



Mathematisches Forschungsinstitut Oberwolfach

Scientific Programme 2012

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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| 01.01.-07.01.2012 Mini-Workshops (Deadline for Applications: 12.06.2011) Organisers: N.N. | 04.03.-10.03.2012 Enveloping Algebras and Geometric Representation Theory Organisers: Shrawan Kumar, Chapel Hill Peter Littelmann, Köln Wolfgang Soergel, Freiburg |
| 08.01.-14.01.2012 Explicit Versus Tacit Knowledge in Mathematics Organisers: Tom Archibald, Burnaby Jeanne Peiffer, Paris Norbert Schappacher, Strasbourg | 11.03.-17.03.2012 Frontiers in Nonparametric Statistics Organisers: Peter Bühlmann, Zürich Tony Cai, Philadelphia Axel Munk, Göttingen Bin Yu, Berkeley |
| 15.01.-21.01.2012 Recent Developments in the Numerics of Nonlinear Hyperbolic Conservation Laws and their Use in Science and Engineering Organisers: Rainer Ansorge, Hamburg Hester Bijl, Delft Andreas Meister, Kassel Thomas Sonar, Braunschweig | 18.03.-24.03.2012 Mechanics of Materials Organisers: Reinhold Kienzler, Bremen David L. McDowell, Atlanta Stefan Müller, Bonn Ewald A. Werner, München |
| 22.01.-28.01.2012 Interplay of Analysis and Probability in Physics Organisers: Wolfgang König, Berlin Peter Mörters, Bath Mark Peletier, Eindhoven Johannes Zimmer, Bath | 25.03.-31.03.2012 Representations of Finite Groups Organisers: Joseph Chuang, London Markus Linckelmann, Aberdeen Gunter Malle, Kaiserslautern Jeremy Rickard, Bristol |
| 29.01.-04.02.2012 The Mathematics and Statistics of Quantitative Risk Management Organisers: Richard A. Davis, New York Paul Embrechts, Zürich Thomas Mikosch, Copenhagen | 01.04.-07.04.2012 Arbeitsgemeinschaft (Subject will be announced in winter 2011) Organisers: N.N. |
| 05.02.-11.02.2012 Computability Theory Organisers: Klaus Ambos-Spies, Heidelberg Rodney G. Downey, Wellington Steffen Lempert, Madison Wolfgang Merkle, Heidelberg | 08.04.-14.04.2012 Mini-Workshops (Deadline for Applications: 18.09.2011) Organisers: N.N. |
| 12.02.-18.02.2012 Advanced Computational Engineering Organisers: Olivier Allix, Cachan Carsten Carstensen, Berlin Jörg Schröder, Essen Peter Wriggers, Hannover | 15.04.-21.04.2012 Toric Geometry Organisers: Klaus Altmann, Berlin Victor Batyrev, Tübingen Yael Karshon, Toronto |
| 19.02.-25.02.2012 Theory and Applications of Discontinuous Galerkin Methods Organisers: Susanne C. Brenner, Baton Rouge Ronald H.W. Hoppe, Augsburg Beatrice Riviere, Houston | 22.04.-28.04.2012 Diophantische Approximationen Organisers: Yann Bugeaud, Strasbourg Yuri Nesterenko, Moscow |
| 19.02.-25.02.2012 Inverse Problems for Partial Differential Equations Organisers: Martin Hanke-Bourgeois, Mainz Andreas Kirsch, Karlsruhe William Rundell, Austin Matti Lassas, Helsinki | 22.04.-28.04.2012 Singularity Theory and Integrable Systems Organisers: Boris Dubrovin, Trieste Claus Hertling, Mannheim Ian B. Strachan, Glasgow Katrin Wendland, Augsburg |
| 26.02.-03.03.2012 Control Theory: Mathematical Perspectives on Complex Networked Systems Organisers: Frank Allgöwer, Stuttgart Vincent Blondel, Louvain-la-Neuve Uwe Helmke, Würzburg | 29.04.-05.05.2012 Triangulations Organisers: William H. Jaco, Stillwater Frank H. Lutz, Berlin Francisco Santos, Santander John M. Sullivan, Berlin |
| | 06.05.-12.05.2012 Analysis and Geometric Singularities Organisers: Jochen Brüning, Berlin Rafe Mazzeo, Stanford Paolo Piazza, Roma |
| | 13.05.-19.05.2012 Nonlinear Evolution Problems Organisers: Klaus Ecker, Berlin Jalal Shatah, New York Gigliola Staffilani, Boston Michael Struwe, Zürich |

