
List of Participants

1. Amar Micol
Univ. Roma, La Sapienza, Italy
`amar@dmmm.uniroma1.it`
2. Ambrosio Luigi
SNS, Pisa, Berkeley, Italy
`ambrosio@sns.it`
(lecturer)
3. Angiuli Luciana
Univ. Lecce, Italy
`luciana.angiuli@unile.it`
4. Argiolas Roberto
Univ. Cagliari, Italy
`roberarg@unica.it`
5. Arsenio Diogo
New York Univ., USA
`arsenio@cims.nyu.edu`
6. Bandyopadhyay Saugata
EPFL-Lausanne, Switzerland
`saugata.bandyopadhyay@epfl.ch`
7. Barroso Ana Cristina
Univ. Lisbon, Portugal
`abarroso@ptmat.fc.ul.pt`
8. Benedetti Irene
Univ. Firenze, Italy
`benedetti@math.unifi.it`
9. Benincasa Elisabetta
Univ. Calabria, Italy
`benincasa@mat.unical.it`
10. Bertone Simone
Univ. Milano-Bicocca, Italy
`simone_bertone@libero.it`
11. Birindelli Isabeau
Univ. Roma, La Sapienza, Italy
`isabeau@mat.uniroma1.it`
12. Brancolini Alessio
SNS, Pisa, Italy
`a.brancolini@sns.it`
13. Briani Ariela
Univ. Pisa, Italy
`briani@dm.unipi.it`
14. Caffarelli Luis
Univ. Texas at Austin, USA
`caffarel@math.utexas.edu`
(lecturer)
15. Cagnetti Filippo
SISSA, Italy
`cagnetti@sissa.it`
16. Castelpietra Marco
Univ. Roma, Tor Vergata, Italy
`castelpi@mat.uniroma2.it`
17. Celada Pietro
Univ. Parma, Italy
`pietro.celada@unipr.it`
18. Cellina Arrigo
Univ. Milano Bicocca, Italy
`cellina@matapp.unimib.it`

19. Cesaroni Annalisa
Univ. Roma, La Sapienza, Italy
acesar@math.unipd.it
20. Charro Caballero Fernando
Univ. Autónoma Madrid, Spain
fernando.charro@uam.es
21. Chermisi Milena
Univ. Roma Tor Vergata, Italy
chermisi@mat.uniroma2.it
22. Chinnici Marta
Univ. Napoli, Italy
marta.chinnici@dma.unina.it
23. Cicalese Marco
Univ. Napoli, Italy
cicalese@unina.it
24. Colucci Renato
Univ. L'Aquila, Italy
coluccir@univaq.it
25. Crandall Michael
Univ. California, Santa Barbara
crandall@math.ucsb.edu
(lecturer)
26. Crippa Gianluca
SNS, Pisa, Italy
g.crippa@sns.it
27. Croce Gisella
Univ. Montpellier II, France
croce@math.univ-montp2.fr
28. Cupini Giovanni
Univ. Firenze, Italy
cupini@math.unifi.it
29. Dacorogna Bernard
EPFL, Lausanne, Switzerland
Bernard.Dacorogna@epfl.ch
(editor)
30. Dal Maso Gianni
SISSA, Italy
dalmaso@sissa.it
31. Daryina Anna
Russian Peoples Friendship
University, Russia
daryina@ccas.ru
32. Davini Andrea
Univ. Pisa, Italy
davini@dm.unipi.it
33. De Cicco Virginia
Univ. Roma, La Sapienza, Italy
decicco@dm.unirioma1.it
34. De Pascale Luigi
Univ. Pisa, Italy
depascale@dm.unipi.it
35. Defranceschi Anneliese
Univ. Trento, Italy
defrance@science.unitn.it
36. Della Pietra Francesco
Univ. Napoli, Italy
dellapietra@dma.unina.it
37. Demyanov Alexey
St. Petersburg State University,
USA
alex@ad9503.spb.edu
38. Di Francesco Marco
Univ. L'Aquila, Italy
difrance@univaq.it
39. Di Nardo Rosaria
Univ. Napoli, Federico II
rosaria.dinardo@dma.unina.it
40. Donadello Carlotta
SISSA-ISAS, Italy
donadel@ma.sissa.it
41. Donatelli Donatella
Univ. L'Aquila, Italy
donatell@univaq.it
42. Donato Maria Bernadette
Univ. Messina, Italy
bdonato@dipmat.unime.it
43. Dragoni Federica
SNS, Pisa, Italy
f.dragoni@sns.it
44. Evans Craig L.
Univ. California, Berkeley, USA
evans@math.berkeley.edu
(lecturer)
45. Ferriero Alessandro
Ecole Polytechnique, France
ferriero@cmapx.polytechnique.fr
46. Figalli Alessio
SNS, Pisa, Italy
a.figalli@sns.it

47. Focardi Matteo
Univ. Firenze, Italy
focardi@math.unifi.it
48. Fonte Massimo
SISSA, Italy
fonte@sissa.it
49. Forcadel Nicolas
Cermics-ENPC, France
forcadel@cermics.enpc.fr
50. Frosali Giovanni
Univ. Firenze, Italy
giovanni.frosali@unifi.it
51. Fusco Nicola
Univ. Napoli, Italy
n.fusco@unina.it
(lecturer)
52. Garroni Adriana
Univ. Roma, La Sapienza, Italy
garroni@mat.uniroma1.it
53. Gavitone Nunzia
Univ. Napoli, Italy
nunzia.gavitone@dma.unina.it
54. Gebäck Tobias
Chalmers Univ. of Technology
Sweden
tobiasg@math.chalmers.se
55. Gelli Maria Stella
Univ. Pisa, Italy
gelli@dm.unipi.it
56. Giorgieri Elena
Univ. Roma, Tor Vergata, Italy
giorgieri@math.uniroma2.it
57. Granieri Luca
Univ. Pisa, Italy
granieri@mail.dm.unipi.it
58. Grasmair Markus
Univ. Innsbruck, Austria
markus.grasmair@uibk.ac.at
59. Grillo Gabriele
Politecnico di Torino, Italy
gabriele.grillo@polito.it
60. Grishchenko Alexey
Voronezh State Univ., Russia
alex_gr@rambler.ru
61. Iosifescu Oana
Univ. Montpellier II, France
iosifescu@math.univ-montp2.fr
62. Ivanov Denis
St. Petersburg State Univ.,
Russia
denisiv@rol.ru
63. Kurzke Matthias
IMA, Univ. Minnesota, USA
kurzke@ima.umn.edu
64. Kuteeva Galina
Saint-Petersburg State Univ.,
Russia
star@gk1662.spb.edu
65. La Russa Caterina
Univ. Palermo, Italy
larussa@math.unipa.it
66. Lattanzio Corrado
Univ. L'Aquila, Italy
corrado@univaq.it
67. Lebedyanskiy Victor
Univ. Voronezh RIT, Russia
leb.v@vpost.ru
68. Leonardi Gian Paolo
Univ. Padova, Italy
leonardi@dmsa.unipd.it
69. Leonetti Francesco
Univ. L'Aquila, Italy
leonetti@univaq.it
70. Leoni Fabiana
Univ. Roma, La Sapienza, Italy
leoni@mat.uniroma1.it
71. Leonori Tommaso
Univ. Roma, Tor Vergata
leonori@mat.uniroma2.it
72. Lewicka Marta
Univ. Chicago, USA
lewicka@math.uchicago.edu
73. Lorenz Thomas
Univ. Heidelberg, Germany
lorenz@iwr.uni-heidelberg.de
74. Loreti Paola
Univ. Roma, La Sapienza, Italy
loreti@dmmm.uniroma1.it

