Meetings & Conferences of the AMS

IMPORTANT INFORMATION REGARDING MEETINGS PROGRAMS: AMS Sectional Meeting programs do not appear in the print version of the *Notices*. However, comprehensive and continually updated meeting and program information with links to the abstract for each talk can be found on the AMS website. See `http://www.ams.org/meetings/`. Programs and abstracts will continue to be displayed on the AMS website in the Meetings and Conferences section until about three weeks after the meeting is over. Final programs for Sectional Meetings will be archived on the AMS website in an electronic issue of the *Notices* as noted below for each meeting.

Ann Arbor, Michigan

University of Michigan

March 1–3, 2002

Meeting #974

Central Section
Associate secretary: Susan J. Friedlander
Announcement issue of *Notices*: January 2002
Program first available on AMS website: January 17, 2002
Program issue of electronic *Notices*: May 2002
Issue of *Abstracts*: Volume 23, Issue 2

Deadlines

For organizers: Expired
For consideration of contributed papers in Special Sessions: Expired
For abstracts: Expired

Invited Addresses

Laszlo Babai, University of Chicago, *Combinatorial models and algebraic questions in the theory of computing.*

Nets H. Katz, Washington University, *On the low dimensional Kakeya problem.*

Alan W. Reid, University of Texas at Austin, *Hyperbolic manifolds, discrete groups and quadratic forms.*

Lihe Wang, University of Iowa, *Hölder and L^p estimates for $\Box_b$ operators on CR manifolds of arbitrary codimensions.*

Thaleia Zariphopoulou, University of Texas, Austin, *Pricing and risk management in incomplete markets.*

Special Sessions

Algebraic Combinatorics, **Patricia Hersh**, University of Michigan, Ann Arbor, and **Brian D. Taylor**, Wayne State University.

Algebraic Topology, **Robert Bruner**, Wayne State University, and **Igor Kriz**, University of Michigan, Ann Arbor.

Biological Applications of Dynamical Systems, **J. M. Cushing**, University of Arizona, **Shandelle M. Henson**, Andrews University, and **Anna M. Spagnuolo**, Oakland University.

Commutative Algebra, **Florian Enescu** and **Anurag K. Singh**, University of Utah, and **Karen E. Smith**, University of Michigan, Ann Arbor.

Differential Geometry, **Lizhen Ji**, **Krishnan Shankar**, and **Ralf Spatzier**, University of Michigan, Ann Arbor.

Hyperbolic Manifolds and Discrete Groups, **Richard D. Canary**, University of Michigan, Ann Arbor, and **Alan W. Reid**, University of Texas, Austin.

Integrable Systems and Poisson Geometry, **Anthony Bloch**, University of Michigan, **Philip Foth**, University of Arizona, and **Michael Gekhtman**, University of Notre Dame.

Mapping Class Groups and Geometric Theory of Teichmuller Spaces, **Benson Farb**, University of Chicago, **Nikolai Ivanov**, Michigan State University, and **Howard Masur**, University of Illinois, Chicago.

Moduli Spaces, **Angela Gibney**, **Gavril Farkas**, **Thomas Nevins**, and **Gilberto Bini**, University of Michigan, Ann Arbor.

Numerical Analysis and Applications of Partial Differential Equations, **Joan Remski** and **Jennifer Zhao**, University of Michigan, Dearborn.

Partial Differential Equations, **Qing Han**, University of Notre Dame, and **Lihe Wang**, University of Iowa.

Quantum Topology in Dimension Three, **Charles Frohman**, University of Iowa, and **Joanna Kania-Bartoszynska**, Boise State University.

Stochastic Modeling in Financial Mathematics, **Ronnie Sircar**, Princeton University.

Topics in Geometric Function Theory, **David A. Herron**, University of Cincinnati, **Nageswari Shanmugalingam**, University of Texas, and **Jeremy T. Tyson**, SUNY at Stony Brook.

Atlanta, Georgia

Georgia Institute of Technology

March 8–10, 2002

Meeting #975

Meeting held in conjunction with the Mathematical Association of America.
Southeastern Section
Associate secretary: John L. Bryant
Announcement issue of *Notices*: January 2002
Program first available on AMS website: January 31, 2002
Program issue of electronic *Notices*: May 2002
Issue of *Abstracts*: Volume 23, Issue 2

Deadlines

For organizers: Expired
For consideration of contributed papers in Special Sessions: Expired
For abstracts: Expired

Invited Addresses

Georgia Benkart, University of Wisconsin, Madison, *Title to be announced.*

Robert L. Bryant, Duke University, *Title to be announced.*

Johnny Henderson, Auburn University, *Uniqueness implies existence for solutions of boundary value problems for dynamic equations on time scales.*

Nigel J. Kalton, University of Missouri, Columbia, *Banach space theory, sectorial operators and partial differential equations.*

James G. Oxley, Louisiana State University, *The interplay between graphs and matroids.*

Special Sessions

Algebraic Combinatorics, **Mihai A. Ciucu**, Georgia Institute of Technology.

Automated Reasoning in Mathematics and Logic, **Johan G. F. Belinfante**, Georgia Institute of Technology.

Banach Spaces and Their Applications, **Peter G. Casazza** and **N. J. Kalton**, University of Missouri-Columbia.

Collaborative Learning Classroom Activities, **Sabrina A. Hessinger**, Armstrong Atlantic State University.

Combinatorics and Graph Theory, **John M. Harris**, Furman University.

Computation in the Mathematical Sciences, **Sabrina A. Hessinger**, Armstrong Atlantic State University, and **Mark D. Cawood**, Clemson University.

