



The 10th AIMS Conference on Dynamical Systems Differential Equations and Applications

July 7 – July 11, 2014
Madrid, Spain

PROGRAM

Organizers:

The American Institute of Mathematical Sciences
The Instituto de Ciencias Matemáticas (ICMAT)
The Universidad Autónoma de Madrid (UAM)
The University of North Carolina Wilmington

Sponsors:

Consejo Superior de Investigaciones Científicas
Sociedad Española de Matemática Aplicada
Real Academia de Ciencias Exactas, Físicas y Naturales
Universidad Carlos III de Madrid
Universidad Complutense de Madrid
Universidad Politécnica de Madrid
Universidad Rey Juan Carlos
Universidad Autónoma de Madrid (UAM)
Ministerio de Economía y Competitividad (MINECO)
Fundación Española de Ciencia y Tecnología (FECYT)
U.S. National Science Foundation (NSF)

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Conference Coordinator

Xin Lu

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Welcome to the 10th AIMS Conference

As we celebrate the commencement of the Tenth AIMS Conference on Dynamical Systems, Differential Equations and Applications, it is my great pleasure to welcome you to this gathering.

Mathematical research has become an increasingly more interactive collaboration through a process of globalization, and AIMS was created to foster and enhance these interactions among a broad spectrum of mathematicians and scientists. The AIMS Conference Series is an integral part of the AIMS activities, providing a primary forum and platform for engendering and developing such collaborations.

This is the tenth AIMS Conference and the third in Europe. The first AIMS Conference was attended by 250 people. Now the tenth is ten-fold in size. With more than 2,500 scientists and mathematicians representing all the continents, the AIMS Conference not only generates a sense of pride but also renders a seal of approval.

The Madrid meeting features over 100 symposia with a broad and diverse spectrum of topics, organized by research leaders in the fields, and the Invited Keynote Lectures given by some world-renown mathematicians. I hope that you will enjoy the outstanding program and take advantage of the opportunity to renew old acquaintances and make new friends during the conference. Knowing that you are the whole purpose of all AIMS activities, I would like to express my appreciation for your continuous participation and support.

It is a great pleasure to acknowledge the support from the Instituto de Ciencias Matemáticas (ICMAT), the Universidad Autónoma de Madrid (UAM), the United States National Science Foundation, and the University of North Carolina at Wilmington.

I would like to thank the members of the Organizing Committee headed by Professor Manuel de León. Their great effort and hard work make the conference possible. I would also like to thank Dr. Xin Lu, whose leadership has been indispensable.

I hope you all have a great time at Madrid.

Sincerely,

Shouchuan Hu
Director of AIMS

Welcome to the 10th AIMS Conference

From July 7th to July 11th the 10th AIMS (American Institute of Mathematical Sciences) Conference on Dynamical Systems, Differential Equations and Applications will be held in Madrid on the Cantoblanco campus of the Universidad Autónoma de Madrid. This conference has grown in importance since it was first held, and over the years the number of participants has also grown until reaching a spectacular attendance of almost 2,000 participants on this occasion in Madrid.

The success in bringing this conference to Madrid is due to the effort of the ICMAT, together with that of all the universities in the city (Universidad Autónoma de Madrid, Universidad Complutense de Madrid, Universidad Politécnica de Madrid, Universidad Carlos III de Madrid, Universidad Rey Juan Carlos) and the Real Academia de Ciencias Exactas, Físicas y Naturales (Spanish Royal Academy of Sciences). The Spanish Society of Applied Mathematics (Sociedad Espaola de Matemática Aplicada - SEMA) is also collaborating in the event. The AIMS Conference series has always been well-attended by Spanish mathematicians; in particular, ICMAT researchers have participated assiduously and on several occasions have organized special sessions. I would also like to thank the members of the program committee: Drs. Yaw Chang, Wei Feng, Michael Freeze, and Xin Lu, for their efforts in dealing with the scheduling and abstract editing, the student paper contest, and NSF grant. I especially owe my gratitude to Xin, whose leadership has been indispensable.

This years conference is especially significant for the ICMAT because it is fully involved not only scientifically but also in the organization. ICMAT researcher Diego Córdoba will be a plenary speaker, while other ICMAT researchers will coordinate four special sessions.

The conference has outstripped all previous records for participation, virtually doubling the attendance of either the two previous conferences held in Dresden (2010) or Orlando (2012). It has thereby become the second most highly attended mathematical event held in Spain after the 2006 International Congress of Mathematicians (ICM), which was also hosted by the city of Madrid. We would like to think that the attractiveness of our city and our country has also played a part in this success, as well as the growing international profile of the ICMAT. It goes without saying that the conference has its own tradition that makes it an attraction in its own right, and its format (plenary speakers of the highest caliber with considerably broad scope for the organization of special sessions) is very appropriate for an event of this nature.

But those are not the only reasons why this conference is so important. It also brings together a large number of researchers whose work is focused on the application of mathematics in many industrial and technological fields as well as in other sciences. It therefore provides an excellent opportunity to boost knowledge transfer even further. In this regard, in October 2013 the ICMAT set up its own Transfer Office with the aim of giving extra momentum to the transfer of mathematical knowledge generated at the Institute. We know that this initiative is a medium and long-term undertaking, but the activities set in motion since the creation of the Office are proving to be highly promising, and the ICMAT has already entered into contact with various companies as well as participating in several Horizon 2020 programs.

Generally speaking, this conference is an event that provides a great opportunity for expanding Spanish mathematics in new directions. On behalf of the Organizing Committee, I would like to thank all the institutions who have helped to make it

possible as well as the AIMS for its trust and confidence in the Institute, and especially all the participants (plenary speakers, organizers of special sessions, and speakers in general) for wishing to share this week in July together with us. This conference will undoubtedly help to strengthen the extraordinary development that Spanish mathematics has undergone over the last 25 years.

Sincerely,

Manuel de León
Director of ICMAT

Guidelines for the Proceedings of the 10th AIMS Conference at Madrid

The proceedings of the 10th AIMS Conference at Madrid will be published in 2015 both in print and online in AIMS Proceedings, <http://aimsciences.org/conferences/proceeding.html> .

All submissions must be original research and will go through a rigorous refereeing process. Summary/Survey articles will not be considered.

Final form of accepted papers must conform to the proceedings' template (AIMS journals template), which is available at http://aimsciences.org/journals/Tex_prep.htm .

- Editors for the proceedings will be Drs. Manuel de León, Wei Feng, Xin Lu, J.M. Martell, Javier Parcet, Daniel Peralta-Salas and Weihua Ruan.
- Submissions start on July 15, 2014 and end on September 15, 2014. Please submit your paper through OES (Online Editorial System) at <http://www.aimsciences.org/oes/index.jsp>. You need to register as an author first if you have not done so and choose AIMS Proceedings in the list of AIMS journals.
- Each registered participant may submit only one paper for consideration.
- Page limit for each paper is 10 pages in its final form and additional pages will be charged at \$100 per page.

Questions and correspondence should be e-mailed to Dr. Xin Lu at lux@uncw.edu or written to

Dr. Xin Lu

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University of North Carolina Wilmington
Wilmington, NC 28403, U.S.A.

Conference at a Glance

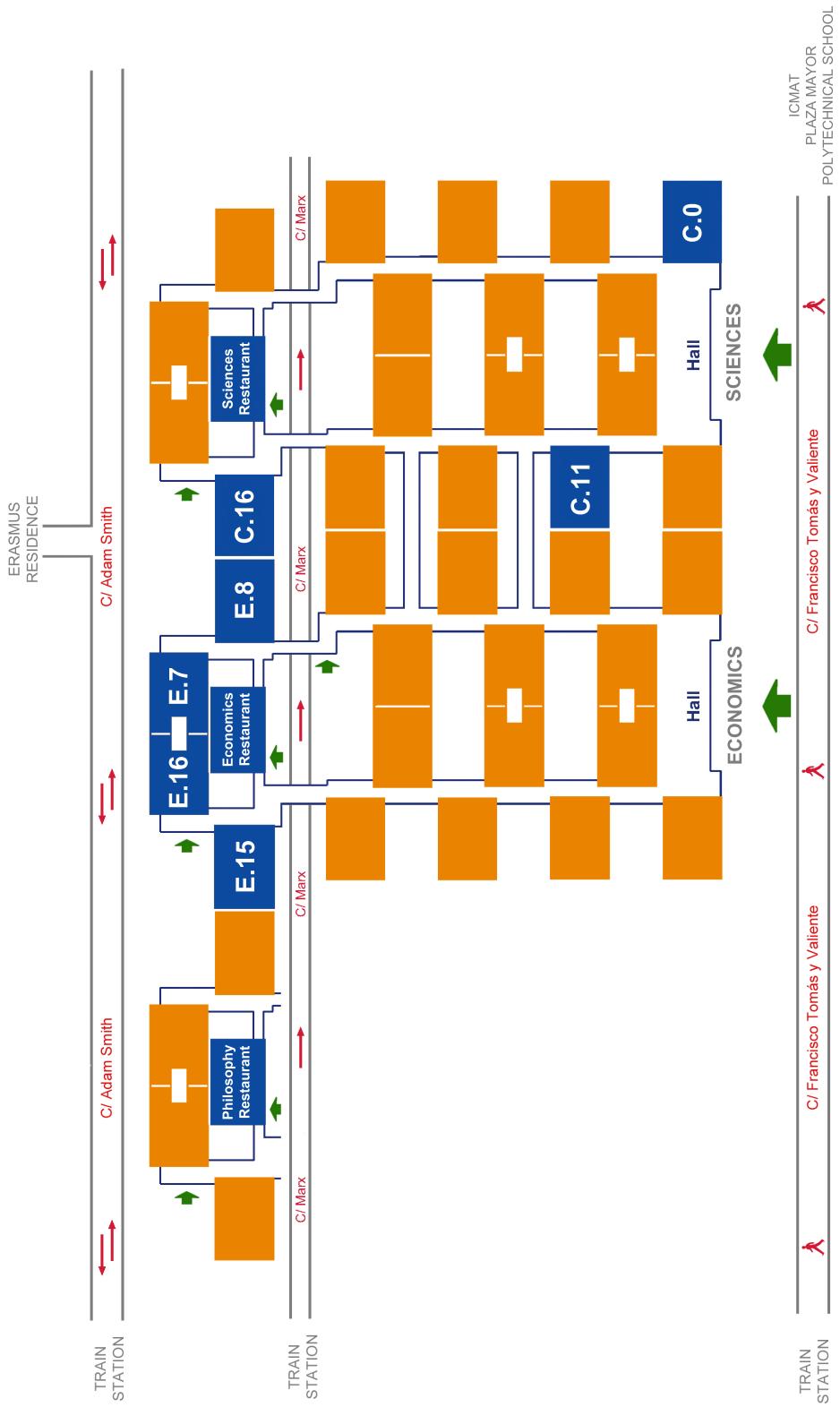
July 7, Monday	July 8, Tuesday	July 9, Wednesday	July 10, Thursday	July 11, Friday
9:00 – 9:30 Opening				9:00 – 10:00 Keynote Speakers Dr. Anantharaman
9:30 – 10:30 Keynote Speaker Dr. Fefferman	9:00 – 10:00 Keynote Speaker Dr. Villani	9:00 – 10:00 Keynote Speakers Dr. Ma	9:00 – 10:00 Keynote Speakers Dr. Simo	Dr. Maini 10:00 – 11:00 Dr. Cordoba
				Dr. Fiedler
10:30 – 11:00 Coffee Break	10:00 – 10:30 Coffee Break	10:00 – 10:30 Coffee Break	10:00 – 10:30 Coffee Break	11:00 – 11:30 Coffee Break
11:00 – 13:00 Keynote Speakers Dr. Daubechies Dr. E	10:30 – 12:30 Parallel Session 2 (PS02)	10:30 – 12:30 Parallel Session 5 (PS05)	10:30 – 12:30 Parallel Session 8 (PS08)	11:30 – 12:30 Parallel Session 11 (PS11)
13:00 – 16:00 Back to UAM and Lunch	12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break	12:30 – 14:00 Lunch Break
16:00 – 19:30 Parallel Session 1 (PS01)	14:00 – 16:30 Parallel Session 3 (PS03)	14:00 – 16:00 Parallel Session 6 (PS06)	14:00 – 16:30 Parallel Session 9 (PS09)	14:00 – 16:30 Parallel Session 12 (PS12)
	16:30 – 17:00 Coffee Break	16:00 – 16:30 Coffee Break	16:30 – 17:00 Coffee Break	16:30 – 17:00 Coffee Break
	17:00 – 19:30 Parallel Session 4 (PS04)	16:30 – 18:30 Parallel Session 7 (PS07)	17:00 – 19:30 Parallel Session 10 (PS10)	17:00 – 19:30 Parallel Session 13 (PS13)
			20:30 – 23:00 Banquet (optional)	

Master Schedule

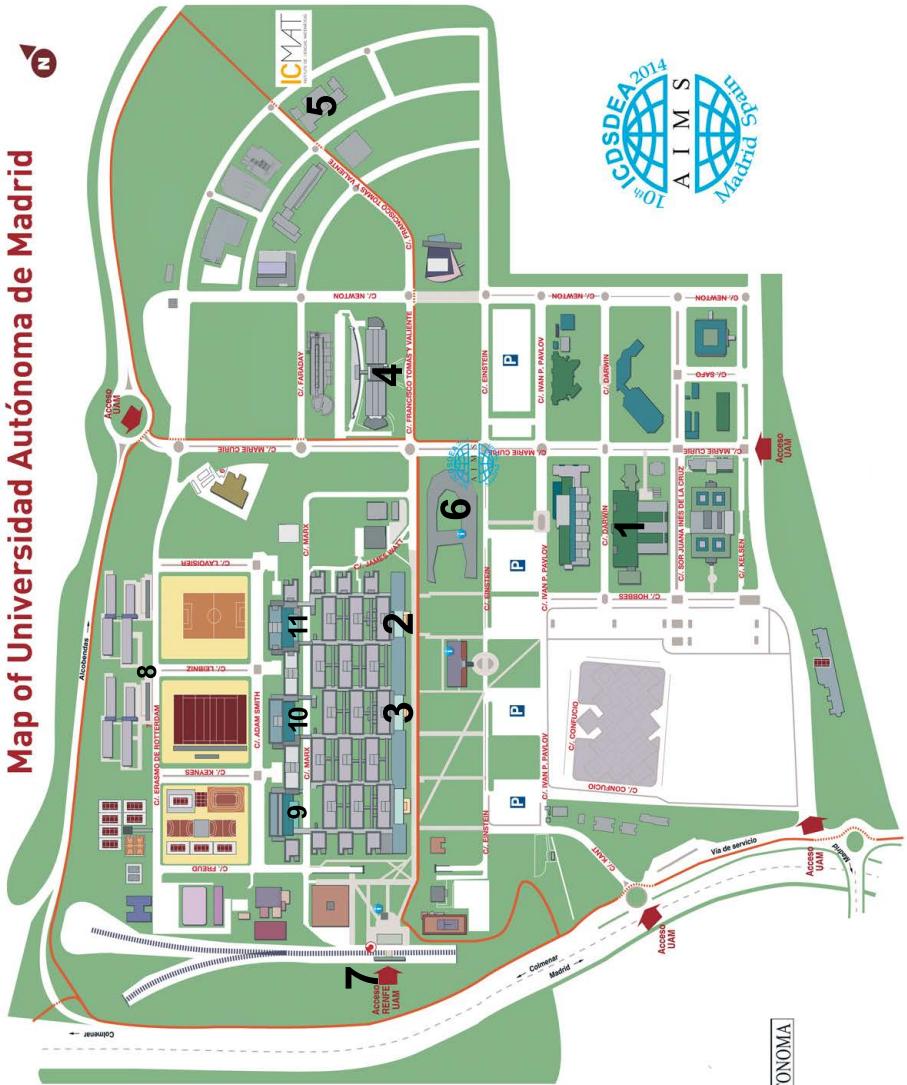
	Monday	Tuesday	Wednesday	Thursday	Friday
	16:00-19:30	10:30-12:30	10:30-12:30	10:30-12:30	10:30-12:30
PS01	PS02	PS03	PS04	PS05	PS06
EPS4	SS19	SS19	SS19	SS19	SS26
EPS5	SS18	SS18	SS18	SS18	SS26
EPS7	SS08	SS08	SS08	SS08	SS70
EPS8	SS21	SS21	SS21	SS21	SS21
EPS9	SS78	SS78	SS78	SS78	SS115
EPS10	SS02	SS02	SS02	SS02	SS115
C0-204	SS79	SS81	SS81	SS68	SS115
C0-205	SS22	SS22	SS22	SS68	SS115
C0-206	SS29	SS29	SS29	SS68	SS115
C0-207	SS90	SS46	SS46	SS68	SS115
C0-209	SS16	SS16	SS16	SS68	SS115
C0-301	SS37	SS37	SS37	SS68	SS115
C0-302	SS13	SS13	SS13	SS68	SS115
C0-307	SS34	SS34	SS34	SS68	SS115
C0-312	SS30	SS30	SS30	SS68	SS115
C11-101-1	SS66	SS66	SS66	SS66	SS115
C11-101-2	SS65	SS65	SS65	SS65	SS115
C11-101-3	SS04	SS04	SS04	SS04	SS115
C11-101-4	SS69	SS69	SS69	SS69	SS115
C11-201-1	SS118	SS118	SS118	SS118	SS115
C11-201-2	SS73	SS73	SS73	SS73	SS115
C11-201-3	SS97	SS97	SS97	SS97	SS115
C11-201-4	SS50	SS50	SS50	SS50	SS115
C11-201-5	SS72	SS72	SS72	SS72	SS115
C11-501-1	SS33	SS33	SS33	SS33	SS115