75. Lussardi Luca
Univ. Pavia, Italy
luca.lussardi@email.it
76. Lyakhova Sofya
Univ. Bristol, UK
s.lyakhova@bristol.ac.uk
77. Maddalena Francesco
Politecnico di Bari, Italy
maddalen@pascal.dm.uniba.it
78. Magnanini Rolando
Univ. Firenze, Italy
magnanin@math.unifi.it
79. Mannucci Paola
Univ. Padova, Italy
mannucci@math.unipd.it
80. Marcati Pierangelo
Univ. L'Aquila, Italy
marcati@univaq.it
81. Marcellini Paolo
Univ. Firenze, Italy
marcellini@math.unifi.it
(editor)
82. Marchini Elsa
CREA - École Polytechnique,
France
elsa.marchini@unimib.it
83. Maréchal Pierre
Univ. Toulouse 3, France
pierre.marechal@epfl.ch
84. Mariconda Carlo
Univ. Padova, Italy
maricond@math.unipd.it
85. Marigonda Antonio
Univ. Padova, Italy
amarigo@math.unipd.it
86. Mascolo Elvira
Univ. Firenze, Italy
mascolo@math.unifi.it
87. Matias José
Instituto Superior Técnico,
Lisboa, Portugal
jmatias@math.ist.utl.pt
88. Mazzini Leonardo
Alenia Spazio, Italy
leonardo.mazzini@aleniaspazio.it
89. Milakis Emmanouil
Univ. Crete, Crete
milakis@math.uoc.gr
90. Milasi Monica
Univ. Messina, Italy
monica@dipmat.unime.it
91. Modica Giuseppe
Univ. Firenze, Italy
giuseppe.modica@unifi.it
92. Montanari Annamaria
Univ. Bologna, Italy
montanar@dm.unibo.it
93. Mora Maria Giovanna
SISSA, Italy
mora@sissa.it
94. Morini Massimiliano
SISSA, Italy
morini@sissa.it
95. Mugelli Francesco
Univ. Firenze, Italy
mugelli@math.unifi.it
96. Muratov Cyril
NJIT, USA
muratov@njit.edu
97. Naumova Natalia
Saint-Petersburg State Univ.,
Russia
naumova@troll.phys.spbu.ru
98. Olech Michal
Univ. University Wroclaw
Poland
olech@math.uni.wroc.pl
99. Orlandi Giandomenico
Univ. Verona, Italy
orlandi@sci.univr.it
100. Panasenko Elena
Tambov State Univ., Russia
panlena_t@mail.ru
101. Papi Gloria
Univ. Firenze, Italy
papi@math.unifi.it
102. Paronetto Fabio
Univ. Lecce, Italy
fabio.paronetto@unile.it

103. Percivale Danilo
Univ. Genova, Italy
`percivale@dimet.unige.it`
104. Perrotta Stefania
Univ. Modena e Reggio Emilia
Italy
`perrotta@mail.unimo.it`
105. Petitta Francesco
Univ. Roma, La Sapienza, Italy
`petitta@mat.uniroma1.it`
106. Pisante Adriano
Univ. Roma, La Sapienza, Italy
`pisante@mat.uniroma1.it`
107. Pisante Giovanni
School of Maths, Georgia Tech.,
USA
`pisante@math.gatech.edu`
108. Poggiolini Laura
Univ. Firenze, Italy
`poggiolini@math.unifi.it`
109. Ponsiglione Marcello
Max-Planck-Institute, Germany
`ponsigli@mis.mpg.de`
110. Posilicano Andrea
Univ. dell'Insubria, Italy
`posilicano@uninsubria.it`
111. Pratelli Aldo
Univ. Pavia, Italy
`aldo.pratelli@unipv.it`
112. Primi Ivano
Univ. Roma, La Sapienza, Italy
`primi@mat.uniroma1.it`
113. Prinari Francesca
Univ. Lecce, Italy
`prinari@mail.dm.unipi.it`
114. Priuli Simone Fabio
SISSA -ISAS, Italy
`priuli@sisssa.it`
115. Radice Teresa
Univ. Napoli, Italy
`teresa.radice@dma.unina.it`
116. Rampazzo Franco
Univ. Padova, Italy
`rampazzo@math.unipd.it`
117. Ribeiro Ana
EPFL-Lausanne, Switzerland
`ana.ribeiro@epfl.ch`
118. Riey Giuseppe
Univ. Calabria, Italy
`riey@mat.unical.it`
119. Roeger Matthias
Technical Univ. Eindhoven,
Netherlands
`mroeger@win.tue.nl`
120. Rorro Marco
Univ. Roma, La Sapienza, Italy
`rorro@caspur.it`
121. Rossi Julio
CSIC (Madrid, Spain)/
Univ de Buenos Aires
`jrossi@dm.uba.ar`
122. Rubino Bruno
Univ. L'Aquila, Italy
`rubino@ing.univaq.it`
123. Santambrogio Filippo
SNS, Pisa, Italy
`santambrogio@sns.it`
124. Scardia Lucia
SISSA, Italy
`scardia@sisssa.it`
125. Segatti Antonio
Univ. Pavia, Italy
`antonio.segatti@unipv.it`
126. Serapioni Raul
Univ. Trento, Italy
`serapion@science.unitn.it`
127. Shishkina Elina
Voronezh St. Tech Academy,
Russia
`ilina_dico@mail.ru`
128. Siconolfi Antonio
Univ. Roma, La Sapienza, Italy
`siconolf@mat.uniroma1.it`
129. Silvestre Luis
Univ. Texas at Austin, USA
`lsilvest@math.utexas.edu`
130. Sirakov Boyan
Univ. Paris X, Italy
`sirakov@ehess.fr`

