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# 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.

## Bloomington, Indiana

*Indiana University*

**April 4–6, 2003**

### Meeting #985

Central Section

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: February 2003

Program first available on AMS website: February 20, 2003

Program issue of electronic *Notices*: April 2003

Issue of *Abstracts*: Volume 24, Issue 2

### Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:  
Expired

For abstracts: Expired

### Invited Addresses

**Daniel J. Allcock**, University of Texas, *Title to be announced.*

**Brian D. Conrad**, University of Michigan, *Title to be announced.*

**Robin A. Pemantle**, Ohio State University, *Title to be announced.*

**Sijue Wu**, University of Maryland, *Title to be announced.*

### Special Sessions

*Algebraic Topology*, **Randy McCarthy**, University of Illinois, Urban-Champaign, and **Ayelet Lindenstrauss**, Indiana University.

*Applications of Teichmüller Theory to Dynamics and Geometry*, **Christopher M. Judge** and **Matthias Weber**, Indiana University.

*Codimension One Splittings of Manifolds*, **James F. Davis**, Indiana University, and **Andrew A. Ranicki**, University of Edinburgh.

*Cryptography and Computational and Algorithmic Number Theory*, **Joshua Holden** and **John Rickert**, Rose-Hulman Institute of Technology, **Jonathan Sorenson**, Butler University, and **Andreas Stein**, University of Illinois at Urbana-Champaign.

*Differential Geometry*, **Jiri Dadok** and **Bruce Solomon**, Indiana University, and **Ji-Ping Sha**, Indiana university.

*Ergodic Theory and Dynamical Systems*, **Roger L. Jones** and **Ayse A. Sahin**, DePaul University.

*Extremal Combinatorics*, **Dhruv Mubayi**, University of Illinois at Chicago, and **Jozef Skokan**, University of Illinois at Urbana-Champaign.

*Geometric Topology*, **Paul A. Kirk** and **Charles Livingston**, Indiana University.

*Graph and Design Theory*, **Atif A. Abueida**, University of Dayton, and **Mike Daven**, Mount Saint Mary College.

*Graph Theory*, **Tao Jiang**, **Zevi Miller**, and **Dan Pritikin**, Miami University.

*Harmonic Analysis in the 21st Century*, **Winston C. Ou** and **Alberto Torchinsky**, Indiana University.

*Holomorphic Dynamics*, **Eric D. Bedford** and **Kevin M. Pilgrim**, Indiana University.

*Mathematical and Computational Problems in Fluid Dynamics and Geophysical Fluid Dynamics*, **Roger Temam** and **Shouhong Wang**, Indiana University.

*Operator Algebras and Free Probability*, **Hari Bercovici**, Indiana University, and **Marius Dadarlat**, Purdue University.

*Operator Algebras and Their Applications*, **Jerry Kaminker** and **Ronghui Ji**, Indiana University-Purdue University Indianapolis.

*Particle Models and Their Fluid Limits*, **Robert T. Glassey** and **David C. Hoff**, Indiana University.

*Probability*, **Russell D. Lyons**, Indiana University, and **Robin A. Pemantle**, Ohio State University.

*Recent Trend in the Analysis and Computations of Functional Differential Equations*, **Paul W. Eloe** and **Qin Sheng**, University of Dayton.

*Representations of Infinite Dimensional Lie Algebras and Mathematical Physics*, **Katrina Deane Barron**, University of Notre Dame, and **Rinat Kedem**, University of Illinois, Urbana-Champaign.

*Stochastic Analysis with Applications*, **Jin Ma** and **Frederi Viens**, Purdue University.

*Weak Dependence in Probability and Statistics*, **Richard C. Bradley** and **Lanh T. Tran**, Indiana University.