Master Schedule

Monday	Tuesday			Wednesday			Thursday			Friday	
	10:30-	14:00-	17:00-	10:30-	14:00-	16:30-	10:30-	14:00-	17:00-	11:30-	14:00-
16:00- 19:30	10:30- 12:30	14:00- 16:30	17:00- 19:30	10:30- 12:30	14:00- 16:00	16:30- 18:30	10:30- 12:30	14:00- 16:30	17:00- 19:30	11:30- 12:30	14:00- 16:30
PS01	PS02	PS03	PS04	PS05	PS06	PS07	PS08	PS09	PS10	PS11	PS12
C16-101-1 SS48	C16-101-2 SS71	C16-101-3 SS87	C16-101-4 CS5	C16-101-5 SS120	SS48	SS48	SS51	SS51	SS75	SS75	PS13
C16-101-6 SS85	E7-101 SS62	E7-102 SS109	E7-103 CS1	E7-104 SS96	E7-105 SS31	SS87	SS87	SS10	SS10	SS10	
E7-106 SS110	E7-107 SS111	E7-108 SS112	E7-109 CS1	E7-110 SS96	E7-111 SS31	SS122	SS122	SS54	SS47	SS47	SS47
E7-112 SS109	E7-113 SS113	E7-114 SS114	E7-115 CS1	E7-116 SS96	E7-117 SS31	SS120	SS20	SS20	SS114	SS39	SS39
E7-118 SS109	E7-119 SS109	E7-120 SS109	E7-121 CS1	E7-122 SS96	E7-123 SS31	SS109	SS99	SS99	SS99	SS39	SS39
E7-124 SS110	E7-125 SS113	E7-126 SS113	E7-127 CS1	E7-128 SS96	E7-129 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1210 SS110	E7-1211 SS113	E7-1212 SS113	E7-1213 CS1	E7-1214 SS96	E7-1215 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1216 SS110	E7-1217 SS113	E7-1218 SS113	E7-1219 CS1	E7-1220 SS96	E7-1221 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1222 SS110	E7-1223 SS113	E7-1224 SS113	E7-1225 CS1	E7-1226 SS96	E7-1227 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1228 SS110	E7-1229 SS113	E7-1230 SS113	E7-1231 CS1	E7-1232 SS96	E7-1233 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1234 SS110	E7-1235 SS113	E7-1236 SS113	E7-1237 CS1	E7-1238 SS96	E7-1239 SS31	SS110	SS108	SS108	SS114	SS39	SS39
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E7-1444 SS110	E7-1445 SS113	E7-1446 SS113	E7-1447 CS1	E7-1448 SS96	E7-1449 SS31	SS110	SS108	SS108	SS114	SS39	SS39
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E7-1466 SS110	E7-1467 SS113	E7-1468 SS113	E7-1469 CS1	E7-1470 SS96	E7-1471 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1472 SS110	E7-1473 SS113	E7-1474 SS113	E7-1475 CS1	E7-1476 SS96	E7-1477 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1478 SS110	E7-1479 SS113	E7-1480 SS113	E7-1481 CS1	E7-1482 SS96	E7-1483 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1484 SS110	E7-1485 SS113	E7-1486 SS113	E7-1487 CS1	E7-1488 SS96	E7-1489 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1480 SS110	E7-1481 SS113	E7-1482 SS113	E7-1483 CS1	E7-1484 SS96	E7-1485 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1486 SS110	E7-1487 SS113	E7-1488 SS113	E7-1489 CS1	E7-1490 SS96	E7-1491 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1492 SS110	E7-1493 SS113	E7-1494 SS113	E7-1495 CS1	E7-1496 SS96	E7-1497 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1498 SS110	E7-1499 SS113	E7-1500 SS113	E7-1501 CS1	E7-1502 SS96	E7-1503 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1504 SS110	E7-1505 SS113	E7-1506 SS113	E7-1507 CS1	E7-1508 SS96	E7-1509 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1500 SS110	E7-1501 SS113	E7-1502 SS113	E7-1503 CS1	E7-1504 SS96	E7-1505 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1506 SS110	E7-1507 SS113	E7-1508 SS113	E7-1509 CS1	E7-1510 SS96	E7-1511 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1512 SS110	E7-1513 SS113	E7-1514 SS113	E7-1515 CS1	E7-1516 SS96	E7-1517 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1518 SS110	E7-1519 SS113	E7-1520 SS113	E7-1521 CS1	E7-1522 SS96	E7-1523 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1524 SS110	E7-1525 SS113	E7-1526 SS113	E7-1527 CS1	E7-1528 SS96	E7-1529 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1520 SS110	E7-1521 SS113	E7-1522 SS113	E7-1523 CS1	E7-1524 SS96	E7-1525 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1526 SS110	E7-1527 SS113	E7-1528 SS113	E7-1529 CS1	E7-1530 SS96	E7-1531 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1532 SS110	E7-1533 SS113	E7-1534 SS113	E7-1535 CS1	E7-1536 SS96	E7-1537 SS31	SS110	SS108	SS108	SS114	SS39	SS39
E7-1538 SS110	E7-1539 SS113	E7-1540 SS113	E7-1541								



Map of Universidad Autónoma de Madrid



1. Biology Faculty
 2. Sciences Faculty (CX-XXX)
 3. Economics Faculty (EX-XXX)
 4. Polytechnical School (EPSX)
 5. ICMAT
 6. Registration Building / Plaza Mayor
 7. Train Station
 8. Erasmo Residence
 9. Sciences Restaurant
 10. Economics Restaurant
 11. Philosophy Restaurant

Campus de Cantoblanco
Ctra. Colmenar Viejo, km. 15 - 28049 MADRID



**exceLencia UAM+
CSIC**

Meeting Rooms for Sessions

Special Sessions

SS 01	Mathematical Aspects of Fluid Dynamics	ROJA
SS 02	Nonlinear Evolution PDEs and Interfaces in Applied Sciences	EPS10
SS 03	Mathematical Models in the Systems Biology of Cancer	C11-101-3
SS 04	Delay Equations Applied to Population Dynamics	C11-101-3
SS 05	Differential Delay Equations	C16-101-5
SS 06	Random Dynamical Systems in the Life Sciences	C11-101-1
SS 07	Topological and Combinatorial Dynamics	E16-104
SS 08	Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations from Mathematical Science	EPS7
SS 09	Dissipative Systems and Applications	C11-201-1
SS 10	Nonlinear Elliptic Partial Differential Equations and Systems	C16-101-3
SS 11	Dynamics of Fluids and Nonlinear Waves	E7-101
SS 12	Complexity in Reaction-Diffusion Systems	E16-104
SS 13	Nonlocally Coupled Dynamical Systems: Analysis and Applications	C0-302
SS 14	Reaction Diffusion Equations and Applications	C0-307
SS 15	Geometric and Variational Techniques in the N-Body Problem	C11-201-2
SS 16	Optimal Control and its Applications	C0-209
SS 17	Direct and Inverse Problems in Abstract Spaces and Applications	E7-201
SS 18	Nonlinear Elliptic and Parabolic Problems	EPS5
SS 19	Nonautonomous Dynamics	EPS4
SS 20	Dynamics with Fractional and Time Scale Derivatives	C16-101-6
SS 21	Variational, Topological, and Set-Valued Methods for Differential Problems	EPS8
SS 22	Modeling and Dynamic Analysis of Complex Patterns in Biological Systems and Data	C0-205
SS 23	Recent Progress in the Mathematical Theory of Compressible Fluid Flows	E7-102
SS 24	Qualitative Analysis of Reaction Diffusion Systems	E7-202
SS 25	Dynamics of Chaotic and Complex Systems and Applications	C0-209
SS 26	Dynamical Systems and Spectral Theory	EPS4
SS 27	Mathematical Problems in Economics, Materials and Life Science: Analysis and Simulation of Nonlinear Multiscale Dynamics	E16-102
SS 28	Functional Analytic Techniques for Evolutionary Equations Arising in the Natural Sciences	C11-101-3
SS 29	Stochastic and Deterministic Dynamical Systems and Applications	C0-206
SS 30	Discrete Dynamics and Applications	C0-312
SS 31	Variational Energy and Entropy Approaches in Non-Smooth Thermomechanics	E7-105
SS 32	Applied Analysis and Dynamics in Engineering and Sciences	E15-104, E15-103
SS 33	Bifurcations and Asymptotic Analysis of Solutions of Nonlinear Models	C11-501-1
SS 34	Variational Methods for Discrete and Continuous Boundary Value Problems (with Applications)	C0-307
SS 35	Direct and Inverse Problems in Wave Propagation	C0-205
SS 36	Analytical Aspects of the Dynamics of Nonlinear Schrodinger Equations	C11-501-1
SS 37	Global or/and Blowup Solutions for Nonlinear Evolution Equations and Their Applications	C0-301
SS 38	Recent Trends in Nonlinear Schrodinger Systems	C11-201-4
SS 39	Interfaces in Fluid Mechanics	C16-101-6
SS 40	Qualitative Aspects of Nonlinear Elliptic and Parabolic Problems	C0-312

SS 41	Topological and Variational Methods for Multivalued Differential Equations	E15-103
SS 43	Harmonic Analysis Tools for Fluid Mechanics	C0-312
SS 44	Quasilinear Elliptic and Parabolic Problems and Their Applications	E16-101
SS 45	Hybrid Imaging Methods	C11-201-5
SS 46	Qualitative Theory of Differential Equations and Applications	C0-207
SS 47	Mathematical Modelling and Numerical Methods for Phase-Field Problems	C16-101-4
SS 48	Sparse Optimization and Optimal Control in Dynamical Systems and PDEs	C16-101-1
SS 49	Advances in the Numerical Solution of Nonlinear Evolution Equations	C11-101-3
SS 50	Evolution Equations and Inclusions With Applications to Control, Mathematical Modeling and Mechanics	C11-201-4
SS 51	Variational Analysis and Applications to Equilibrium Problems	C16-101-1
SS 52	Nonlinear Evolution Equations	C11-201-3
SS 53	Infinite Dimensional Stochastic Systems and Applications	C16-101-2
SS 54	Nonlocal Fractional Problems and Related Topics	C16-101-4
SS 55	Microlocal Analysis and the Inverse Conductivity Problem	C11-201-3
SS 56	IsoDifferential Calculus, IsoDynamical Systems and Their Applications	E7-202
SS 57	Inverse Problems in PDE and Geometry	GRIS1
SS 58	Dynamics in Systems With Interfaces	E16-104
SS 59	Central Configurations, Periodic Solutions, Variational Method and Beyond in Celestial Mechanics	E7-101, E7-104
SS 60	Recent Advances in Evolutionary Equations	C0-302
SS 61	Enhanced Sampling Techniques in Simulation of Complex Systems	C16-101-5
SS 62	Mathematical Models of Cell Migration, Tumor Growth and Cancer Dynamics	E7-101
SS 63	Advanced High Order Geometric Numerical Integration Methods for Differential Equations	E7-203
SS 64	Traveling Waves and Patterns	E16-103
SS 65	Kinetic Equations: Theory and Applications	C11-101-2
SS 66	Deterministic and Stochastic Models in Biology and Medicine	C11-101-1
SS 67	Topological Methods for the Qualitative Analysis of Differential Equations and Inclusions	E7-104
SS 68	Entropy-Like Quantities and Applications	C0-204
SS 69	Lie Symmetries, Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations	C11-101-4
SS 70	Nonlinear Phenomena: Theory and Applications	EPS7
SS 71	Recent Progress in Spintronics: Experiment, Theory and Simulation	C16-101-2
SS 72	Kinetic Models - Analysis, Computation, and Applications	C11-201-5
SS 73	Entropy and Statistical Properties for Smooth Dynamics	C11-201-2
SS 74	Collective Behaviour in Biological and Social Aggregations	C11-101-2
SS 75	Differential and Difference Equations on Graphs and Their Applications	C16-101-1
SS 76	Viscosity, Nonlinearity and Maximum Principle	E15-103
SS 77	Theoretical, Technical, and Experimental Challenges in Closed-Loop Approaches in Biology	E7-203
SS 78	the Navier-Stokes Equations and Related Problems	EPS9
SS 79	Modeling and Computation in Cell Biology, Stem Cells and Development	C0-204
SS 80	Theory, Numerical Methods, and Applications of Stochastic Systems and SDEs/SPDEs	E16-102

SS 81	Improving Climate and Weather Prediction Through Data-Driven Statistical Modeling	C0-204
SS 82	Celestial Mechanics	E7-203
SS 83	Fluid Flows in Unbounded Domains	E15-104
SS 84	Dynamics and Games	EPS10
SS 85	Transport Processes in Biology: Modelling and Analysis	C16-101-6
SS 86	Nonlinear Evolution Equations and Related Topics	C11-101-4
SS 87	Evolution Equations and Integrable Systems	C16-101-3
SS 88	Stochastic Processes and Spectral Theory for Partial Differential Equations and Boundary Value Problems	C0-206
SS 89	Applications of Topological and Variational Methods to Boundary Value Problems	C0-301
SS 90	Analysis of Hyperbolic PDEs	C0-207
SS 91	Variational Methods for Evolution Equations	E16-102
SS 92	Analysis and Computation of Nonlinear Systems of the Mixed Type	E15-102
SS 93	Partial Differential Equations Arising From Biology and Physics	E7-105
SS 94	Homogenization Based Numerical Methods	E7-105
SS 95	Modeling the Spread and Control of Infectious Diseases	E16-103
SS 96	Geometric Variational Problems With Associated Stability Estimates	E7-104
SS 97	Analysis and Control of Nonlinear Partial Differential Equation Evolution Systems	C11-201-3
SS 98	Boundary-Value Problems for Linear and Nonlinear Integrable Problems	C11-201-2
SS 99	Asymptotic Expansion for Nonoscillatory Solutions of Differential and Difference Equations	E7-102
SS 100	Analysis of Free Boundary Problems	C11-201-1
SS 101	Nonlinear Waves in Materials With Microstructure	E16-101
SS 102	Kinetic Models for Multi-Agent Systems Modeling Socio-Economic Behavior	C11-201-4
SS 103	Periodic Solutions for Dynamical Systems	E15-104
SS 104	Instabilities and Bifurcations in Geophysical Fluid Dynamics	GRIS1
SS 105	Geometric Mechanics	NARANJA
SS 107	Spatial and Temporal Heterogeneity in Reaction-Diffusion-Advection Models and Applications to Biology	E16-106
SS 108	Mathematics of Nonlinear Acoustics	E7-201
SS 109	Stochastic Partial Differential Equations	E7-102
SS 110	Nonlinear Schrodinger Equations and Its Applications	E7-201
SS 111	Computational Dynamics in Hamiltonian and Dissipative Systems	E16-106
SS 112	Nonlinear Dynamics in Neuroscience	E16-103
SS 113	Normal Forms and Molecules in Motion Through Phase Space Bottlenecks	E16-101
SS 114	Nonstandard Analysis, Quantizations and Singular Perturbations	C16-101-6
SS 115	Mathematical Models of Chemotaxis	EPS5
SS 116	Interacting Population on Social, Economic and Ecological Networks	E15-102
SS 117	Rigorous and Numerical Methods for Invariant Manifolds	C11-101-2
SS 118	Transport Barriers in Unsteady Fluid Flows	C11-201-1
SS 119	Dynamical Systems and Optimal Control	ROJA
SS 120	Linear and Nonlinear Fourth Order PDE's	C16-101-5

SS 121	Numerical Techniques for the Description of Charged Particles Transport	E16-106
SS 122	Dynamics of Networks in Biology and Chemistry	C16-101-4
SS 123	Fractals	E7-202
SS 124	Renormalization and Universality in Low-Dimensional Dynamics: From Computer Experiment to Proof. Dedicated to the Memory of Oscar Lanford III	C0-204
SS 125	Abstract Differential Equations and Related Topics	E16-106
SS 127	Functional Inequalities and Variational Problems	C0-207
SS 128	How Do Complex Networks Improve Our Knowledge of Biology?	E15-102
SS 129	Qualitative and Quantitative Techniques for Differential Equations Arising in Economics, Finance and Natural Sciences	EPS9

Contributed Sessions

Contributed Sessions		
CS 1	ODEs and Applications	E7-103
CS 2	Modeling, Math Biology and Math Finance	E7-103
CS 3	Control and Optimization	C11-101-1
CS 5	Fixed Points and Topological Method	C16-101-4
CS 6	PDEs and Applications	E16-105
CS 7	Bifurcation and Chaotic Dynamics	C11-501-1