131. Solferino Viviana
Univ. Calabria, Italy
`solferino@mat.unical.it`
132. Soravia Pierpaolo
Univ. Padova, Italy
`soravia@math.unipd.it`
133. Spinolo Laura Valentina
SISSA, Italy
`spinolo@sissa.it`
134. Stefanelli Ulisse
CNR, Italy
`ulisse@imati.cnr.it`
135. Stroppolini Bianca
Univ. Napoli, Italy
`bstroppolini@unina.it`
136. Terra Joana
Univ. Politecnica de Catalunya,
Spain
`joana.terra@upc.edu`
137. Terrone Gabriele
Univ. Padova, Italy
`gabter@math.unipd.it`
138. Treu Giulia
Univ. Padova, Italy
`treu@math.unipd.it`
139. Turbin Mikhail
Voronezh State Univ., Russia
`mrsmike@math.vsu.ru`
140. Veneroni Marco
Univ. Pavia, Italy
`marco.veneroni@unipv.it`
141. Verzini Gianmaria
Politecnico di Milano, Italy
`gianmaria.verzini@polimi.it`
142. Villa Elena
Univ. Milano, Italy
`villa@mat.unimi.it`
143. Villa Silvia
Univ. Firenze, Italy
`villa@math.unifi.it`
144. Vitali Enrico
Univ. Pavia, Italy
`enrico.vitali@unipv.it`
145. Zanini Chiara
SISSA-ISAS, Italy
`zaninic@sissa.it`
146. Zappale Elvira
Univ. Salerno, Italy
`zappale@bridge.diima.unisa.it`
147. Zeppieri Caterina
Univ. Roma, La Sapienza, Italy
`zeppieri@mat.uniroma1.it`

LIST OF C.I.M.E. SEMINARS

Published by C.I.M.E

- | | |
|------|---|
| 1954 | 1. Analisi funzionale
2. Quadratura delle superficie e questioni connesse
3. Equazioni differenziali non lineari |
| 1955 | 4. Teorema di Riemann-Roch e questioni connesse
5. Teoria dei numeri
6. Topologia
7. Teorie non linearizzate in elasticità, idrodinamica, aerodinamic
8. Geometria proiettivo-differenziale |
| 1956 | 9. Equazioni alle derivate parziali a caratteristiche reali
10. Propagazione delle onde elettromagnetiche automorfe
11. Teoria della funzioni di più variabili complesse e delle funzioni |
| 1957 | 12. Geometria aritmetica e algebrica (2 vol.)
13. Integrali singolari e questioni connesse
14. Teoria della turbolenza (2 vol.) |
| 1958 | 15. Vedute e problemi attuali in relatività generale
16. Problemi di geometria differenziale in grande
17. Il principio di minimo e le sue applicazioni alle equazioni funzionali |
| 1959 | 18. Induzione e statistica
19. Teoria algebrica dei meccanismi automatici (2 vol.)
20. Gruppi, anelli di Lie e teoria della coomologia |
| 1960 | 21. Sistemi dinamici e teoremi ergodici
22. Forme differenziali e loro integrali |
| 1961 | 23. Geometria del calcolo delle variazioni (2 vol.)
24. Teoria delle distribuzioni
25. Onde superficiali |
| 1962 | 26. Topologia differenziale
27. Autovalori e autosoluzioni
28. Magnetofluidodinamica |
| 1963 | 29. Equazioni differenziali astratte
30. Funzioni e varietà complesse
31. Proprietà di media e teoremi di confronto in Fisica Matematica |
| 1964 | 32. Relatività generale
33. Dinamica dei gas rarefatti
34. Alcune questioni di analisi numerica
35. Equazioni differenziali non lineari |
| 1965 | 36. Non-linear continuum theories
37. Some aspects of ring theory
38. Mathematical optimization in economics |

Published by Ed. Cremonese, Firenze

- | | |
|------|---|
| 1966 | 39. Calculus of variations
40. Economia matematica
41. Classi caratteristiche e questioni connesse
42. Some aspects of diffusion theory |
| 1967 | 43. Modern questions of celestial mechanics
44. Numerical analysis of partial differential equations
45. Geometry of homogeneous bounded domains |
| 1968 | 46. Controllability and observability
47. Pseudo-differential operators
48. Aspects of mathematical logic |
| 1969 | 49. Potential theory
50. Non-linear continuum theories in mechanics and physics and their applications
51. Questions of algebraic varieties |
| 1970 | 52. Relativistic fluid dynamics
53. Theory of group representations and Fourier analysis
54. Functional equations and inequalities
55. Problems in non-linear analysis |
| 1971 | 56. Stereodynamics
57. Constructive aspects of functional analysis (2 vol.)
58. Categories and commutative algebra |
| 1972 | 59. Non-linear mechanics
60. Finite geometric structures and their applications
61. Geometric measure theory and minimal surfaces |
| 1973 | 62. Complex analysis
63. New variational techniques in mathematical physics
64. Spectral analysis |
| 1974 | 65. Stability problems
66. Singularities of analytic spaces
67. Eigenvalues of non linear problems |
| 1975 | 68. Theoretical computer sciences
69. Model theory and applications
70. Differential operators and manifolds |

Published by Ed. Liguori, Napoli

- | | |
|------|---|
| 1976 | 71. Statistical Mechanics
72. Hyperbolicity
73. Differential topology |
| 1977 | 74. Materials with memory
75. Pseudodifferential operators with applications
76. Algebraic surfaces |

Published by Ed. Liguori, Napoli & Birkhäuser

- | | |
|------|---|
| 1978 | 77. Stochastic differential equations
78. Dynamical systems |
| 1979 | 79. Recursion theory and computational complexity
80. Mathematics of biology |

- 1980 81. Wave propagation
 82. Harmonic analysis and group representations
 83. Matroid theory and its applications

Published by Springer-Verlag

- | | | |
|------|--|------------|
| 1981 | 84. Kinetic Theories and the Boltzmann Equation | (LNM 1048) |
| | 85. Algebraic Threefolds | (LNM 947) |
| | 86. Nonlinear Filtering and Stochastic Control | (LNM 972) |
| 1982 | 87. Invariant Theory | (LNM 996) |
| | 88. Thermodynamics and Constitutive Equations | (LNP 228) |
| | 89. Fluid Dynamics | (LNM 1047) |
| 1983 | 90. Complete Intersections | (LNM 1092) |
| | 91. Bifurcation Theory and Applications | (LNM 1057) |
| | 92. Numerical Methods in Fluid Dynamics | (LNM 1127) |
| 1984 | 93. Harmonic Mappings and Minimal Immersions | (LNM 1161) |
| | 94. Schrödinger Operators | (LNM 1159) |
| | 95. Buildings and the Geometry of Diagrams | (LNM 1181) |
| 1985 | 96. Probability and Analysis | (LNM 1206) |
| | 97. Some Problems in Nonlinear Diffusion | (LNM 1224) |
| | 98. Theory of Moduli | (LNM 1337) |
| 1986 | 99. Inverse Problems | (LNM 1225) |
| | 100. Mathematical Economics | (LNM 1330) |
| | 101. Combinatorial Optimization | (LNM 1403) |
| 1987 | 102. Relativistic Fluid Dynamics | (LNM 1385) |
| | 103. Topics in Calculus of Variations | (LNM 1365) |
| 1988 | 104. Logic and Computer Science | (LNM 1429) |
| | 105. Global Geometry and Mathematical Physics | (LNM 1451) |
| 1989 | 106. Methods of nonconvex analysis | (LNM 1446) |
| | 107. Microlocal Analysis and Applications | (LNM 1495) |
| 1990 | 108. Geometric Topology: Recent Developments | (LNM 1504) |
| | 109. H_∞ Control Theory | (LNM 1496) |
| | 110. Mathematical Modelling of Industrial Processes | (LNM 1521) |
| 1991 | 111. Topological Methods for Ordinary Differential Equations | (LNM 1537) |
| | 112. Arithmetic Algebraic Geometry | (LNM 1553) |
| | 113. Transition to Chaos in Classical and Quantum Mechanics | (LNM 1589) |
| 1992 | 114. Dirichlet Forms | (LNM 1563) |
| | 115. D-Modules, Representation Theory, and Quantum Groups | (LNM 1565) |
| | 116. Nonequilibrium Problems in Many-Particle Systems | (LNM 1551) |
| 1993 | 117. Integrable Systems and Quantum Groups | (LNM 1620) |
| | 118. Algebraic Cycles and Hodge Theory | (LNM 1594) |
| | 119. Phase Transitions and Hysteresis | (LNM 1584) |
| 1994 | 120. Recent Mathematical Methods in Nonlinear Wave Propagation | (LNM 1640) |
| | 121. Dynamical Systems | (LNM 1609) |
| | 122. Transcendental Methods in Algebraic Geometry | (LNM 1646) |
| 1995 | 123. Probabilistic Models for Nonlinear PDE's | (LNM 1627) |
| | 124. Viscosity Solutions and Applications | (LNM 1660) |
| | 125. Vector Bundles on Curves. New Directions | (LNM 1649) |

