American Mathematical Society
Spring Eastern Sectional Meeting

Georgetown University
Washington DC
March 7-8, 2015

Invited Addresses
F.R. Hertz, Pennsylvania State University
N. Hingston, The College of New Jersey
S. Tavaré, Cambridge University
Y. Zhang, University of New Hampshire

Special Session on Algebra and Representation Theory
Ela Celikbas, University of Connecticut
Olguç Celikbas, University of Connecticut
Frank Moore, Wake Forest University

Special Session on Algebraic Structures Motivated by and Applied to Knot Theory
Jozef H. Przytycki, George Washington University
Radmila Sazdanovic, North Carolina State University
Alexander N. Shumakovitch, George Washington University
Hao Wu, George Washington University

Special Session on Asymptotic Problems for Stochastic Processes and PDEs
Sandra Cerrai, University of Maryland
Dmitry Dolgopyat, University of Maryland
Mark Freidlin, University of Maryland
Leonid Koralov, University of Maryland

Special Session on Bases and Frames in Hilbert Spaces and Applications
Laura De Carli, Florida International University

Special Session on Characterizing Uncertainty for Modeling Physical Processes
Ali Arab, Georgetown University

Special Session on Closure Operations in Commutative Algebra
Nell Epstein, George Mason University
Lance Edward Miller, University of Arkansas

Special Session on Computable Structure Theory
Rumen Dimitrov, Western Illinois University
Valentina Harizanov, George Washington University
Russell Miller, Queens College and Graduate Center

Special Session on Conceptual Mathematical Models in Climate Science
Hans Engler, Georgetown University
Hans Kaper, Georgetown University

Special Session on Convexity and Combinatorics
Jim Lawrence, George Mason University
Valezhu Santan, George Mason University

Special Session on Crossing Numbers of Graphs
Paul Kainen, Georgetown University

Special Session on Data Assimilation: Recent Progress in Theory, Methods and Applications
M. Lunasin, United States Naval Academy
Reza Malek-Madani, United States Naval Academy

Special Session on Difference Equations and Applications
Michael Radin, Rochester Institute of Technology
Steven J. Miller, Williams College

Special Session on Dynamical Systems Models of Physiological Processes
Paula Gradelena, Shenandoah University
Talitha Washington, Howard University
Abdul-Aziz Yakubu, Howard University

Special Session on Geometric Structures on Low-Dimensional Manifolds and their Invariants
Cagatay Kutluhan, University at Buffalo
Thomas E. Mark, University of Virginia

Special Session on History and Philosophy of Mathematics
V. Frederick Rickey, West Point Military Academy
James J. Tattersall, Providence College

Special Session on Inverse Problems for Non-destructive Testing
Nicolas Valdivia, Naval Research Laboratory

Special Session on Iterated Integrals and Applications
Ivan Horozov, Washington University in St. Louis

Special Session on Mathematical Fluid Dynamics and Turbulence
Zachary Bradshaw, University of British Columbia
Aseel Farhat, Indiana University
Michele Coti Zelati, University of Maryland

Special Session on Nonlinear Dispersive and Wave Equations with Applications to Fluids
Pierre Germain, New York University
Zaher Hani, New York University
Benoit Pausader, Princeton University

Special Session on Nonlinear Partial Differential Equations in Sciences and Engineering
Lorena Bociu, North Carolina State University
Ciprian Gal, Florida International University
Daniel Toundykov, University of Nebraska

Special Session on Number Theory in Ergodic Theory and Dynamical Systems
Joe H.Cong, Northern Virginia Community College
Erbahn Mehmut, George Washington University and Georgetown U.
E. Arthur Robinson Jr., George Washington University
Tyler White, Northern Virginia Community College

Special Session on Operator Theory on Analytic Function Spaces
Robert F. Allen, University of Wisconsin, La Cross
Flavia Colonna, George Mason University

Special Session on Optimization Theory, Algorithms and Applications
Olga Brezhneva, Miami University, Oxford, OH
Igor Griva, George Mason University

Special Session on Patterns in Permutations and Words
Alexander Burstein, Howard University

Special Session on Qualitative Behavior of Solutions of Partial Differential Equations
Junping Shi, College of William and Mary
Jiuyi Zhu, John Hopkins University

Special Session on Quantum Algebras, Representations, and Categorifications
Sean Clark, University of Virginia
Weiqiang Wang, University of Virginia

Special Session on Singularities: Algebraic and Analytic Aspects
Claudia Miller, Syracuse University
Sophia Vaviliadou, Georgetown University

Special Session on Some Sequences and Nonlinear Recurrences
Andrew Vogt, Georgetown University

Special Session on Spatial Evolutionary Models and Biological Invasions
Judith Miller, Georgetown University
Yuan Lou, Ohio State University

Special Session on Stochastic Analysis and Stochastic PDEs
Sandra Cerrai, University of Maryland

Special Session on Topology in Biology
Paul Kainen, Georgetown University

Special Session on Within-Host Disease Modeling
Stanca Ciup, Virginia Polytechnic Institute
Sivan Leviyang, Georgetown University