Poster Session



Mayor

Student Paper Competition Session



Meeting Room Building Locations

Building	Rooms
Sciences Faculty	C0-204, C0-205, C0-206, C0-207, C0-209, C0-301, C0-302, C0-307, C0-312, C11-101-1, C11-101-2, C11-101-3, C11-101-4, C11-201-1, C11-201-2, C11-201-3, C11-201-4, C11-201-5, C11-501-1, C16-101-1, C16-101-2, C16-101-3, C16-101-5, C16-101-6
Economics Faculty	E7-101, E7-102, E7-103, E7-104, E7-105, E7-201, E7-202, E7-203, E16-101, E16-102, E16-103, E16-104, E16-105, E16-106
Polytechnical School	EPS4, EPS5, EPS7, EPS8, EPS9, EPS10
ICMAT	NARANJA, ROJA, GRIS1

Invited Keynote Lectures

Monday, July 7

Location: Palacio Municipal de Congresos de Madrid

9:30-10:30	Charles L. Fefferman (Princeton University, USA) Formation of Singularities in Fluid Interfaces Chair: Antonio Córdoba	Abstracts p. 3
11:00-12:00	Ingrid Daubechies (Duke University, USA) Applied Mathematics Helping Art Historians and Conservators: Digital Cradle Removal Chair: Jerry Bona	Abstracts p. 2
12:00-13:00	Weinan E (Princeton University, USA) Mathematical Theory of Solids: from Quantum Mechanics to Continuum Models Chair: Jerry Bona	Abstracts p. 2

Tuesday, July 8

9:00-10:00 Polytechnical Auditorium	Cédric Villani (Institut Henri Poincaré, France) Synthetic Theory of Ricci Curvature, when Monge Meets Riemann Chair: Jesús Sanz Serna	Abstracts p. 6
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Wednesday, July 9

9:00-10:00 Polytechnical Auditorium	Zhi-Ming Ma (Chinese Academy of Sciences, China) Lampability of Continuous States Markov Jump Processes Chair: Manuel de León	Abstracts p. 4
9:00-10:00 Biology Auditorium	Amie Wilkinson (University of Chicago, USA) Robust Mechanisms for Chaotic Dynamics Chair: Amadeu Delshams	Abstracts p. 6

Thursday, July 10

9:00-10:00 Biology Auditorium	Sylvia Serfaty (Université Pierre et Marie Curie Paris 6, France) Questions of Crystallization in Coulomb Systems Chair: Charles Fefferman	Abstracts p. 5
9:00-10:00 Polytechnical Auditorium	Carles Simó (Universitat de Barcelona, Spain) Measuring the Total Amount of Chaos in some Hamiltonian Systems Chair: Darryl Holm	Abstracts p. 5

Invited Keynote Lectures

Friday, July 11

9:00-10:00 Polytechnical Auditorium	Nalini Anantharaman (Université Paris-Sud, France) Dispersion and Controllability for Linear Schrödinger Equations on Compact Riemannian Manifolds Chair: M. Paz Calvo	Abstracts p. 1
9:00-10:00 Biology Auditorium	Philip K. Maini (University of Oxford, England) Modelling Collective Cell Movement in Biology Chair: Hiroshi Matano	Abstracts p. 4
10:00-11:00 Polytechnical Auditorium	Diego Córdoba (Consejo Superior de Investigaciones Científicas, Spain) Analysis of the Muskat Problem Chair: M. Paz Calvo	Abstracts p. 1
10:00-11:00 Biology Auditorium	Bernold Fiedler (Freie Universität Berlin, Germany) Reaction, Diffusion, and Advection in One Space Dimension – an Invitation Chair: Hiroshi Matano	Abstracts p. 3

Parallel Session 1

Monday, July 7

16:00 – 19:30

Special Session 2	Nonlinear Evolution PDEs and Interfaces in Applied Sciences Organizer(s): Gunduz Caginalp, Maurizio Grasselli, Alain Miranville	Location EPS10
16:00-16:30	Gianni Gilardi (University of Pavia, Italy) On the Cahn-Hilliard Equation with Dynamic Boundary Conditions and a Dominating Boundary Potential	Abstracts p. 12
16:30-17:00	Helmut Abels (University of Regensburg, Germany) Cahn-Hilliard Equation with Nonlocal Singular Free Energies	Abstracts p. 10
17:00-17:30	Pierluigi Colli (University of Pavia, Italy) On a Variation of the Cahn-Hilliard Approach	Abstracts p. 11
17:30-18:00	Laurence Cherfils (La Rochelle University, France) On a Generalized Cahn-Hilliard Equation with Biological Applications	Abstracts p. 10
18:00-18:30	Madalina Petcu (University of Poitiers, France) A Numerical Analysis of the Cahn-Hilliard Equation with Non-permeable Walls	Abstracts p. 14
18:30-19:00	Antonio A. Segatti (University of Pavia, Italy) From Fractional Cahn Hilliard to Fractional Porous Medium	Abstracts p. 15
19:00-19:30	Francesco di Plinio (Università di Roma “Tor Vergata”, Italy) Grisvard’s Shift Theorem Near L^∞ and Yudovich Theory in Domains with Corners	Abstracts p. 11

Special Session 4	Delay Equations Applied to Population Dynamics Organizer(s): Philipp Getto, Gergely Rost, Julia Sanchez	Location C11-101-3
16:00-16:30	Horst R. Thieme (Arizona State University, USA) Delay Differential Systems for Tick Population Dynamics	Abstracts p. 23
16:30-17:00	Teresa Faria (University of Lisbon, Portugal) Asymptotic Behaviour for a Nicholson System with Multiple Delays	Abstracts p. 20
17:00-17:30	Fabien Crauste (University Lyon 1, France) Stability and Hopf Bifurcation for a State-Dependent Delay Differential Equation Describing Hematopoietic Stem Cell Dynamics	Abstracts p. 20
17:30-18:00	Zhisheng Shuai (University of Central Florida, USA) Dynamics of a Cholera Model with Hyperinfectivity and Temporary Immunity	Abstracts p. 23
18:00-18:30	Monika J. Piotrowska (University of Warsaw, Poland) Analysis of the Family of Angiogenesis Models with Distributed Time Delays	Abstracts p. 22
18:30-19:00	Urszula Forys (University of Warsaw, Poland) A Model of Humoural Mediated Immune Response with Delays	Abstracts p. 21
Special Session 8	Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations from Mathematical Science Organizer(s): Danielle Hilhorst, Yoshihisa Morita	Location EPS7
16:00-16:30	Anna Marciniak-Czochra (University of Heidelberg, Germany) Dynamical Spike Patterns in Reaction-diffusion-ode Models with Turing Instability	Abstracts p. 37
16:30-17:00	Hirofumi Izuhara (University of Miyazaki, Japan) Spatio-temporal Patterns in a Chemotaxis-growth System	Abstracts p. 37
17:00-17:30	Narcisa C. Apreutesei (“Gheorghe Asachi” Technical University, Romania) Reaction-diffusion Equations from Biology with Integral Terms	Abstracts p. 36
17:30-18:00	Romain Veltz (INRIA Sophia Antipolis, France) On the Effects of the Piwheel Network Symmetries on Orientation Tuning.	Abstracts p. 40
18:00-18:30	Toshiyuki Ogawa (Meiji University, Japan) Bifurcation Analysis of Periodic Traveling Wave Solutions to an Excitable RD System	Abstracts p. 38

Special Session 12	Complexity in Reaction-diffusion Systems Organizer(s): Chiun-Chuan Chen, Hirokazu Ninomiya, Masaharu Taniguchi, Toshiyuki Ogawa	Location E16-104
16:00-16:30	Chiun-Chuan C. Chen (National Taiwan University, Taiwan) Traveling Wave Solutions of a Free Boundary Problem for a Two-species Competition Model	Abstracts p. 55
16:30-17:00	Masaharu Taniguchi (Okayama University, Japan) Convex Compact Sets in \mathbb{R}^{N-1} Give Traveling Fronts in \mathbb{R}^N in Cooperative Diffusion Systems	Abstracts p. 57
17:00-17:30	Matthieu Alfaro (Univ. Montpellier 2, France) Traveling Waves for Nonlocal Reaction Diffusion Equations (without Comparison)	Abstracts p. 55
17:30-18:00	Ming Mei (Champlain College & McGill University, Canada) Stability of Traveling Waves for Time-delayed Reaction-diffusion Equations: (I) Non-critical Oscillating Waves	Abstracts p. 56
18:00-18:30	Yoshihito Oshita (Okayama University, Japan) Concentration on Compact Manifolds for Some Nonlinear Elliptic Equations	Abstracts p. 56
18:30-19:00	Eiji Yanagida (Tokyo Institute of Technology, Japan) Accessibility of Singular Homoclinic Orbits for a Semilinear Parabolic Equation	Abstracts p. 57

Special Session 13	Nonlocally Coupled Dynamical Systems: Analysis and Applications Organizer(s): Yuri Maistrenko, Georgi Medvedev	Location C0-302
16:00-16:30	Edgar Knobloch (University of California at Berkeley, USA) Multi-cluster and Traveling Chimera States in Nonlocal Phase-coupled Oscillators	Abstracts p. 60
16:30-17:00	Oleh Omel'chenko (Weierstrass Institute, Germany) Bifurcation Analysis of Chimera States	Abstracts p. 61
17:00-17:30	Azamat Yeldesbay (University of Potsdam, Germany) Chimera-like States in an Ensemble of Globally Coupled Oscillators	Abstracts p. 63
17:30-18:00	Simona Olmi (Istituto Dei Sistemi Complessi, Italy) Synchronization Transitions in the Kuramoto Model with Inertia	Abstracts p. 61
18:00-18:30	Patrycja Kuzma (Lodz University of Technology, Poland) Chimera States of Coupled Pendula	Abstracts p. 60
18:30-19:00	Ram Ramaswamy (University of Hyderabad, India) Chimeras with Multiple Coherent Regions	Abstracts p. 61
19:00-19:30	Chris Bick (Rice University, USA) Controlling Chimeras	Abstracts p. 58

Special Session 16	Optimal Control and Its Applications Organizer(s): Alexander J. Zaslavski	Location C0-209
16:00-16:30	Christine Burggraf (Leibniz IAMO, Germany) Optimal Control of Individual's Health Investments	Abstracts p. 71
16:30-17:00	Joel Blot (SAMM University Paris 1, France) Infinite-dimensional Discrete-time Pontryagin Principles	Abstracts p. 71
17:00-17:30	Naila Hayek (Paris 2 University, France) Infinite-horizon Optimal Control Problems for Bounded Processes	Abstracts p. 73
17:30-18:00	Ilya Shvartsman (Penn State Harrisburg, USA) Method of Finite-Dimensional Approximations in Optimal Control	Abstracts p. 75
18:00-18:30	Delfim F. M. Torres (University of Aveiro, Portugal) Application of Optimal Control to the Reduction of Co-Infected Tuberculosis-HIV/AIDS Individuals	Abstracts p. 75
18:30-19:00	Vladimir M. Veliov (Vienna University of Technology, Austria) On the Optimal Control on Infinite Horizon	Abstracts p. 76
19:00-19:30	Alexander Zaslavski (The Technion - Israel Institute of Technology, Israel) Stability of the Turnpike Phenomenon	Abstracts p. 76

Special Session 18	Nonlinear Elliptic and Parabolic Problems Organizer(s): J. Lopez-Gomez	Location EPS5
16:00-16:30	Andrea Tellini (Universidad Complutense de Madrid, Spain) The Effect of Two Roads with Fast Diffusion on Fisher-KPP Propagation	Abstracts p. 83
16:30-17:00	Kazuhiro Takimoto (Hiroshima University, Japan) Bernstein Type Theorem for Some Fully Nonlinear PDEs	Abstracts p. 82
17:00-17:30	Alberto Boscaggin (University of Milano-Bicocca, Italy) Boundary Value Problems for Second Order ODEs with Indefinite Weight	Abstracts p. 79
17:30-18:00	Tetsuya Yamada (Fukui National College of Technology, Japan) Optimal Decay Rates for Convection Diffusion Equations in the Whole Space	Abstracts p. 83
18:00-18:30	Duccio Papini (Università di Siena, Italy) Coupling Population and Price Dynamics	Abstracts p. 81
18:30-19:00	Mabel M. Cuesta (Université Du Littoral Cote D'Opale ULCO, France) Qualitative Results for Parabolic p -Laplacian Equations under Dynamical Boundary Conditions	Abstracts p. 79
19:00-19:30	Pablo Alvarez Caudeville (University Carlos III of Madrid, Spain) Existence and Multiplicity Results of Fourth-Order Semilinear Parabolic Equations of Cahn–Hilliard Type.	Abstracts p. 79

Special Session 19	Nonautonomous Dynamics Organizer(s): Russell Johnson, Sylvia Novo, Rafael Obaya	Location EPS4
16:00-16:30	Carmen Nunez (Universidad de Valladolid, Spain) Linear-quadratic Dissipative Control Systems	Abstracts p. 88
16:30-17:00	Fritz Colonius (University of Augsburg, Germany) Growth Rates for Persistently Excited Systems	Abstracts p. 85
17:00-17:30	Fabian Wirth (IBM Research Ireland, Ireland) Stabilizability of Linear Time-varying Systems	Abstracts p. 90
17:30-18:00	Erik S. Van Vleck (University of Kansas, USA) Invariant Manifolds and Decoupling for Nonautonomous Systems	Abstracts p. 89
18:00-18:30	Cinzia Elia (University of Bari, Italy) Periodic Orbits for Planar Piecewise Smooth Dynamical Systems	Abstracts p. 86
18:30-19:00	Gabriel Fuhrmann (TU Dresden, Germany) Non-Smooth Saddle-Node Bifurcations of Quasi-Periodically Forced Interval Maps	Abstracts p. 87

Special Session 21	Variational, Topological, and Set-valued Methods for Differential Problems Organizer(s): Gabriele Bonanno, Siegfried Carl, Salvatore A. Marano, Dumitru Motreanu	Location EPS8
16:00-16:30	Fabio Zanolin (University of Udine, Italy) A Fixed Point Theorem on Topological Cylinders, with Applications	Abstracts p. 101
16:30-17:00	Siegfried S. Carl (University Halle, Germany) Multi-valued Variational Inequalities Versus Variational-hemivariational Inequalities	Abstracts p. 95
17:00-17:30	Addolorata Salvatore (University of Bari, Italy) Multiplicity Results for Some Perturbed Elliptic Problems in Unbounded Domains	Abstracts p. 99
17:30-18:00	Akhtar Khan (Rochester Institute of Technology, USA) Existence Results and Inverse Problems for Evolutionary Quasi Variational Inequalities	Abstracts p. 97
18:00-18:30	Gabriele Bonanno (Messina University, Italy) A Local Minimum Theorem and Applications	Abstracts p. 94
18:30-19:00	Patrick Winkert (Technische Universitaet Berlin, Germany) Resonant $(p, 2)$ -equations with Concave Terms	Abstracts p. 100
19:00-19:30	Roberto Livrea (Reggio Calabria University, Italy) Nodal and Multiple Solutions for a Dirichlet Problem Involving the p -Laplacian	Abstracts p. 97

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16:30-17:00	Gemma Huguet (Universitat Politecnica de Catalunya, Spain) Noise and Adaptation in Multistable Perception: a Case Study with Tristable Visual Plaids	Abstracts p. 103
17:00-17:30	Yixin Guo (Drexel University, USA) Traveling Pulses in a Neural Network with Asymmetric Coupling and Non-saturating Gain	Abstracts p. 103
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18:00-18:30	Zachary P. Kilpatrick (University of Houston, USA) Networks That Learn to Precisely Encode the Timing of Sequences	Abstracts p. 104
18:30-19:00	Jiaoyan Wang (Tianjin University of Technology and Education, Peoples Rep of China) Decreased Firing Time of Given Spikes by Alteration of Input Strategies in Leaky Integrate-and-fire Model	Abstracts p. 105

Special Session 29	Stochastic and Deterministic Dynamical Systems and Applications Organizer(s): Tomas Caraballo, Maria J. Garrido-Atienza, Jose Valero, Yuncheng You	Location C0-206
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16:30-17:00	Chunyou Sun (Lanzhou University, Peoples Rep of China) Asymptotic Behavior of a Semilinear Heat Equation on Time-varying Domains	Abstracts p. 132
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17:30-18:00	Radoslaw Czaja (Instituto Superior Tecnico, Lisbon, Portugal) Pullback Exponential Attractors with Applications to Reaction-diffusion Equations	Abstracts p. 130
18:00-18:30	Michele Coti Zelati (Indiana University, USA) Minimality Properties of Set-valued Autonomous and Non-autonomous Dynamical Systems	Abstracts p. 129
18:30-19:00	Rafael Obaya (University of Valladolid, Spain) Exponential Ordering for Nonautonomous Neutral Functional Differential Equations with Applications	Abstracts p. 132
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16:30-17:00	Victor Jimenez Lopez (Universidad de Murcia, Spain) Stability, Negative Schwarzian Derivative, and Control of Chaos	Abstracts p. 136
17:00-17:30	Abel Garab (University of Szeged, Hungary) Global Stability of Some Second Order Difference Equations	Abstracts p. 135
17:30-18:00	Ziyad Al-Sharawi (Sultan Qaboos University, Oman) Global Attractivity in Difference Equations of the Form $x_{N+1} = x_N f(x_{N-1}) \pm H$	Abstracts p. 134

