



## Mathematisches Forschungsinstitut Oberwolfach

### Scientific Programme 2011

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, can contact the administration of the Institute. 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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| <b>02.01. – 08.01.2011 Combinatorics</b><br>Organizers: Jeff Kahn, Piscataway<br>Angelika Steger, Zürich<br>Benny Sudakov, Los Angeles  | <b>20.03. – 26.03.2011 Geometric Numerical Integration</b><br>Organizers: Ernst Hairer, Geneve<br>Marlis Hochbruck, Düsseldorf<br>Arieh Iserles, Cambridge<br>Christian Lubich, Tübingen  |
| <b>09.01. – 15.01.2011 Set Theory</b><br>Organizers: Sy-David Friedman, Vienna<br>Menachem Magidor, Jerusalem<br>W. Hugh Woodin, Berkeley   | <b>27.03. – 02.04.2011 Operator Algebras and Representation Theory: Frames, Wavelets and Fractals</b><br>Organizers: Palle Jorgensen, Iowa City<br>Gitta Kutyniok, Osnabrück<br>Gestur Olafsson, Baton Rouge<br>Sergei Silvestrov, Lund |
| <b>16.01. – 22.01.2011 Mini-Workshops</b><br>(Deadline for Applications: 25.06.2010)<br>Organizers: N.N.  | <b>03.04. – 09.04.2011 Arbeitsgemeinschaft</b><br>(Subject will be announced in winter 2010/11)<br>Organizers: N.N.   |
| <b>23.01. – 29.01.2011 Stochastic Analysis in Finance and Insurance</b><br>Organizers: Dmitry Kramkov, Pittsburgh<br>Martin Schweizer, Zürich<br>Nizar Touzi, Paris   | <b>10.04. – 16.04.2011 Geometric Methods of Complex Analysis</b><br>Organizers: Bo Berndtsson, Göteborg<br>John Eric Fornæss, Ann Arbor<br>Nikolay Shcherbina, Wuppertal  |
| <b>30.01. – 05.02.2011 Trends in Mathematical Imaging and Surface Processing</b><br>Organizers: Vicent Caselles, Barcelona<br>Martin Rumpf, Bonn<br>Guillermo Sapiro, Minneapolis<br>Peter Schröder, Pasadena             | <b>17.04. – 23.04.2011 Real Enumerative Questions in Complex and Tropical Geometry</b><br>Organizers: Grigory Mikhalkin, Geneve<br>Eugenii Shustin, Tel Aviv<br>Johannes Walcher, Genève<br>Jean-Yves Welschinger, Lyon                 |
| <b>06.02. – 12.02.2011 Topological and Geometric Combinatorics</b><br>Organizers: Anders Björner, Stockholm<br>Gil Kalai, Jerusalem<br>Isabella Novik, Seattle<br>Günter M. Ziegler, Berlin                               | <b>24.04. – 30.04.2011 Mini-Workshops</b><br>(Deadline for Applications: 24.09.2010)<br>Organizers: N.N.  |
| <b>13.02. – 19.02.2011 Geometric Quantization in the Non-compact Setting</b><br>Organizers: Lisa Jeffrey, Toronto<br>Xiaonan Ma, Paris<br>Michele Vergne, Paris   | <b>01.05. – 07.05.2011 Random Matrices, Geometric Functional Analysis and Algorithms</b><br>Organizers: Michel Ledoux, Toulouse<br>Mark Rudelson, Missouri<br>Gideon Schechtman, Rehovot  |
| <b>20.02. – 26.02.2011 Representation Theory of Quivers and Finite Dimensional Algebras</b><br>Organizers: Bill Crawley-Boevey, Leeds<br>Bernhard Keller, Paris<br>Henning Krause, Paderborn<br>Oyvind Solberg, Trondheim | <b>08.05. – 14.05.2011 Billiards, Flat Surfaces, and Dynamics on Moduli Spaces</b><br>Organizers: Howard Masur, Chicago<br>Martin Möller, Bonn<br>Anton Zorich, Rennes  |