Dynamic Equations on Time Scales, **Martin J. Bohner**, Florida Institute of Technology, and **Billur Kaymakcalan**, Georgia Southern University.

Elementary Mathematical Modeling, **Mary Ellen Davis**, Georgia Perimeter College.

Frames, Wavelets, and Operator Theory, **Christopher E. Heil** and **Yang Wang**, Georgia Institute of Technology.

Graphs and Matroids, **James G. Oxley** and **Bogdan Oporowski**, Louisiana State University, and **Robin Thomas**, Georgia Institute of Technology.

Harmonic Analysis, **Gerd Mockenhaupt** and **Michael T. Lacy**, Georgia Institute of Technology, and **Akos Magyar**, University of Georgia.

Introductory/Elementary Statistics, **Patricia G. Monroe**, Greenville Technical College.

Knot Theory, 3-Manifolds, 4-Manifolds, and Geometric Group Theory, **Wolfgang H. Heil**, Florida State University, and **Jose Carlos Gómez-Larrañaga**, CIMAT, Mexico.

Linear Algebra and Matrix Theory, **Frank J. Hall** and **Zhongshan Li**, Georgia State University.

Mathematical Models in Biology, **Robert D. Fray**, Furman University.

Number Theory, **David Penniston**, Furman University.

Numerical Linear Algebra and Its Applications, **Michele Benzi**, Emory University, **Steven B. Damelin**, Georgia Southern University, and **James Nagy**, Emory University.

Probability and Combinatorics, **Russell D. Lyons** and **Prasad V. Tetali**, Georgia Institute of Technology.

Quantum Structures, **Alexander G. Wilce**, Juniata College, **Richard J. Greechie**, Louisiana Technical University, and **Franklin E. Schroeck**, Florida Atlantic University.

Real World Applications of Mathematics, **Mark C. Ginn**, Appalachian State University.

Research on the Mathematical Education of Undergraduates, **Joe Wimbish**, Huntingdon College.

Symplectic and Contact Topology, **Margaret Symington**, Georgia Institute of Technology, and **Gordana Matic**, University of Georgia.

Technology and Distance Learning, **Tom Morley**, Georgia Institute of Technology, and **Martha Abel**, Georgia Southern University.

Three Bridges from "Applied" to "Mathematics", **Peter Mucha**, **John A. Pelesko**, **John E. McCuan**, and **Guillermo H. Goldsztein**, Georgia Institute of Technology.

Montréal, Quebec Canada

Centre de Recherches Mathématiques, Université de Montréal

May 3–5, 2002

Meeting #976

Eastern Section
Associate secretary: Lesley M. Sibner
Announcement issue of *Notices*: March 2002
Program first available on AMS website: March 21, 2002
Program issue of electronic *Notices*: July 2002
Issue of *Abstracts*: Volume 23, Issue 3

Deadlines

For organizers: Expired
For consideration of contributed papers in Special Sessions: Expired
For abstracts: March 12, 2002

Invited Addresses

Nicholas M. Ercolani, University of Arizona, *Title to be announced.*

Lars Hesselholt, Massachusetts Institute of Technology, *Title to be announced.*

Niky Kamran, McGill University, *Title to be announced.*

Rafael de la Llave, University of Texas at Austin, *Title to be announced.*

Special Sessions

Asymptotics for Random Matrix Models and Their Applications (Code: AMS SS J1), **Nicholas M. Ercolani**, University of Arizona, and **Kenneth T.-R. McLaughlin**, University of North Carolina at Chapel Hill and University of Arizona.

Combinatorial Hopf Algebras (Code: AMS SS C1), **Marcelo Aguiar**, Texas A&M University, and **François Bergeron** and **Christophe Reutenauer**, Université du Québec á Montréal.

Combinatorial and Geometric Group Theory (Code: AMS SS A1), **Olga G. Kharlampovich**, McGill University, **Alexei Myasnikov** and **Vladimir Shpilrain**, City College, New York, and **Daniel Wise**, McGill University.

Commutative Algebra and Algebraic Geometry (Code: AMS SS G1), **Irena Peeva**, Cornell University, and **Hema Srinivasan**, University of Missouri-Columbia.

Curvature and Topology (Code: AMS SS E1), **Regina Rotman**, Courant Institute, New York University, **Christina Sormani**, Lehman College, CUNY, and **Kristopher R. Tapp**, SUNY at Stony Brook.

Function Spaces in Harmonic Analysis and PDEs (Code: AMS SS D1), **Galia D. Dafni** and **Jie Xiao**, Concordia University.

Potential Theory (Code: AMS SS B1), **Paul M. Gauthier**, Université de Montréal, **K. Gowri Sankaran**, McGill University, and **David H. Singman**, George Mason University.

Shape Theory in Dynamics (Code: AMS SS F1), **Alex Clark**, University of North Texas, and **Krystyna M. Kuperberg**, Auburn University.

Spectral Geometry (Code: AMS SS H1), **Dmitry Jakobson**, McGill University, and **Yiannis Petridis**, McGill University and Centre de Recherches Mathématiques.

Accommodations

Participants should make their own arrangements directly with a hotel of their choice. The following are suggested for their convenience to the meeting site. The AMS is not responsible for rate changes or for the quality of the accommodations. Rates quoted do not include sales tax of $2/night plus 15%. Reservations should be made as early as possible as Montréal is a popular tourist destination in the spring. All rates quoted are in Canadian dollars (at the time of this printing CDN$1= US$.63). Participants should state that they are attending a meeting on campus in order to get the best rate possible; rates are not guaranteed.