1996	126. Integral Geometry, Radon Transforms and Complex Analysis	(LNM 1684)
	127. Calculus of Variations and Geometric Evolution Problems	(LNM 1713)
	128. Financial Mathematics	(LNM 1656)
1997	129. Mathematics Inspired by Biology	(LNM 1714)
	130. Advanced Numerical Approximation of Nonlinear Hyperbolic Equations	(LNM 1697)
	131. Arithmetic Theory of Elliptic Curves	(LNM 1716)
	132. Quantum Cohomology	(LNM 1776)
1998	133. Optimal Shape Design	(LNM 1740)
	134. Dynamical Systems and Small Divisors	(LNM 1784)
	135. Mathematical Problems in Semiconductor Physics	(LNM 1823)
	136. Stochastic PDE's and Kolmogorov Equations in Infinite Dimension	(LNM 1715)
	137. Filtration in Porous Media and Industrial Applications	(LNM 1734)
1999	138. Computational Mathematics driven by Industrial Applications	(LNM 1739)
	139. Iwahori-Hecke Algebras and Representation Theory	(LNM 1804)
	140. Hamiltonian Dynamics - Theory and Applications	(LNM 1861)
	141. Global Theory of Minimal Surfaces in Flat Spaces	(LNM 1775)
	142. Direct and Inverse Methods in Solving Nonlinear Evolution Equations	(LNP 632)
2000	143. Dynamical Systems	(LNM 1822)
	144. Diophantine Approximation	(LNM 1819)
	145. Mathematical Aspects of Evolving Interfaces	(LNM 1812)
	146. Mathematical Methods for Protein Structure	(LNCS 2666)
	147. Noncommutative Geometry	(LNM 1831)
2001	148. Topological Fluid Mechanics	to appear
	149. Spatial Stochastic Processes	(LNM 1802)
	150. Optimal Transportation and Applications	(LNM 1813)
	151. Multiscale Problems and Methods in Numerical Simulations	(LNM 1825)
2002	152. Real Methods in Complex and CR Geometry	(LNM 1848)
	153. Analytic Number Theory	(LNM 1891)
	154. Imaging	to appear
2003	155. Stochastic Methods in Finance	(LNM 1856)
	156. Hyperbolic Systems of Balance Laws	(LNM 1911)
	157. Symplectic 4-Manifolds and Algebraic Surfaces	to appear
	158. Mathematical Foundation of Turbulent Viscous Flows	(LNM 1871)
2004	159. Representation Theory and Complex Analysis	to appear
	160. Nonlinear and Optimal Control Theory	to appear
	161. Stochastic Geometry	(LNM 1892)
2005	162. Enumerative Invariants in Algebraic Geometry and String Theory	to appear
	163. Calculus of Variations and Non-linear Partial Differential Equations	(LNM 1927)
	164. SPDE in Hydrodynamics: Recent Progress and Prospects	to appear
2006	165. Pseudo-Differential Operators, Quantization and Signals	to appear
	166. Mixed Finite Elements, Compatibility Conditions, and Applications	to appear
	167. From a Microscopic to a Macroscopic Description of Complex Systems	to appear
	168. Quantum Transport: Modelling, Analysis and Asymptotics	to appear
2007	169. Geometric Analysis and Partial Differential Equations	to appear
	170. Nonlinear Optimization	to appear
	171. Arithmetic Geometry	to appear

Lecture Notes in Mathematics

For information about earlier volumes
please contact your bookseller or Springer
LNM Online archive: springerlink.com

