

		Monday July 10	Tuesday July 11	Wednesday July 12	Thursday July 13	Friday July 14		
08.00		Reception of Participants						
09.00			Invited Lectures (5)	Invited Lectures (5)	Invited Lectures (5)	Plenary Lecture	09.00	
10.00							10.00	
		Coffee Break	Invited Lectures (5)	Invited Lectures (5)	Invited Lectures (4)	Plenary Lecture		
11.00			Coffee Break	Coffee Break	Coffee Break		11.00	
		Opening Ceremony and Prize Award	Mini Symposia (10)	Mini Symposia (10)	Mini Symposia (10)	Coffee Break		
12.00						Plenary Lecture	12.00	
13.00		Opening Reception and Lunch						13.00
14.00			Poster and Video Exhibitions	Poster and Video Exhibitions	Poster and Video Exhibitions			14.00
15.00								15.00
		Plenary Lecture	Prize Winner Lectures (3)	Plenary Lecture	Prize Winner Lectures (3)	Plenary Lecture		
16.00		Coffee Break	Prize Winner Lectures (3)		Prize Winner Lectures (2)		16.00	
		Plenary Lecture	Coffee Break	Plenary Lecture	Coffee Break	Round Table		
17.00			Round Tables and Mathematical Software (3)		Round Tables and Mathematical Software (3)		17.00	
		Plenary Lecture						
18.00							18.00	
19.00				Congress Dinner (20.00)		Closing	19.00	

Sunday, July 9

14.00–20.00	Reception of Participants	Hall
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Monday, July 10

08.00–11.00	Reception of Participants	Hall
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10.30–11.00	Coffee Break	Hall
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11.00–13.00	Opening Ceremony and Prize Award	Room 7
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13.00–15.00	Opening Reception and Lunch	Galeria
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15.00–16.00	Plenary Lecture	
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Andrew J. Wiles , Princeton Univ. <i>Galois representations and automorphic forms</i>	Room 7
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16.00–16.15	Coffee Break	Hall
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16.15–17.15	Plenary Lecture	
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Robbert Dijkgraaf , Univ. Amsterdam <i>The mathematics of M-theory</i>	Room 7
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17.30–18.30	Plenary Lecture	
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Carles Simó , Univ. Barcelona <i>New families of solutions in N-body problems</i>	Room 7
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Tuesday, July 11

09.00–09.50 Invited Lectures (5 parallel sessions)

Viviane Baladi , CNRS, Univ. Paris-Sud XI <i>Spectrum and statistical properties of chaotic dynamics</i>	Room 5
Volker Bach , Univ. Mainz <i>Mathematical theory of matter and radiation</i>	Room D
Eric M. Opdam , Univ. Leiden <i>Recent developments in the theory of hypergeometric functions</i>	Room 4
Steffen L. Lauritzen , Aalborg Univ. <i>Probabilistic networks and the mathematics of local computation</i>	Room 3
Alexander B. Givental , Univ. California at Berkeley and Caltech <i>Some aspects of symplectic field theory</i>	Room 6

10.10–11.00 Invited Lectures (5 parallel sessions)

Klaus Schmidt , Univ. Wien <i>Algebraic $\mathbf{Z}^d$-actions</i>	Room 5
Bálint Tóth , Budapesti Műszaki Egyetem <i>Self-interacting random motions</i>	Room D
Jan Denef , Katholieke Univ. Leuven <i>Geometry of arc spaces of algebraic varieties</i>	Room 4
Rudolf Ahlswede , Univ. Bielefeld <i>Advances in extremal problems in number theory and combinatorics</i>	Room 3
Alexander Grigor'yan , Imperial College, London <i>Heat kernels on manifolds, graphs and fractals</i>	Room 6

11.00–11.30	Coffee Break	Hall
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11.30–13.00 Mini-Symposia