## New York, New York

*Courant Institute*

April 12–13, 2003

### Meeting #986

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: February 2003

Program first available on AMS website: February 27, 2003

Program issue of electronic *Notices*: April 2003

Issue of *Abstracts*: Volume 24, Issue 3

### Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:  
Expired

For abstracts: Expired

### Invited Addresses

**Matthias Aschenbrenner**, University of California Berkeley, *Title to be announced.*

**John Etnyre**, University of Pennsylvania, *Legendrian knots.*

**Hans Foellmer**, Humboldt University Berlin, *Mathematical aspects of financial risk.*

**Wilfrid Gangbo**, Georgia Institute of Technology, *The Riemannian geometry of the 2-Wasserstein metric and the nonlinear kinetic Fokker-Planck equation.*

### Special Sessions

*Algebraic and Topological Combinatorics*, **Eva-Maria Feichtner**, ETH, Zurich, Switzerland, and **Dmitry N. Kozlov**, University of Bern, Switzerland; and KTH, Stockholm, Sweden.

*Algebraic Geometry, Integrable Systems, and Gauge Theory*, **Marcos Jardim** and **Eyal Markman**, University of Massachusetts, Amherst.

*Analytical and Computational Methods in Electromagnetics*, **Alexander P. Stone**, University of New Mexico, and **Peter A. McCoy**, U. S. Naval Academy.

*Combinatorial and Statistical Group Theory*, **Alexei Myasnikov** and **Vladimir Shpilrain**, City College, New York.

*Contact and Symplectic Geometry*, **John B. Etnyre** and **Joshua M. Sabloff**, University of Pennsylvania.

*Galois Module Theory and Hopf Algebras*, **Daniel R. Repogle**, College of Saint Elizabeth, and **Robert G. Underwood**, Auburn University.

*The History of Mathematics*, **Patricia R. Allaire**, Queensborough Community College, CUNY, and **Robert E. Bradley**, Adelphi University.

*Hopf Algebras and Quantum Groups*, **M. Susan Montgomery**, University of Southern California, **Earl J. Taft**, Rutgers University, and **Sarah J. Witherspoon**, Amherst College.

*Low-Dimensional Topology*, **James Conant**, Cornell University, **Slava Krushkal**, University of Virginia, and **Rob Schneiderman**, NYU-Courant Institute.

*Nonlinear Partial Differential Equations in Differential Geometry*, **John C. Loftin** and **Mu-Tao Wang**, Columbia University.

*Rigidity in Dynamics, Geometry, and Group Theory*, **David Fisher**, CUNY, Herbert H. Lehman College, and **Steven E. Hurder** and **Kevin M. Whyte**, University of Illinois at Chicago.

*Topological Aspects of Complex Singularities*, **Sylvain E. Cappell**, NYU-Courant Institute, and **Walter D. Neumann** and **Agnes Szilard**, Barnard College, Columbia University.

## San Francisco, California

*San Francisco State University*

May 3–4, 2003

### Meeting #987

Western Section

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: March 2003

Program first available on AMS website: March 20, 2003  
 Program issue of electronic *Notices*: May 2003  
 Issue of *Abstracts*: Volume 24, Issue 3

### Deadlines

For organizers: Expired  
 For consideration of contributed papers in Special Sessions:  
 Expired  
 For abstracts: March 11, 2003

### Invited Addresses

**Joe P. Buhler**, Reed College, *A problem in symmetric functions arising from phase determination in crystallography*.

**Raymond C. Heitmann**, University of Texas at Austin, *The direct Summand Conjecture in dimension three*.

**Alexei Y. Kitaev**, California Institute of Technology, *Quantum media and topological quantum computation*.

**Arkady Vaintrob**, University of Oregon, *Higher spin curves and Gromov-Witten theory*.

### Special Sessions

*Beyond Classical Boundaries of Computability*, **Mark Burgin**, University of California Los Angeles, and **Peter Wegner**, Brown University.

*Combinatorial Commutative Algebra and Algebraic Geometry*, **Serkan Hosten**, San Francisco State University, and **Ezra Miller**, Mathematical Sciences Research Institute.

*Commutative Algebra*, **Raymond C. Heitmann**, University of Texas at Austin, and **Irena Swanson**, New Mexico State University.

*Efficient Arrangements of Convex Bodies*, **Dan P. Ismailescu**, Hofstra University, and **Wlodzimierz Kuperberg**, Auburn University.