Terrasse Royale Hotel, 5225 Cote-des-Neiges Street, Montréal (Québec), H3T 1Y1; 514-0739-6391, 514-342-2512 (fax); $85/single or $89/double occupancy. This all-suites hotel (some with kitchenettes) is within walking distance to the meeting; indoor parking is $7/night. See `http://www.terrasse-royale.com/`.

These hotels are within a 20- to 30-minute ride by metro. The metro/bus fare is CDN$2.25.

Le Richebourg Hotel (Comfort Inn and Suites), 2170 Lincoln Street, Montréal (Québec), H3H 2N5; 800-678-6323, 514-935-9224, 514-935-5049 (fax); rates from $89 to $105/single or double. Suites have kitchens, located downtown, indoor pool, indoor parking is $12/night. See `http//www.iber.com/richebourg/index.html`.

Hotel Casa Bella, 264 West Sherbrooke Street, Montréal (Québec) H2X 1X9; 888-453-2777 (toll free), 514-849-2777, 514-849-3650 (fax). Rates range from $48 to $90/single or double, some with shared bath. This small hotel is located downtown. Complimentary continental breakfast is served, and parking is free. See `http://www.hotelcasabella.com/`.

Hotel Versailles Park Plaza (Chateau Versailles), 1808 West Sherbrooke Street, Montréal (Québec), H3H 1E5; 514-933-3611, 514-933-7102 (fax), 888-933-8111 (toll-free in Canada and the U.S.); $110/single or double; room service available, located downtown. See `http://www.versailleshotels.com/`.

Renaissance Montréal Hote, 3625 du Parc Avenue, Montréal (Québec), H2X 3P8 514-288-6666, 514-288-2469 (fax), 800-363-0735; $130/single or double; large hotel with lounge and restaurant, located downtown; accessible from campus by bus #129. See `http://www.renaissancehotels.com/`.

Food Service

Many eating establishments are located near the campus and within walking distance of the meeting site. A list of restaurants will be available at the registration desk. The university cafeteria will be open all day Friday, May 3, from 8:00 a.m. to 5:00 p.m. but will be closed on Saturday and Sunday, May 4 and 5.

Local Information

For local information please consult the website maintained by the Centre de Recherches Mathématiques (CRM) of the Université de Montréal at `http://www.crm.umontreal.ca`, the Université de Montréal website at `http://www.umontreal.ca`, and the Montréal Official Tourist Information website at `http://www.tourism-montreal.org`.

Other Activities

AMS Book Sale: Examine the newest titles from AMS! Most books will be available at a special 50% discount offered only at meetings. Complimentary coffee will be served courtesy of AMS membership Services.

AMS Editorial Activity: An acquisitions editor from the AMS book program will be present to speak with prospective authors. If you have a book project that you would like to discuss with the AMS, please stop by the book exhibit.

Parking

It is difficult to park on the streets surrounding the campus. For $9 on Friday and $7 on Saturday (it's free on Sunday), you may use campus parking lots.

Registration and Meeting Information

The locations of the registration desk and sessions will be announced in the next issue (or watch `http://www.ams.org/amsmtgs/sectional.html` for up-to-the-minute information). Registration will take place on site only from noon to 4:30 p.m. on Friday and from 7:30 a.m. to 4:30 p.m. on Saturday.

Fees are US$40 or CDN$63 for AMS or CMS members; US$60 or CDN$94 for nonmembers; and US$5 or CDN$8 for students/unemployed/emeritus, payable by cash, check or credit card. Registration fees paid by credit card will be processed in U.S. funds.

Travel

For U.S. citizens, proof of citizenship (either a valid or expired passport with a picture that accurately represents your appearance or an original birth certificate or a certified copy with photo ID) is required. Driver's license and/or voter registration card is not sufficient.

Montréal is served by one major airport (Dorval). The airport bus is the cheapest way to get downtown (CDN$11.50 from Dorval). We suggest that you get off at Terminus Berri.

From the Terminus Berri to the Université de Montréal campus, you can take a taxi (about CDN$15) or you can take the Metro (subway) for CDN$2.25 per ticket. You get on the Metro at the station Berri-UQAM, within the bus terminus, in the direction of Henri-Bourassa (orange line). At Jean-Talon, the sixth station from Berri-UQAM, you change to Snowdon (blue line). Then you get off at Université de Montréal. Take the moving ramp to the campus.

Car rental: Special rates have been negotiated with **Avis Rent A Car** for the period April 26 to May 12, 2002, beginning at CDN$33.99/day (about US$21.41) for a subcompact car at the weekend rate. All rates include unlimited free mileage; the weekend rates quoted are available from noon Thursday until Monday at 11:59 p.m. Rates do not include state or local surcharges, tax, optional coverages, or gas refueling charges. Renter must meet Avis' age, driver, and credit requirements, and return to the same renting location. Make reservations by calling 800-331-1600 or online at `http://www.avis.com/`. Higher nonweekend and weekly rates are also available. Please quote **Avis Discount Number B159266** when making reservations.

Driving: Take the Decarie Expressway (Highway 15); exit at Chemin Queen Mary Road and travel east. After crossing Decelles Street (one street east of Chemin Cote-des-Neiges), enter the Université de Montréal campus. It is difficult to park on the streets surrounding the campus. For the price of $9 per day, you may use campus parking lots (not including special permit area).

Weather

The temperature in May averages between 43° and 61° F. See `http://www.usatoday.com/weather/basemaps/canada/nw716270.htm` for forecasts.