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17:00-17:30	Chiara Zanini (Politecnico di Torino, Italy) Viscous and Rate-independent Damage Systems in Non-smooth Domains	Abstracts p. 141
17:30-18:00	Matteo Negri (University of Pavia, Italy) Energy Based BV Evolutions: Existence and Convergence.	Abstracts p. 140
18:00-18:30	Dorothee Knees (Weierstrass Institute, Germany) Global Spatial Regularity Results for Elasticity Models with Friction Or Damage	Abstracts p. 140
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17:00-17:30	Nitsan Ben-Gal (Institute for Mathematics and Its Applications (IMA), USA) Non-compact Global Attractor Structures for PDEs with Infinite-time Blow-up	Abstracts p. 147
17:30-18:00	Sachiko Ishida (Tokyo University of Science, Japan) Behavior of Solutions to Degenerate Keller-Segel Systems	Abstracts p. 148
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18:30-19:00	Yavdat Ilyasov (Institute of Mathematics RAS, Ufa, Russia, Russia) A New Geometrical Concept in the Finding Bifurcations. Generalized Collatz-Wielandt Formula	Abstracts p. 148
19:00-19:30	Masaharu Nagayama (Hokkaido University, Japan) The Collective Motion of Camphor Papers in a Cylindrical Channel	Abstracts p. 149

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17:30-18:00	Maria-Magdalena Boureanu (University of Craiova, Romania) Variable Exponent Problems Involving Generalized Operators	Abstracts p. 151
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19:00-19:30	Ale Jan Homburg (University of Amsterdam, Netherlands) Iterated Function Systems on Compact Manifolds; Minimality and Synchronization	Abstracts p. 299
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16:30-17:00	Petr Kaplický (Charles University, Prague, Czech Rep) Lq Regularity of Generalized Newtonian Flows	Abstracts p. 316
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18:30-19:00	Paolo Secchi (University of Brescia, Italy) Stability of the Linearized MHD-Maxwell Free Interface Problem	Abstracts p. 318
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17:30-18:00	Yevhen F. Suprunenko (Lancaster University, England) Mathematical Model of Stochastic-like But Deterministic and Stable Dynamics in Cell Biology	Abstracts p. 321
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18:00-18:30	Marta Ceccaroni (Università degli Studi di Roma Tor Vergata, Italy) Dynamics Around the Collinear Points in the Circular Restricted Three Body Problem, Including Solar Radiation Pressure and Oblateness.	Abstracts p. 328
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17:00-17:30	Mats Ehrnstrom (Norwegian University of Science and Technology, Norway) Local Well-posedness for a Class of Nonlocal Evolution Equations of Whitham Type	Abstracts p. 346
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18:00-18:30	Tetsuya Ishiwata (Shibaura Institute of Technology, Japan) Structure-preserving Finite Difference Scheme for the Landau-Lifshitz Equation	Abstracts p. 361
18:30-19:00	Martin Kružík (Academy of Sciences of the Czech Republic, Czech Rep) Thermodynamically-consistent Mesoscopic Model of the Ferro/paramagnetic Transition	Abstracts p. 362
19:00-19:30	Hideki Murakawa (Kyushu University, Japan) Semilinear and Linear Approximations to Nonlinear Diffusion Problems	Abstracts p. 362

Special Session 92	Analysis and Computation of Nonlinear Systems of the Mixed Type Organizer(s): Zhaosheng Feng	Location E15-102
16:00-16:30	Lixin Tian (Nanjing Normal University, Peoples Rep of China) Distributed Controllability and Asymptotic Stabilization of the Two-component Camassa-Holm Equation	Abstracts p. 367
16:30-17:00	Mei Sun (Jiangsu University, Peoples Rep of China) New Technology Diffusion Model Considering Two Process Stages	Abstracts p. 366
17:30-18:00	Shumin Jiang (Faculty of Science, Jiangsu University, Peoples Rep of China) Analysis on the Dynamics of a Cournot Investment Game with Bounded Rationality	Abstracts p. 366
18:00-18:30	Liqin Yu (Jiangsu University, Peoples Rep of China) Bounded Traveling Wave Solutions and Peakon-antipeakon Interaction for the Generalized Two-component Hunter-Saxton Equation	Abstracts p. 367
18:30-19:00	Xuedi Wang (Jiangsu University, Peoples Rep of China) Bifurcation Controlling for a Predator-Prey Model with Stage-Structure	Abstracts p. 367
19:00-19:30	Zhaosheng Feng (University of Texas-Pan American, USA) Quadratic Reversible Lotka-Volterra Systems with Two Centers	Abstracts p. 366
Special Session 95	Modeling the Spread and Control of Infectious Diseases Organizer(s): Tufail Malik, Abba Gumel	Location E16-103
16:00-16:30	Diana H. Knipl (MTA-SZTE Analysis and Stochastics Research Group, University of Szeged, Hungary) Rich Bifurcation Structure of an Epidemic Model with Vaccination and Transportation Between Regions	Abstracts p. 374
16:30-17:00	Sehjeong S. Kim (United Arab Emirates University, United Arab Emirates) Timing and Effectiveness of Disease Intervention Mechanisms for Vector-Borne Diseases in the Presence of Human Population Movement in Africa	Abstracts p. 374
17:00-17:30	Elamin Elbasha (Merck Research Laboratories, USA) Evaluating the Cost-Effectiveness of Vaccination Programs	Abstracts p. 373

Special Session 96	Geometric Variational Problems with Associated Stability Estimates Organizer(s): Mouhamed Moustapha Fall	Location E7-104
16:00-16:30	Manuel Ritoré (Universidad de Granada, Spain) Large Isoperimetric Regions in the Product of a Compact Manifold with Euclidean Space	Abstracts p. 378
16:30-17:00	Stefano Nardulli (Dep. de Matematica-IM-UFRJ, Brazil) Isoperimetric Properties of Complete Non-compact Riemannian Manifolds	Abstracts p. 377
17:00-17:30	César Rosales (Universidad de Granada, Spain) Isoperimetric and Stable Regions for Some Log-concave Perturbations of the Gaussian Measure	Abstracts p. 378
17:30-18:00	Jesse Ratzkin (University of Cape Town, So Africa) Isoperimetric Inequalities for Extremal Sobolev Functions	Abstracts p. 377
18:00-18:30	Xavier Ros-Oton (Universitat Politecnica de Catalunya, Spain) Sharp Isoperimetric Inequalities with Densities Via the ABP Method	Abstracts p. 378
18:30-19:00	Antonio Cañete (Universidad de Sevilla, Spain) Stable Hypersurfaces in Euclidean Convex Cones with Homogeneous Densities	Abstracts p. 376
19:00-19:30	Matteo Galli (, Italy) Stable Area-stationary Surfaces in the Sub-Riemannian Sol Manifold	Abstracts p. 376
Special Session 97	Analysis and Control of Nonlinear Partial Differential Equation Evolution Systems Organizer(s): George Avalos, Lorena Bociu, Francesca Bucci	Location C11-201-3
16:00-16:30	Irena Lasiecka (University of Memphis, USA) Strong Stability to Multiple Equilibria in Flow Structure Interactions.	Abstracts p. 382
16:30-17:00	Eduardo Cerpa (Universidad Santa Maria, Chile) Control of Fourth-order Parabolic Control Systems	Abstracts p. 380
17:00-17:30	Patrick Martinez (IMT, University Toulouse 3, France) Null Controllability of Degenerate Parabolic Equations	Abstracts p. 382
17:30-18:00	Roland Schnaubelt (Karlsruhe Institute of Technology, Germany) Null Controllability for Parabolic Equations with Dynamic Boundary Conditions of Reactive-diffusive Type	Abstracts p. 382
18:00-18:30	Andrea Marson (University of Padova, Italy) A Control Problem for a Non Convex Conservation Law	Abstracts p. 382

Special Session 103	Periodic Solutions for Dynamical Systems Organizer(s): Adriana Buica, Susanna Maza	Location E15-104
16:00-16:30	Zalman Balanov (University of Texas at Dallas, USA) Hopf Bifurcation in Symmetric Networks of Coupled Oscillators with Hysteresis	Abstracts p. 397
16:30-17:00	Enrique Ponce (University of Sevilla, Spain) On Periodic Orbits of Piecewise Linear Systems with Two Zones	Abstracts p. 400
17:00-17:30	Santiago S. Ibáñez (University of Oviedo, Spain) Dynamics in Unfoldings of HBT Singularities	Abstracts p. 399
17:30-18:00	Joan Torregrosa (Universitat Autònoma de Barcelona, Spain) Polynomial Solutions of Riccati Equations	Abstracts p. 401
18:00-18:30	Elisabeth García-Medina (Universidad de Sevilla, Spain) Periodic Orbits and Noose Bifurcation in Piecewise Linear Systems	Abstracts p. 398
18:30-19:00	Dmitrii Y. Volkov (Herzen University of Russia, Russia) Hopf - Hopf Bifurcation with 2:1 Resonance. Periodic and Chaotic Solutions.	Abstracts p. 401
19:00-19:30	Rizgar H. Salih (Plymouth University, England) Chaos in Three Dimensional Lotka-Volterra Equations	Abstracts p. 400

Special Session 105	Geometric Mechanics Organizer(s): Hernan Cendra, Darryl Holm, David Martin de Diego, Juan-Pablo Ortega	Location NARANJA
16:00-16:30	Darryl D. Holm (Imperial College London, England) Momentum Maps, Shape Analysis and Solitons	Abstracts p. 410
16:30-17:00	Rossen I. Ivanov (Dublin Institute of Technology, Ireland) G-strand Equations - Some Examples	Abstracts p. 410
17:00-17:30	Cesare Tronci (University of Surrey, England) Lagrangian Reduction of Quantum Variational Principles	Abstracts p. 413
18:00-18:30	James A. Montaldi (University of Manchester, England) Topology of Symmetric Loops Spaces	Abstracts p. 412
18:30-19:00	Luis C. Garcia Naranjo (UNAM, Mexico) Relative Equilibria for the N Body Problem in Spaces of Constant Negative Curvature	Abstracts p. 409
19:00-19:30	Francisco F. Crespo (Universidad de Murcia, Spain) A Gravity-gradient Intermediary in Attitude Dynamics. Relative Equilibria and Bifurcations	Abstracts p. 408
Special Session 109	Stochastic Partial Differential Equations Organizer(s): Michael Rockner	Location E7-102
16:00-16:30	Giuseppe G. Da Prato (Scuola Normale Superiore, Pisa, Italy) Gradient Estimates for a Dirichlet Problem in Hilbert Spaces	Abstracts p. 421
16:30-17:00	Peter Imkeller (Humboldt-Universitaet Zu Berlin, Germany) SPDE Via Fourier Analysis Based Rough Path Calculus	Abstracts p. 422
17:00-17:30	Peter Friz (TU and WIAS Berlin, Germany) Fully-nonlinear SPDEs with Rough Path Dependence	Abstracts p. 421
17:30-18:00	Xiangchan Zhu (Beijing Jiaotong University, Peoples Rep of China) Three Dimensional Navier-Stokes Equation Driven by Space-time White Noise	Abstracts p. 424

Special Session 110	Nonlinear Schrödinger Equations and Its Applications Organizer(s): Panayotis Kevrekidis, Ricardo Carretero	Location E7-201
16:00-16:30	Alberto Amo (CNRS-Laboratoire de Photonique Et Nanostructures, France) Microcavity Polaritons: an Experimental Simulator for Non-linear Schrodinger Equations	Abstracts p. 425
16:30-17:00	Fabrice P. Laussy (Universidad Autonoma de Madrid, Spain) Propagation of Polariton Wavepackets	Abstracts p. 427
17:00-17:30	Augusto S. Rodrigues (Universidade Do Porto, Portugal) Gray Ring Solitons and Symmetry-Broken States in Two-Dimensional Polariton Condensates	Abstracts p. 428
17:30-18:00	Mark Edwards (Georgia Southern University, USA) Hysteresis in a Quantized Superfluid 'atomtronic' Circuit	Abstracts p. 425
18:00-18:30	Peter Kruger (University of Nottingham, England) Controlling and Exploring Cold Quantum Gases on a Chip	Abstracts p. 426
18:30-19:00	Muntasa Guilleumas (Universitat de Barcelona, Spain) Vortex Nucleation and Tunneling Dynamics in Bosonic Josephson Junctions	Abstracts p. 426

Special Session 113	Normal Forms and Molecules in Motion Through Phase Space Bottlenecks Organizer(s): Florentino Borondo, Rosa Maria Benito, Fabio Revuelta	Location E16-101
16:00-16:30	Tamiki Komatsuzaki (Hokkaido University, Japan) Chance and Necessity in Reactions Under Chaos and Stochastic Fluctuation	Abstracts p. 438
16:30-17:00	Roman Schubert (University of Bristol, England) The Quantum Normal Form Approach to Transition State Theory	Abstracts p. 439
17:00-17:30	Judith B. Rommel (University of Cambridge, UK, England) Differentiable Manifolds and Feynman's Path Integrals: Efficient Ways to Investigate the Role of Quantum Tunnelling in Chemical Systems	Abstracts p. 438
17:30-18:00	Fabio Revuelta (Universidad Politecnica de Madrid, Spain) Rate Calculation with Correlated Noise	Abstracts p. 438
18:00-18:30	Holger Waalkens (University of Groningen, Netherlands) Construction of Phase Space Structures Governing Reaction Dynamics in Rotating Molecules	Abstracts p. 440
18:30-19:00	Pablo L. Garcia-Mueller (CIEMAT, Spain) Survival Probability Distributions of Microcanonical Reactant Ensembles in X-CN Isomerization Reactions	Abstracts p. 437
19:00-19:30	Andrej Junginger (University of Stuttgart, Germany) Normal Forms and TST for Wave Packet Dynamics	Abstracts p. 438

Special Session 118	Transport Barriers in Unsteady Fluid Flows Organizer(s): Sanjeeva Balasuriya, Kathrin Padberg-Gehle, Wenbo Tang	Location C11-201-1
16:00-16:30	James D. Meiss (University of Colorado, USA) Finite-Time Transport in Volume-Preserving Flows	Abstracts p. 459
16:30-17:00	Marko Budisic (University of Wisconsin - Madison, USA) Braid Dynamics of Non-periodic Trajectories	Abstracts p. 457
17:00-17:30	Wenbo Tang (Arizona State University, USA) Biological Reactions in Coherent Structures	Abstracts p. 460
17:30-18:00	Tom Watson (UNSW, Australia) Optimal Mixing Enhancement Or Mitigation by Local Perturbation	Abstracts p. 460
18:00-18:30	Sanjeeva Balasuriya (University of Adelaide, Australia) Nonautonomous Control of Stable and Unstable Manifolds	Abstracts p. 457
18:30-19:00	Daniel Blazevski (ETH Zurich, Institute for Mechanical Systems, Switzerland) Characterizing Tracer Patterns in Three-dimensional Temporally Aperiodic Flows	Abstracts p. 457
19:00-19:30	Larry Pratt Pratt (Woods Hole Oceanographic Inst., USA) Chaotic Advection, Barrier Destruction and Mixing in a 3D Model of an Ocean Eddy.	Abstracts p. 460
Special Session 120	Linear and Nonlinear Fourth Order PDE's Organizer(s): Jan Cholewa, Filippo Gazzola, Anibal Rodriguez-Bernal	Location C16-101-5
16:00-16:30	Michael Winkler (University of Paderborn, Germany) A Fourth Order Parabolic Equation Modeling Epitaxial Thin Film Growth	Abstracts p. 468
16:30-17:00	Carlos Escudero (Universidad Autónoma de Madrid & ICMAT, Spain) Existence and Non-existence of Solutions for a Biharmonic Partial Differential Equation with a Hessian Nonlinearity	Abstracts p. 466
17:00-17:30	Carlos Quesada (Universidad Complutense, Spain) Fourth Order Linear and Nonlinear Parabolic Equations in Banach Spaces in \mathbb{R}^N with Low Regularity Initial Data	Abstracts p. 467
17:30-18:00	Jan Cholewa (Silesian University, Poland) On the Cahn-Hilliard Equation in $H^1(\mathbb{R}^N)$	Abstracts p. 465
18:00-18:30	Maurizio Grasselli (Politecnico di Milano, Italy) Cahn-Hilliard Equations with Inertial Term and Dynamic Boundary Conditions	Abstracts p. 467

