Tuesday, 25 August

Invited Lectures

14:00 – 14:45

03 **Loïc Merel,** Université Paris 7 - Denis Diderot, Paris, France **MA 005**
Determination of rational points using Dirichlet series *(I: p.52)*
Chair: Wilhelm Zink

08 **Nicole Tomczak-Jaegermann,** University of Alberta, Edmonton, Canada **MA 001**
From finite- to infinite-dimensional phenomena in Geometric Functional Analysis, on local and asymptotic levels *(I: p.108)*
Chair: W. Timothy Gowers

12 **Alain-Sol Sznitman,** ETH Zürich, Zürich, Switzerland **H 1028**
Brownian motion and random obstacles *(I: p.149)*
Chair: Terry J. Lyons

15 **Percy Alec Deift,** Courant Institute, New York University, New York, USA **H 1012**
Uniform asymptotics for orthogonal polynomials *(I: p.179)*
Chair: Tom H. Koornwinder

16 **Andreas W.M. Dress,** Universität Bielefeld, Bielefeld, Germany **H 2032**
The Tree of Life and Other Affine Buildings *(I: p.186)*
Chair: Hanfried Lenz

18 **Mariolina Bartolini Bussi,** Università di Modena, Modena, Italy **H 104**
Drawing instruments: the theory of a practice from history to didactics *(I: p.197)*
Chair: Klaus-D. Graf

15:00 – 15:45

!!! **Lecture by a Fields Medalist** **MA 001**
— to be announced —
Chair: N.N.

03 **Shinichi Mochizuki,** RIMS, Kyoto University, Kyoto, Japan **MA 005**
The Intrinsic Hodge Theory of p-adic Hyperbolic Curves *(I: p.53)*
Chair: Helmut Koch

12 **Peter Gavin Hall,** Australian National University, Canberra, Australia **H 1028**
Applications of Intentionally Biased Bootstrap Methods *(I: p.144)*
Chair: Olaf Bunke

15 **Jan-Olov Strömberg,** Royal Institute of Technology, Stockholm, Sweden **H 1012**
Apriori estimates for approximation by wavelets in higher dimensions *(I: p.180)*
Chair: Peter Maaß

16 **Bonnie Berger,** Massachusetts Institute of Technology, Cambridge, USA **H 2032**
Sequence-based Methods for Protein Folding *(I: p.185)*
Chair: Michiel Hazewinkel

18 **James Stigler,** University of California, Los Angeles, USA **H 104**
Classroom Mathematics Instruction in Three Cultures: An Introduction to the TIMSS Video Study *(I: p.200)*
Chair: Thomas Jahnke

16:15 – 17:00

01 **Matthew Foreman,** University of California, Irvine, USA **H 1012**
Generic Large Cardinals: New Axioms for Mathematics? *(I: p.30)*
Chair: Peter G. Koepke

02 **Aner Shalev,** The Hebrew University, Jerusalem, Israel **MA 005**
Simple groups, permutation groups, and probability *(I: p.45)*
Chair: Bernhard H. Neumann

05 **Boris Dubrovin,** International School for Advanced Studies, Trieste, Italy and Steklov Math. Institute, Moscow, Russia **MA 001**
Geometry and analytic theory of Frobenius manifolds *(I: p.69)*
Chair: Alexander I. Bobenko

11 **Eugene Bogomolny,** Université Paris Sud, Orsay, France **H 1028**
Spectral Statistics *(I: p.129)*
Chair: Pierre Collet

13 **Neil J.A. Sloane,** AT&T Research Labs, Florham Park, USA **H 2032**
Recent developments on the sphere-packing problem *(I: p.161)*
Chair: Martin Aigner

16:15 – 18:00

18 **George Eyre Andrews,** Pennsylvania State University, University Park, USA **H 104**
D.J. Lewis (moderator), NSF, Arlington, USA
David Alexander Smith, Duke University, Durham, USA
Collegiate Mathematics Instruction for the 21st Century — A Panel Discussion *(I: p.200)*
Chair:

17:15 – 18:00

01 **Ludomir Newelski,** University of Wrocław, Wrocław and Polish Academy of Sciences, Poland **H 1012**
Meager forking and m-independence *(I: p.33)*
Chair: Alex James Wilkie

02 **Jeremy C. Rickard,** University of Bristol, Bristol, England **MA 005**
The abelian defect group conjecture *(I: p.45)*
Chair: Dieter Happel

11 **Horng-Tzer Yau,** Courant Institute, New York University, New York, USA **H 1028**
Scaling Limit of Particle Systems, Incompressible Navier-Stokes Equation, and Boltzmann Equation *(I: p.138)*
Chair: Ruedi Seiler

13 **Joseph Adolphe François Thas,** University of Gent, Gent, Belgium **H 2032**
Finite Geometries, Varieties and Codes *(I: p.161)*
Chair: Theo Grundhöfer

16 **Rolf Rannacher,** Universität Heidelberg, Heidelberg, Germany **MA 001**
Mathematics in Numerical Flow Simulation *(I: p.192)*
Chair: Rolf Jeltsch