- 20.05.-26.05.2012 Geometrie**
Organisers: John Lott, Berkeley
Iskander Taimanov, Novosibirsk
Burkhard Wilking, Münster
- 27.05.-02.06.2012 Oberwolfach Seminars**
(Subjects will be announced in winter 2011)
Organisers: N.N.
- 03.06.-09.06.2012 Invariants in Low-Dimensional Topology and Knot Theory**
Organisers: Selman Akbulut, East Lansing
Stefan A. Bauer, Bielefeld
Louis H. Kauffman, Chicago
Vassily O. Manturov, Moscow
- 10.06.-16.06.2012 Applied Harmonic Analysis and Sparse Approximation**
Organisers: Ingrid Daubechies, Durham NC
Gitta Kutyniok, Osnabrück
Holger Rauhut, Bonn
Thomas Strohmer, Davis
- 17.06.-23.06.2012 Classical Algebraic Geometry**
Organisers: Olivier Debarre, Strasbourg
David Eisenbud, Berkeley
Frank Schreyer, Saarbrücken
Ravi Vakil, Stanford
- 24.06.-30.06.2012 Learning Theory and Approximation**
Organisers: Kurt Jetter, Hohenheim
Steve Smale, Hong Kong
Ding-Xuan Zhou, Hong Kong
- 01.07.-07.07.2012 Reductions of Shimura Varieties**
Organisers: Laurent Fargues, Orsay
Ulrich Görtz, Essen
Eva Viehmann, Bonn
Torsten Wedhorn, Paderborn
- 01.07.-07.07.2012 Geometric Aspects of Spectral Theory**
Organisers: Michiel van den Berg, Bristol
Daniel Grieser, Oldenburg
Thomas Hoffmann-Ostenhof, Vienna
Iosif Polterovich, Montreal
- 08.07.-14.07.2012 Discrete Differential Geometry**
Organisers: Alexander I. Bobenko, Berlin
Richard Kenyon, Providence
Peter Schröder, Pasadena
Günter M. Ziegler, Berlin
- 15.07.-21.07.2012 Geometric Group Theory, Hyperbolic Dynamics and Symplectic Geometry**
Organisers: Gerhard Knieper, Bochum
Leonid Polterovich, Tel Aviv/Chicago
Leonid Potyagailo, Villeneuve d Ascq
- 22.07.-28.07.2012 Calculus of Variations**
Organisers: Camillo De Lellis, Zürich
Gerhard Huisken, Golm
Robert Jerrard, Toronto
- 29.07.-04.08.2012 Mathematical Aspects of General Relativity**
Organisers: Mihalis Dafermos, Cambridge UK
Jim Isenberg, Eugene
Hans Ringström, Stockholm
- 05.08.-11.08.2012 Arithmetic Geometry**
Organisers: Gerd Faltings, Bonn
Johan de Jong, New York
- 12.08.-18.08.2012 Mathematical Aspects of Hydrodynamics**
Organisers: Peter Constantin, Chicago
Gregory Seregin, Oxford
- 19.08.-25.08.2012 Optimal and Near Optimal Configurations on Lattices and Manifolds**
Organisers: Christine Bachoc, Bordeaux
Peter Grabner, Graz
Edward B. Saff, Nashville
Achill Schürmann, Rostock
- 19.08.-25.08.2012 Rough Paths and PDEs**
Organisers: Dan Crisan, London
Peter Friz, Berlin
Massimiliano Gubinelli, Paris
- 26.08.-01.09.2012 Low-Dimensional Topology and Number Theory**
Organisers: Paul E. Gunnells, Amherst
Walter Neumann, New York
Adam S. Sikora, New York
Don Zagier, Bonn
- 02.09.-08.09.2012 Komplexe Analysis**
Organisers: Jean-Pierre Demailly, Grenoble
Klaus Hulek, Hannover
Thomas Peternell, Bayreuth
- 09.09.-15.09.2012 Scaling Limits in Models of Statistical Mechanics**
Organisers: Kenneth Alexander, Los Angeles
Marek Biskup, Los Angeles
Remco van der Hofstad, Eindhoven
Vladas Sidoravicius, Rio de Janeiro
- 16.09.-22.09.2012 Topologie**
Organisers: Thomas Schick, Göttingen
Peter Teichner, Berkeley/Bonn
Nathalie Wahl, Copenhagen
Michael Weiss, Aberdeen
- 23.09.-29.09.2012 Singularities**
Organisers: Andras Nemethi, Budapest
Duco van Straten, Mainz
Victor Vassiliev, Moscow
- 30.09.-06.10.2012 Mini-Workshops**
(Deadline for Applications: 18.03.2012)
Organisers: N.N.
- 07.10.-13.10.2012 Arbeitsgemeinschaft**
(Subject will be announced in summer 2012)
Organisers: N.N.
- 14.10.-20.10.2012 Oberwolfach Seminars**
(Subjects will be announced in winter 2011)
Organisers: N.N.
- 21.10.-27.10.2012 Computational Inverse Problems**
Organisers: Habib Ammari, Paris
Liliana Borcea, Houston
Thorsten Hohage, Göttingen
Barbara Kaltenbacher, Graz
- 28.10.-03.11.2012 C*-Algebras, Dynamics, and Classification**
Organisers: Joachim Cuntz, Münster
George A. Elliott, Toronto
Andrew Toms, West Lafayette
Wilhelm Winter, Nottingham
- 04.11.-10.11.2012 Non-Archimedean Analytic Geometry**
Organisers: Vladimir Berkovich, Rehovot
Walter Gubler, Tübingen
Annette Werner, Frankfurt
- 11.11.-17.11.2012 Complexity Theory**
Organisers: Peter Bürgisser, Paderborn
Oded Goldreich, Rehovot
Madhu Sudan, Cambridge MA
Salil Vadhan, Cambridge MA
- 18.11.-24.11.2012 Oberwolfach Seminars**
(Subjects will be announced in winter 2011)
Organisers: N.N.
- 25.11.-01.12.2012 Mini-Workshops**
(Deadline for Applications: 18.03.2012)
Organisers: N.N.
- 02.12.-08.12.2012 Mathematical and Algorithmic Aspects of Atmosphere-Ocean Data Assimilation**
Organisers: Andreas Griewank, Berlin
Sebastian Reich, Potsdam
Ian Roulstone, Surrey
Andrew Stuart, Coventry
- 09.12.-15.12.2012 Convex Geometry and its Applications**
Organisers: Keith M. Ball, London
Martin Henk, Magdeburg
Monika Ludwig, Wien
- 16.12.-22.12.2012 Dynamics of Patterns**
Organisers: Wolf-Jürgen Beyn, Bielefeld
Bernold Fiedler, Berlin
Björn Sandstede, Providence