Special Session 123	Fractals Organizer(s): Raffaela Capitanelli, Uta Freiberg	Location E7-202
16:00-16:30	Ion Chiteescu (University of Bucharest, Romania) Invariant (Fractal) Vector Measures	Abstracts p. 475
16:30-17:00	Uta R. Freiberg (University of Stuttgart, Germany) Differential Operators and Generalized Trigonometric Functions on Fractal Subsets of the Real Line	Abstracts p. 475
17:00-17:30	Daniele Guido (Univ. Roma Tor Vergata, Italy) Energy from Spectral Triples on the Sierpinski Gasket	Abstracts p. 476
17:30-18:00	Michael Hinz (Bielefeld University, Germany) Analysis and Vector Analysis on Fractals	Abstracts p. 476
18:00-18:30	Radu Miculescu (University of Bucharest, Romania) On a Question of A. Kameyama	Abstracts p. 477
18:30-19:00	Christian Seifert (Technische Universität Hamburg-Harburg, Germany) Dirichlet Forms for a Jump-diffusion Process on Koch's Snowflake	Abstracts p. 478
Special Session 125	Abstract Differential Equations and Related Topics Organizer(s): Toka Diagana, Claudio Cuevas, Juan J. Nieto	Location E16-106
16:00-16:30	Bruno Andrade (ICMC-USP, Brazil) On a Family of Nonlinear Volterra Equations Coming from the Viscoelasticity Theory	Abstracts p. 481
16:30-17:00	Joel Blot (SAMM University Paris 1, France) A Functional Analytic Approach of the Attractivity in Semilinear Evolution Equations	Abstracts p. 481
17:00-17:30	Claudio Cuevas (Federal University of Pernambuco, Brazil) Asymptotic Behavior for Volterra Difference Equations	Abstracts p. 481
17:30-18:00	Marcelo de Almeida (Federal University of Sergipe, Brazil) Self-similarity, Symmetries and Asymptotic Behavior in Morrey Spaces for a Fractional Wave Equation	Abstracts p. 481
18:00-18:30	Rodrigo Ponce (Universidad de Talca, Chile) Bounded Mild Solutions to Fractional Integro-differential Equations in Banach Spaces	Abstracts p. 482

Contributed Session 1	ODEs and Applications Chair(s): Cristina Sardon	Location E7-103
16:00-16:20	Ozlem Baksi (Yildiz Technical University, Turkey) On the Regularized Trace of an Operator Which Has Purely Discrete Spectrum	Abstracts p. 496
16:20-16:40	Goncalo Moraes (ISEL, Portugal) Generalized Synchronization in a System of Several Non-autonomous Oscillators Coupled by a Medium	Abstracts p. 500
16:40-17:00	Yonca Sezer (Yildiz Technical University, Institutes of Natural and Applied Sciences, Faculty of Art and Science, Turkey) On the Asymptotic Behavior of Eigenvalues of the Sturm Liouville Operator	Abstracts p. 503
17:00-17:20	Ricardo Riaza (Universidad Politécnica de Madrid, Spain) Bifurcation Without Parameters in Circuits with Memristors: a DAE Approach	Abstracts p. 501
17:20-17:40	Natalia Fuentes (Huelva University, Spain) A Class of Systems Admitting an Inverse Integrating Factor.	Abstracts p. 497
17:40-18:00	Thibaut-Hugues Gallois (IFPEN/Ecole Centrale Paris, France) A New Method to Build a Large Scale, Strongly Coupled Model As Benchmark for ODE Solvers	Abstracts p. 498
18:00-18:20	Pilar R. Gordoa (Universidad Rey Juan Carlos, Spain) Fourth Painlevé Hierarchies Related to the Boussinesq Hierarchy	Abstracts p. 498
18:20-18:40	Cristina Sardon (University of Salamanca, Spain) Lie–Hamilton Systems on the Plane:classification, Constants of Motion and Superposition Rules.	Abstracts p. 502
18:40-19:00	Rosana Rodríguez-López (University of Santiago de Compostela, Spain) On the Solution of Equations in Metric Spaces	Abstracts p. 502

Contributed Session 5	Fixed Points and Topological Method Chair(s): Robert Skiba	Location C16-101-4
16:00-16:20	Rosana Rodríguez-López (University of Santiago de Compostela, Spain) On Some Fractional Problems with Unbounded Nonlinearity	Abstracts p. 515
16:20-16:40	Octavia-Maria O. Bolojan (Babes-Bolyai University of Cluj-Napoca, Romania) Impulsive Systems with Nonlocal Initial Conditions	Abstracts p. 515
16:40-17:00	Jaydev Dabas (Indian Institute of Technology Roorkee India, India) Existence of Mild Solution for Nonlocal Impulsive Integro-differential Equation with State Dependent Delay	Abstracts p. 515
17:00-17:20	Bhalchandra D. Karande (Maharashtra Udayagiri Mahavidyalaya, India) On Existence of Locally Attractive Solution for For a Nonlinear Functional Integral Equation of Fractional Order	Abstracts p. 515
17:20-17:40	Bhalchandra D. Karande (Maharashtra Udayagiri Mahavidyalaya, India) Existence of Locally Attractive Solution to Fractional Order Quadratic Functional Integral Equation	Abstracts p. 515
18:00-18:20	Wojciech W. Mydlarczyk (Institute of Mathematics and Computer Science, Technical University of Wroclaw, Poland) Nonuniqueness and Blowing Up Character of the Solution to a Nonlinear Abel Type Integral Equation on the Half Line	Abstracts p. 515
18:20-18:40	Oznur Ozkan Kilic (Baskent University, Turkey) Coefficient Bounds for Certain Subclasses of Analytic Functions	Abstracts p. 515
18:40-19:00	Robert Skiba (Nicolaus Copernicus University, Poland) Cohomological Index of Fuller Type and Its Applications	Abstracts p. 515

Contributed Session 6	PDEs and Applications Chair(s): Nuria Reguera	Location E16-105
16:00-16:20	David Gomez-Castro (Universidad Complutense de Madrid, Spain) Efficiency Over Cylinders: Steiner Symmetrization and Shape Differentiation	Abstracts p. 519
16:20-16:40	Marilena Poulou (University of Aegean, Greece) Semi Discrete Weakly Damped Nonlinear Klein-Gordon Schrodinger System	Abstracts p. 525
16:40-17:00	Ana M. Portillo (Universidad de Valladolid, Spain) Absorbing Boundary Conditions and Geometric Integration for Two Coupled Wave Equations	Abstracts p. 525
17:00-17:20	Merab Svanadze (Ilia State University, Rep of Georgia) Boundary Value Problems in the Linear Theory of Thermoelasticity for Solids with Double Porosity	Abstracts p. 527
17:20-17:40	Vanessa Lleras (Montpellier University, France) Higher Order Schrödinger and Hartree-Fock Equations with Coulomb Potential	Abstracts p. 523
17:40-18:00	Manuel Villanueva-Pesqueira (Universidad Complutense de Madrid, Spain) Asymptotic Analysis of Poisson's Equation in Thin Domains with Oscillatory Boundaries	Abstracts p. 529
18:00-18:20	Evgeny M. Trykin (Lomonosov Moscow State University, Russia) Peculiarities of Iteration Process Convergence Assessment for Semiconductor Plasma Generation Problem by Femtosecond Pulse	Abstracts p. 528
18:20-18:40	Evgeny M. Trykin (Lomonosov Moscow State University, Russia) A New Way for Decreasing of Amplitude of Wave Reflected from Artificial Boundary Condition for 1D Nonlinear Shrodinger Equation	Abstracts p. 528
18:40-19:00	Nuria Reguera (Universidad de Burgos, Spain) An Automatic Cleaning Algorithm for Nonlinear Wave Equations	Abstracts p. 525

Parallel Session 2

Tuesday, July 8

10:30 – 12:30

Special Session 1	Mathematical Aspects of Fluid Dynamics Organizer(s): Angel Castro, Diego Cordoba, Charles Fefferman, Francisco Gancedo	Location ROJA
10:30-11:00	Weinan E (Princeton University, USA) The Stability of Laminar Shear Flows	Abstracts p. 7
11:00-11:30	Vlad C. Vicol (Princeton University, USA) On the Local Well-posedness of the Prandtl and the Hydrostatic Euler Equations with Multiple Monotonicity Regions	Abstracts p. 9
11:30-12:00	Dongho Chae (Chung-Ang University, Korea) Singularity Formation for the Hall-MHD Equations	Abstracts p. 7
12:00-12:30	Edriss S. Titi (Weizmann Institute & UC - Irvine, USA) Recent Advances Concerning the 3D Primitive Equations of Oceanic and Atmospheric Dynamics	Abstracts p. 9
Special Session 2	Nonlinear Evolution PDEs and Interfaces in Applied Sciences Organizer(s): Gunduz Caginalp, Maurizio Grasselli, Alain Miranville	Location EPS10
10:30-11:00	Francisco Guillen-Gonzalez (Universidad de Sevilla, Spain) Convergence to Equilibrium for Smectic-A Liquid Crystals in 3D Domains	Abstracts p. 13
11:00-11:30	Ciprian G. Gal (Florida International University, USA) Regularized Families of Simplified Ericksen-Leslie (RSEL) Models	Abstracts p. 11
11:30-12:00	Cecilia Cavaterra (Università degli Studi di Milano, Italy) Global Weak Solution and Blow-up Criterion of the General Ericksen-Leslie System for Nematic Liquid Crystal Flows.	Abstracts p. 10
12:00-12:30	Xiaoming Wang (Florida State University, USA) Flows in Karst Geometry	Abstracts p. 15

Special Session 4	Delay Equations Applied to Population Dynamics Organizer(s): Philipp Getto, Gergely Rost, Julia Sanchez	Location C11-101-3
10:30-11:00	Hal L. Smith (Arizona State University, USA) Virus Competition for a Bacterial Host in a Petri Dish	Abstracts p. 23
11:00-11:30	Xingfu Zou (University of Western Ontario, Canada) On the Basins of Attraction for a Class of Delay Differential Equations with Non-monotone Bistable Nonlinearities	Abstracts p. 23
11:30-12:00	Eduardo Liz (Universidad de Vigo, Spain) Delayed Population Models with Allee Effects and Exploitation	Abstracts p. 21
12:00-12:30	Maria Vittoria Barbarossa (University of Szeged, Hungary) On Waning Immunity and Immune System Boosting	Abstracts p. 20
Special Session 8	Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations from Mathematical Science Organizer(s): Danielle Hilhorst, Yoshihisa Morita	Location EPS7
10:30-11:00	Yoshihisa Morita (Ryukoku University, Japan) Gradient-like Property and Spectral Comparison in a Mass-conserved Reaction-diffusion System	Abstracts p. 37
11:00-11:30	J. Ignacio Tello (Universidad Politecnica de Madrid, Spain) Comparison Method for Parabolic-Elliptic Systems with Chemotactic Terms	Abstracts p. 40
11:30-12:00	Adrien Blanchet (Toulouse School of Economics, France) A Gradient Flow Interpretation of the Keller-Segel Systems	Abstracts p. 36
12:00-12:30	Piotr Rybka (The University of Warsaw, Poland) Sudden Directional Diffusion: Counting and Watching Facets	Abstracts p. 39

Special Session 12	Complexity in Reaction-diffusion Systems Organizer(s): Chiun-Chuan Chen, Hirokazu Ninomiya, Masaharu Taniguchi, Toshiyuki Ogawa	Location E16-104
10:30-11:00	Masahiko Shimojo (Okayama University of Science, Japan) On a Free Boundary Problem for the Curvature Flow with Driving Force	Abstracts p. 57
11:00-11:30	Yan-Yu Chen (Tamkang University, Taiwan) Study of the Rotating Spiral Wave and Rotating Spot by the Wave Front Interaction Model	Abstracts p. 55
11:30-12:00	Hirokazu Ninomiya (Meiji University, Japan) Traveling Spots and Obstacle-induced Spirals in an Excitable Medium	Abstracts p. 56
12:00-12:30	Harunori Monobe (Meiji University, Japan) Fast Reaction Limit of a Two-components System with Different Reaction Terms	Abstracts p. 56
Special Session 13	Nonlocally Coupled Dynamical Systems: Analysis and Applications Organizer(s): Yuri Maistrenko, Georgi Medvedev	Location C0-302
10:30-11:00	Eckehard Schöll (TU Berlin, Germany) Noninvasive Control of Synchrony in Networks Coupled with Heterogeneous Delays	Abstracts p. 62
11:00-11:30	Laurent Larger (FEMTO-ST / Optics Dpt., France) Chimera in Delays Dynamics: Theory, Experiments, and Related Application	Abstracts p. 60
11:30-12:00	Yohann Duguet (LIMSI-CNRS, University Paris-Sud, France) Can Laminar-turbulent Coexistence in Shear Flows Be Modelled by Chimera States?	Abstracts p. 59
12:00-12:30	Yuri Maistrenko (National Academy of Sciences of Ukraine, Ukraine) Cascades of Chimera States	Abstracts p. 61

Special Session 16	Optimal Control and Its Applications Organizer(s): Alexander J. Zaslavski	Location C0-209
10:30-11:00	Irene I. Benedetti (University of Perugia, Italy) Comparison of Topological Methods for Solving Nonlocal Multivalued Problems in Abstract Spaces	Abstracts p. 71
11:00-11:30	Franco Rampazzo (Padova University, Italy) Asymptotic Controllability and Optimal Control	Abstracts p. 75
11:30-12:00	Andrey Sarychev (University of Florence, Italy) Lie Algebraic Criteria for Approximate Ensemble Controllability	Abstracts p. 75
12:00-12:30	Igor Zelenko (Texas A&M University, USA) Rauch and Bonnet-Myers Type Comparison Theorems in Sub-Riemannian Geometry	Abstracts p. 76
Special Session 18	Nonlinear Elliptic and Parabolic Problems Organizer(s): J. Lopez-Gomez	Location EPS5
10:30-11:00	Junping Shi (College of William and Mary, USA) Uniqueness of the Positive Solution to Coupled Cooperative Systems on an Interval	Abstracts p. 82
11:00-11:30	Horst R. Thieme (Arizona State University, USA) Two-sex Populations with Short Reproduction Season That Diffuse Under Dirichlet Boundary Conditions	Abstracts p. 83
11:30-12:00	Robert Stephen Cantrell (University of Miami, USA) Avoidance Behavior in Intraguild Communities: a Cross-diffusion Model	Abstracts p. 79
12:00-12:30	Pierpaolo Omari (University of Trieste, Italy) Asymmetric Poincarè Inequalities and Applications to Capillarity Problems	Abstracts p. 81

Special Session 19	Nonautonomous Dynamics Organizer(s): Russell Johnson, Sylvia Novo, Rafael Obaya	Location EPS4
10:30-11:00	Jose A. Langa (University of Seville, Spain) Characterization of Uniform Attractors	Abstracts p. 87
11:00-11:30	Jose Valero (Universidad Miguel Hernandez de Elche, Spain) Morse Decomposition of Global Attractors with Infinite Components	Abstracts p. 89
11:30-12:00	Anna Capietto (University of Torino, Italy) Global Bifurcation for Periodic Dirac-type Systems	Abstracts p. 85
12:00-12:30	Walter Dambrosio (Dipartimento di Matematica - Università di Torino, Italy) Bifurcation Results for Singular Dirac Systems	Abstracts p. 86
Special Session 21	Variational, Topological, and Set-valued Methods for Differential Problems Organizer(s): Gabriele Bonanno, Siegfried Carl, Salvatore A. Marano, Dumitru Motreanu	Location EPS8
10:30-11:00	Patrizia Pucci (University of Perugia, Italy) Existence of Entire Solutions for a Class of Variable Exponent Elliptic Equations	Abstracts p. 99
11:00-11:30	Dumitru Motreanu (University of Perpignan, France) Nonlinear Elliptic Problem Driven by a Nonhomogeneous Operator	Abstracts p. 98
11:30-12:00	Olimpio H. Miyagaki (UFJF-Universidade Federal de Juiz de Fora, Brazil) On a Class of the Nonhomogeneous Eigenvalue Problems and Applications	Abstracts p. 98
12:00-12:30	Rodica Luca Tudorache (Technical University of Iasi, Romania) Positive Solutions for a System of Nonlinear Integral Boundary Value Problems	Abstracts p. 100

Special Session 22	Modeling and Dynamic Analysis of Complex Patterns in Biological Systems and Data Organizer(s): Jianzhong Su, Qishao Lu, Miguel A. F. Sanjuan	Location C0-205
10:30-11:00	Akif Ibragimov (Texas Tech University, Lubbock, Texas, USA) Analysis of the Coupled Inflammatory Response in the Lumen and Sub-endothelial Layer	Abstracts p. 103
11:00-11:30	Jon Bell (University of Maryland Baltimore County (UMBC), USA) Strategy for Modeling the Growth and Degradation of the Fibrous Cap of an Atherosclerotic Plaque	Abstracts p. 102
11:30-12:00	Angela M. Reynolds (Virginia Commonwealth University, USA) The Effect of Systemic Estrogen and Cortisol on the Inflammatory Phase of Wound Healing	Abstracts p. 104
12:00-12:30	Jianzhong Su (University of Texas at Arlington, USA) Modeling, Simulation and Analysis for Foreign Body Fibrotic Reactions in 2D	Abstracts p. 105
Special Session 29	Stochastic and Deterministic Dynamical Systems and Applications Organizer(s): Tomas Caraballo, Maria J. Garrido-Atienza, Jose Valero, Yuncheng You	Location C0-206
10:30-11:00	Igor Pažanin (University of Zagreb, Croatia) Effects of Strong Convection on the Cooling Process for a Long Or Thin Pipe	Abstracts p. 132
11:00-11:30	Paulo R. Ruffino (University of Campinas, Brazil) Decomposition of Lévy Flows in Manifolds According to Complementary Foliations	Abstracts p. 132
11:30-12:00	Matheus C. Bortolan (Universidade de São Paulo, Brazil) Asymptotic Dynamics for Non-autonomous Differential Equations	Abstracts p. 129
12:00-12:30	Jose A. Langa (University of Seville, Spain) A Dynamical System Approach to Complex Networks in Biology	Abstracts p. 131