*Geometry and Arithmetic over Finite Fields*, **Bjorn Poonen**, University of California Berkeley, and **Joe P. Buhler**, Reed College.

*Gromov-Witten Theory of Spin Curves and Orbifolds*, **Tyler Jarvis**, Brigham Young University, **Takashi Kimura**, Boston University, and **Arkady Vaintrob**, University of Oregon.

*The History of Nineteenth and Twentieth Century Mathematics*, **Shawnee McMurrin**, California State University, San Bernardino, and **James A. Tattersall**, Providence College.

*Numerical Methods, Calculations and Simulations in Knot Theory and Its Applications*, **Jorge Alberto Calvo**, North Dakota State University, **Kenneth C. Millett**, University of California Santa Barbara, and **Eric J. Rawdon**, Duquesne University.

*PDEs and Applications in Geometry*, **Qi S. Zhang**, University of California Riverside.

*Q-Series and Partitions*, **Neville Robbins**, San Francisco State University.

*Qualitative Properties and Applications of Functional Equations*, **Theodore A. Burton**, Southern Illinois University at Carbondale.

*Topological Quantum Computation*, **Alexei Kitaev**, California Institute of Technology, and **Samuel J. Lomonaco**, University of Maryland, Baltimore County.

# Seville, Spain

June 18–21, 2003

### Meeting #988

*First Joint International Meeting between the AMS and the Real Sociedad Matemática Española (RSME)*.

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: February 2003

Program first available on AMS website: Not applicable

Program issue of electronic *Notices*: Not applicable

Issue of *Abstracts*: Not applicable

### Deadlines

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

### Invited Addresses

**Xavier Cabre**, Universidad Politècnica de Catalunya, 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 País Vasco, Bilbao, *Title to be announced*.

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

### Special Sessions

*Affine Algebraic Geometry*, **Jaime Gutierrez**, University of Cantabria, **Vladimir Shpilrain**, City College of New York, and **Jie-Tai Yu**, University of Hong Kong.

*Algebraic Geometry*, **Felix Delgado**, Universidad de Valladolid, and **Andrey N. Todorov**, University of California Santa Cruz.

*Algebraic Topology*, **Alejandro Adem**, University of Wisconsin, **J. Aguade**, Universitat Autònoma de Barcelona, and **Eric M. Friedlander**, Northwestern University.

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

*Biomolecular Mathematics*, **Thomas J. Head** and **Fernando Guzman**, SUNY at Binghamton, **Mario Perez**, Universidad de Sevilla, and **Carlos Martin-Vide**, Rovira i Virgili University.

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

*Combinatorics*, **Joseph E. Bonin**, George Washington University, and **Marc Noy**, Universitat Politècnica de Catalunya.

*Commutative Algebra: Geometric, Homological, Combinatorial and Computational Aspects*, **Alberto Corso**, University of Kentucky, **Philippe Gimenez**, Universidad de Valladolid, and **Santiago Zarzuela**, Universitat de Barcelona.

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

*Constructive Approximation Theory*, **Antonio Duran**, Universidad de Sevilla, and **Edward B. Saff**, Vanderbilt University.

*Control and Geometric Mechanics*, **Manuel de Leon**, Instituto de Matemáticas y Física Fundamental, **Alberto Ibort**, Universidad Carlos III, and **Francesco Bullo**, University of Illinois, Urbana-Champaign.

*Differential Galois Theory*, **Teresa Crespo** and **Zbigniew Hajto**, Universitat de Barcelona, and **Andy R. Magid**, University of Oklahoma.

*Differential Structures and Homological Methods in Commutative Algebra and Algebraic Geometry*, **Gennady Lyubeznik**, University of Minnesota, and **Luis Narvaez-Macarro**, Universidad de Sevilla.

*Discrete and Computational Geometry*, **Ferran Hertado**, Universitat Politècnica de Catalunya, and **William Steiger**, Rutgers University.

*Dynamical Systems*, **George Haller**, Massachusetts Institute of Technology, **Zbigniew H. Nitecki**, Tufts University, **Enrique Ponce**, Universidad de Sevilla, **Tere M. Seara**, Universitat Politècnica de Catalunya, and **Xavier Jarque**, Universitat Autònoma de Barcelona.