Pisa, Italy

June 12–16, 2002

Meeting #977

First Joint International Meeting between the AMS and the Unione Matematica Italiana.
Associate secretary: Lesley M. Sibner
Announcement issue of *Notices*: March, 2002
Program first available on AMS website: Not applicable
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: Expired
For abstracts: March 15, 2002

Invited Addresses

Luigi Ambrosio, Scuola Normale Superiore, *Title to be announced.*

Luis A. Caffarelli, University of Texas at Austin, *Title to be announced.*

Claudio Canuto, Politecnico of Torino, *Title to be announced.*

L. Craig Evans, University of California Berkeley, *Title to be announced.*

Giovanni Gallavotti, University of Rome I, *Title to be announced.*

Sergiu Klainerman, Princeton University, *Title to be announced.*

Rahul V. Pandharipande, California Institute of Technology, *Title to be announced.*

Claudio Procesi, University of Roma, *Title to be announced.*

Special Sessions

Advances in Complex, Contact and Symplectic Geometry, **Paolo De Bartolomeis**, University of Firenze, **Yakov Eliashberg**, Stanford University, **Gang Tian**, MIT, and **Giuseppe Tomassini**, Scuola Normale Superiore, Pisa.

Advances in Differential Geometry of PDEs and Applications, **Valentin Lychagin**, New Jersey Institute of Technology, and **Agostino Prastaro**, University of Roma, La Sapienza.

Algebraic Logic and Universal Algebra, **Paolo Agliano**, University of Siena, **Keith A. Kearnes**, University of Colorado, **Franco Montagna**, University of Siena, **Don Pigozzi**, Iowa State University, and **Aldo Ursini**, University of Siena.

Algebraic Vector Bundles, **Vincenzo Ancona**, University of Firenze, **Mohan Kumar**, Washington University, **Giorgio Maria Ottaviani**, University of Firenze, **Christopher Peterson**, Colorado State University, and **Prabhakar Rao**, University of Missouri.

Analytic Aspects of Convex Geometry, **Stefano Campi**, University of Modena, **Richard Gardner**, Western Washington University, **Erwin Lutwak**, Polytechnic University Brooklyn, and **Alijosa Volcic**, University of Trieste.

Classification Theory and Topology of Algebraic Varieties, **Fabrizio Catanese**, University of Göttingen, **Janos Kollar**, Princeton University, and **Shing-Tung Yau**, Harvard University.

Commutative Algebra and the Geometry of Projective Varieties, **Ciro Ciliberto**, University of Roma II, **Anthony Geramita**, University of Genova, **Rick Miranda**, Colorado State University, and **Ferruccio Orecchia**, University of Napoli.

Commutative Algebra: Hilbert Functions, Homological Methods and Combinatorial Aspects, **Aldo Conca**, University of Genova, **Anna Guerrieri**, University of L'Aquila, **Claudia Polini**, University of Oregon, and **Bernd Ulrich**, Michigan State University.

Commutative Rings and Integer-valued Polynomials, **Stefania Gabelli**, University of Roma III, and **Thomas G. Lucas**, University of North Carolina Charlotte.

Complex, Contact and Quaternionic Geometry, **David E. Blair**, Michigan State University, and **Stefano Marchiafava**, University of Roma, La Sapienza.

Contemporary Developments in Partial Differential Equations and in the Calculus of Variations, **Irene Fonseca**, Carnegie Mellon University, and **Paolo Marcellini**, University of Firenze.

Didattica della Dimostrazione, **Ferdinando Arzarello**, University of Torino, **Guershon Harel**, Purdue University, and **Vinicio Villani**, University of Pisa.

Dynamical Systems, **Antonio Giorgilli**, University of Milano-Bicocca, **Stefano Marmi**, Scuola Normale Superiore, Pisa, and **John Norman Mather**, Princeton University.

Elliptic Partial Differential Equations, **Angelo Alvino**, University of Napoli, **Luis Caffarelli**, University of Texas, **Giorgio Talenti**, University of Firenze, and **Vladimir Oliker**, Emory University.

Equazioni di Evoluzione Nonlineari, **Alberto Tesei**, University of Roma, La Sapienza, and **Wei-Ming Ni**, University of Minnesota, Minneapolis.

Free Boundary Problems, **Ricardo Horacio Nochetto**, University of Maryland, College Park, and **Augusto Visintin**, University of Trento.

Geometric Properties of Solutions to PDEs, **Donatella Danielli**, Purdue University, and **Sandro Salsa**, Politecnico of Milano.

Harmonic Analysis, **Fulvio Ricci**, Scuola Normale Superiore, Pisa, and **Elias M. Stein**, Princeton University.

Higher Dimensional Algebra, **John Baez**, University of California, Riverside, and **Giuseppe Rosolini**, University of Genova.

History of Mathematics, **Piers Bursil-Hall**, Cambridge University, **Enrico Giusti**, University of Firenze, and **James J. Tattersall**, Providence College.

Hyperbolic Equations, **Sergiu Klainerman**, Princeton University, and **Sergio Spagnolo**, University of Pisa.

Hyperbolic Systems of Conservation Laws, **Alberto Bressan**, SISSA, Trieste, and **Shi Jin**, University of Wisconsin.

Inverse Boundary Problems and Applications, **Giovanni Alessandrini**, University of Trieste, and **Gunther Uhlmann**, University of Washington.

Jump Processes in Option Pricing Theory, **Claudio Albanese**, University of Toronto, and **Marco Isopi**, University of Bari.

Kolmogorov Equations, **Giuseppe Da Prato**, Scuola Normale Superiore, Pisa, and **Nicolai V. Krylov**, University of Minnesota.

