2729

Discrete Nonlinear Optimization: Mathematics and Algorithms

J. Lee (Ann Arbor), R. Sotirov (Tilburg),
A. Wiegele (Klagenfurt)

25.07. – 30.07.2027 ID: 2730

Partial Differential Equations

A. Fraser (Vancouver), T. Lamm (Karlsruhe),
C. Mantoulidis (Houston), X. Ros-Oton (Barcelona)

29.08. – 03.09.2027 ID: 2735

Mathematical Aspects of General Relativity

C. Cederbaum (Tübingen), G. Holzegel (Münster),
J. Luk (Stanford), T. Oliynyk (Clayton)

12.09. – 17.09.2027 ID: 2737

Homotopical Algebra and Higher Structures

T. Dyckerhoff (Hamburg), J. Holstein (Hamburg),
M. Livernet (Paris), M. Markl (Prague)

Mini-Workshops

01.08. – 06.08.2027 (2731a/b)
deadline for appl.: 31.01.2027

08.08. – 13.08.2027 (2732a/b)
deadline for appl.: 31.01.2027

15.08. – 20.08.2027 (2733a/b)
deadline for appl.: 31.01.2027

22.08. – 27.08.2027 (2734a/b)
deadline for appl.: 31.01.2027

Timeslots for four further Mini-Workshops in winter 2027 will be announced on our website in 2026.

Tandem- or Mini-Workshops

05.09. – 10.09.2027 (2736a/b)
deadline for appl.: 01.09.26/31.01.27

Oberwolfach Seminars

16.05. – 21.05.2027 (2720a/b)
to be announced in winter 2026

24.10. – 29.10.2027 (2743a/b)
to be announced in winter 2026

21.11. – 26.11.2027 (2747a/b)
to be announced in winter 2026

Arbeitsgemeinschaft (study group)

14.03. – 19.03.2027 (2711)
to be announced in spring 2026

10.10. – 15.10.2027 (2741)
to be announced in fall 2026

17.10. – 22.10.2027 (2742),
to be announced in fall 2026

19.09. – 24.09.2027 ID: 2738

Proof Complexity and Beyond

P. Beame (Seattle), M. Mahajan (Chennai/Mumbai),
J. Nordström (Copenhagen/Lund), P. Pudlák (Praha)

26.09. – 01.10.2027 ID: 2739

Quantum Groups – Algebra, Analysis and Category Theory

S. Neshveyev (Oslo), D. Nikshych (Durham NH),
J. Plavnik (Bloomington), A. Skalski (Warsaw)

03.10. – 08.10.2027 ID: 2740

Polytopal Finite Element Methods for PDEs: Theory, Algorithms, and Machine Learning Enhancement

P. Antonietti (Milano), L. Beirão da Veiga (Milano),
J. Droniou (Montpellier), P. Wriggers (Hannover)

31.10. – 05.11.2027 ID: 2744

New Directions in Tomography: Theory and Applications

G. Ambartsoumian (Arlington), S. Arridge (London),
B. Hahn-Rigaud (Stuttgart), A. Wald (Göttingen)

07.11. – 12.11.2027 ID: 2745

Applications of Optimal Transportation

G. Carlier (Paris), E. Radici (L'Aquila),
F. Santambrogio (Lyon), B. Schmitzer (Göttingen)

14.11. – 19.11.2027 ID: 2746

Combinatorial Optimization

J. de Loera (Davis), V. Traub (Zürich), L. Végh (Bonn)

28.11. – 03.12.2027 ID: 2748

Applied Harmonic Analysis and Data Science

R. Alaifari (Aachen), A. Bandeira (Zürich),
F. Krahmer (Garching), R. Ward (Austin)

05.12. – 10.12.2027 ID: 2749

Machine Learning in Infinite Dimensions

M. de Hoop (Houston), Y. Korolev (Bath),
N. Mücke (Braunschweig), M. Thorpe (Coventry)

12.12. – 17.12.2027 ID: 2750

Convex Geometry and its Applications

S. Artstein-Avidan (Tel Aviv), D. Hug (Karlsruhe),
E. Werner (Cleveland)



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online!

Proposals invited