	COMPUTER ALGEBRA Chair: Wolfram Decker , Univ. Saarlandes	Room 3
11.30–12.15	Erich Kaltofen , North Carolina State Univ. <i>Computer algebra in the new century: looking where our discipline is heading</i>	
12.15–13.00	Hendrik W. Lenstra, Jr. , Univ. California at Berkeley and Univ. Leiden <i>Solving the Pell equation</i>	
	CURVES OVER FINITE FIELDS AND CODES Chair: Gerard van der Geer , Univ. Amsterdam	Room 8
11.30–12.20	Gerard van der Geer , Univ. Amsterdam <i>Codes and curves over finite fields</i>	
12.20–13.00	Chaoping Xing , National Univ. Singapore <i>Some applications of curves over finite fields</i>	

Tuesday, July 11

11.30–13.00 Mini-Symposia (continued)

FREE BOUNDARY PROBLEMS

Room C

Chair: **José Francisco Rodrigues**, Univ. Lisboa

11.30–12.00 Giovanni Belletini, Univ. degli Studi di Roma, Tor Vergata
Facet-breaking in motion by crystalline mean curvature in 3D

12.00–12.30 Klaus Deckelnick, Sussex Univ.
A phase-field model for diffusion-induced grain-boundary motion

12.30–13.00 Irina V. Denisova, Russian Academy of Sciences
Evolution of a closed interface between two liquids of different type

MATHEMATICAL FINANCE: THEORY AND PRACTICE

Room 6

Chair: **Hélyette Geman**, Univ. Paris IX and ESSEC

Talks to be announced

MATHEMATICS IN MODERN GENETICS

Room 11

Chair: **Peter Donnelly**, Oxford Univ.

11.30–11.40 Peter Donnelly, Oxford Univ.
Introduction

11.40–12.20 Peter Donnelly, Oxford Univ.
*Stochastic modelling in evolution I:
Random genealogical trees and the coalescent*

12.20–13.00 Alison Etheridge, Oxford Univ.
Stochastic modelling in evolution II: Measured-valued diffusion processes

QUANTUM CHAOS

Room 4

Chair: **Sir Michael Berry**, Univ. Bristol

11.30–12.00 Sir Michael Berry, Univ. Bristol
Spectral twinkling

12.00–12.30 Eugene Bogomolny, CNRS, Univ. Orsay
Trace formulas and spectral statistics of diffractive systems

12.30–13.00 Monique Combescure, Univ. Paris-Sud XI
Towards an exact semiclassical linear response theory

QUANTUM COMPUTING

Room 5

Chair: **Sandu Popescu**, Isaac Newton Institute, Cambridge

11.30–12.15 Richard Cleve, Univ. Calgary
Quantum information and communication complexity

12.15–13.00 Rolf Tarrach, Univ. Barcelona
Entanglement of three qubit states

Tuesday, July 11

11.30–13.00 Mini-Symposia (continued)

STRING THEORY AND *M*-THEORY

Room B

Chair: **Michael R. Douglas**, Rutgers Univ.

11.30–12.00 **Chris M. Hull**, Queen Mary and Westfield College, London
String theory, duality and geometry

12.00–12.30 **Jaume Gomis**, Caltech, Pasadena
D-branes in nongeometric phases of string theory

12.30–13.00 **Nikita Nekrasov**, Inst. Theoretical and Experimental Physics, Moscow
On some mathematical aspects of M-theory

SYMPLECTIC AND CONTACT GEOMETRY AND HAMILTONIAN DYNAMICS

Room D

Chair: **Mikhail B. Sevryuk**, Russian Academy of Sciences

11.30–12.30 **Dietmar Salamon**, ETH Zürich
Floer homology, 3-manifolds and the moment map

12.30–13.00 **Alberto Ibort**, Univ. Carlos III, Madrid
*Almost complex geometry and some recent results
on the topology of contact and symplectic manifolds*

WAVELET APPLICATIONS IN SIGNAL PROCESSING

Room 12

Chair: **Andrew T. Walden**, Imperial College, London

11.30–12.15 **Andrew T. Walden**, Imperial College, London
Wavelet analysis of discrete time series

12.15–13.00 **Vasily Strela**, Drexel Univ.
Denoising via block Wiener filtering in wavelet domain