Logarithmic De Rham Cohomology and Dwork Cohomology, **Alan Adolphson**, Oklahoma State University, Stillwater, **Francesco Baldassarri**, University of Padova, **Arthur Ogus**, University of California Berkeley, and **Steven Sperber**, University of Minnesota, Minneapolis.

Mathematical Problems in Soft Matter Modelling, **Eugene C. Gartland**, Kent State University, and **Epifanio Virga**, University of Pavia.

Mathematical Problems in Transport Theory, **Carlo Cercignani**, Politecnico of Milano, and **Irene Gamba**, University of Texas.

Mathematical Schools: Italy and the United States at the Turn of the Twentieth Century, **Umberto Bottazzini**, University of Palermo, and **Karen Hunger Parshall**, University of Virginia.

Mathematics in Polymer Science, **Antonio Fasano**, University of Firenze, and **Kumbakonam R. Rajagopal**, Texas A&M University.

Microlocal Analysis and Applications to PDE, **Daniele Del Santo**, University of Trieste, **M. K. Venkatesha Murthy**, University of Pisa, and **Daniel Tataru**, Northwestern University.

Nonlinear Analysis, **Antonio Ambrosetti**, SISSA, Trieste, **Vieri Benci**, University of Pisa, **Haim Brezis**, Rutgers University, and **Paul Rabinowitz**, University of Wisconsin.

Nonlinear Elliptic and Parabolic Equations and Systems, **Gary Lieberman**, Iowa State University, and **Antonio Maugeri**, University of Catania.

Nonstandard Methods and Applications in Mathematics, **Alessandro Berarducci**, University of Pisa, **Nigel Cutland**, University of Hull, **Mauro Di Nasso**, University of Pisa, and **David Ross**, University of Hawaii.

Operator Algebras, **Sergio Doplicher**, University of Roma, La Sapienza, and **Edward George Effros**, University of California Los Angeles.

Optimization and Control, **Roberto Triggiani**, University of Virginia, and **Tullio Zolezzi**, University of Genova.

Partial Differential Equations of Mixed Elliptic-Hyperbolic Type and Applications, **Daniela Lupo**, Politecnico of Milano, **Cathleen S. Morawetz**, Courant Institute, and **Kevin R. Payne**, University of Milano.

Periodic Solutions of Differential and Difference Equations, **Massimo Furi**, University of Firenze, and **Mario Umberto Martelli**, Claremont McKenna College.

Poisson Geometry and Integrable Systems, **Franco Magri**, University of Milano, and **Ping Xu**, Pennsylvania State University.

Quantum Cohomology and Moduli Spaces, **Angelo Vistoli**, University of Bologna, and **Aaron Bertram**, University of Utah.

Scaling Limits and Homogenization Problems in Physics and Applied Sciences, **Mario Pulvirenti**, University of Roma, and **George Papanicolaou**, Stanford University.

Semigroups of Operators and Applications, **Francesco Altomare**, University of Bari, and **Frank Neubrander**, Louisiana State University.

Semigroups, Automata and Formal Languages, **Alessandra Cherubini**, Politecnico of Milano, and **John Meakin**, University of Nebraska-Lincoln.

Some Mathematics Around Composites, **Robert V. Kohn**, Courant Institute, and **Vincenzo Nesi**, University of Roma, La Sapienza.

Structured Matrix Analysis with Applications, **Dario Andrea Bini**, University of Pisa, and **Thomas Kailath**, Stanford University.

The Topology of 3-manifolds, **Ricardo Benedetti** and **Carlo Petronio**, University of Pisa, **Dale Rolfsen**, University of British Columbia, Vancouver, and **Jeffrey Weeks**, Canton, New York.

Variational Analysis and Applications, **Franco Giannessi**, University of Pisa, **Boris S. Mordukhovich**, Wayne State University, Detroit, **Biagio Ricceri**, University of Catania, and **R. Tyrrell Rockafellar**, University of Washington.

Viscosity Methods in PDEs and Applications, **Piermarco Cannarsa**, University of Roma II, **Italo Capuzzo Dolcetta**, University of Roma, La Sapienza, and **Panagiotis Souganidis**, University of Texas, Austin.

White Noise Theory and Quantum Probability, **Luigi Accardi**, University of Roma, Tor Vergata, and **Hui-Hsiung Kuo**, Louisiana State University.

Meeting Website

The following information is taken from the website for the meeting maintained by UMI. For more details see their website at `http://www.dm.unipi.it/%7Emeet2002/english/index.html` (English version). All sessions will take place at the Palazzo dei Congressi (Via Matteotti, 1) and the Aule Polo Fibonacci (Via Buonarroti, 2). Sessions begin at 10:00 a.m., Wednesday, June 12, and conclude on Sunday, June 16, with a closing speech at 11:30 a.m.

Abstract Submission

The deadline for submission of all abstracts is **March 15**. All speakers in Special Sessions should send their abstracts to one of the session organizers. Speakers who would like to be considered for a 10-minute talk in a contributed paper session should send an abstract to `sbordone@unina.it` with the subject line "contribution". All abstracts must be sent according to the instructions in the file abstract.tex on the meeting website.

Accommodations

All accommodations are being handled through Touristic Consortium Pisa é. Blocks of rooms have been reserved in two-, three-, and four-star hotels, all of which have private baths, and are easily accessible from the meeting site. Current prices range from about $51/single and $69/double (two stars); $69/single and $92/double (three stars); and $97/single and $142/double (four stars); however, final rates for 2002 were not available at the time of this printing. Rates include breakfast and must be guaranteed with a credit card. Less expensive rooms without private baths are available on request. One night's lodging will be charged to your credit card if you fail to appear. You should make a preliminary request for the type of room you prefer as soon as possible from the meeting website.