| <b>27.02. – 05.03.2011 Mini-Workshops</b><br>(Deadline for Applications: 25.06.2010)<br>Organizers: N.N.  | <b>15.05. – 21.05.2011 Finite-dimensional Approximations of Discrete Groups</b><br>Organizers: Goulnara Arzhantseva, Genève<br>Andreas Thom, Göttingen<br>Alain Valette, Neuchâtel  |
| <b>06.03. – 12.03.2011 Automorphic Forms: New Directions</b><br>Organizers: Stephen S. Kudla, Toronto<br>Joachim Schwermer, Vienna  | <b>15.05. – 21.05.2011 New Directions in Algebraic K-Theory</b><br>Organizers: James F. Davis, Bloomington<br>Christian Haesemeyer, Los Angeles<br>Andrew Ranicki, Edinburgh<br>Marco Schlichting, Baton Rouge/Warwick                  |
| <b>13.03. – 19.03.2011 The Renormalization Group</b><br>Organizers: Margherita Disertori, Saint Etienne<br>Joel Feldman, Vancouver<br>Manfred Salmhofer, Heidelberg   |   |

- 22.05. – 28.05.2011 Schnelle Löser für Partielle Differentialgleichungen**  
Organizers: Randolph E. Bank, La Jolla  
Wolfgang Hackbusch, Leipzig  
Gabriel Wittum, Frankfurt
- 29.05. – 04.06.2011 Stochastic Analysis**  
Organizers: Alice Guionnet, Lyon  
Wendelin Werner, Orsay  
Ofer Zeitouni, Rehovot/Minnesota
- 05.06. – 11.06.2011 Arithmetic Groups vs. Mapping Class Groups: Similarities, Analogies and Differences**  
Organizers: Benson Farb, Chicago  
Lizhen Ji, Michigan  
Enrico Leuzinger, Karlsruhe  
Werner Müller, Bonn
- 12.06. – 18.06.2011 Oberwolfach Seminars**  
(Subjects will be announced in winter 2010)  
Organizers: N.N.
- 19.06. – 25.06.2011 Algebraische Zahlentheorie**  
Organizers: Benjamin Howard, Chestnut Hill  
Guido Kings, Regensburg  
Ramdorai Sujatha, Mumbai  
Otmar Venjakob, Heidelberg
- 26.06. – 02.07.2011 Mathematical Methods in Quantum Chemistry**  
Organizers: Gero Friesecke, München  
Peter Gill, Canberra
- 03.07. – 09.07.2011 Differentialgeometrie im Großen**  
Organizers: Olivier Biquard, Paris  
Xiuxiong Chen, Madison/Hefei  
Bernhard Leeb, München  
Gang Tian, Princeton/Beijing
- 10.07. – 16.07.2011 Dynamische Systeme**  
Organizers: Hakan Eliasson, Paris  
Helmut W. Hofer, Princeton  
Jean-Christophe Yoccoz, Paris
- 17.07. – 23.07.2011 Explicit Methods in Number Theory**  
Organizers: Karim Belabas, Talence  
Hendrik W. Lenstra, Leiden  
Don B. Zagier, Bonn
- 24.07. – 30.07.2011 Real Analysis, Harmonic Analysis and Applications**  
Organizers: Detlef Müller, Kiel  
Christoph Thiele, Los Angeles
- 31.07. – 06.08.2011 Computational Group Theory**  
Organizers: Bettina Eick, Braunschweig  
Gerhard Hiß, Aachen  
Derek Holt, Warwick  
Eamonn O'Brien, Auckland
- 07.08. – 13.08.2011 Partial Differential Equations**  
Organizers: Luigi Ambrosio, Pisa  
Alice Chang, Princeton  
Reiner Schätzle, Tübingen  
Georg S. Weiss, Tokyo
- 14.08. – 20.08.2011 Applied Dynamics and Geometric Mechanics**  
Organizers: Anthony M. Bloch, Ann Arbor  
Tudor S. Ratiu, Lausanne  
Jürgen Scheurle, München
- 21.08. – 27.08.2011 Mini-Workshops**  
(Deadline for Applications: 21.01.2011)  
Organizers: N.N.