- Vol. 1735: D. Yafaev, Scattering Theory: Some Old and New Problems (2000)
- Vol. 1736: B. O. Turesson, Nonlinear Potential Theory and Weighted Sobolev Spaces (2000)
- Vol. 1737: S. Wakabayashi, Classical Microlocal Analysis in the Space of Hyperfunctions (2000)
- Vol. 1738: M. Émery, A. Nemirovski, D. Voiculescu, Lectures on Probability Theory and Statistics (2000)
- Vol. 1739: R. Burkard, P. Deufhard, A. Jameson, J.-L. Lions, G. Strang, Computational Mathematics Driven by Industrial Problems. Martina Franca, 1999. Editors: V. Capasso, H. Engl, J. Periaux (2000)
- Vol. 1740: B. Kawohl, O. Pironneau, L. Tartar, J.-P. Zolesio, Optimal Shape Design. Tróia, Portugal 1999. Editors: A. Cellina, A. Omeas (2000)
- Vol. 1741: E. Lombardi, Oscillatory Integrals and Phenomena Beyond all Algebraic Orders (2000)
- Vol. 1742: A. Unterberger, Quantization and Non-holomorphic Modular Forms (2000)
- Vol. 1743: L. Habermann, Riemannian Metrics of Constant Mass and Moduli Spaces of Conformal Structures (2000)
- Vol. 1744: M. Kunze, Non-Smooth Dynamical Systems (2000)
- Vol. 1745: V. D. Milman, G. Schechtman (Eds.), Geometric Aspects of Functional Analysis. Israel Seminar 1999-2000 (2000)
- Vol. 1746: A. Degtyarev, I. Itenberg, V. Kharlamov, Real Enriques Surfaces (2000)
- Vol. 1747: L. W. Christensen, Gorenstein Dimensions (2000)
- Vol. 1748: M. Ruzicka, Electrorheological Fluids: Modeling and Mathematical Theory (2001)
- Vol. 1749: M. Fuchs, G. Seregin, Variational Methods for Problems from Plasticity Theory and for Generalized Newtonian Fluids (2001)
- Vol. 1750: B. Conrad, Grothendieck Duality and Base Change (2001)
- Vol. 1751: N. J. Cutland, Loeb Measures in Practice: Recent Advances (2001)
- Vol. 1752: Y. V. Nesterenko, P. Philippon, Introduction to Algebraic Independence Theory (2001)
- Vol. 1753: A. I. Bobenko, U. Eitner, Painlevé Equations in the Differential Geometry of Surfaces (2001)
- Vol. 1754: W. Bertram, The Geometry of Jordan and Lie Structures (2001)
- Vol. 1755: J. Azéma, M. Émery, M. Ledoux, M. Yor (Eds.), Séminaire de Probabilités XXXV (2001)
- Vol. 1756: P. E. Zhidkov, Korteweg de Vries and Nonlinear Schrödinger Equations: Qualitative Theory (2001)
- Vol. 1757: R. R. Phelps, Lectures on Choquet's Theorem (2001)
- Vol. 1758: N. Monod, Continuous Bounded Cohomology of Locally Compact Groups (2001)
- Vol. 1759: Y. Abe, K. Kopfermann, Toroidal Groups (2001)
- Vol. 1760: D. Filipović, Consistency Problems for Heath-Jarrow-Morton Interest Rate Models (2001)
- Vol. 1761: C. Adelmann, The Decomposition of Primes in Torsion Point Fields (2001)
- Vol. 1762: S. Cerrai, Second Order PDE's in Finite and Infinite Dimension (2001)
- Vol. 1763: J.-L. Loday, A. Frabetti, F. Chapoton, F. Gochot, Dialgebras and Related Operads (2001)
- Vol. 1764: A. Cannas da Silva, Lectures on Symplectic Geometry (2001)
- Vol. 1765: T. Kerler, V. V. Lyubashenko, Non-Semisimple Topological Quantum Field Theories for 3-Manifolds with Corners (2001)
- Vol. 1766: H. Hennion, L. Hervé, Limit Theorems for Markov Chains and Stochastic Properties of Dynamical Systems by Quasi-Compactness (2001)
- Vol. 1767: J. Xiao, Holomorphic Q Classes (2001)
- Vol. 1768: M. J. Pflaum, Analytic and Geometric Study of Stratified Spaces (2001)
- Vol. 1769: M. Alberich-Carramiñana, Geometry of the Plane Cremona Maps (2002)
- Vol. 1770: H. Gluesing-Luerssen, Linear Delay-Differential Systems with Commensurate Delays: An Algebraic Approach (2002)
- Vol. 1771: M. Émery, M. Yor (Eds.), Séminaire de Probabilités 1967-1980. A Selection in Martingale Theory (2002)
- Vol. 1772: F. Burstall, D. Ferus, K. Leschke, F. Pedit, U. Pinkall, Conformal Geometry of Surfaces in S^4 (2002)
- Vol. 1773: Z. Arad, M. Muzychuk, Standard Integral Table Algebras Generated by a Non-real Element of Small Degree (2002)
- Vol. 1774: V. Runde, Lectures on Amenability (2002)
- Vol. 1775: W. H. Meeks, A. Ros, H. Rosenberg, The Global Theory of Minimal Surfaces in Flat Spaces. Martina Franca 1999. Editor: G. P. Pirola (2002)
- Vol. 1776: K. Behrend, C. Gomez, V. Tarasov, G. Tian, Quantum Cohomology. Cetraro 1997. Editors: P. de Bartolomeis, B. Dubrovin, C. Reina (2002)
- Vol. 1777: E. García-Río, D. N. Kupeli, R. Vázquez-Lorenzo, Osserman Manifolds in Semi-Riemannian Geometry (2002)
- Vol. 1778: H. Kiechle, Theory of K-Loops (2002)
- Vol. 1779: I. Chueshov, Monotone Random Systems (2002)
- Vol. 1780: J. H. Bruinier, Borcherds Products on $O(2,1)$ and Chern Classes of Heegner Divisors (2002)
- Vol. 1781: E. Bolthausen, E. Perkins, A. van der Vaart, Lectures on Probability Theory and Statistics. Ecole d'Été de Probabilités de Saint-Flour XXIX-1999. Editor: P. Bernard (2002)
- Vol. 1782: C.-H. Chu, A. T.-M. Lau, Harmonic Functions on Groups and Fourier Algebras (2002)