13.30–14.30 Video Exhibitions

Room 5

Multicoloured Fractals (4' 00")

Quadro - A Compact Soap Bubble of genus 4 (1' 12")

Geodesics and Waves (4' 55")

From "Platonic Solids" (2' 34")

Knot Energies (3' 20")

Interpolation of Triangle Hierarchies (7' 14")

The Optiverse (6' 43")

Polytope Sections (2' 00")

Surfaces, Flows & Holonomy (18' 00")

Tuesday, July 11

14.00–15.00	Poster Exhibition	Hall
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15.00–15.45 Lectures by Prize Winners

Lecture by EMS prize winner	Room 6
Lecture by EMS prize winner	Room 5
Lecture by EMS prize winner	Room 4

16.00–16.45 Lectures by Prize Winners

Lecture by EMS prize winner	Room 6
Lecture by Felix Klein prize winner	Room 5
Lecture by Ferran Sunyer i Balaguer prize winner	Room 4

16.45–17.00	Coffee Break	Hall
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17.00–19.00 Round Tables (3 parallel sessions)

	MATHEMATICS TEACHING AT THE TERTIARY LEVEL	Room 6
Moderator:	Vladimir Tikhomirov , Moscow State Univ.	
Panelists:	Deborah Hughes-Hallet , Univ. Arizona John Mason , Open Univ. Robert Mattheij , Technical Univ. Eindhoven	

	THE IMPACT OF MATHEMATICAL RESEARCH ON INDUSTRY AND VICEVERSA	Room 4
Moderator:	Irene Fonseca , Carnegie Mellon Univ., Pittsburgh	
Panelists:	Mark Davis , Tokyo-Mitsubishi Intl. London Martin Grötschel , Konrad-Zuse-Zentrum, Berlin	

	HOW TO INCREASE PUBLIC AWARENESS OF MATHEMATICS	Room 5
Moderator:	Felipe Mellizo , Radio Nacional de España	
Panelists:	Jean-Michel Kantor , Univ. Paris VII, Denis Diderot Carlo Sbordone , Dpt. Renato Cacciopoli, Napoli Jorge Wagensberg , Museu de la Ciència and Univ. Barcelona	

Tuesday, July 11

17.00–19.00 Sessions on Mathematical Software (3 parallel sessions)

17.00–17.30	Anna Maria Bigatti and Lorenzo Robbiano , Univ. Genova CoCoA	Room 11
	Hartmut Häfner , Univ. Karlsruhe LINSOL	Room 12
	Mario Essert , Univ. Zagreb Internet Learning Math	Room 8
17.45–18.15	Jordi Guàrdia and Jesús Montes , Univ. Barcelona Newton	Room 11
	Torsten Adolph , Univ. Karlsruhe FDEM	Room 12
	Bob Mathews , California State Univ., Long Beach Math Type	Room 8
18.30–19.00	Gerd-Martin Greuel , Univ. Kaiserslautern Singular	Room 11
	Alexander Makarenko , Institute of Mathematics, Kiev Mathematical software for analyzing complex societal problems	Room 12
	Inmaculada Fortes , Univ. Málaga Grammarkov	Room 8

Wednesday, July 12

09.00–09.50 Invited Lectures (5 parallel sessions)

Konstantin M. Khanin , Heriot-Watt Univ., Isaac Newton Institute, and Landau Institute, Moscow <i>Burgers turbulence and dynamical systems</i>	Room 5
Ciro Ciliberto , Univ. degli Studi di Roma, Tor Vergata <i>Geometric aspects of polynomial interpolation in more variables and of Waring's problem</i>	Room 4
Joaquim Bruna , Univ. Autònoma de Barcelona <i>Sampling in complex and harmonic analysis</i>	Room 3
Zoé Chatzidakis , CNRS-Univ. Paris VII, Denis Diderot <i>Difference fields: model theory and application to number theory</i>	Room 6
Peter J. Cameron , Queen Mary and Westfield College, London <i>The random graph and its relations</i>	Room D

