



Mathematisches Forschungsinstitut Oberwolfach

Scientific Programme 2013

Participants of the workshops at Oberwolfach are invited personally by the Director of the Institute. The participation is subject to such an invitation. Interested researchers, in particular young mathematicians, may contact the administration of the Institute (admin@mfo.de). Since the number of participants is restricted, not all inquiries can be considered. Information is also available on our website:

<http://www.mfo.de> or <http://www.oberwolfach.org>

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| 06.01.-12.01.2013 Model Theory: Groups, Geometry, and Combinatorics
Organisers: Ehud Hrushovski, Jerusalem
Anand Pillay, Leeds
Katrin Tent, Münster | 17.03.-23.03.2013 Interplay of Theory and Numerics for Deterministic and Stochastic Homogenization
Organisers: Guillaume Bal, New York
Björn Engquist, Austin
Claude Le Bris, Paris
Houman Owhadi, Pasadena |
| 13.01.-19.01.2013 Graph Theory
Organisers: Reinhard Diestel, Hamburg
Robin Thomas, Atlanta
Gabor Tardos, Burnaby | 24.03.-30.03.2013 Interfaces and Free Boundaries: Analysis, Control and Simulation
Organisers: Charles M. Elliott, Warwick
Yoshikazu Giga, Tokyo
Michael Hinze, Hamburg
Vanessa Styles, Brighton |
| 20.01.-26.01.2013 Computational Electromagnetism and Acoustics
Organisers: Ralf Hiptmair, Zürich
Ronald H. W. Hoppe, Augsburg/Houston
Patrick Joly, Le Chesnay
Ulrich Langer, Linz | 31.03.-06.04.2013 Arbeitsgemeinschaft
Organisers: N.N. |
| 27.01.-02.02.2013 Numerical Methods for PDE Constrained Optimization with Uncertain Data
Organisers: Matthias Heinkenschloss, Houston
Volker Schulz, Trier | 07.04.-13.04.2013 Algebraic Groups
Organisers: Michel Brion, Saint-Martin-d'Herès
Jens Carsten Jantzen, Aarhus
Zinovy Reichstein, Vancouver |
| 03.02.-09.02.2013 Integral Geometry and its Applications
Organisers: Semyon Alesker, Tel Aviv
Andreas Bernig, Frankfurt
Franz Schuster, Wien | 14.04.-20.04.2013 Combinatorics and Probability
Organisers: Bela Bollobas, Cambridge
Michael Krivelevich, Tel Aviv
Emo Welzl, Zürich |
| 03.02.-09.02.2013 Moduli Spaces in Algebraic Geometry
Organisers: Dan Abramovich, Providence
Lucia Caporaso, Roma
Gavril Farkas, Berlin
Stefan Kebekus, Freiburg | 21.04.-27.04.2013 Mathematical Statistics of Partially Identified Objects
Organisers: Victor Chernozhukov, Cambridge MA
Wolfgang Härdle, Berlin
Ya'acov Ritov, Jerusalem |
| 10.02.-16.02.2013 Mini-Workshops
Organisers: N.N. | 21.04.-27.04.2013 Extremes in Branching Random Walk and Branching Brownian Motion
Organisers: Louigi Addario-Berry, Montreal
Nathanael Berestycki, Cambridge
Nina Gantert, Garching |
| 17.02.-23.02.2013 Geophysical Fluid Dynamics
Organisers: Yoshikazu Giga, Tokyo
Matthias Hieber, Darmstadt
Edriss S. Titi, Irvine/Rehovot | 28.04.-04.05.2013 Progress in Surface Theory
Organisers: Uwe Abresch, Bochum
Franz Pedit, Tübingen
Masaaki Umehara, Tokyo |
| 24.02.-02.03.2013 Structured Function Systems and Applications
Organisers: Maria Charina, Dortmund
Jean-Bernard Lasserre, Toulouse
Mihai Putinar, Santa Barbara
Joachim Stöcker, Dortmund | 28.04.-04.05.2013 Geometric Knot Theory
Organisers: Dorothy Buck, London
Jason Cantarella, Athens
John M. Sullivan, Berlin
Heiko von der Mosel, Aachen |
| 03.03.-09.03.2013 From "Mixed" to "Applied" Mathematics: Tracing an important dimension of mathematics and its history
Organisers: Moritz Epple, Frankfurt
Tinne Hoff Kjeldsen, Roskilde
Reinhard Siegmund-Schultze, Kristiansand | 05.05.-11.05.2013 Heat Kernels, Stochastic Processes and Functional Inequalities
Organisers: Masha Gordina, Storrs
Takashi Kumagai, Kyoto
Laurent Saloff-Coste, Ithaca
Karl-Theodor Sturm, Bonn |
| 10.03.-16.03.2013 Representations of Lie Groups and Supergroups
Organisers: Joachim Hilgert, Paderborn
Toshiyuki Kobayashi, Tokyo
Karl-Hermann Neeb, Erlangen
Tudor Ratiu, Lausanne | |