- Vol. 1783: L. Grüne, Asymptotic Behavior of Dynamical and Control Systems under Perturbation and Discretization (2002)
- Vol. 1784: L. H. Eliasson, S. B. Kuksin, S. Marmi, J.-C. Yoccoz, Dynamical Systems and Small Divisors. Cetraro, Italy 1998. Editors: S. Marmi, J.-C. Yoccoz (2002)
- Vol. 1785: J. Arias de Reyna, Pointwise Convergence of Fourier Series (2002)
- Vol. 1786: S. D. Cutkosky, Monomialization of Morphisms from 3-Folds to Surfaces (2002)
- Vol. 1787: S. Caenepeel, G. Militaru, S. Zhu, Frobenius and Separable Functors for Generalized Module Categories and Nonlinear Equations (2002)
- Vol. 1788: A. Vasil'ev, Moduli of Families of Curves for Conformal and Quasiconformal Mappings (2002)
- Vol. 1789: Y. Sommerhäuser, Yetter-Drinfel'd Hopf algebras over groups of prime order (2002)
- Vol. 1790: X. Zhan, Matrix Inequalities (2002)
- Vol. 1791: M. Knebusch, D. Zhang, Manis Valuations and Prüfer Extensions I: A new Chapter in Commutative Algebra (2002)
- Vol. 1792: D. D. Ang, R. Gorenflo, V. K. Le, D. D. Trong, Moment Theory and Some Inverse Problems in Potential Theory and Heat Conduction (2002)
- Vol. 1793: J. Cortés Monforte, Geometric, Control and Numerical Aspects of Nonholonomic Systems (2002)
- Vol. 1794: N. Pytheas Fogg, Substitution in Dynamics, Arithmetics and Combinatorics. Editors: V. Berthé, S. Ferenczi, C. Mauduit, A. Siegel (2002)
- Vol. 1795: H. Li, Filtered-Graded Transfer in Using Noncommutative Gröbner Bases (2002)
- Vol. 1796: J.M. Melenk, hp-Finite Element Methods for Singular Perturbations (2002)
- Vol. 1797: B. Schmidt, Characters and Cyclotomic Fields in Finite Geometry (2002)
- Vol. 1798: W.M. Oliva, Geometric Mechanics (2002)
- Vol. 1799: H. Pajot, Analytic Capacity, Rectifiability, Menger Curvature and the Cauchy Integral (2002)
- Vol. 1800: O. Gabber, L. Ramero, Almost Ring Theory (2003)
- Vol. 1801: J. Azéma, M. Émery, M. Ledoux, M. Yor (Eds.), Séminaire de Probabilités XXXVI (2003)
- Vol. 1802: V. Capasso, E. Merzbach, B. G. Ivanoff, M. Dozzi, R. Dalang, T. Mountford, Topics in Spatial Stochastic Processes. Martina Franca, Italy 2001. Editor: E. Merzbach (2003)
- Vol. 1803: G. Dolzmann, Variational Methods for Crystalline Microstructure – Analysis and Computation (2003)
- Vol. 1804: I. Cherednik, Ya. Markov, R. Howe, G. Lusztig, Iwahori-Hecke Algebras and their Representation Theory. Martina Franca, Italy 1999. Editors: V. Baldoni, D. Barbasch (2003)
- Vol. 1805: F. Cao, Geometric Curve Evolution and Image Processing (2003)
- Vol. 1806: H. Broer, I. Hoveijn, G. Lunther, G. Vegter, Bifurcations in Hamiltonian Systems. Computing Singularities by Gröbner Bases (2003)
- Vol. 1807: V. D. Milman, G. Schechtman (Eds.), Geometric Aspects of Functional Analysis. Israel Seminar 2000-2002 (2003)
- Vol. 1808: W. Schindler, Measures with Symmetry Properties (2003)
- Vol. 1809: O. Steinbach, Stability Estimates for Hybrid Coupled Domain Decomposition Methods (2003)
- Vol. 1810: J. Wengenroth, Derived Functors in Functional Analysis (2003)
- Vol. 1811: J. Stevens, Deformations of Singularities (2003)
- Vol. 1812: L. Ambrosio, K. Deckelnick, G. Dziuk, M. Mimura, V. A. Solonnikov, H. M. Soner, Mathematical Aspects of Evolving Interfaces. Madeira, Funchal, Portugal 2000. Editors: P. Colli, J. F. Rodrigues (2003)
- Vol. 1813: L. Ambrosio, L. A. Caffarelli, Y. Brenier, G. Buttazzo, C. Villani, Optimal Transportation and its Applications. Martina Franca, Italy 2001. Editors: L. A. Caffarelli, S. Salsa (2003)
- Vol. 1814: P. Bank, F. Baudoin, H. Föllmer, L.C.G. Rogers, M. Soner, N. Touzi, Paris-Princeton Lectures on Mathematical Finance 2002 (2003)
- Vol. 1815: A. M. Vershik (Ed.), Asymptotic Combinatorics with Applications to Mathematical Physics. St. Petersburg, Russia 2001 (2003)
- Vol. 1816: S. Albeverio, W. Schachermayer, M. Tala-grand, Lectures on Probability Theory and Statistics. École d'Été de Probabilités de Saint-Flour XXX-2000. Editor: P. Bernard (2003)
- Vol. 1817: E. Koelink, W. Van Assche (Eds.), Orthogonal Polynomials and Special Functions. Leuven 2002 (2003)
- Vol. 1818: M. Bildhauer, Convex Variational Problems with Linear, nearly Linear and/or Anisotropic Growth Conditions (2003)
- Vol. 1819: D. Masser, Yu. V. Nesterenko, H. P. Schlickewei, W. M. Schmidt, M. Waldschmidt, Diophantine Approximation. Cetraro, Italy 2000. Editors: F. Amoroso, U. Zannier (2003)
- Vol. 1820: F. Hiai, H. Kosaki, Means of Hilbert Space Operators (2003)
- Vol. 1821: S. Teufel, Adiabatic Perturbation Theory in Quantum Dynamics (2003)
- Vol. 1822: S.-N. Chow, R. Conti, R. Johnson, J. Mallet-Paret, R. Nussbaum, Dynamical Systems. Cetraro, Italy 2000. Editors: J. W. Macki, P. Zecca (2003)
- Vol. 1823: A. M. Anile, W. Allegretto, C. Ringhofer, Mathematical Problems in Semiconductor Physics. Cetraro, Italy 1998. Editor: A. M. Anile (2003)
- Vol. 1824: J. A. Navarro González, J. B. Sancho de Salas, \mathcal{C}^∞ – Differentiable Spaces (2003)
- Vol. 1825: J. H. Bramble, A. Cohen, W. Dahmen, Multiscale Problems and Methods in Numerical Simulations, Martina Franca, Italy 2001. Editor: C. Canuto (2003)
- Vol. 1826: K. Dohmen, Improved Bonferroni Inequalities via Abstract Tubes. Inequalities and Identities of Inclusion-Exclusion Type. VIII, 113 p, 2003.
- Vol. 1827: K. M. Pilgrim, Combinations of Complex Dynamical Systems. IX, 118 p, 2003.
- Vol. 1828: D. J. Green, Gröbner Bases and the Computation of Group Cohomology. XII, 138 p, 2003.
- Vol. 1829: E. Altman, B. Gaujal, A. Hordijk, Discrete-Event Control of Stochastic Networks: Multimodularity and Regularity. XIV, 313 p, 2003.
- Vol. 1830: M. I. Gil', Operator Functions and Localization of Spectra. XIV, 256 p, 2003.
- Vol. 1831: A. Connes, J. Cuntz, E. Guentner, N. Higson, J. E. Kaminker, Noncommutative Geometry, Martina Franca, Italy 2002. Editors: S. Doplicher, L. Longo (2004)
- Vol. 1832: J. Azéma, M. Émery, M. Ledoux, M. Yor (Eds.), Séminaire de Probabilités XXXVII (2003)
- Vol. 1833: D.-Q. Jiang, M. Qian, M.-P. Qian, Mathematical Theory of Nonequilibrium Steady States. On the Frontier of Probability and Dynamical Systems. IX, 280 p, 2004.
- Vol. 1834: Yo. Yomdin, G. Comte, Tame Geometry with Application in Smooth Analysis. VIII, 186 p, 2004.