Special Session 30	Discrete Dynamics and Applications Organizer(s): Eduardo Liz, Daniel Franco, Christian Pötzsche	Location C0-312
10:30-11:00	Thorsten T. Hüls (Bielefeld University, Germany) Global Bifurcations in a Non-invertible Model of Asset Pricing	Abstracts p. 136
11:00-11:30	Alina Girod (Bielefeld University, Germany) Homoclinic Trajectories in Non-autonomous Systems and Their Discretization	Abstracts p. 135
11:30-12:00	Antonio Linero Bas (Universidad de Murcia, Spain) Folding and Unfolding in Periodic Difference Equations	Abstracts p. 136
12:00-12:30	Anatoli F. Ivanov (Pennsylvania State University, USA) Stability, Periodicity, and Global Dynamics in a Class of Multi-dimensional Maps	Abstracts p. 136
Special Session 31	Variational Energy and Entropy Approaches in Non-smooth Thermomechanics Organizer(s): Elena Bonetti, Elisabetta Rocca	Location E7-105
10:30-11:00	Eduard Feireisl (Czech Acad. Sci. Prague, Czech Rep) Stability Issues in Complete Fluid Systems	Abstracts p. 140
11:00-11:30	Arghir D. Zarnescu (University of Sussex, England) On Defects with Half-integer Degree in the Q-tensor Theory of Nematic Liquid Crystals	Abstracts p. 141
11:30-12:00	Alessandro Musesti (Università Cattolica del Sacro Cuore, Italy) Free Fall of One-dimensional Bodies in Hyperviscous Fluids	Abstracts p. 140
12:00-12:30	Maria Schonbek (University of California Santa Cruz, USA) L2-asymptotic Stability of Mild Solutions to Navier-Stokes System in R3	Abstracts p. 141

Special Session 33	Bifurcations and Asymptotic Analysis of Solutions of Non-linear Models Organizer(s): Jann-Long Chern, Yoshio Yamada, Shoji Yotsutani	Location C11-501-1
10:30-11:00	Shingo Takeuchi (Shibaura Institute of Technology, Japan) The Basis Property of Generalized Jacobian Elliptic Functions	Abstracts p. 150
11:00-11:30	Tomomi Yokota (Tokyo University of Science, Japan) Blow-up in H^1 -norm for a Special Type of Complex Ginzburg-Landau Equations	Abstracts p. 150
11:30-12:00	Zhi-You Chen (National Central University, Taiwan) Uniqueness of Topological Multivortex Solutions for the Self-Dual Maxwell-Chern-Simons $U(1)$ Model	Abstracts p. 147
12:00-12:30	Minoru M. Murai (Ryukoku University, Japan) Exact Solutions for the Derivative Nonlinear Schrödinger Equation with Periodic Boundary Condition	Abstracts p. 149
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10:30-11:00	Kanishka Perera (Florida Institute of Technology, USA) Existence and Regularity of Higher Critical Points in Elliptic Free Boundary Problems	Abstracts p. 154
11:00-11:30	Jesus Hernandez (Universidad Autonoma de Madrid, Spain) Nehari Manifolds for Positive and Compact Support Solutions to Some Semilinear Elliptic Problems Related with Nonlinear Schrödinger Equations	Abstracts p. 153
11:30-12:00	Jose Luis Flores (Universidad de Malaga, Spain) The Geodesic Connectedness Problem in Lorentzian Manifolds: Variational Methods	Abstracts p. 152
12:00-12:30	Rossella Bartolo (Polytechnic of Bari, Italy) Nontrivial Solutions for P-Laplace Equations	Abstracts p. 151

Special Session 37	Global Or/and Blowup Solutions for Nonlinear Evolution Equations and Their Applications Organizer(s): Shaohua George Chen, Ming Mei	Location C0-301
10:30-11:00	Jean C. Cortissoz (Universidad de Los Andes, Colombia) Blow-up for Possible Singular Solutions of the Navier-Stokes Equations	Abstracts p. 164
11:00-11:30	Corrado Lattanzio (L'Aquila University, Italy) Existence and Stability of Traveling Waves for an Allen-Cahn Model with Relaxation	Abstracts p. 165
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12:00-12:30	Chi-Tien Lin (Providence University, Taiwan) Numerical Results on Asymptotic Stability of Travelling Wave for Nicholson's Blowflies Equation	Abstracts p. 165
Special Session 46	Qualitative Theory of Differential Equations and Applications Organizer(s): Yi Li, Wei Feng, Xiaojie Hou	Location C0-207
10:30-11:00	Jose Gines J. Espin Buendia (University of Murcia, Spain) Topological Characterization of Omega-limit Sets for Analytic Flows on Open Subsets of the Sphere and the Projective Plane	Abstracts p. 195
11:00-11:30	Guihong Fan (Columbus State University (GA), USA) Predator-prey Models with Time Delay in the Conversion	Abstracts p. 195
11:30-12:00	Michael A. Freeze (University of North Carolina Wilmington, USA) Analysis of an Extended Rosenzweig-MacArthur Model of a Tri-Trophic Food Chain	Abstracts p. 195
12:00-12:30	Wei Feng (University of North Carolina Wilmington, USA) Traveling Wave Solutions in Models of Complex Competition	Abstracts p. 195

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11:30-12:00	Dirk Lorenz (TU Braunschweig, Germany) An Accelerated and Preconditioned Forward-backward Method for Monotone Inclusions	Abstracts p. 204
12:00-12:30	Andre Milzarek (Technical University Munich, Germany) A Globalized Semismooth Newton Method for Nonsmooth Optimization Problems	Abstracts p. 204
Special Session 50	Evolution Equations and Inclusions with Applications to Control, Mathematical Modeling and Mechanics Organizer(s): Nasir U. Ahmed, Stanislaw Migorski, Ioan I. Vrabie	Location C11-201-4
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11:00-11:30	Monica-Dana M. Burlică (“Gheorghe Asachi” Technical University, Romania) Nonlinear Multi-valued Reaction-diffusion Systems with Delay	Abstracts p. 209
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Special Session 65	Kinetic Equations: Theory and Applications Organizer(s): Francesco Salvarani	Location C11-101-2
10:30-11:00	Francois Golse (Ecole Polytechnique, Paris, France) From Kinetic Theory to the Dynamics of Sprays	Abstracts p. 266
11:00-11:30	Claude W. Bardos (Laboratoire Jacques Louis Lions, France) The Cauchy Problem for the Vlasov-Dirac-Benney Equation and Related Issues in Fluid Mechanics and Semi-classical Limits	Abstracts p. 264
11:30-12:00	Mustapha Mokhtar-Kharroubi (University of Franche-Comte Besancon, France) Some Measure Convolution Operators in Transport Theory	Abstracts p. 266
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11:30-12:00	Rodica Radulescu (University “Politehnica” of Bucharest, Romania) Stability Analysis of a Complex Time-delay System for Leukemia	Abstracts p. 271
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11:30-12:00	Enrico Valdinoci (Weierstrass Institute, Berlin, Germany) Gradient Estimates and Symmetry Results in Anisotropic Media	Abstracts p. 310
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11:00-11:30	Maria Specovius-Neugebauer (University of Kassel, Germany) The Time Periodic Stokes System in a Layer: Asymptotic Behavior of the Solutions at Infinity	Abstracts p. 319
11:30-12:00	Nour Seloula (Caen University, France) L^p Theory for the Navier-Stokes Equations with Non Standard Boundary Conditions	Abstracts p. 318
12:00-12:30	Cherif Amrouche (Universite de Pau Et Des Pays de L'Adour, France) Semi-group Theory for the Stokes Operator with Navier-type Boundary Conditions on L^p -spaces	Abstracts p. 315

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11:30-12:00	Wen-wen Tung (Purdue University, USA) Asymmetry in the Signals of Madden-Julian Oscillation Deep Convection	Abstracts p. 327
12:00-12:30	Joanna M. Slawinska (New York University Abu Dhabi, United Arab Emirates) Multi-scale Properties of Idealized Walker Cell	Abstracts p. 327

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11:30-12:00	Marina Gonchenko (Technische Universitaet Berlin, Germany) Exponentially Small Splitting of Separatrices to Whiskered Tori with Frequencies of Constant Type in the RTBP	Abstracts p. 329
12:00-12:30	Umberto L. Hryniewicz (Universidade Federal Do Rio de Janeiro, Brazil) Annulus-like Global Surfaces of Section for Tight Reeb Flows on So (3)	Abstracts p. 329
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10:30-11:00	Angel Calsina (Universitat Autonoma de Barcelona, Spain) Spatial Spread of Intestinal Bacteria and Bacteriophage Within a Single Host	Abstracts p. 338
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12:00-12:30	Diana H. Knipl (MTA-SZTE Analysis and Stochastics Research Group, University of Szeged, Hungary) Epidemic Spread on Transportation Networks with Travel Related Infection	Abstracts p. 340

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10:30-11:00	Jacek Szmigielski (University of Saskatchewan, Canada) Colliding Peakons and the Formation of Shocks in the Degasperis-Procesi Equation	Abstracts p. 348
11:00-11:30	Feride Tiglay (Ohio State University, USA) Weak Solutions of an Integrable Evolution Equation	Abstracts p. 348
11:30-12:00	Eugenia N. Petropoulou (University of Patras, Greece) A Functional-analytic Technique for the Study of Analytic Solutions of PDEs	Abstracts p. 347
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Special Session 91	Variational Methods for Evolution Equations Organizer(s): Ulisse Stefanelli, Goro Akagi	Location E16-102
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12:00-12:30	Arkady Poliakovsky (Ben Gurion University of the Negev, Be'er Sheva, Israel, Israel) Variational Resolution for Some General Classes of Nonlinear Evolutions	Abstracts p. 363
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10:30-11:00	Fangyue Chen (Hangzhou Dianzi University, Peoples Rep of China) Dynamics Classification of Boolean Networks	Abstracts p. 365
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11:30-12:00	Zhanwen Ding (Faculty of Science, Jiangsu University, Peoples Rep of China) Dynamics of a Cournot Investment Game with Bounded Rationality	Abstracts p. 365

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11:30-12:00	Sven Jarohs (Goethe-University Frankfurt, Germany) Overdetermined Problems with Fractional Laplacian	Abstracts p. 377
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11:00-11:30	Thomas Hagen (University of Memphis, USA) Existence and Stability for Free Liquid Fibers and Films	Abstracts p. 381
11:30-12:00	Cristina Pignotti (L'Aquila, Italy) Asymptotic Stability for a Class of Semilinear Evolution Equations with Time Delay	Abstracts p. 382
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10:30-11:00	Jean-Pierre M. Francoise (Université Pierre-Marie Curie, Paris, France) Average Forcing and Frequency Locking in a Fast-slow Compartmental System	Abstracts p. 398
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12:00-12:30	Douglas D. Novaes (Universidade Estadual de Campinas, Brazil) Periodic Solutions of Lipschitz Differential Systems Via Higher Order Averaging Method	Abstracts p. 399

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Special Session 110	Nonlinear Schrodinger Equations and Its Applications Organizer(s): Panayotis Kevrekidis, Ricardo Carretero	Location E7-201
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11:00-11:30	Marian Gidea (Yeshiva University, USA) Topological Data Analysis of Macromolecular Complexes	Abstracts p. 437
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12:00-12:30	Hiroshi H. Teramoto (Research Institute for Electronic Science / Hokkaido University, Japan) Reaction Coordinate Switching Mechanism, on the Possibility of Its Experimental Verification and Its Quantum Manifestation	Abstracts p. 439

Special Session 120	Linear and Nonlinear Fourth Order PDE's Organizer(s): Jan Cholewa, Filippo Gazzola, Anibal Rodriguez-Bernal	Location C16-101-5
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11:00-11:30	Anibal Rodriguez-Bernal (U. Complutense, Madrid, Spain) On the Dissipativity of Some Fourth Order Problems in \mathbb{R}^N	Abstracts p. 467
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12:00-12:30	Jose M. Arrieta (Complutense University - ICMAT, Spain) Spectral Stability Results for Higher-order Operators Under Perturbations of the Domain	Abstracts p. 465
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11:00-11:30	Alan D. Rendall (University of Mainz, Germany) Dynamical Properties of the MAP Kinase Cascade	Abstracts p. 473
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12:00-12:30	Bernold Fiedler (Freie Universität Berlin, Germany) Poster Presentations of the Minisymposium	Abstracts p. 472

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11:30-12:00	Massimo Cefalo (DIAG - University La Sapienza of Rome, Italy) Numerical Approximation of Advection-diffusion Problems in (pre)fractal Domains.	Abstracts p. 475
12:00-12:30	Mirko D'Ovidio (Sapienza University of Rome, Italy) Transmission Problems and Time-changed Diffusions on Irregular Domains	Abstracts p. 475
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11:00-11:30	Piotr Kasprzak (Adam Mickiewicz University, Poland) On Certain Classes of (not Necessarily Bounded) Almost Periodic Functions with Applications	Abstracts p. 481
11:30-12:00	Toka Diagana (Howard University, USA) Existence Results for Some Nonautonomous Integro-differential Equations	Abstracts p. 481
12:00-12:30	Jin Liang (Shanghai Jiao Tong University, Peoples Rep of China) Vector-valued Weight Pseudo Almost Automorphic Functions and Applications to Evolution Equations	Abstracts p. 482

Contributed Session 1	ODEs and Applications Chair(s): Yaw Chang	Location E7-103
10:30-10:50	Alessandro Arsie (The University of Toledo, USA) A Normalizing Isospectral Flow on Complex Hessenberg Matrices	Abstracts p. 496
10:50-11:10	Zhanyuan Hou (London Metropolitan University, England) Global Stability of a Fixed Point in Kolmogorov Systems	Abstracts p. 499
11:10-11:30	Sergii M. Torba (CINVESTAV del IPN, Mexico) Transmutation Operators and Complete Systems of Solutions of Variable Mass Klein-Gordon Equations	Abstracts p. 503
11:30-11:50	Matthew Edgington (University of Reading, England) Signalling Network Structure and Its Role in Controlling Overshoot in <i>Escherichia Coli</i> Chemotaxis Signalling	Abstracts p. 497
11:50-12:10	Yaw Chang (UNC-Wilmington, USA) Analysis of Dynamics in a Complex Food Chain with Ratio-Dependent Functional Response	Abstracts p. 496
Contributed Session 6	PDEs and Applications Chair(s): Michael Stich	Location E16-105
10:30-10:50	Vinita Chellappan (Indian Institute of Science, Bangalore, India) Frequency Domain Numerical Spectral Solutions for Certain Class of Partial Differential Equations	Abstracts p. 517
10:50-11:10	Swaroop N. Bora (Indian Institute of Technology Guwahati, India) Trapped Waves in a Two-layer Fluid Bounded Below by an Elastic Bed	Abstracts p. 517
11:10-11:30	Gennadiy Burlak (UAEM, Mexico) The Properties of Matter-wave Solitons with the Minimum Number of Particles in Two-dimensional Quasiperiodic Potentials	Abstracts p. 517
11:50-12:10	Solodushkin Svyatoslav (Ural Federal University, Russia) Numerical Analysis of One Partial Delay Differential Equation of Cell Replication and Maturation Process	Abstracts p. 527
12:10-12:30	Michael Stich (Aston University, England) Plane Wave and Traveling Wave Solutions Induced by Time-delay Feedback in an Oscillatory Reaction-diffusion System	Abstracts p. 526