10.10–11.00 Invited Lectures (5 parallel sessions)

Henrik Schlichtkrull , Kobenhavns Univ. <i>Harmonic analysis on reductive symmetric spaces</i>	Room 5
Thomas Peternell , Univ. Bayreuth <i>Contact manifolds in algebraic geometry</i>	Room 4
Pekka Koskela , Jyväskylän Yliopisto <i>Sobolev spaces and quasiconformal mappings on metric spaces</i>	Room 3
Kurt Johansson , Kungl Tekniska Högskolan, Stockholm <i>Random growth and random matrices</i>	Room 6
Bernhard Schmidt , Univ. Augsburg <i>Sums of roots of unity and finite geometry</i>	Room D

11.00–11.30 Coffee Break	Hall
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11.30–13.00 Mini-Symposia

COMPUTER ALGEBRA Chair: Wolfram Decker , Univ. Saarlandes	Room 3
11.30–12.15 Gaston Gonnet , ETH Zürich <i>A study of iteration formulas for root finding: where mathematics, computer algebra and software engineering meet</i>	
12.15–13.00 Manuel Bronstein , INRIA, Sophia Antipolis <i>Computer algebra and differential and difference equations</i>	

Wednesday, July 12

11.30–13.00 Mini-Symposia (continued)

CURVES OVER FINITE FIELDS AND CODES Room 8
Chair: **Gerard van der Geer**, Univ. Amsterdam

11.30–12.20 **Henning Stichtenoth**, Univ. Essen
*Explicit constructions of towers of function fields
with many rational places*

12.20–13.00 **Noam Elkies**, Harvard Univ.
Explicit towers of Drinfeld modular curves

FREE BOUNDARY PROBLEMS Room C
Chair: **José Francisco Rodrigues**, Univ. Lisboa

11.30–12.00 **Harald Garcke**, Univ. Bonn
Phase boundary in alloys with elastic misfit

12.00–12.30 **Josephus Hulshof**, Univ. Leiden
Some aspects of the thin film equation

12.30–13.00 **Régis Monneau**, CERMICS and Éc. Nat. Ponts et Chaussées, Marne-la-Vallée
Some regularity results for the obstacle problem

MATHEMATICAL FINANCE: THEORY AND PRACTICE Room 6
Chair: **Hélyette Geman**, Univ. Paris IX and ESSEC
Talks to be announced

MATHEMATICS IN MODERN GENETICS Room 11
Chair: **Peter Donnelly**, Oxford Univ.

11.30–12.15 **Augustine Kong**, Decode Genetics, Reykjavik
Measuring relative information and gene hunting

12.15–13.00 **Warren Ewens**, Univ. Pennsylvania
Mathematics and the genome projects

QUANTUM CHAOS Room 4
Chair: **Sir Michael Berry**, Univ. Bristol

11.30–12.00 **Christopher Howls**, Southampton Univ.
Geometrical properties of spectral function expansions

12.00–12.30 **Jonathan Keating**, Univ. Bristol
Random matrix theory and the Riemann zeta function

12.30–13.00 **Jens Marklof**, Univ. Bristol
The Berry-Tabor conjecture

QUANTUM COMPUTING Room 5
Chair: **Sandu Popescu**, Isaac Newton Institute, Cambridge

11.30–12.15 **Charles H. Bennett**, IBM, Yorktown Heights
To be announced

12.15–13.00 **Umesh Vazirani**, Univ. California at Berkeley
Quantum algorithms and quantum complexity

Wednesday, July 12

11.30–13.00 Mini-Symposia (continued)

STRING THEORY AND M -THEORY

Room B

Chair: **Michael R. Douglas**, Rutgers Univ.

11.30–12.00 **José M. F. Labastida**, Univ. Santiago

Knot invariants and Chern-Simons theory

12.00–12.30 **Marcos Mariño**, Rutgers Univ.