- Vol. 1835: O.T. Izhboldin, B. Kahn, N.A. Karpenko, A. Vishik, Geometric Methods in the Algebraic Theory of Quadratic Forms. Summer School, Lens, 2000. Editor: J.-P. Tignol (2004)
- Vol. 1836: C. Năstăsescu, F. Van Oystaeyen, Methods of Graded Rings. XIII, 304 p, 2004.
- Vol. 1837: S. Tavaré, O. Zeitouni, Lectures on Probability Theory and Statistics. Ecole d'Eté de Probabilités de Saint-Flour XXXI-2001. Editor: J. Picard (2004)
- Vol. 1838: A.J. Ganesh, N.W. O'Connell, D.J. Wischik, Big Queues. XII, 254 p, 2004.
- Vol. 1839: R. Gohm, Noncommutative Stationary Processes. VIII, 170 p, 2004.
- Vol. 1840: B. Tsirolson, W. Werner, Lectures on Probability Theory and Statistics. Ecole d'Eté de Probabilités de Saint-Flour XXXII-2002. Editor: J. Picard (2004)
- Vol. 1841: W. Reichel, Uniqueness Theorems for Variational Problems by the Method of Transformation Groups (2004)
- Vol. 1842: T. Johnsen, A. L. Knutsen, K_3 Projective Models in Scrolls (2004)
- Vol. 1843: B. Jefferies, Spectral Properties of Noncommuting Operators (2004)
- Vol. 1844: K.F. Siburg, The Principle of Least Action in Geometry and Dynamics (2004)
- Vol. 1845: Min Ho Lee, Mixed Automorphic Forms, Torus Bundles, and Jacobi Forms (2004)
- Vol. 1846: H. Ammari, H. Kang, Reconstruction of Small Inhomogeneities from Boundary Measurements (2004)
- Vol. 1847: T.R. Bielecki, T. Björk, M. Jeanblanc, M. Rutkowski, J.A. Scheinkman, W. Xiong, Paris-Princeton Lectures on Mathematical Finance 2003 (2004)
- Vol. 1848: M. Abate, J. E. Fornæss, X. Huang, J. P. Rosay, A. Tumanov, Real Methods in Complex and CR Geometry, Martina Franca, Italy 2002. Editors: D. Zaitsev, G. Zampieri (2004)
- Vol. 1849: Martin L. Brown, Heegner Modules and Elliptic Curves (2004)
- Vol. 1850: V. D. Milman, G. Schechtman (Eds.), Geometric Aspects of Functional Analysis. Israel Seminar 2002-2003 (2004)
- Vol. 1851: O. Catoni, Statistical Learning Theory and Stochastic Optimization (2004)
- Vol. 1852: A.S. Kechris, B.D. Miller, Topics in Orbit Equivalence (2004)
- Vol. 1853: Ch. Favre, M. Jonsson, The Valuative Tree (2004)
- Vol. 1854: O. Saeki, Topology of Singular Fibers of Differential Maps (2004)
- Vol. 1855: G. Da Prato, P.C. Kunstmann, I. Lasiecka, A. Lunardi, R. Schnaubelt, L. Weis, Functional Analytic Methods for Evolution Equations. Editors: M. Iannelli, R. Nagel, S. Piazzera (2004)
- Vol. 1856: K. Back, T.R. Bielecki, C. Hipp, S. Peng, W. Schachermayer, Stochastic Methods in Finance, Bressanone/Brixen, Italy, 2003. Editors: M. Frittelli, W. Runggaldier (2004)
- Vol. 1857: M. Émery, M. Ledoux, M. Yor (Eds.), Séminaire de Probabilités XXXVIII (2005)
- Vol. 1858: A.S. Cherny, H.-J. Engelbert, Singular Stochastic Differential Equations (2005)
- Vol. 1859: E. Letellier, Fourier Transforms of Invariant Functions on Finite Reductive Lie Algebras (2005)
- Vol. 1860: A. Borisyuk, G.B. Ermentrout, A. Friedman, D. Terman, Tutorials in Mathematical Biosciences I. Mathematical Neurosciences (2005)
- Vol. 1861: G. Benettin, J. Henrard, S. Kuksin, Hamiltonian Dynamics – Theory and Applications, Cetraro, Italy, 1999. Editor: A. Giorgilli (2005)
- Vol. 1862: B. Helffer, F. Nier, Hypocoelliptic Estimates and Spectral Theory for Fokker-Planck Operators and Witten Laplacians (2005)
- Vol. 1863: H. Führ, Abstract Harmonic Analysis of Continuous Wavelet Transforms (2005)
- Vol. 1864: K. Efsthathiou, Metamorphoses of Hamiltonian Systems with Symmetries (2005)
- Vol. 1865: D. Applebaum, B.V. R. Bhat, J. Kustermans, J. M. Lindsay, Quantum Independent Increment Processes I. From Classical Probability to Quantum Stochastic Calculus. Editors: M. Schürmann, U. Franz (2005)
- Vol. 1866: O.E. Barndorff-Nielsen, U. Franz, R. Gohm, B. Kümmerer, S. Thorbjørnsen, Quantum Independent Increment Processes II. Structure of Quantum Lévy Processes, Classical Probability, and Physics. Editors: M. Schürmann, U. Franz, (2005)
- Vol. 1867: J. Sneddy (Ed.), Tutorials in Mathematical Biosciences II. Mathematical Modeling of Calcium Dynamics and Signal Transduction. (2005)
- Vol. 1868: J. Jorgenson, S. Lang, $\text{Pos}_n(\mathbb{R})$ and Eisenstein Series. (2005)
- Vol. 1869: A. Dembo, T. Funaki, Lectures on Probability Theory and Statistics. Ecole d'Eté de Probabilités de Saint-Flour XXXIII-2003. Editor: J. Picard (2005)
- Vol. 1870: V.I. Gurariy, W. Lusky, Geometry of Müntz Spaces and Related Questions. (2005)
- Vol. 1871: P. Constantin, G. Gallavotti, A.V. Kazhikhov, Y. Meyer, S. Ukai, Mathematical Foundation of Turbulent Viscous Flows, Martina Franca, Italy, 2003. Editors: M. Cannone, T. Miyakawa (2006)
- Vol. 1872: A. Friedman (Ed.), Tutorials in Mathematical Biosciences III. Cell Cycle, Proliferation, and Cancer (2006)
- Vol. 1873: R. Mansuy, M. Yor, Random Times and Enlargements of Filtrations in a Brownian Setting (2006)
- Vol. 1874: M. Yor, M. Émery (Eds.), In Memoriam Paul-André Meyer - Séminaire de Probabilités XXXIX (2006)
- Vol. 1875: J. Pitman, Combinatorial Stochastic Processes. Ecole d'Eté de Probabilités de Saint-Flour XXXII-2002. Editor: J. Picard (2006)
- Vol. 1876: H. Herrlich, Axiom of Choice (2006)
- Vol. 1877: J. Steuding, Value Distributions of L -Functions (2007)
- Vol. 1878: R. Cerf, The Wulff Crystal in Ising and Percolation Models, Ecole d'Eté de Probabilités de Saint-Flour XXXIV-2004. Editor: Jean Picard (2006)
- Vol. 1879: G. Slade, The Lace Expansion and its Applications, Ecole d'Eté de Probabilités de Saint-Flour XXXIV-2004. Editor: Jean Picard (2006)
- Vol. 1880: S. Attal, A. Joye, C.-A. Pillet, Open Quantum Systems I, The Hamiltonian Approach (2006)
- Vol. 1881: S. Attal, A. Joye, C.-A. Pillet, Open Quantum Systems II, The Markovian Approach (2006)
- Vol. 1882: S. Attal, A. Joye, C.-A. Pillet, Open Quantum Systems III, Recent Developments (2006)
- Vol. 1883: W. Van Assche, F. Marcellán (Eds.), Orthogonal Polynomials and Special Functions, Computation and Application (2006)
- Vol. 1884: N. Hayashi, E.I. Kaikina, P.I. Naumkin, I.A. Shishmarev, Asymptotics for Dissipative Nonlinear Equations (2006)
- Vol. 1885: A. Telcs, The Art of Random Walks (2006)
- Vol. 1886: S. Takamura, Splitting Deformations of Degenerations of Complex Curves (2006)