Registration

All registration fees will be collected in Euro (1 Euro=US$.8898 as of this printing). Advance registration fees until March 31 are 100 Euro/AMS or UMI members, and 120 Euro/nonmembers; fees from April 1 through May 31 are 150 Euro/AMS or UMI members, and 170 Euro/nonmembers. On-site fees are 180 Euro/AMS or UMI members, and 200 Euro/nonmembers. Payment in advance is accepted by bank transfer or credit card; please fill out the form on the meeting website. Payment onsite will be accepted in cash (Euro) only.

Social Events

All participants are invited to these events:

Wednesday, June 12: Welcome cocktail reception hosted by the Mayor of Pisa.

Thursday, June 13: Dinner hosted by the University of Pisa.

Saturday, June 15: Evening concert in the church of Santo Stefano dei Cavalieri sponsored by the Sculoa Normale Superiore di Pisa.

In addition, these tours are being offered at special prices; pricing may change depending upon how many people sign up (N.B. There are no scientific sessions on Friday or Sunday afternoons.) Reservations should be made as soon as possible, and no later than April 30.

Thursday, June 13: A day trip to the characteristic towns of Volterra and San Gimignano. Cost will be about $19 to $28. Because this excursion is opposite the scientific program, it is being offered only to those who accompany registered participants.

Friday, June 14: An afternoon excursion to Lungomonte Pisano, a pleasant trip by bus to the medieval town of Vicopisano and her fortress, then driving along the road that skirts the Pisan Hills to the charming baroque Certosa di Calci (16th century charterhouse) where dinner will be served. And if time permits, there will be a visit to a local pottery artisan. Cost will be about $50 to $60.

Sunday, June 16: A guided tour of the lesser known corners of Pisa and its most charming streets, squares, and churches recalling the past glory of Pisa as a Maritime Republic during the Middle Ages. Then a light supper close to the river, so you will not miss the Luminara di San Ranieri: All the buildings facing the river are lit up with candles at dusk. At 11:00 p.m., a truly remarkable fireworks display on the Arno River takes place. Cost will be about $12.

Travel

The closest airport is Galileo Galilei Pisa Airport. Travel by train to Pisa is pleasant and frequent from several cities throughout Italy. Detailed information is available on the meeting website maintained by the UMI.

Portland, Oregon

Portland State University

June 20–22, 2002

Meeting #978

Meeting held in conjunction with the Pacific Northwest Section of the Mathematical Association of America.
Western Section
Associate secretary: Michel L. Lapidus
Announcement issue of *Notices*: April 2002
Program first available on AMS website: May 9, 2002
Program issue of electronic *Notices*: August 2002
Issue of *Abstracts*: Volume 23, Issue 2

Deadlines

For organizers: Expired
For consideration of contributed papers in Special Sessions: March 5, 2002
For abstracts: April 30, 2002

Joint Invited Addresses

Kenneth A. Ribet, University of California Berkeley, *Title to be announced* (AMS-MAA Invited Address).

AMS Invited Addresses

Richard W. Montgomery, University of California Santa Cruz, *Title to be announced.*

Edriss S. Titi, University of California Irvine, *Title to be announced.*

Michael Wolf, Rice University, *Title to be announced.*

AMS Special Sessions

Algebraic Geometry and Combinatorics (Code: AMS SS B1), **Eric Babson** and **Rekha Thomas**, University of Washington, and **Sergey Yuzvinsky**, University of Oregon.

Flat Structures, Moduli Spaces, and Minimal Surfaces (Code: AMS SS F1), **Matthias Weber**, Indiana University, and **Michael Wolf**, Rice University.

Low Dimensional Homotopy and Combinatorial Group Theory (Code: AMS SS H1), **F. Rudolf Beyl** and **Paul Latiolais**, Portland State University, **William A. Bogley**, Oregon State University, and **Micheal N. Dyer**, University of Oregon.

Mathematical Biology (Code: AMS SS D1), **Richard S. Gomulkiewicz**, Washington State University, and **Sebastian Schreiber**, Western Washington University.

Matroid Theory (Code: AMS SS E1), **Jennifer M. McNulty**, University of Montana, and **Nancy Ann Neudauer**, Pacific University.

Qualitative Properties and Applications of Functional Equations (Code: AMS SS A1), **Theodore A. Burton**, Southern Illinois University.

Quantum Topology (Code: AMS SS G1), **Douglas G. Bullock**, **Joanna M. Kania-Bartoszynska**, and **Uwe Kaiser**, Boise State University.

The Quintic Equation: Algebra and Geometry (Code: AMS SS C1), **Jerry Shurman**, Reed College, and **Scott Crass**, California State University, Long Beach.

Boston, Massachusetts

Northeastern University

October 5–6, 2002

Meeting #979

Eastern Section
Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: August 2002
Program first available on AMS website: August 22, 2002
Program issue of electronic *Notices*: December 2002
Issue of *Abstracts*: Volume 23, Issue 4

Deadlines

For organizers: March 6, 2002
For consideration of contributed papers in Special Sessions: June 18, 2002
For abstracts: August 13, 2002

Invited Addresses

Lou P. van den Dries, University of Illinois, Urbana-Champaign, *Title to be announced.*

Diane Henderson, Pennsylvania State University, *Title to be announced.*

Christopher K. King, Northeastern University, *Title to be announced.*

Xiaobo Liu, University of Notre Dame, *Title to be announced.*

Special Sessions

Developments and Applications in Differential Geometry (Code: AMS SS C1), **Chuu-Lian Terng**, Northeastern University, and **Xiaobo Liu**, University of Notre Dame.