Topological quantum field theory

12.30–13.00 **Duiliu-Emanuel Diaconescu**, Institute for Advanced Study, Princeton

K-theory from M-theory

SYMPLECTIC AND CONTACT GEOMETRY AND HAMILTONIAN DYNAMICS

Room D

Chair: **Mikhail B. Sevryuk**, Russian Academy of Sciences

11.30–12.00 **Paul Biran**, Tel Aviv Univ.

Symplectic embeddings, algebraic geometry and Lagrangian submanifolds

12.00–12.30 **Hansjörg Geiges**, Univ. Leiden

Contact topology in dimension greater than three

12.30–13.00 **Yuri V. Chekanov**, Moscow Center for Continuous Mathematical Education

New invariants of Legendrian knots

WAVELET APPLICATIONS IN SIGNAL PROCESSING

Room 12

Chair: **Andrew T. Walden**, Imperial College, London

11.30–12.15 **Emma McCoy**, Imperial College, London

Wavelet-based modelling of persistent periodicities

12.15–13.00 **Peter F. Craigmile**, Univ. Washington

Wavelet based estimation

of trend contaminated fractionally differenced processes

13.30–14.30 Video Exhibitions

Room 5

The Optiverse (6' 43")

Distorted Space (1' 58")

From "Platonic Solids" (2' 34")

CMC - Pictures of Constant Mean Curvature Tori (5' 24")

Numerical Simulations of Unstable Detonations (3' 58")

On Gorgonne's Problem (0' 42")

From "Soap Bubbles" (2' 34")

Polytope Sections (2' 00")

The Dynamics of the Rabbit (24' 00")

14.00–15.00 Poster Exhibition

Hall

Wednesday, July 12

15.00–16.00 Plenary Lecture

Marie-France Vignéras , Univ. Paris VII, Denis Diderot <i>Local Langlands correspondence for $GL(n, \mathbb{Q}_p)$ modulo $\ell \neq p$</i>	Room 7
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16.00–16.30 Coffee Break	Hall
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16.30–17.30 Plenary Lecture

Hendrik W. Lenstra, Jr. , Univ. California at Berkeley and Univ. Leiden <i>Flags and lattice basis reduction</i>	Room 7
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20.00	Congress Dinner	Pedralbes
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Thursday, July 13

09.00–09.50 Invited Lectures (5 parallel sessions)

Nicholas S. Manton , Univ. Cambridge <i>Understanding skyrmions using rational maps</i>	Room 6
Michael Harris , Univ. Paris VII, Denis Diderot <i>Local Langlands correspondence and vanishing cycles on Shimura varieties</i>	Room 5
Xavier Cabré , Univ. Politècnica de Catalunya <i>A conjecture of De Giorgi on symmetry for elliptic equations in $\mathbb{R}^n$</i>	Room 3
Ieke Moerdijk , Univ. Utrecht <i>Models for the leaf space of a foliation</i>	Room 4
Barbara Fantechi , Univ. degli Studi di Udine <i>Stacks for everybody</i>	Room D

10.10–11.00 Invited Lectures (4 parallel sessions)

Gianni Dal Maso , Sc. Intle. Supre. di Studi Avanzati, Trieste <i>The calibration method for free discontinuity problems</i>	Room 6
Alexander Goncharov , Brown Univ., Providence <i>Multiple ζ-values, Galois groups and geometry of modular varieties</i>	Room 5
François Baccelli , INRIA, École Normale Supérieure, Paris <i>Flow control in stochastic networks</i>	Room 3
Alexander Reznikov , Univ. Durham <i>Analytic Topology</i>	Room 4

11.00–11.30 Coffee Break	Hall
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11.30–13.00 Mini-Symposia