*Effective Analytic Geometry over Complete Fields*, **Luis-Miguel Pardos**, Universidad de Cantabria, and **J. Maurice Rojas**, Texas A&M University.

*Geometric Methods in Group Theory*, **José Burillo**, Universitat Politècnica de Catalunya, **Jennifer Tayback**, University of Albany, and **Eric Ventura**, Universitat Politècnica de Catalunya.

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

*Homological Methods in Banach Space Theory*, **Jesus M. F. Castillo**, Universidad de Extremadura, and **N. J. Kalton**, University of Missouri.

*Homotopy Algebras*, **Pedro Real**, Universidad de Sevilla, **Thomas J. Lada**, North Carolina State University, and **James Stasheff**, University of North Carolina.

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

*Lorentzian Geometry and Mathematical Relativity*, **Luis J. Alias**, Universidad de Murcia, and **Gregory James Galloway**, University of Miami.

*Mathematical Aspects of Semiconductor Modeling and Nano-technology*, **Irene Martinez Gamba**, University of

Texas at Austin, and **Jose Antonio Carrillo**, Universidad de Granada.

*Mathematical Fluid Dynamics*, **Diego Cordoba**, CSIC, Madrid, and Princeton University, **Susan Friedlander**, University of Illinois, Chicago, and **Marcos Antonio Fontelos**, Universidad Rey Juan Carlos.

*Mathematical Methods in Finance and Risk Management*, **Santiago Carrillo Menendez**, Universidad Autónoma de Madrid, **Antonio Falcos Montesinos**, Universidad Cardenal Herrera CEU, **Antonio Sanchez-Calle**, Universidad Autónoma de Madrid, and **Luis A. Seco**, University of Toronto at Mississauga.

*The Mathematics of Electronmicroscopic Imaging*, **Jose-Maria Carazo**, Centro Nacional de Biotecnología-CSIC, and **Gabor T. Herman**, City University of New York.

*Moduli Spaces in Geometry and Physics*, **Steven B. Bradlow**, University of Illinois, Urbana-Champaign, and **Oscar Garcia-Prada**, Universidad Autónoma de Madrid.

*Nonassociative Algebras and Their Applications*, **Efim I. Zelmanov**, Yale University, **Santos Gonzalez**, Universidad de Oviedo, and **Alberto Elduque**, Universidad de Zaragoza.

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

*Numerical Linear Algebra*, **Lothar Reichel**, Kent State University, and **Francisco Marcellan**, University Carlos III de Madrid.

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

*PDE Methods in Continuum Mechanics*, **Juan L. Vazquez**, Universidad Autónoma de Madrid, and **J. W. Neuberger**, University of North Texas.

*Polynomials and Multilinear Analysis in Infinite Dimensions*, **Richard M. Aron**, Kent State University, **J. A. Jaramillo** and **Jose G. Llavona**, Universidad Complutense de Madrid, and **Andrew M. Tonge**, Kent State University.

*Quantitative Results in Real Algebra and Geometry*, **Carlos Andradas** and **Antonio Diaz-Cano**, Universidad Complutense, **Victoria Powers**, Emory University, and **Frank Sottile**, University of Massachusetts, Amherst.

*Recent Developments in the Mathematical Theory of Inverse Problems*, **Russell Brown**, University of Kentucky, **Alberto Ruiz**, Universidad Autónoma de Madrid, and **Gunther Uhlmann**, University of Washington.

*Riemannian Foliations*, **Jesus Antonio Alvarez Lopez**, Universidade de Santiago de Compostela, and **Efton L. Park**, Texas Christian University.

*Ring Theory and Related Topics*, **Jose Gomez-Torrecillas**, University of Granada, **Pedro Antonio Guil Asensio**, University of Murcia, **Sergio R. Lopez-Permouth**, Ohio University, and **Blas Torrecillas**, University of Almeria.

