Friday, 21 August

Invited Lectures

14:00 – 14:45

04 **Mikhail M. Kapranov,** Northwestern University, Evanston, USA **MA 005**
Operads and algebraic geometry *(I: p.65)*
Chair: Enrico Arbarello

05 **Simon K. Donaldson,** Stanford University, Stanford, USA **MA 001**
Positive line bundles in symplectic geometry *(I: p.69)*
Chair: Ulrich Pinkall

06 **Alexander N. Dranishnikov,** University of Florida, Gainesville, USA and Steklov Math. Institute, Moscow, Russia **MA 004**
Dimension theory and large Riemannian manifolds *(I: p.79)*
Chair: Alexander S. Mishchenko

09 **Shuhei Hayashi,** Waseda University, Tokyo, Japan **H 1012**
Hyperbolicity, stability and the creation of homoclinic points *(I: p.113)*
Chair: Jack Carr

11 **Fedor Smirnov,** CNRS, LPTHE, Université Pierre et Marie Curie, Paris, France **H 1028**
Space of local fields in integrable field theory and deformed Abelian integrals *(I: p.137)*
Chair: Andreas Fring

14 **Emo Welzl,** ETH Zürich, Zürich, Switzerland **H 2032**
Halving Point Sets *(I: p.175)*
Chair: Helmut Alt

15:00 – 15:45

04 **Victor Vadimovich Batyrev,** Universität Tübingen, Tübingen, Germany **MA 005**
Mirror symmetry and toric geometry *(I: p.60)*
Chair: Yujiro Kawamata

05 **François Labourie,** Université Paris-Sud, Orsay, France **MA 001**
Large Group Actions on Manifolds *(I: p.73)*
Chair: Ulrich Pinkall

06 **Michael Hartley Freedman,** Microsoft Corporation, Redmond, USA **MA 004**
Topological views of computational complexity *(I: p.80)*
Chair: Robert D. Edwards

09 **Michael Herman,** CNRS, Université Denis Diderot / Paris 7, Paris, France **H 1012**
Some open problems in dynamical systems *(I: p.114)*
Chair: Thomas Bartsch

11 **Roberto Schonmann,** UCLA, Los Angeles, USA **H 1028**
Metastability and the Ising model *(I: p.136)*
Chair: Christian Borgs

14 **Miklós Ajtai,** IBM Almaden Research Center, San Jose, USA **H 2032**
Worst-case Complexity, Average-case Complexity, and Lattice Problems *(I: p.165)*
Chair: Helmut Alt

16:15 – 17:00

02 **William M. Kantor,** University of Oregon, Eugene, USA **MA 005**
Simple Groups in Computational Group Theory *(I: p.41)*
Chair: Charles C. Sims

07 **Vera Serganova,** University of California, Berkeley, USA — **MA 004**
On representations of Lie superalgebras *(I: p.95)*
Chair: Olivier Mathieu

08 **Michael Christ,** University of California, Berkeley, USA — **MA 001**
Singularity and Regularity — Local and Global *(I: p.97)*
Chair: Daryl Geller

10 **Gustavo Alberto Ponce,** University of California, Santa Barbara, USA — **H 1012**
On nonlinear dispersive equations *(I: p.125)*
Chair: Mikhail Shubin

12 **Mark Freidlin,** University of Maryland, College Park, USA — **H 1028**
Random and Deterministic Perturbations of Nonlinear Oscillators *(I: p.141)*
Chair: Jürgen Gärtner

16 & 17 **William J. Cook,** Rice University, Houston, USA — **H 2032**
The Traveling Salesman Problem *(I: p.186)*
Chair: Günter M. Ziegler

17:15 – 18:00

02 **Aleksandr Pukhlikov,** Institute for Systems Analysis, Moscow, Russia — **MA 005**
Birational automorphisms of algebraic varieties *(I: p.42)*
Chair: Victor Vadimovich Batyrev

07 **Shahar Mozes,** Hebrew University, Jerusalem, Israel — **MA 004**
Products of trees, lattices and simple groups *(I: p.93)*
Chair: Peter Sarnak

08 **Hart F. Smith,** University of Washington, Seattle, USA — **MA 001**
Wave Equations with Low Regularity Coefficients *(I: p.107)*
Chair: Gerald B. Folland

10 **Frédéric Hélein,** CMLA, ENS-Cachan, Cachan, France — **H 1012**
Phenomena of compensation and estimates for partial differential equations *(I: p.121)*
Chair: Gunther A. Uhlmann

12 **Jean-François Le Gall,** DMI — École Normale Supérieure, Paris, France — **H 1028**
Branching processes, random trees and superprocesses *(I: p.147)*
Chair: Donald Dawson

17 **Jan C. Willems,** University of Groningen, Groningen, The Netherlands — **H 2032**
Open Dynamical Systems and their Control *(I: p.195)*
Chair: Fritz Colonius