	COMPUTER ALGEBRA Chair: Wolfram Decker , Univ. Saarlandes	Room 3
11.30–12.15	Tomás Recio , Univ. Cantabria <i>A personal experience on industrial applications of computer algebra: climbing up a mountain, going down a hill</i>	
12.15–13.00	Gert-Martin Greuel , Univ. Kaiserslautern <i>Computer algebra and algebraic geometry</i>	
	CURVES OVER FINITE FIELDS AND CODES Chair: Gerard van der Geer , Univ. Amsterdam	Room 8
11.30–12.20	Arnaldo Garcia , IMPA, Rio de Janeiro <i>Curves over finite fields attaining the Hasse-Weil upper bound</i>	
12.20–13.00	Andrew Kresch , Univ. Pennsylvania <i>Some new families of curves of every genus</i>	
12.20–13.00	Christian Maire , Univ. Bordeaux I <i>On l-extensions of global fields</i>	

Thursday, July 13

11.30–13.00 Mini-Symposia (continued)

FREE BOUNDARY PROBLEMS

Room C

Chair: **José Francisco Rodrigues**, Univ. Lisboa

11.30–12.00 **Henrik Shahgholian**, KTH Stockholm

The impact of monotonicity formulas in regularity of free boundaries

12.00–12.30 **José Miguel Urbano**, Univ. Coimbra

A free boundary problem: contributions from modern analysis

12.30–13.00 **Gonzalo Galiano**, Univ. Oviedo

Applications of an energy method to some systems of PDE's involving free boundaries

MATHEMATICAL FINANCE: THEORY AND PRACTICE

Room 6

Chair: **Hélyette Geman**, Univ. Paris IX and ESSEC

Talks to be announced

MATHEMATICS IN MODERN GENETICS

Room 11

Chair: **Peter Donnelly**, Oxford Univ.

11.30–12.15 **Peter Donnelly**, Oxford Univ.

Statistical inference in evolution I

12.15–13.00 **David J. Balding**, Univ. Reading

Statistical inference in evolution II: inferring genealogies from DNA data

QUANTUM CHAOS

Room 4

Chair: **Sir Michael Berry**, Univ. Bristol

11.30–12.00 **Zeev Rudnick**, Tel Aviv Univ.

On quantum unique ergodicity for linear maps of the torus

12.00–12.30 **André Voros**, CENS, Saclay

Chaotic eigen functions using stellar representation

QUANTUM COMPUTING

Room 5

Chair: **Sandu Popescu**, Isaac Newton Institute, Cambridge

11.30–12.15 **Nicolas Gisin**, Univ. Genève

Bound entanglement and bound intrinsic information

12.15–13.00 **Sandu Popescu**, Isaac Newton Institute, Cambridge

Quantum non-locality and information

Thursday, July 13

11.30–13.00 Mini-Symposia (continued)

STRING THEORY AND M -THEORY

Room B

Chair: **Michael R. Douglas**, Rutgers Univ.

11.30–12.00 Albrecht Klemm, Humboldt Univ., Berlin

Mirror symmetry, topological strings and D2-branes

12.00–12.30 Angel M. Uranga, CERN, Genève

From quiver diagrams to particle physics

12.30–13.00 Christoph Schweigert, Univ. Paris VI

D-brane conformal field theory and bundles of conformal blocks

SYMPLECTIC AND CONTACT GEOMETRY AND HAMILTONIAN DYNAMICS

Room D

Chair: **Mikhail B. Sevryuk**, Russian Academy of Sciences

11.30–12.00 Vladimir M. Zakalyukin, Moscow Aviation Institute

Simple coisotropic casuistics

12.00–12.30 Viktor L. Ginzburg, Univ. California at Santa Cruz

The hamiltonian Seifert conjecture: examples and open problems

12.30–13.00 Àngel Jorba, Univ. Barcelona

The fine geometry of the Cantor families of invariant tori in hamiltonian systems

WAVELET APPLICATIONS IN SIGNAL PROCESSING

Chair: **Andrew T. Walden**, Imperial College, London

11.30–12.15 Patrick Flandrin, École Normale Supérieure de Lyon

Reassigned scalograms and singularities

Room 12

12.15–13.00 Richard G. Baraniuk, Rice Univ.