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

## Boulder, Colorado

*University of Colorado*

October 2–4, 2003

### Meeting #989

Joint Central/Western Sections

Associate secretaries: Susan J. Friedlander and Michel L. Lapidus

Announcement issue of *Notices*: August 2003

Program first available on AMS website: August 21, 2003

Program issue of electronic *Notices*: October 2003

Issue of *Abstracts*: Volume 24, Issue 4

### Deadlines

For organizers: Expired

For consideration of contributed papers in Special Sessions:  
June 6, 2003

For abstracts: August 12, 2003

### Invited Addresses

**J. Brian Conrey**, American Institute of Mathematics, *Random matrix theory and the Riemann zeta-function*.

**Giovanni Forni**, Northwestern University, *Title to be announced*.

**Juha M. Heinonen**, University of Michigan, *Title to be announced*.

**Joseph D. Lakey**, New Mexico State University, *Title to be announced*.

**Albert Schwarz**, University of California Davis, *Maximally supersymmetric gauge theories*.

**Avi Wigderson**, Institute for Advanced Study, *Title to be announced* (Erdős Memorial Lecture).

### Special Sessions

*Algebras, Lattices and Varieties* (Code: AMS SS A1), **Keith A. Kearnes**, University of Colorado, Boulder, **Agnes Szendrei**, Bolyai Institute, and **Walter Taylor**, University of Colorado, Boulder.

*Applications of Number Theory and Algebraic Geometry to Coding* (Code: AMS SS B1), **David R. Grant**, University of Colorado, Boulder, **Jose Felipe Voloch**, University of Texas at Austin, and **Judy Leavitt Walker**, University of Nebraska, Lincoln.

*Associative Rings and Their Modules* (Code: AMS SS J1), **Gene Abrams**, University of Colorado, Colorado Springs, and **Kent Fuller**, University of Iowa.

*Geometric Methods in Partial Differential Equations* (Code: AMS SS C1), **Jeanne N. Clelland**, University of Colorado, Boulder, and **George R. Wilkins**, University of Hawaii.

*Graphs and Diagraphs* (Code: AMS SS H1), **Michael Jacobson**, University of Colorado, Denver, and **Richard J. Lundgren**, University of Colorado, Denver.

*Groupoids in Analysis and Geometry* (Code: AMS SS D1), **Lawrence Baggett**, University of Colorado, Boulder, **Jerry Kaminker**, Indiana University-Purdue University Indianapolis, and **Judith Packer**, University of Colorado, Boulder.

*Homotopy Theory* (Code: AMS SS F1), **Daniel Dugger**, University of Oregon, and **Brooke E. Shipley**, Purdue University.

*Noncommutative Geometry and Geometric Analysis* (Code: AMS SS E1), **Carla Farsi**, **Alexander Gorokhovsky**, and **Siye Wu**, University of Colorado.

*Structured Population and Epidemic Models: Periodicity, Chaos, and Extinction* (Code: AMS SS G1), **Linda J. S. Allen**, Texas Technical University, and **Sophia R.-J. Jang**, University of Louisiana at Lafayette.

## Binghamton, New York

*Binghamton University*

October 11–12, 2003

### Meeting #990

Eastern Section

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: August 2003

Program first available on AMS website: August 28, 2003

Program issue of electronic *Notices*: October 2003

Issue of *Abstracts*: Volume 24, Issue 4

### Deadlines

For organizers: March 10, 2003

For consideration of contributed papers in Special Sessions:  
June 24, 2003

For abstracts: August 19, 2003

### Invited Addresses

**Peter Kuchment**, Texas A&M University, *Title to be announced*.

**Zlil Sela**, Einstein Institute of Mathematics, *Title to be announced*.

**Zoltan Szabo**, Princeton University, *Title to be announced*.

**Jeb F. Willenbring**, Yale University, *Title to be announced*.

### Special Sessions

*Biomolecular Mathematics* (Code: AMS SS A1), **Thomas J. Head** and **Dennis G. Pixton**, Binghamton University, **Mitsunori Ogiwara**, University of Rochester, and **Carlos Martin-Vide**, Universitat Rovira i Virgili.