- 12.05.-18.05.2013 Mini-Workshops**
Organisers: N.N.
- 19.05.-25.05.2013 Oberwolfach Seminars**
Organisers: N.N.
- 26.05.-01.06.2013 Complex Algebraic Geometry**
Organisers: Fabrizio Catanese, Bayreuth
Christopher Hacon, Salt Lake City
Yujiro Kawamata, Tokyo
Bernd Siebert, Hamburg
- 02.06.-08.06.2013 Geometric Structures in Group Theory**
Organisers: Martin Bridson, Oxford
Linus Kramer, Münster
Bertrand Remy, Villeurbanne
Karen Vogtmann, Ithaca
- 09.06.-15.06.2013 Hyperbolic Techniques for Phase Dynamics**
Organisers: Rinaldo M. Colombo, Brescia
Philippe G. LeFloch, Paris
Christian Rohde, Stuttgart
- 16.06.-22.06.2013 The Arithmetic of Fields**
Organisers: Moshe Jarden, Tel Aviv
Florian Pop, Philadelphia
- 16.06.-22.06.2013 Quadratic Forms and Linear Algebraic Groups**
Organisers: Detlev Hoffmann, Dortmund
Alexander Merkurjev, Los Angeles
Jean-Pierre Tignol, Louvain-la-Neuve
- 23.06.-29.06.2013 Algebraic K-theory and Motivic Cohomology**
Organisers: Thomas Geisser, Nagoya
Annette Huber-Klawitter, Freiburg
Uwe Jannsen, Regensburg
Marc Levine, Essen
- 30.06.-06.07.2013 Differentialgeometrie im Großen**
Organisers: Olivier Biquard, Paris
Simon Brendle, Stanford
Bernhard Leeb, München
- 07.07.-13.07.2013 Dynamische Systeme**
Organisers: Hakan Eliasson, Paris
Helmut W. Hofer, Princeton
Jean-Christophe Yoccoz, Paris
- 14.07.-20.07.2013 Explicit Methods in Number Theory**
Organisers: Karim Belabas, Bordeaux
Bjorn Poonen, Cambridge MA
Don B. Zagier, Bonn
- 21.07.-27.07.2013 Mini-Workshops**
Organisers: N.N.
- 28.07.-03.08.2013 Multiscale and High-Dimensional Problems**
Organisers: Albert Cohen, Paris
Wolfgang Dahmen, Aachen
Ronald A. DeVore, College Station
Angela Kunoth, Paderborn
- 04.08.-10.08.2013 Partial Differential Equations**
Organisers: Alice Chang, Princeton
Camillo De Lellis, Zürich
Reiner Schätzle, Tübingen
- 11.08.-17.08.2013 Nonlinear Waves and Dispersive Equations**
Organisers: Carlos E. Kenig, Chicago
Herbert Koch, Bonn
Daniel Tataru, Berkeley
- 18.08.-24.08.2013 Group Theory, Measure, and Asymptotic Invariants**
Organisers: Miklos Abert, Budapest
Damien Gaboriau, Lyon
Andreas Thom, Leipzig
- 25.08.-31.08.2013 C*-Algebren**
Organisers: Siegfried Echterhoff, Münster
Mikael Rordam, Copenhagen
Stefaan Vaes, Leuven
Dan-Virgil Voiculescu, Berkeley
- 01.09.-07.09.2013 Matrix Factorizations in Algebra, Geometry, and Physics**