Ergodic Theory and Dynamical Systems (Code: AMS SS B1), **Stanley J. Eigen**, Northeastern University, and **Vidhu S. Prasad**, University of Massachusetts, Lowell.

Hilbert Schemes (Code: AMS SS G1), **Mark De Cataldo**, SUNY at Stony Brook, and **Anthony A. Iarrobino**, Northeastern University.

Modern Schubert Calculus (Code: AMS SS A1), **Frank Sottile**, University of Massachusetts, Amherst, and **Christopher T. Woodward**, Rutgers University.

Number Theory and Arithmetic Geometry (Code: AMS SS D1), **Matthew A. Papanikolas**, Brown University, and **Siman Wong**, University of Massachusetts, Amherst.

Quivers and Their Generalizations (Code: AMS SS E1), **Alex Martsinkovsky**, **Gordana G. Todorov**, **Jerzy M. Weyman**, and **Andrei V. Zelevinsky**, Northeastern University.

Recent Developments in the Orbit Method for Real and p-adic Groups (Code: AMS SS F1), **Donald R. King**, Northeastern University, and **Alfred G. Noel**, University of Massachusetts, Boston.

Madison, Wisconsin

University of Wisconsin-Madison

October 12–13, 2002

Meeting #980

Central Section
Associate secretary: Susan J. Friedlander
Announcement issue of *Notices*: August 2002
Program first available on AMS website: August 29, 2002
Program issue of electronic *Notices*: December 2002
Issue of *Abstracts*: Volume 23, Issue 4

Deadlines

For organizers: March 12, 2002
For consideration of contributed papers in Special Sessions: June 25, 2002
For abstracts: August 20, 2002

Invited Addresses

Lawrence Ein, University of Illinois at Chicago, *Title to be announced.*

Eleny Ionel, University of Wisconsin, *Title to be announced.*

Mikhail Safonov, University of Minnesota, *Title to be announced.*

John Sullivan, University of Illinois, Urbana-Champaign, *Title to be announced.*

Special Sessions

Arithmetic Algebraic Geometry (Code: AMS SS A1), **Ken Ono** and **Tonghai Yang**, University of Wisconsin-Madison.

Arrangements of Hyperplanes (Code: AMS SS E1), **Daniel C. Cohen**, Louisiana State University, **Peter Orlik**, University of Wisconsin-Madison, and **Anne Shepler**, University of California Santa Cruz.

Biological Computation and Learning in Intelligent Systems (Code: AMS SS S1), **Shun-ichi Amari**, RIKEN, **Amir Assadi**, University of Wisconsin-Madison, and **Tomaso Poggio**, Massachusetts Institute of Technology.

Characters and Representations of Finite Groups (Code: AMS SS U1), **Martin Isaacs**, University of Wisconsin, Madison, and **Mark Lewis**, Kent State University.

Combinatorics and Special Functions (Code: AMS SS T1), **Richard Askey** and **Paul Terwilliger**, University of Wisconsin-Madison.

Dynamical Systems (Code: AMS SS P1), **Sergey Bolotin** and **Paul Rabinowitz**, University of Wisconsin-Madison.

Effectiveness Questions in Model Theory (Code: AMS SS J1), **Charles McCoy**, **Reed Solomon**, and **Patrick Speissegger**, University of Wisconsin-Madison.

Geometric Methods in Differential Equations (Code: AMS SS H1), **Gloria Mari Beffa**, University of Wisconsin-Madison, and **Peter Olver**, University of Minnesota.

Geophysical Waves and Turbulence (Code: AMS SS M1), **Paul Milewski**, **Leslie Smith**, and **Fabian Waleffe**, University of Wisconsin-Madison.

Group Cohomology and Homotopy Theory (Code: AMS SS G1), **Alejandro Adem**, University of Wisconsin-Madison, and **Jesper Grodal**, Institute for Advanced Study.

Harmonic Analysis (Code: AMS SS C1), **Alex Ionescu** and **Andreas Seeger**, University of Wisconsin-Madison.

Hyperbolic Differential Equations and Kinetic Theory (Code: AMS SS K1), **Shi Jin**, **Marshall Slemrod**, and **Athanassios Tzavaras**, University of Wisconsin-Madison.

Lie Algebras and Related Topics (Code: AMS SS N1), **Georgia Benkart** and **Arun Ram**, University of Wisconsin-Madison.

Multiresolution Analysis and Data Presentation (Code: AMS SS F1), **Amos Ron**, University of Wisconsin-Madison.

Partial Differential Equations and Geometry (Code: AMS SS D1), **Sigurd Angenent** and **Mikhail Feldman**, University of Wisconsin-Madison.

Probability (Code: AMS SS R1), **David Griffeath**, University of Wisconsin-Madison, and **Timo Seppalainen**, Iowa State University.

Ring Theory and Related Topics (Code: AMS SS L1), **Don Passman**, University of Wisconsin-Madison.

Several Complex Variables (Code: AMS SS B1), **Pat Ahern**, **Xianghong Gong**, **Alex Nagel**, and **Jean-Pierre Rosay**, University of Wisconsin-Madison.