*Boundary Value Problems on Singular Domains* (Code: AMS SS C1), **Juan B. Gil**, Temple University, and **Paul A. Loya**, Binghamton University.

*Geometric Group Theory* (Code: AMS SS B1), **Zlil Sela**, Einstein Institute of Mathematics, and **Ross Geoghegan**, Binghamton University.

*Infinite Groups and Group Rings* (Code: AMS SS D1), **Luise-Charlotte Kappe**, Binghamton University, and **Derek J. S. Robinson**, University of Illinois, Urbana-Champaign.

*Lie Algebras, Conformal Field Theory, and Related Topics* (Code: AMS SS E1), **Chongying Dong**, University of California Santa Cruz, and **Alex J. Feingold** and **Gaywalee Yamskulna**, Binghamton University.

*Probability Theory* (Code: AMS SS F1), **Miguel A. Arcones**, Binghamton University, and **Evarist Gine**, University of Connecticut.

*Statistics* (Code: AMS SS G1), **Miguel A. Arcones**, **Anton Schick**, and **Qiqing Yu**, Binghamton University.

## Chapel Hill, North Carolina

*University of North Carolina at Chapel Hill*

**October 24–25, 2003**

### Meeting #991

Southeastern Section

Associate secretary: John L. Bryant

Announcement issue of *Notices*: August 2003

Program first available on AMS website: September 11, 2003

Program issue of electronic *Notices*: October 2003

Issue of *Abstracts*: Volume 24, Issue 4

### Deadlines

For organizers: March 24, 2003

For consideration of contributed papers in Special Sessions:  
July 19, 2003

For abstracts: September 3, 2003

### Invited Addresses

**James N. Damon**, University of North Carolina, *Title to be announced.*

**Erica L. Flapan**, Pomona College, *Title to be announced.*

**Mary Ann Horn**, Vanderbilt University, *Title to be announced.*

**Helmut Voelklein**, University of Florida, *Title to be announced.*

## Bangalore, India

*Indian Institute of Science*

**December 17–20, 2003**

### Meeting #992

*First Joint AMS-India Mathematics Meeting*

Associate secretary: Susan J. Friedlander

Announcement issue of *Notices*: To be announced

Program first available on AMS website: Not applicable

Program issue of electronic *Notices*: Not applicable

Issue of *Abstracts*: Not applicable

### Deadlines

For organizers: To be announced

For consideration of contributed papers in Special Sessions:  
To be announced

For abstracts: To be announced

### Invited Addresses

**R. Balasubramanian**, Institute for Mathematical Sciences, *Title to be announced.*

**George C. Papanicolaou**, Stanford University, *Title to be announced.*

**M. S. Raghunathan**, Tata Institute of Fundamental Research, *Title to be announced.*

**Peter Sarnak**, Princeton University and New York University-Courant Institute, *Title to be announced.*

**K. B. Sinha**, Indian Statistical Institute, *Title to be announced.*

**Vladimir Voevodsky**, Institute for Advanced Study, *Title to be announced.*

### Special Sessions

*Algebraic and Geometric Methods in Multivariable Operator Theory*, **Ronald G. Douglas**, Texas A&M University, and **Gadadhar Misra**, Indian Statistical Institute.

*Algebraic and Geometric Topology*, **Parameswaren Sankaran**, Institute of Mathematical Sciences, and **P. B. Shalen**, University of Illinois.

*Automorphic Forms and Functoriality*, **James Cogdell**, Oklahoma State University, and **T. N. Venkataramana**, Tata Institute of Fundamental Research.

*Buildings and Group Theory*, **N. S. Narasimha Sastry**, Indian Statistical Institute, and **Richard M. Weiss**, Tufts University.

*Commutative Algebra and Algebraic Geometry*, **Sudhir Ghorpade**, Indian Institute of Technology, Bombay, **Hema Srinivasan**, University of Missouri, and **Jugal K. Verma**, Indian Institute of Technology, Bombay.

*Cycles, K-Theory, and Motives*, **Eric M. Friedlander**, Northwestern University, **Steven Lichtenbaum**, Brown University, **Kapil Paranjape**, Institute of Mathematical Sciences, and **Vasudevan Srinivas**, Tata Institute of Fundamental Research.