- Vol. 1887: K. Habermann, L. Habermann, Introduction to Symplectic Dirac Operators (2006)
- Vol. 1888: J. van der Hoeven, Transseries and Real Differential Algebra (2006)
- Vol. 1889: G. Osipenko, Dynamical Systems, Graphs, and Algorithms (2006)
- Vol. 1890: M. Bunge, J. Funk, Singular Coverings of Toposes (2006)
- Vol. 1891: J.B. Friedlander, D.R. Heath-Brown, H. Iwaniec, J. Kaczorowski, Analytic Number Theory, Cetraro, Italy, 2002. Editors: A. Perelli, C. Viola (2006)
- Vol. 1892: A. Baddeley, I. Bárány, R. Schneider, W. Weil, Stochastic Geometry, Martina Franca, Italy, 2004. Editor: W. Weil (2007)
- Vol. 1893: H. Hanßmann, Local and Semi-Local Bifurcations in Hamiltonian Dynamical Systems, Results and Examples (2007)
- Vol. 1894: C.W. Groetsch, Stable Approximate Evaluation of Unbounded Operators (2007)
- Vol. 1895: L. Molnár, Selected Preserver Problems on Algebraic Structures of Linear Operators and on Function Spaces (2007)
- Vol. 1896: P. Massart, Concentration Inequalities and Model Selection, Ecole d'Été de Probabilités de Saint-Flour XXXIII-2003. Editor: J. Picard (2007)
- Vol. 1897: R. Doney, Fluctuation Theory for Lévy Processes, Ecole d'Été de Probabilités de Saint-Flour XXXV-2005. Editor: J. Picard (2007)
- Vol. 1898: H.R. Beyer, Beyond Partial Differential Equations, On linear and Quasi-Linear Abstract Hyperbolic Evolution Equations (2007)
- Vol. 1899: Séminaire de Probabilités XL. Editors: C. Donati-Martin, M. Émery, A. Rouault, C. Stricker (2007)
- Vol. 1900: E. Bolthausen, A. Bovier (Eds.), Spin Glasses (2007)
- Vol. 1901: O. Wittenberg, Intersections de deux quadriques et pinceaux de courbes de genre 1, Intersections of Two Quadrics and Pencils of Curves of Genus 1 (2007)
- Vol. 1902: A. Isaev, Lectures on the Automorphism Groups of Kobayashi-Hyperbolic Manifolds (2007)
- Vol. 1903: G. Kresin, V. Maz'ya, Sharp Real-Part Theorems (2007)
- Vol. 1904: P. Giesl, Construction of Global Lyapunov Functions Using Radial Basis Functions (2007)
- Vol. 1905: C. Prévôt, M. Röckner, A Concise Course on Stochastic Partial Differential Equations (2007)
- Vol. 1906: T. Schuster, The Method of Approximate Inverse: Theory and Applications (2007)
- Vol. 1907: M. Rasmussen, Attractivity and Bifurcation for Nonautonomous Dynamical Systems (2007)
- Vol. 1908: T.J. Lyons, M. Caruana, T. Lévy, Differential Equations Driven by Rough Paths, Ecole d'Été de Probabilités de Saint-Flour XXXIV-2004 (2007)
- Vol. 1909: H. Akiyoshi, M. Sakuma, M. Wada, Y. Yamashita, Punctured Torus Groups and 2-Bridge Knot Groups (I) (2007)
- Vol. 1910: V.D. Milman, G. Schechtman (Eds.), Geometric Aspects of Functional Analysis. Israel Seminar 2004-2005 (2007)
- Vol. 1911: A. Bressan, D. Serre, M. Williams, K. Zumbrun, Hyperbolic Systems of Balance Laws. Lectures given at the C.I.M.E. Summer School held in Cetraro, Italy, July 14–21, 2003. Editor: P. Marcati (2007)
- Vol. 1912: V. Berinde, Iterative Approximation of Fixed Points (2007)
- Vol. 1913: J.E. Marsden, G. Misiolek, J.-P. Ortega, M. Perlmutter, T.S. Ratiu, Hamiltonian Reduction by Stages (2007)
- Vol. 1914: G. Kutyniok, Affine Density in Wavelet Analysis (2007)
- Vol. 1915: T. Bıyıkoglu, J. Leydold, P.F. Stadler, Laplacian Eigenvectors of Graphs, Perron-Frobenius and Faber-Krahn Type Theorems (2007)
- Vol. 1916: C. Villani, F. Rezakhanlou, Entropy Methods for the Boltzmann Equation. Editors: F. Golse, S. Olla (2008)
- Vol. 1917: I. Veselić, Existence and Regularity Properties of the Integrated Density of States of Random Schrödinger (2008)
- Vol. 1918: B. Roberts, R. Schmidt, Local Newforms for $\mathrm{GSp}(4)$ (2007)
- Vol. 1919: R.A. Carmona, I. Ekeland, A. Kohatsu-Higa, J.-M. Lasry, P.-L. Lions, H. Pham, E. Taffin, Paris-Princeton Lectures on Mathematical Finance 2004. Editors: R.A. Carmona, E. Çinlar, I. Ekeland, E. Jouini, J.A. Scheinkman, N. Touzi (2007)
- Vol. 1920: S.N. Evans, Probability and Real Trees. Ecole d'Été de Probabilités de Saint-Flour XXXV-2005 (2008)
- Vol. 1921: J.P. Tian, Evolution Algebras and their Applications (2008)
- Vol. 1922: A. Friedman (Ed.), Tutorials in Mathematical BioSciences IV. Evolution and Ecology (2008)
- Vol. 1923: J.P.N. Bishwal, Parameter Estimation in Stochastic Differential Equations (2008)
- Vol. 1924: M. Wilson, Littlewood-Paley Theory and Exponential-Square Integrability (2008)
- Vol. 1925: M. du Sautoy, L. Woodward, Zeta Functions of Groups and Rings (2008)
- Vol. 1926: L. Barreira, V. Claudia, Stability of Nonautonomous Differential Equations (2008)
- Vol. 1927: L. Ambrosio, L. Caffarelli, M.G. Crandall, L.C. Evans, N. Fusco, Calculus of Variations and Non-Linear Partial Differential Equations. Lectures given at the C.I.M.E. Summer School held in Cetraro, Italy, June 27–July 2, 2005. Editors: B. Dacorogna, P. Marcellini (2008)
- Vol. 1928: J. Jonsson, Simplicial Complexes of Graphs (2008)

Recent Reprints and New Editions

- Vol. 1618: G. Pisier, Similarity Problems and Completely Bounded Maps. 1995 – 2nd exp. edition (2001)
- Vol. 1629: J.D. Moore, Lectures on Seiberg-Witten Invariants. 1997 – 2nd edition (2001)
- Vol. 1638: P. Vanhaecke, Integrable Systems in the realm of Algebraic Geometry. 1996 – 2nd edition (2001)
- Vol. 1702: J. Ma, J. Yong, Forward-Backward Stochastic Differential Equations and their Applications. 1999 – Corr. 3rd printing (2007)
- Vol. 830: J.A. Green, Polynomial Representations of GL_n , with an Appendix on Schensted Correspondence and Littelmann Paths by K. Erdmann, J.A. Green and M. Schocker 1980 – 2nd corr. and augmented edition (2007)