- 28.08. – 03.09.2011 The Analytic Theory of Automorphic Forms**  
Organizers: Valentin Blomer, Toronto  
Philippe Michel, Lausanne  
Samuel J. Patterson, Göttingen
- 04.09. – 10.09.2011 Discrete Geometry**  
Organizers: Imre Barany, London  
Jiri Matousek, Praha  
Günter Rote, Berlin
- 11.09. – 17.09.2011 Noncommutative Geometry**  
Organizers: Alain Connes, Paris  
Joachim Cuntz, Münster  
Marc A. Rieffel, Berkeley  
Guoliang Yu, Nashville
- 18.09. – 24.09.2011 Homotopy Theory**  
Organizers: Paul Goerss, Evanston  
John Greenlees, Sheffield  
Stefan Schwede, Bonn
- 25.09. – 01.10.2011 Complex Algebraic Geometry**  
Organizers: Fabrizio Catanese, Bayreuth  
Yujiro Kawamata, Tokyo  
Bernd Siebert, Hamburg  
Gang Tian, Princeton
- 02.10. – 08.10.2011 Very High Dimensional Semiparametric Models**  
Organizers: Arnold Janssen, Düsseldorf  
Aad W. van der Vaart, Amsterdam  
Jon A. Wellner, Seattle
- 09.10. – 15.10.2011 Arbeitsgemeinschaft**  
(Subject will be announced in summer 2011)  
Organizers: N.N.
- 16.10. – 22.10.2011 Oberwolfach Seminars**  
(Subjects will be announced in winter 2010)  
Organizers: N.N.
- 23.10. – 29.10.2011 Correlations and Interactions for Random Quantum Systems**  
Organizers: Peter D. Hislop, Kentucky  
Werner Kirsch, Hagen  
Peter Müller, München  
Simone Warzel, München
- 30.10. – 05.11.2011 Emigration of Mathematicians and Transmission of Mathematics: Historical Lessons and Consequences of the Third Reich**  
Organizers: June Barrow-Green, Milton-Keynes  
Della Fenster, Richmond  
Reinhard Siegmund-Schultze, Kristiansand
- 06.11. – 12.11.2011 Mathematical Logic**  
Organizers: Samuel R. Buss, La Jolla  
Ulrich Kohlenbach, Darmstadt  
Michael Rathjen, Leeds
- 13.11. – 19.11.2011 Combinatorial Optimization**  
Organizers: Michel X. Goemans, Cambridge MA  
Monique Laurent, Amsterdam  
Jens Vygen, Bonn
- 20.11. – 26.11.2011 Oberwolfach Seminars**  
(Subjects will be announced in winter 2010)  
Organizers: N.N.
- 27.11. – 03.12.2011 Geometric Partial Differential Equations: Theory, Numerics and Applications**  
Organizers: Gerhard Dziuk, Freiburg  
Charles M. Elliott, Warwick  
Gerhard Huisken, Golm  
Ralf Kornhuber, Berlin
- 04.12. – 10.12.2011 Variational Methods for Evolution**  
Organizers: Alexander Mielke, Berlin  
Felix Otto, Bonn  
Giuseppe Savare, Pavia  
Ulisse Stefanelli, Pavia
- 11.12. – 17.12.2011 Stratified Spaces: Joining Analysis, Topology and Geometry**  
Organizers: Markus Banagl, Heidelberg  
Ulrich Bunke, Regensburg  
Shmuel Weinberger, Chicago