*Differential Equations and Applications to Population Dynamics, Epidemiology, Genetics and Microbiology*, **Bindhyachal Rai**, University of Allahabad, **Sanjay Rai**, Jacksonville University, **Terrance Quinn**, Ohio University Southern, and **Sunil Tiwari**, Sonoma State University.

*The Many Facets of Linear Algebra and Matrix Theory*, **Richard Brualdi**, University of Wisconsin, and **Rajendra Bhatia**, Indian Statistical Institute.

*PDE and Applications*, **Susan B. Friedlander**, University of Illinois, and **P. N. Srikanth**, Tata Institute of Fundamental Research.

*Probability Theory*, **Rajeeva Karandikar**, Indian Statistical Institute, and **Srinivasa R. S. Varadhan**, New York University-Courant Institute.

*Spectral and Inverse Spectral Theories of Schrödinger Operators*, **Peter David Hislop**, University of Kentucky, and **Krishna Maddaly**, Institute of Mathematical Sciences.

## Phoenix, Arizona

*Phoenix Civic Plaza*

**January 7–10, 2004**

### Meeting #993

*Joint Mathematics Meetings, including the 110th Annual Meeting of the AMS, 87th 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), the winter meeting of the Association for Symbolic Logic (ASL), with sessions contributed by the Society for Industrial and Applied Mathematics (SIAM).*

Associate secretary: Michel L. Lapidus

Announcement issue of *Notices*: October 2003

Program first available on AMS website: November 1, 2003

Program issue of electronic *Notices*: January 2004

Issue of *Abstracts*: Volume 25, Issue 1

### Deadlines

For organizers: April 2, 2003

For consideration of contributed papers in Special Sessions:  
August 6, 2003

For abstracts: October 1, 2003

For summaries of papers to MAA organizers: To be announced

### Request for Proposals from AMS Special Session Organizers

Michel L. Lapidus, the associate secretary responsible for the AMS program in Phoenix, is soliciting proposals for Special Sessions for this meeting. Each proposal must include the full names, email addresses, and institutions of all members of the organizing committee and identify the one organizer who will serve as contact for all communications about the session; the title and a brief (two or three paragraphs) description of the proposed session; and a *sample* list of speakers whom the proposed organizers plan to invite (please note that it is not at all necessary to have confirmed commitments from these speakers).

It is expected that each Special Session will be allotted 10 hours over two days of the meeting in which to schedule speakers. In order to allow the maximum movement between sessions for all participants, Special Session speakers will be scheduled for either a 20-minute talk, 5-minute discussion, and 5-minute break; or a 40-minute talk, 10-minute discussion, and 10-minute break. All talks must begin on the hour or half-hour. Any combination of 20-minute and 40-minute talks is allowed, provided the schedule conforms to

beginning on the hour and half-hour (except on the first afternoon, for technical reasons).

Proposals for AMS Special Sessions must be received by the deadline for organizers, **April 2, 2003**, and submitted (preferably by email) to the AMS associate secretary, Michel L. Lapidus (lapidus@math.ucr.edu). Late proposals will not be considered.

There is limited space available for Special Sessions on the AMS program, so it is likely that not all proposals will be accepted. Please be sure to submit as detailed a proposal as possible for review by the program committee. All proposed organizers will be notified of acceptance or rejection no later than May 1, 2003.

## Tallahassee, Florida

*Florida State University*

**March 12–13, 2004**

### Meeting #994

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 13, 2003

For consideration of contributed papers in Special Sessions:  
To be announced

For abstracts: To be announced

## Athens, Ohio

*Ohio University*

**March 26–27, 2004**

### Meeting #995

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

# Los Angeles, California

*University of Southern California*

**April 3–4, 2004**

## Meeting #996

Western Section

Associate secretary: Michel L. Lapidus

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: To be announced

For consideration of contributed papers in Special Sessions:  
To be announced

For abstracts: To be announced

## Special Sessions

*Contact and Symplectic Geometry* (Code: AMS SS A1),  
**Dragomir Dragnev, Ko Honda, and Sang Seon Kim**, Uni-  
versity of Southern California.

