Thursday, 20 August

Invited Lectures

14:00 – 14:45

04 **Mark L. Green,** UCLA, Los Angeles, USA — **MA 005**
Higher Abel-Jacobi Maps *(I: p.62)*
Chair: Frank Schreyer

07 **Alexander Eskin,** University of Chicago, Chicago, USA — **MA 004**
Counting problems and semisimple groups *(I: p.91)*
Chair: Peter Sarnak

08 **Sergey Ivanovich Pinchuk,** Indiana University, Bloomington, USA and Chelyabinsk State Univ. of Technology, Chelyabinsk, Russia — **MA 001**
Reflection Principle in Higher Dimensions *(I: p.104)*
Chair: Jürgen Leiterer

10 **Matei Machedon,** University of Maryland, College Park, USA — **H 1012**
Fourier Analysis of Null Forms and Non-linear Wave Equations *(I: p.124)*
Chair: Michael Struwe

12 **Ruth J. Williams,** University of California at San Diego, La Jolla, USA — **H 1028**
Reflecting Diffusions and Queueing Networks *(I: p.152)*
Chair: Ludwig Arnold

17 **Alexander Schrijver,** CWI and University of Amsterdam, Amsterdam, Netherlands — **H 2032**
Routing and timetabling by topological search *(I: p.194)*
Chair: Günter M. Ziegler

15:00 – 15:45

04 **Maurizio Cornalba,** Università di Pavia, Pavia, Italy — **MA 005**
Cohomology of moduli spaces of stable curves *(I: p.61)*
Chair: Alberto Conte

07 **Joseph Bernstein,** Tel Aviv University, Tel Aviv, Israel — **MA 004**
Analytic structures on representation spaces of reductive groups *(I: p.88)*
Chair: Wolfgang Soergel

08 **Nigel David Higson,** Pennsylvania State University, University Park, USA — **MA 001**
The Baum-Connes Conjecture *(I: p.98)*
Chair: Joachim Cuntz

10 **Frank Eric Merle,** Université de Cergy-Pontoise, Cergy-Pontoise, France — **H 1012**
Blow-up Phenomenon For Critical Nonlinear Schrödinger and Zakharov Equations *(I: p.124)*
Chair: Elmar Schrohe

12 **Maury D. Bramson,** University of Minnesota, Minneapolis, USA — **H 1028**
State Space Collapse for Queueing Networks *(I: p.141)*
Chair: Jennifer T. Chayes

17 **Michel X. Goemans,** CORE, Louvain-La-Neuve, Belgium and MIT, Cambridge, USA — **H 2032**
Semidefinite programming and combinatorial optimization *(I: p.193)*
Chair: András Frank

16:15 – 17:00

!!! **Lecture by a Fields Medalist** — **MA 005**
– to be announced –
Chair: N.N.

05	**Joachim Lohkamp,** Universität Augsburg, Augsburg, Germany *Curvature Contents of Geometric Spaces* Chair: Jean-Pierre Bourguignon	*(I: p.75)*	**MA 001**
06	**Tomotada Ohtsuki,** Tokyo Institute of Technology, Tokyo, Japan *A filtration of the set of integral homology 3-spheres* Chair: W.B. Raymond Lickorish	*(I: p.82)*	**MA 004**
09	**Krystyna M. Kuperberg,** Auburn University, Auburn, USA *Counterexamples to the Seifert Conjecture* Chair: Urs Kirchgraber	*(I: p.117)*	**H 1012**
11	**Jennifer T. Chayes,** Microsoft Research, Redmond, USA *Birth of the Infinite Cluster: Finite-Size Scaling in Percolation* Chair: Jean-Dominique Deuschel	*(I: p.130)*	**H 1028**
14	**Madhu Sudan,** MIT, Cambridge, USA *Probabilistic checking of proofs* Chair: Hans J. Prömel	*(I: p.173)*	**H 2032**

17:15 – 18:00

05	**Yakov Eliashberg,** Stanford University, Stanford, USA *Invariants in Contact Topology* Chair: Jean-Pierre Bourguignon	*(I: p.70)*	**MA 001**
06	**Clifford Henry Taubes,** Harvard University, Cambridge, USA *The Geometry of the Seiberg-Witten Invariants* Chair: Dieter Kotschick	*(I: p.86)*	**MA 004**
09	**Håkan Eliasson,** Royal Institute of Technology, Stockholm, Sweden *Reducibility and point spectrum for linear quasi-periodic skew-products* Chair: Reiner Lauterbach	*(I: p.112)*	**H 1012**
11	**Detlev Buchholz,** Universität Göttingen, Göttingen, Germany *Scaling algebras in local relativistic quantum physics* Chair: Gian Michele Graf	*(I: p.129)*	**H 1028**
14	**Johan Håstad,** Royal Institute of Technology, Stockholm, Sweden *On approximating NP-hard optimization problems* Chair: Hans J. Prömel	*(I: p.169)*	**H 2032**
16	**Graeme Walter Milton,** The University of Utah, Salt Lake City, USA *Exact relations for composites: towards a complete solution* Chair: Krzysztof Wilmanski	*(I: p.191)*	**MA 005**