Computer network traffic modeling using wavelets and multifractals

13.30–14.30 Video Exhibitions

Room 5

Distorted Space (1' 58")

Geodesics and Waves (4' 55")

On Gorgonne's Problem (0' 42")

Numerical Simulations of Unstable Detonations (3' 58")

Distorted Space (1' 58")

Multicoloured Fractals (4' 00")

CMC - Pictures of Constant Mean Curvature Tori (5' 24")

Quadro - A Compact Soap Bubble of Genus 4 (1' 12")

Knot Energies (3' 20")

From "Soap Bubbles" (2' 34")

Interpolation of Triangle Hierarchies (7' 14 ")

Surfaces, Flows & Holonomy (18' 00")

Thursday, July 13

14.00–15.00 **Poster Exhibition** **Hall**

15.00–15.45 **Lectures by Prize Winners**

Lecture by EMS prize winner	Room 6
Lecture by EMS prize winner	Room 5
Lecture by EMS prize winner	Room 4

16.00–16.45 **Lectures by Prize Winners**

Lecture by EMS prize winner	Room 6
Lecture by EMS prize winner	Room 5

16.45–17.00 **Coffee Break** **Hall**

17.00–19.00 **Round Tables (3 parallel sessions)**

	WHAT IS MATHEMATICS TODAY?	
Moderator:	Zbigniew Semadeni , Univ. Warszawski	Room 5
Panelists:	Pilar Bayer , Univ. Barcelona Jaime Carvalho de Silva , Univ. Coimbra Henri Lombardi , Univ. Franche Comté, Besançon	
	BUILDING NETWORKS OF COOPERATION IN MATHEMATICS	Room 6
Moderator:	Friedrich Hirzebruch , Max-Planck-Institut für Mathematik, Bonn	
Panelists:	Eva Bayer , CNRS et Univ. Franche-Comté, Besançon Bodil Branner , Tech. Univ. Denmark Anatoly Vershik , St. Petersburg Univ. and Russian Acad. Sci. St. Petersburg	
	THE IMPACT OF NEW TECHNOLOGIES ON MATHEMATICAL RESEARCH	
Moderator:	Rafael de la Llave , Univ. Austin	Room 4
Panelists:	Bruno Buchberger , RISC, Hagenberg Sergei Matveev , Chelyabinsk State Univ. Mika Seppala , Florida State Univ.	

Thursday, July 13

17.00–19.00 Sessions on Mathematical Software (3 parallel sessions)

17.00–17.30	Peter Dräxler , Univ. Bielefeld and Rainer Nörenberg , Univ. Essen CREP	Room 11
	Arkadii Kim , Univ. Ekaterinburg Time-delay system toolbox	Room 12
17.45–18.15	Francis Sergeraert , Univ. Grenoble Kenzo	Room 11
	Konrad Polthier , Tech. Univ. Berlin Java View	Room 12
18.30–19.00	Lancelot Pecquet , Univ. Rocquencourt Magma	Room 11
	Ewgenij Gawrilow , Tech. Univ. Berlin Polymake	Room 12

Friday, July 14

09.00–10.00 Plenary Lecture

Yves Meyer, École Normale Supérieure de Cachan
The role of oscillations in non-linear problems

Room 7

10.30–11.30 Plenary Lecture

Hans Föllmer, Humboldt Univ., Berlin
Probabilistic aspects of financial risk

Room 7

11.30–12.00 Coffee Break

Hall

12.00–13.00 Plenary Lecture

Oleg Viro, Uppsala Univ. and POMI St. Petersburg
Dequantization of real algebraic geometry on a logarithmic paper

Room 7

15.00–16.00 Plenary Lecture

Yuri I. Manin, Max-Planck-Institut für Mathematik, Bonn
Moduli, motives, mirrors

Room 7

16.00–16.30 Coffee Break

Hall

16.30–18.30 Round Table

SHAPING THE 21ST CENTURY
Moderator: **Miguel de Guzmán**, Univ. Complutense, Madrid
Panelists: **Alexandra Bellow**, Northwestern Univ., Evanston
Misha Gromov, IHES
Helmut Neunzert, Univ. Kaiserslautern

Room 7

18.30–19.00 Closing Ceremony

Room 7