Salt Lake City, Utah

University of Utah

October 26–27, 2002

Meeting #981

Western Section
Associate secretary: Michel L. Lapidus
Announcement issue of *Notices*: September 2002
Program first available on AMS website: September 16, 2002
Program issue of electronic *Notices*: January 2003
Issue of *Abstracts*: Volume 23, Issue 4

Deadlines

For organizers: March 26, 2002
For consideration of contributed papers in Special Sessions: July 10, 2002
For abstracts: September 4, 2002

Invited Addresses

Yakov Eliashberg, Stanford University, *Title to be announced.*

Hart F. Smith, University of Washington, *Title to be announced.*

Michael Ward, University of British Columbia, *Title to be announced.*

Amie Wilkinson, Northwestern University, *Title to be announced.*

Orlando, Florida

University of Central Florida

November 9–10, 2002

Meeting #982

Southeastern Section
Associate secretary: John L. Bryant
Announcement issue of *Notices*: September 2002
Program first available on AMS website: September 26, 2002
Program issue of electronic *Notices*: January 2003
Issue of *Abstracts*: Volume 23, Issue 4

Deadlines

For organizers: April 10, 2002
For consideration of contributed papers in Special Sessions: July 23, 2002
For abstracts: September 17, 2002

Baltimore, Maryland

Baltimore Convention Center

January 15–18, 2003

Joint Mathematics Meetings, including the 109th Annual Meeting of the AMS, 86th Annual Meeting of the Mathematical Association of America (MAA), annual meetings of the Association for Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), and the winter meeting of the Association for Symbolic Logic (ASL).
Associate secretary: Susan J. Friedlander
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: April 15, 2002
For consideration of contributed papers in Special Sessions: To be announced
For abstracts: To be announced
For summaries of papers to MAA organizers: To be announced

Baton Rouge, Louisiana

Louisiana State University

March 14–16, 2003

Southeastern Section
Associate secretary: John L. Bryant
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced

Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: August 14, 2002
For consideration of contributed papers in Special Sessions: To be announced
For abstracts: To be announced

Bloomington, Indiana

Indiana University

April 4–6, 2003

Central Section
Associate secretary: Susan J. Friedlander
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: September 4, 2002
For consideration of contributed papers in Special Sessions: To be announced
For abstracts: To be announced

New York, New York

Courant Institute

April 12–13, 2003

Eastern Section
Associate secretary: Lesley M. Sibner
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: September 12, 2002
For consideration of contributed papers in Special Sessions: To be announced
For abstracts: To be announced

Seville, Spain

June 18–21, 2003

First Joint International Meeting between the AMS and the Real Sociedad Matematica Española (RSME).
Associate secretary: Susan J. Friedlander
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines

For organizers: May 15, 2002
For abstracts: To be announced

Invited Addresses

Xavier Cabre, Universidad Politècnica de Cataluòa, Barcelona, *Title to be announced.*

Charles Fefferman, Princeton University, *Title to be announced.*

Michael Hopkins, Massachusetts Institute of Technology, *Title to be announced.*

Ignacio Sols, Universidad Complutense, Madrid, *Title to be announced.*

Luis Vega, Universidad del Pais Vasco, Bilbao, *Title to be announced.*

Efim Zelmanov, Yale University, *Title to be announced.*

Special Sessions

Banach Spaces of Analytic Functions, **Daniel Girela**, University of Malaga, and **Michael Stessin**, SUNY at Albany.

Classical and Harmonic Analysis, **Nets Katz**, Washington University, **Carlos Perez**, Universidad de Sevilla, and **Ana Vargas**, Universidad Autonoma de Madrid.

Computational Methods in Algebra and Analysis, **Eduardo Cattani**, University of Massachusetts, Amherst, and **Francisco Jesus Castro-Jimenez**, Universidad de Sevilla.

History of Modern Mathematics—Gauss to Wiles, **Jose Ferreiros**, Universidad de Sevilla, and **David Rowe**, Universitat Mainz.

Interpolation Theory, Function Spaces and Applications , **Fernando Cobos**, University Complutense de Madrid, and **Pencho Petrushev**, University of South Carolina.

Mathematical Fluid Dynamics, **Diego Cordoba**, CSIC, Madrid, and Princeton University, and **Susan Friedlander**, University of Illinois, Chicago.

Nonlinear Dispersive Equations, **Gustavo Ponce**, University of California Santa Barbara, and **Luis Vega**, Universidad del Pais Vascos.

Operator Theory and Spaces of Analytic Functions, **Jose Bonet**, Universidad Politecnica de Valencia, **Pedro Paul**, Universidad de Sevilla, and **Cora S. Sadosky**, Howard University.

Variational Problems for Submanifolds, **Frank Morgan**, Williams College, and **Antonio Ros**, Universidad de Granada.

Binghamton, New York

SUNY-Binghamton

October 10–12, 2003
Eastern Section
Associate secretary: Lesley M. Sibner
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines
For organizers: March 10, 2003
For consideration of contributed papers in Special Sessions: To be announced
For abstracts: To be announced

Phoenix, Arizona

Phoenix Civic Plaza

January 7–10, 2004
Associate secretary: Bernard Russo
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines
For organizers: April 2, 2003
For consideration of contributed papers in Special Sessions: To be announced
For abstracts: To be announced
For summaries of papers to MAA organizers: To be announced

Athens, Ohio

Ohio University

March 26–27, 2004
Central Section
Associate secretary: Susan J. Friedlander
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines
For organizers: August 26, 2003
For consideration of contributed papers in Special Sessions: To be announced
For abstracts: To be announced

Atlanta, Georgia

Atlanta Marriott Marquis and Hyatt Regency Atlanta

January 5–8, 2005
Associate secretary: Lesley M. Sibner
Announcement issue of *Notices*: To be announced
Program first available on AMS website: To be announced
Program issue of electronic *Notices*: To be announced
Issue of *Abstracts*: To be announced

Deadlines
For organizers: April 5, 2004
For consideration of contributed papers in Special Sessions: To be announced
For abstracts: To be announced
For summaries of papers to MAA organizers: To be announced