Parallel Session 3

Tuesday, July 8

14:00 – 16:30

Special Session 1	Mathematical Aspects of Fluid Dynamics Organizer(s): Angel Castro, Diego Cordoba, Charles Fefferman, Francisco Gancedo	Location ROJA
14:00-14:30	Peter Constantin (Princeton University, USA) On the Inviscid Limit	Abstracts p. 7
14:30-15:00	Steve Shkoller (University of Oxford, USA) Interface Singularities for the Euler Equations	Abstracts p. 9
15:00-15:30	Philip Isett (MIT, USA) Holder Continuous Euler Flows	Abstracts p. 8
15:30-16:00	Mihaela Ignatova (Stanford University, USA) On Well-posedness and Small Data Global Existence for a Damped Free Boundary Fluid-structure Model	Abstracts p. 8
16:00-16:30	Nikolai V. Chemetov (CMAF / University of Lisbon, Portugal) Boundary Layer Problem: Navier-Stokes Equations And	Abstracts p. 7
Special Session 4	Delay Equations Applied to Population Dynamics Organizer(s): Philipp Getto, Gergely Rost, Julia Sanchez	Location C11-101-3
14:00-14:30	Mats Gyllenberg (University of Helsinki, Finland) Delay Equations As Models of Physiologically Structured Populations	Abstracts p. 21
14:30-15:00	Karl P. Hadeler (University of Tuebingen, Germany) State-dependent Neutral Delay Equations from Population Dynamics	Abstracts p. 21
15:00-15:30	Alfonso Ruiz-Herrera (University of Szeged, Hungary) Global Attraction and Bifurcation in Systems of Delay Differential Equations with Non-monotonic Feedbacks and Hopfield's Model	Abstracts p. 22
15:30-16:00	Marek Bodnar (University of Warsaw, Poland) General Model of a Cascade of Reactions with Time Delays: Global Stability Analysis	Abstracts p. 20
16:00-16:30	Jose J. Oliveira (University of Minho, Portugal) Global Exponential Stability of Nonautonomous Neural Network Models with Delays	Abstracts p. 22

Special Session 8	Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations from Mathematical Science Organizer(s): Danielle Hilhorst, Yoshihisa Morita	Location EPS7
14:00-14:30	Christina Surulescu (University of Kaiserslautern, Germany) Multiscale Modeling of Glioma Spread	Abstracts p. 40
14:30-15:00	Christian Stinner (University of Kaiserslautern, Germany) On a Multiscale Model Involving Cell Contractivity and Its Effects on Tumor Invasion	Abstracts p. 40
15:00-15:30	Sungrim Seirin Lee (Hiroshima University, Japan) Mathematical Understanding on Nuclear Pattern of Eukaryotic Cells by Phase-Field Method	Abstracts p. 39
15:30-16:00	Hideki Murakawa (Kyushu University, Japan) Mathematical Models of Cell-cell Adhesion: Diffusion Vs. Advection	Abstracts p. 38
16:00-16:30	Kunimochi Sakamoto (Hiroshima University, Japan) Diffusion Equation Under Dynamical Boundary Conditions	Abstracts p. 39
Special Session 12	Complexity in Reaction-diffusion Systems Organizer(s): Chium-Chuan Chen, Hirokazu Ninomiya, Masaharu Taniguchi, Toshiyuki Ogawa	Location E16-104
14:00-14:30	Theodore Kolokolnikov (Dalhousie, Canada) On Fast-moving Criminals and Chemotaxis	Abstracts p. 55
14:30-15:00	Justin C. Tzou (Dalhousie University, Canada) Mean First Passage Time for a Small Rotating Trap Inside a Reflective Disk	Abstracts p. 57
15:00-15:30	Kota Ikeda (Graduate School of Advanced Mathematical Sciences, Meiji University, Japan) Collective Motions of Particles with Diffusive Interactions	Abstracts p. 55
15:30-16:00	Grzegorz Karch (Uniwersytet Wroclawski, Poland) Diffusion-induced Blowup in Reaction-diffusion-ODE Systems	Abstracts p. 55
16:00-16:30	Toshiyuki Ogawa (Meiji University, Japan) Stabilization of Unstable Standing Waves in Reaction-diffusion Systems	Abstracts p. 56

Special Session 13	Nonlocally Coupled Dynamical Systems: Analysis and Applications Organizer(s): Yuri Maistrenko, Georgi Medvedev	Location C0-302
14:00-14:30	Nils Berglund (University of Orleans, France) A Group-theoretic Approach to Metastability in Networks of Interacting SDEs	Abstracts p. 58
14:30-15:00	Alessandro Torcini (Istituto Dei Sistemi Complessi, Italy) Linear Stability in Networks of Pulse-coupled Neurons	Abstracts p. 62
15:00-15:30	Jonathan H. Dawes (University of Bath, England) Localised Pattern Formation with a Nonlinear Nonlocal Term	Abstracts p. 59
15:30-16:00	Juan G. Restrepo (University of Colorado at Boulder, USA) Stabilization of Incoherence in the Disordered Hamiltonian Mean Field Model	Abstracts p. 61
16:00-16:30	Serhiy Yanchuk (Humboldt University, Germany) Dynamics of Coupled Oscillators with Plasticity	Abstracts p. 63
Special Session 16	Optimal Control and Its Applications Organizer(s): Alexander J. Zaslavski	Location C0-209
14:00-14:30	Maurizio Falcone (SAPIENZA - Universita di Roma, Italy) A Dynamic Domain Decomposition Method for Optimal Control Problems	Abstracts p. 72
14:30-15:00	Matthias Gerdts (University of the Federal Armed Forces Munich, Germany) Optimal Control of the Saint-Venant Equations Coupled to a Multibody System	Abstracts p. 72
15:00-15:30	Irena Lasiecka (University of Memphis, USA) Optimal Decay Rates for the Energy in Systems Arising in Nonlinear Mechanics with Memory Effects.	Abstracts p. 73
15:30-16:00	Hans Josef Pesch (University of Bayreuth, Germany) New Contributions to Theory and Numerics for State-Constrained Elliptic Optimal Control Problems	Abstracts p. 74
16:00-16:30	Heinz Schaettler (Washington University, USA) Sufficient Conditions for Strong Local Optimality for Multi-Input Bilinear Control Systems Arising in Cancer Chemotherapy	Abstracts p. 75

Special Session 18	Nonlinear Elliptic and Parabolic Problems Organizer(s): J. Lopez-Gomez	Location EPS5
14:00-14:30	Sze-Bi Hsu (National Tsing-Hua University, Taiwan, Taiwan) On a Reaction-diffusion System for an Unstirred Chemostat with Internal Storage	Abstracts p. 80
14:30-15:00	Matthias Hieber (TU Darmstadt, Germany) Analysis of the Ericksen-Leslie System for Liquid Crystals	Abstracts p. 80
15:00-15:30	Yoshio Yamada (Waseda University, Japan) Logistic Diffusion Equations with Nonlocal Effects in Population Biology	Abstracts p. 83
15:30-16:00	Zhifu Xie (Virginia State University, USA) Long-time Behavior and Turing Patterns in a Three Species Food Chain Model with a Holling Type-II Functional Response	Abstracts p. 83
16:00-16:30	Marcela M. Molina Meyer (Universidad Carlos III, Spain) A Collocation Spectral Method to Solve the Heterogeneous Logistic Equation in Circular Domains	Abstracts p. 81
Special Session 19	Nonautonomous Dynamics Organizer(s): Russell Johnson, Sylvia Novo, Rafael Obaya	Location EPS4
14:00-14:30	Kenneth J. Palmer (Providence University, Taiwan) Period 3 and Chaos for Unimodal Maps	Abstracts p. 88
14:30-15:00	Flaviano Battelli (Marche Polytechnic University, Italy) On the Existence of Orbits Terminating in Finite Time in Nolinear RLC Circuits	Abstracts p. 85
15:00-15:30	Christian Poetsche (Alpen-Adria University Klagenfurt, Austria) Nonautonomous Dynamics at Work: Analytical and Numerical Analysis of a Population-dynamical Model	Abstracts p. 88
15:30-16:00	Martin Rasmussen (Imperial College London, England) Bifurcations of Random Dynamical Systems	Abstracts p. 89
16:00-16:30	Vasso Anagnostopoulou (Imperial College London, England) A Model for the Nonautonomous Hopf Bifurcation	Abstracts p. 85

Special Session 21	Variational, Topological, and Set-valued Methods for Differential Problems Organizer(s): Gabriele Bonanno, Siegfried Carl, Salvatore A. Marano, Dumitru Motreanu	Location EPS8
14:00-14:30	Anna Maria Candela (University of Bari, Italy) Some Multiplicity Results for P -Laplacian Type Problems with an Asymptotically P -linear Term	Abstracts p. 94
14:30-15:00	George Smyrlis (National Technical University of Athens, Greece) Positive Solutions for Nonlinear Elliptic Equations with a Singular Term	Abstracts p. 99
15:00-15:30	Mieko Tanaka (Tokyo University of Science, Japan) Generalized Eigenvalue Problems for (p, q) -Laplacian with Indefinite Weight	Abstracts p. 100
15:30-16:00	Pasquale Candito (University of Reggio Calabria, Italy) Constant-sign Solutions for Nonlinear Discrete Problems	Abstracts p. 94
16:00-16:30	Maurizio Garrione (Università di Milano-Bicocca, Italy) A Recent Result About Existence of Periodic Solutions to the Brillouin Equation	Abstracts p. 96
Special Session 22	Modeling and Dynamic Analysis of Complex Patterns in Biological Systems and Data Organizer(s): Jianzhong Su, Qishao Lu, Miguel A. F. Sanjuan	Location C0-205
14:00-14:30	Xiaojuan Sun (Beijing University of Posts and Telecommunications, Peoples Rep of China) Effects of Time-periodic Intercoupling Strength on Burst Synchronization of a Clustered Neuronal Network	Abstracts p. 105
14:30-15:00	Nicoleta E. Tarfulea (Purdue University Calumet, USA) A Latently Infected Cell Inclusive Model for HIV Treatment with Time-varying Antiretroviral Therapy	Abstracts p. 105
15:00-15:30	Ying Wu (Xi'an Jiaotong University, Peoples Rep of China) Understanding Electromagnetic Radiation and Cortical Information Processing Through a Mathematical Framework	Abstracts p. 106
15:30-16:00	Zhuoqin Yang (Beihang University, Peoples Rep of China) Noise-induced Switching Kinetics in Multiple Interlinked Positive Feedback Loops	Abstracts p. 107
16:00-16:30	Li-Xin Yang (Xian Jiaotong University, Peoples Rep of China) The Projective Synchronizaiton of a Neural Network with Community Structure	Abstracts p. 106

Special Session 29	Stochastic and Deterministic Dynamical Systems and Applications Organizer(s): Tomas Caraballo, Maria J. Garrido-Atienza, Jose Valero, Yuncheng You	Location C0-206
14:00-14:30	Alain Miranville (Universite de Poitiers, France) Asymptotic Behavior of Variants of the Cahn-Hilliard Equation	Abstracts p. 131
14:30-15:00	Qi Zhang (Fudan University, Peoples Rep of China) Stationary Solutions of Stochastic Partial Differential Equations	Abstracts p. 133
15:00-15:30	Meihua Yang (Huazhong University of Science and Technology, Peoples Rep of China) On Uniform Attractors for Non-autonomous P-Laplacian Equation with a Dynamic Boundary Condition	Abstracts p. 133
15:30-16:00	Maurizio Grasselli (Politecnico di Milano, Italy) Nonlocal Cahn-Hilliard-Navier-Stokes Systems	Abstracts p. 130
16:00-16:30	Jianhua Huang (National University of Defense Technology, Peoples Rep of China) Well-posedness and Dynamics of Stochastic Generalized Fractional Benjamin-Ono Equation	Abstracts p. 130
Special Session 30	Discrete Dynamics and Applications Organizer(s): Eduardo Liz, Daniel Franco, Christian Pötzsche	Location C0-312
14:00-14:30	Armengol Gasull (Universitat Autonoma de Barcelona, Spain) Integrability and Non-integrability of Some Difference Equations	Abstracts p. 135
14:30-15:00	Ignacio Bajo (Universidad de Vigo, Spain) Invariant Quadrics for Certain Systems of Rational Difference Equations	Abstracts p. 134
15:00-15:30	Pawel Gora (Concordia University, Canada) Selections and Their Absolutely Continuous Invariant Measures	Abstracts p. 136
15:30-16:00	Begona Alarcon (Universidade Federal Fluminense, Brazil) Rotation Numbers for Planar Attractors of Equivariant Homeomorphisms	Abstracts p. 134
16:00-16:30	Sundus S. Zafar (Autonomous University of Barcelona, Spain) Some Linear Fractional Maps with Zero Entropy	Abstracts p. 137

Special Session 31	Variational Energy and Entropy Approaches in Non-smooth Thermomechanics Organizer(s): Elena Bonetti, Elisabetta Rocca	Location E7-105
14:00-14:30	Pierluigi Colli (University of Pavia, Italy) Optimal Control of Allen-Cahn Equations with Dynamic Boundary Conditions and Singular Potentials	Abstracts p. 139
14:30-15:00	Elisabetta Chiodaroli (Ecole Polytechnique Federale de Lausanne, Switzerland) On the Energy Dissipation Rate of Solutions to the Compressible Isentropic Euler System	Abstracts p. 139
15:00-15:30	Giulio Schimperna (University of Pavia, Italy) A Singular Heat Equation with Dynamic Boundary Conditions	Abstracts p. 141
15:30-16:00	Alain Miranville (Universite de Poitiers, France) The Penrose-Fife Phase-field System with Dynamic Boundary Conditions	Abstracts p. 140
Special Session 32	Applied Analysis and Dynamics in Engineering and Sciences Organizer(s): Thomas Hagen, Florian Rupp	Location E15-104
14:00-14:30	Jonathan Evans (University of Bath, England) Sharp Interface Models for Concrete Carbonation	Abstracts p. 142
14:30-15:00	Ioannis Giannoulis (University of Ioannina, Greece) Macroscopic Interaction of Small Amplitude-modulated 3d Water Waves	Abstracts p. 143
15:00-15:30	Christoph Walker (University of Hanover, Germany) A Free Boundary Problem for MEMS	Abstracts p. 145
15:30-16:00	Constance Schober (University of Central Florida, USA) Rogue Waves and Enhanced Downshifting in a Wind Driven Sea	Abstracts p. 145
16:00-16:30	Lorena Bociu (NC State University, USA) Optimal Control in Free Boundary Fluid-Elasticity Interactions	Abstracts p. 142

Special Session 33	Bifurcations and Asymptotic Analysis of Solutions of Non-linear Models Organizer(s): Jann-Long Chern, Yoshio Yamada, Shoji Yotsutani	Location C11-501-1
14:00-14:30	Jann-Long Chern (National Central University, Taiwan) Caffarelli-Kohn-Nirenberg Inequality with Boundary Singularities	Abstracts p. 147
14:30-15:00	Yoshitsugu Kabeya (Osaka Prefecture Univeristy, Japan) Singular Solutions to a Nonlinear Elliptic Equation on the Whole Sphere	Abstracts p. 148
15:00-15:30	Yong-Li Tang (National Central University, Taiwan) Classification and Sharp Range of Flux-pairs for Radial Solutions to a Coupled Liouville-type System	Abstracts p. 150
15:30-16:00	Kaneko Yuki (Waseda University, Japan) Free Boundary Problems Modeling the Spreading of Species in Multi-dimensional Domains	Abstracts p. 148
16:00-16:30	Hiroshi Matsuzawa (Numazu National College of Technology, Japan) Spreading Speed and Sharp Asymptotic Profiles of Solutions in Free Boundary Problems for Nonlinear Advection-diffusion Equations	Abstracts p. 148
Special Session 34	Variational Methods for Discrete and Continuous Boundary Value Problems (with Applications) Organizer(s): Antonio Iannizzotto, Giovanni Molica Bisci, Vicentiu D. Radulescu	Location C0-307
14:00-14:30	Marco Squassina (University of Verona, Italy) Existence Results for Nonlocal Problems at Critical Or Subcritical Growth	Abstracts p. 155
14:30-15:00	Eugenio Montefusco (Roma University, Italy) Some Remarks About Singularly Perturbed Elliptic Problems with Nonautonomous Nonlinearities	Abstracts p. 153
15:00-15:30	Patrick Winkert (Technische Universitaet Berlin, Germany) Parametric Nonlinear Nonhomogeneous Neumann Equations Involving a Nonhomogeneous Differential Operator	Abstracts p. 155
15:30-16:00	Eleonora Cinti (Universitá di Bologna, Italy) Phase Transitions in Almost Kähler Manifolds and Boundary Energies	Abstracts p. 152
16:00-16:30	Genni Fragnelli (University of Bari, Italy) On Anisotropic Neumann Problems with Indefinite Potential	Abstracts p. 153

Special Session 37	Global Or/and Blowup Solutions for Nonlinear Evolution Equations and Their Applications Organizer(s): Shaohua George Chen, Ming Mei	Location C0-301
14:00-14:30	To Fu Ma (ICMC - University of Sao Paulo, Brazil) Long-time Dynamics of a Thermoelastic Plate with Second Sound	Abstracts p. 166
14:30-15:00	Corrado Mascia (Sapienza University, Rome, Italy) Metastable Dynamics in Conservation Laws	Abstracts p. 166
15:00-15:30	Shinya Nishibata (Tokyo Institute of Technology, Japan) Stationary Solutions to Symmetric Hyperbolic-parabolic Systems in Half Space	Abstracts p. 166
15:30-16:00	Eylem Ozturk (Hacettepe University, Turkey) Solvability and Long Time Behavior of Nonlinear Reaction-Diffusion Equations with Robin Boundary Condition	Abstracts p. 166
16:00-16:30	Bruno Rubino (University of L'Aquila, Italy) Bohemian Type Boundary Conditions for Quantum Hydrodynamics	Abstracts p. 167
Special Session 46	Qualitative Theory of Differential Equations and Applications Organizer(s): Yi Li, Wei Feng, Xiaojie Hou	Location C0-207
14:00-14:30	Mikhail P. Kharlamov (Presidential Academy NEPA, Russia) Topological Atlases of Integrable Hamiltonian Systems	Abstracts p. 195
14:30-15:00	Yuedong Kong (Southesat University, Peoples Rep of China) Persistence of Lower Dimensional Hyperbolic Tori in Reversible System	Abstracts p. 196
15:00-15:30	Xue-Zhi Li (Xinyang Normal University, Peoples Rep of China) The Nested Method and Immuno-epidemiological Models	Abstracts p. 196
15:30-16:00	Saroj D. Panigrahi (University of Hyderabad, India) Oscillation Results for Second Order Nonlinear Neutral Differential Equations with Several Delays	Abstracts p. 196
16:00-16:30	Weihua Ruan (Purdue University Calumet, USA) Degenerate Quasilinear Parabolic Equations with Nonlinear Boundary Condition	Abstracts p. 196