# Lawrenceville, New Jersey

*Rider University*

**April 17–18, 2004**

## Meeting #997

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 17, 2003

For consideration of contributed papers in Special Sessions:  
To be announced

For abstracts: To be announced

# Houston, Texas

*University of Houston*

**May 13–15, 2004**

*Sixth International Joint Meeting of the AMS and the  
Sociedad Matemática Mexicana (SMM)*.

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: To be announced

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 an-  
nounced

# Nashville, Tennessee

*Vanderbilt University*

**October 16–17, 2004**

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: March 16, 2004

For consideration of contributed papers in Special Sessions:  
To be announced

For abstracts: To be announced

# Albuquerque, New Mexico

*University of New Mexico*

**October 16–17, 2004**

Western Section

Associate secretary: Michel L. Lapidus

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 16, 2004

For consideration of contributed papers in Special Sessions:  
To be announced

For abstracts: To be announced

# Pittsburgh, Pennsylvania

*University of Pittsburgh*

**November 6–7, 2004**

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: April 7, 2004

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**

*Joint Mathematics Meetings, including the 111th Annual Meeting of the AMS, 88th Annual Meeting of the Mathematical Association of America (MAA), annual meetings of the Association of Women in Mathematics (AWM) and the National Association of Mathematicians (NAM), and the winter meeting of the Association of Symbolic Logic (ASL).*

Associate secretary: Lesley M. Sibner

Announcement issue of *Notices*: October 2004

Program first available on AMS website: To be announced

Program issue of electronic *Notices*: January 2005

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

# Newark, Delaware

*University of Delaware*

**April 2–3, 2005**

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 2, 2004

For consideration of contributed papers in Special Sessions:

To be announced

For abstracts: To be announced

# Mainz, Germany

*Deutsche Mathematiker-Vereinigung (DMV)  
and the Osterreichische Mathematische  
Gesellschaft (OMG)*

**June 16–19, 2005**

*Second Joint AMS-Deutsche Mathematiker-Vereinigung (DMV) Meeting*

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: To be announced

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

# San Antonio, Texas

*Henry B. Gonzalez Convention Center*

**January 12–15, 2006**

*Joint Mathematics Meetings, including the 112th Annual Meeting of the AMS, 89th Annual Meeting of the Mathematical Association of America, 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: John L. Bryant

Announcement issue of *Notices*: October 2005

Program first available on AMS website: To be announced

Program issue of electronic *Notices*: January 2006

Issue of *Abstracts*: To be announced

## Deadlines

For organizers: April 12, 2005

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

## New Orleans, Louisiana

*New Orleans Marriott and Sheraton  
New Orleans Hotel*

### January 4–7, 2007

*Joint Mathematics Meetings, including the 113th Annual Meeting of the AMS, 90th 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*: October 2006

Program first available on AMS website: To be announced

Program issue of electronic *Notices*: January 2007

Issue of *Abstracts*: To be announced

### Deadlines

For organizers: April 4, 2006

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

## San Diego, California

*San Diego Convention Center*

### January 6–9, 2008

*Joint Mathematics Meetings, including the 114th Annual Meeting of the AMS, 91st 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: Michel L. Lapidus

Announcement issue of *Notices*: October 2007

Program first available on AMS website: November 1, 2007

Program issue of electronic *Notices*: January 2008

Issue of *Abstracts*: Volume 29, Issue 1

### Deadlines

For organizers: April 6, 2007

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

## Washington, District of Columbia

*Marriott Wardman Park Hotel  
and Omni Shoreham Hotel*

### January 7 – 10, 2009

*Joint Mathematics Meetings, including the 115th Annual Meeting of the AMS, 92nd 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: Lesley M. Sibner

Announcement issue of *Notices*: October 2008

Program first available on AMS website: November 1, 2008

Program issue of electronic *Notices*: January 2009

Issue of *Abstracts*: Volume 30, Issue 1

### Deadlines

For organizers: April 7, 2008

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