Organisers: Ragnar-Olaf Buchweitz, Toronto
Kentaro Hori, Kashiwa
Henning Krause, Bielefeld
Christoph Schweigert, Hamburg
- 08.09.-14.09.2013 Noncommutative Geometry**
Organisers: Alain Connes, Paris
Joachim Cuntz, Münster
Marc A. Rieffel, Berkeley
Guoliang Yu, Nashville
- 15.09.-21.09.2013 Lattice Differential Equations**
Organisers: Guillaume James, Grenoble
Dmitry Pelinovsky, Hamilton
Zoi Rapti, Urbana
Guido Schneider, Stuttgart
- 15.09.-21.09.2013 High-Resolution Mathematical and Numerical Analysis of Involution-Constrained PDEs**
Organisers: Bruno Despres, Paris
Michael Dumbser, Trento
James Kamm, Albuquerque
Manuel Torrilhon, Aachen
- 22.09.-28.09.2013 Statistical Inference for Complex Time Series Data**
Organisers: Rainer Dahlhaus, Heidelberg
Oliver Linton, Cambridge
Wei-Biao Wu, Chicago
Qiwei Yao, London
- 29.09.-05.10.2013 Uniform Distribution Theory and Applications**
Organisers: Michael Gnewuch, Kiel
Frances Y. Kuo, Sydney
Harald Niederreiter, Linz/Dhahran
Henryk Wozniakowski, New York/Warszawa
- 06.10.-12.10.2013 Arbeitsgemeinschaft**
Organisers: N.N.
- 13.10.-19.10.2013 Oberwolfach Seminars**
Organisers: N.N.
- 20.10.-26.10.2013 Analytic Number Theory**
Organisers: Jörg Brüdern, Göttingen
Hugh L. Montgomery, Ann Arbor
Robert C. Vaughan, University Park
Trevor D. Wooley, Bristol
- 27.10.-02.11.2013 Large Scale Stochastic Dynamics**
Organisers: Claudio Landim, Rio der Janeiro
Stefano Olla, Paris
Herbert Spohn, Garching
- 03.11.-09.11.2013 Mini-Workshops:**
Organisers: N.N.
- 10.11.-16.11.2013 Design and Analysis of Infectious Disease Studies**
Organisers: Martin Eichner, Tübingen
Elizabeth Halloran, Seattle
Philip O'Neill, Nottingham
- 17.11.-23.11.2013 Numerical Solution of PDE Eigenvalue Problems**
Organisers: Andrew Knyazev, Denver
Volker Mehrmann, Berlin
Jinchao Xu, University Park
- 24.11.-30.11.2013 Oberwolfach Seminars**
Organisers: N.N.
- 01.12.-07.12.2013 Classical and Quantum Mechanical Models of Many-Particle Systems**
Organisers: Anton Arnold, Wien
Eric Carlen, Piscataway
Laurent Desvillettes, Cachan
- 08.12.-14.12.2013 Cluster Algebras and Related Topics**
Organisers: Bernhard Keller, Paris
Jan Schröer, Bonn
- 15.12.-21.12.2013 Material Theories**
Organisers: Antonio DeSimone, Trieste
Stephan Luckhaus, Leipzig
Lev Truskinovsky, Palaiseau