Special Session 48	Sparse Optimization and Optimal Control in Dynamical Systems and PDEs Organizer(s): Massimo Fornasier, Boris Vexler	Location C16-101-1
14:00-14:30	Emmanuel Trélat (Univ. Pierre Et Marie Curie (Paris 6), France) Optimal Shape and Location of Sensors Or Actuators in PDE Models	Abstracts p. 205
14:30-15:00	Marco Caponigro (CNAM - Paris, France) Sparse Stabilization of Multi-agents Systems	Abstracts p. 203
15:00-15:30	Francesco Solombrino (Munich University of Technology, Germany) Mean Field Optimal Control	Abstracts p. 205
15:30-16:00	Benjamin Scharf (TU Munich, Germany) How to Steer High-dimensional Cucker-Smale Systems to Consensus Using Low-dimensional Information Only	Abstracts p. 204
16:00-16:30	Mattia Bongini (TU Munich, Germany) Sparse Stabilization of Dynamical Systems Driven by Attraction and Avoidance Forces	Abstracts p. 202
Special Session 50	Evolution Equations and Inclusions with Applications to Control, Mathematical Modeling and Mechanics Organizer(s): Nasir U. Ahmed, Stanislaw Migorski, Ioan I. Vrabie	Location C11-201-4
14:00-14:30	Jerzy Motyl (University of Zielona Gora, Poland) Stochastic Delay Inclusion with Carathéodory-upper Separated Multifunctions	Abstracts p. 210
14:30-15:00	Mariusz Michta (University of Zielona Gora, Poland, Poland) Weak and Strong Solutions to Stochastic Inclusions and Applications	Abstracts p. 210
15:00-15:30	Cristina Núñez García (University of Santiago de Compostela, Spain) Variational Analysis of a Diffusion-controlled Model for Describing the Surfactant Behavior at the Air-water Interface	Abstracts p. 211
15:30-16:00	Piotr Kalita (Jagiellonian University, Poland) Dynamic Viscoelastic Unilateral Contact Problem with Normal Compliance and Nonmonotone Friction	Abstracts p. 210
16:00-16:30	Thorsten Schindler (Technische Universitaet Muenchen, Germany) Consistent High-frequency Damping for Nonsmooth Flexible Multibody Systems	Abstracts p. 211

Special Session 57	Inverse Problems in PDE and Geometry Organizer(s): Daniel Faraco, Mikko Salo	Location GRIS1
14:00-14:30	Andoni Garcia (University of Jyväskylä, Finland) Reconstruction from Boundary Measurements for Less Regular Conductivities	Abstracts p. 232
14:30-15:00	Keith M. Rogers (ICMAT-CSIC, Spain) Rough Potential Recovery in the Plane	Abstracts p. 234
15:00-15:30	Henrik H. Garde (Technical University of Denmark, Denmark) Sparse Reconstruction in Partial Data Electrical Impedance Tomography	Abstracts p. 232
15:30-16:00	Miren Zubeldia (University of Helsinki, Finland) The Inverse Robin Boundary Value Problem in a Half-space	Abstracts p. 235
16:00-16:30	David Dos Santos Ferreira (Institut Élie Cartan, Université de Lorraine, France) L^p -Carleman Estimates for the Schrödinger Equation and Applications to Unique Continuation	Abstracts p. 232
Special Session 62	Mathematical Models of Cell Migration, Tumor Growth and Cancer Dynamics Organizer(s): Yangjin Kim	Location E7-101
14:00-14:30	Katarzyna A. Rejniak (Moffitt Cancer Center & Research Institute, USA) Optimizing Delivery of Therapeutic Agents in Pancreatic Tumors: a Multiscale Model	Abstracts p. 256
14:30-15:00	Peter S. Kim (University of Sydney, Australia) Modeling Effects of Viral Burst Size and Immunostimulatory Capability of Anti-cancer Virus Treatment	Abstracts p. 254
15:00-15:30	Shinji Nakaoka (RIKEN, Japan) Mathematical Modeling and Simulation of Tumor Immune Response	Abstracts p. 256
15:30-16:00	Martin R. Nelson (Nottingham Trent University, England) Biomechanical Models of the Developing Colorectal Crypt	Abstracts p. 256
16:00-16:30	Hyunji Kang (Konkuk University, Korea) Mathematical Modeling of Breast Cancer	Abstracts p. 254

Special Session 65	Kinetic Equations: Theory and Applications Organizer(s): Francesco Salvarani	Location C11-101-2
14:00-14:30	Luigi Barletti (Università degli Studi di Firenze, Italy) A Hydrodynamic Model for Electron Transport in Graphene Obtained by Entropy Maximization	Abstracts p. 264
14:30-15:00	Michael Dreher (Heriot-Watt University, Edinburgh, Scotland) The Viscous Quantum Hydrodynamic Model for Semiconductors	Abstracts p. 265
15:00-15:30	Frederique F. Charles (UPMC Paris 6, France) Kinetic Modelling and Study of a Dusty Rarefied Gas.	Abstracts p. 265
15:30-16:00	Bertrand Lods (Università di Torino, Italy) Exponential Trend to Equilibrium for Becker-Doring Equation	Abstracts p. 266
16:00-16:30	José A. Cañizo (University of Birmingham, British Virgin Islands) Duality Estimates and Applications to Reaction-diffusion Equations	Abstracts p. 265
Special Session 66	Deterministic and Stochastic Models in Biology and Medicine Organizer(s): Mostafa Adimy, Oscar Angulo, Fabien Crauste, Laurent Pujo-Menjouet	Location C11-101-1
14:00-14:30	Jinzhi Lei (Tsinghua University, Peoples Rep of China) A Mathematical Model of Adult Stem Cell Regeneration with Crosstalk Between Genetic and Epigenetic Regulation	Abstracts p. 270
14:30-15:00	Amira Kebir (Tunis University, Tunisia) Effects of Density Dependent Sex Allocation on the Dynamics of a Sequential Hermaphrodite Population: Modeling and Analysis	Abstracts p. 270
15:00-15:30	Samuel Bernard (University of Lyon, France) Dynamics of Slow Cell Renewal in Humans	Abstracts p. 268
15:30-16:00	Slimane Ben Miled (University of Tunis El Manar, Tunisia) Understanding Hermaphrodite Species Through Game Theory	Abstracts p. 268
16:00-16:30	Thomas Lepoutre (Inria and Université Lyon 1, France) Mathematical Modelling of Cell Polarization	Abstracts p. 271

Special Session 69	Lie Symmetries, Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations Organizer(s): Chaudry Masood Khalique, Maria Gandarias, Mufid Adudiab	Location C11-101-4
14:00-14:30	Gaetano Zampieri (Università di Verona, Italy) On the Structure of the Solution Set to Killing-type Equations and LRL Conservation	Abstracts p. 286
14:30-15:00	Maria S. Bruzon (University of Cadiz, Spain) Classical Symmetries and Exact Solutions for a Generalized Benjamin Equation	Abstracts p. 283
15:00-15:30	Elena E. Recio (Cadiz University, Spain) Classical Symmetries for a μ -Hunter-Saxton Equation.	Abstracts p. 285
15:30-16:00	María Rosa (Cádiz University, Spain) A Model of Malignant Gliomas Through Symmetry Reductions	Abstracts p. 285
16:00-16:30	Rehana Naz (Centre for Mathematics and Statistical Sciences Lahore School of Economics Lahore, Pakistan, Pakistan) A Hamiltonian Approach to Equations of Economics Growth Theory	Abstracts p. 285
Special Session 71	Recent Progress in Spintronics: Experiment, Theory and Simulation Organizer(s): Jingrun Chen, Carlos J. Garcia-Cervera, Xu Yang, Sookyoung Joo	Location C16-101-2
14:00-14:30	Markus G. Muenzenberg (Institute of Physics, Greifswald University, Germany) Magneto-Seebeck Effect and THz Spintronics	Abstracts p. 292
14:30-15:00	Jiang Xiao (Fudan University, Peoples Rep of China) Onsager Relations for the Thermal Transport Through FI—NM Interface	Abstracts p. 293
15:00-15:30	Hideo Sato (Center for Spintronics Integrated Systems, Tohoku University, Japan) Switching Probability of Spintronics Devices	Abstracts p. 292
15:30-16:00	Peng Yan (Delft University of Technology, Netherlands) Angular and Linear Momentum of Excited Ferromagnets	Abstracts p. 294
16:00-16:30	Aakash Pushp (IBM Almaden Research Center, USA) Giant Thermal Spin Torque Assisted Magnetic Tunnel Junction Switching	Abstracts p. 292

Special Session 72	Kinetic Models - Analysis, Computation, and Applications Organizer(s): Stephen Pankavich, Ricardo Alonso	Location C11-201-5
14:00-14:30	Sebastien Motsch (Arizona State University, USA) Kinetic Theory for Collective Displacements	Abstracts p. 297
14:30-15:00	José A. Cañizo (University of Birmingham, British Virgin Islands) Entropy Production Inequalities for the Linear Boltzmann Equation	Abstracts p. 296
15:00-15:30	Jonathan Ben-Artzi (Imperial College London, England) A Uniform Ergodic Theorem for Flows on Weighted Spaces	Abstracts p. 295
15:30-16:00	Alethea Barbaro (Case Western Reserve University, USA) Effects of Emotion on a Flocking Model	Abstracts p. 295
16:00-16:30	Mahir Hadzic (King's College London, England) Stability of Steady States in the Einstein-Vlasov System	Abstracts p. 296
Special Session 73	Entropy and Statistical Properties for Smooth Dynamics Organizer(s): Todd Fisher, Amie Wilkinson	Location C11-201-2
14:00-14:30	Vaughn Climenhaga (University of Houston, USA) Tower Constructions and Specification Properties	Abstracts p. 299
14:30-15:00	Katrin G. Gelfert (Federal University of Rio de Janeiro, Brazil) Multiple Phase Transitions in Non-hyperbolic Dynamics	Abstracts p. 299
15:00-15:30	Mike Todd (University of St Andrews, Scotland) Transience and Multifractal Analysis	Abstracts p. 301
15:30-16:00	Daniel Visscher (University of Michigan, USA) Equilibrium States for Certain Partially Hyperbolic Systems	Abstracts p. 301
16:00-16:30	Isabel I. Rios (Universidade Federal Fluminense, Brazil) Uniqueness of Equilibrium States for a Family of Partially Hyperbolic Systems	Abstracts p. 300

Special Session 76	Viscosity, Nonlinearity and Maximum Principle Organizer(s): Isabeau Birindelli, Italo Capuzzo Dolcetta, Fabiana Leoni, Antonio Vitolo	Location E15-103
14:00-14:30	Piotr Rybka (The University of Warsaw, Poland) Viscosity Solutions for Closed Curves Driven by a Singular Weighted Mean Curvature Flow	Abstracts p. 309
14:30-15:00	Giulio Galise (University of Salerno, Italy) The Extended Maximum Principle and Removable Singularities of Fully Nonlinear Second-order Elliptic Operator	Abstracts p. 308
15:00-15:30	Cristina Trombetti (University of Naples, Italy) Characterization of Ellipsoids Through an Overdetermined Boundary Value Problem of Monge-Ampère Type	Abstracts p. 310
15:30-16:00	Francoise Demengel (University of Cergy Pontoise, France) Existence of Boundary Blow Up Solutions for Singular Or Degenerate Fully Nonlinear Equations	Abstracts p. 308
Special Session 78	The Navier-Stokes Equations and Related Problems Organizer(s): S. Nečasová, R. Rautmann, W. Varnhorn	Location EPS9
14:00-14:30	Markus Bause (Helmut Schmidt University Hamburg, Germany) Higher Order Variational Space-time Approximation of Elastic Wave Propagation	Abstracts p. 315
14:30-15:00	Michael Winkler (University of Paderborn, Germany) Stabilization in a Two-dimensional Chemotaxis-Navier-Stokes System	Abstracts p. 319
15:00-15:30	Jürgen J. Saal (Heinrich-Heine-Universität Düsseldorf, Germany) Exponential Stability of Electrokinetic Flows	Abstracts p. 318
15:30-16:00	Giuseppe Mulone (University of Catania, Italy) Stability in PDEs and Fluid-dynamics: Symmetry, Optimal Lyapunov Functions and Norms	Abstracts p. 317
16:00-16:30	Ahmed Rejiba (University of Pau, France) Navier-Stokes Equations with Navier Boundary Condition	Abstracts p. 318

Special Session 81	Improving Climate and Weather Prediction Through Data-driven Statistical Modeling Organizer(s): Dimitris Giannakis, John Harlim	Location C0-204
14:00-14:30	John Harlim (The Pennsylvania State University, USA) Linear Theory for Filtering Nonlinear Multiscale Systems with Model Error	Abstracts p. 325
14:30-15:00	Michał Branicki (Department of Mathematics, University of Edinburgh, Scotland) Multi Model Mixture Density Estimators & Information Theory for Stochastic Filtering and Prediction	Abstracts p. 325
15:00-15:30	Kody Law (KAUST, Saudi Arabia) Deterministic Filtering of Discretely Observed SDE	Abstracts p. 326
15:30-16:00	Daniela Calvetti (CWRU, USA) Sequential Monte Carlo Parameter Estimation for Dynamical Systems	Abstracts p. 325
Special Session 82	Celestial Mechanics Organizer(s): Marian Gidea, Tere Seara	Location E7-203
14:00-14:30	Mark Levi (Penn State, USA) Some Dynamical Consequences of Tidal Effects.	Abstracts p. 330
14:30-15:00	Albert Granados (Inria, France) The Scattering Map in a Piecewise-smooth Mechanical System	Abstracts p. 329
15:00-15:30	Piotr Kamieński (Jagiellonian University, Poland) A Finite Information KAM Theorem	Abstracts p. 330
15:30-16:00	Pau Martin (Universitat Politècnica de Catalunya, Spain) Oscillatory Motions in the Restricted and Non Restricted Three Body Problem	Abstracts p. 330
16:00-16:30	Giuseppe Pucacco (Tor Vergata University, Italy) Analytical Investigation of the Dynamics Around the Collinear Points	Abstracts p. 331

Special Session 85	Transport Processes in Biology: Modelling and Analysis Organizer(s): Jozsef Farkas, Mariya Ptashnyk	Location C16-101-6
14:00-14:30	Jacek J. Banasiak (University of KwaZulu-Natal, So Africa) Singularly Perturbed Transport and Diffusion Systems on Network and State Lumping	Abstracts p. 338
14:30-15:00	Miguel M. Pineda (university of Dundee, Scotland) A Model for Pattern Formation in Dictyostelium Discoideum Slug Migration: the Double-negative Feedback Mechanism	Abstracts p. 340
15:00-15:30	Tommaso Lorenzi (Laboratoire J.-L. Lions, UPMC, France) Effects of Space Structure and Combination Therapies on Phenotypic Heterogeneity and Drug Resistance in Solid Tumors	Abstracts p. 340
15:30-16:00	Marco Morandotti (Instituto Superior Técnico, Portugal) Analysis and Simulation of a One-dimensional Swimmer	Abstracts p. 340
16:00-16:30	Mariya Ptashnyk (University of Dundee, Scotland) Stochastic Homogenization of the One-dimensional Keller-Segel Chemotaxis System	Abstracts p. 340
Special Session 87	Evolution Equations and Integrable Systems Organizer(s): Alex Himonas, Gerson Petronilho	Location C16-101-3
14:00-14:30	Jonatan Lenells (Baylor University, USA) Matrix Riemann-Hilbert Problems with Jumps Across Carleson Contours	Abstracts p. 347
14:30-15:00	Dionyssios Mantzavinos (University of Notre Dame, USA) Initial-boundary Value Problems for Certain Evolution Equations	Abstracts p. 347
15:00-15:30	Natalie E. Sheils (University of Washington, USA) Vector Nonlinear Schrödinger Equation: Global Existence and Spectral Stability	Abstracts p. 347
15:30-16:00	Luiz Gustavo Farah (UFMG, Brazil) Global Well-posedness and Blow-up for the L^2 -supercritical and H^1 -subcritical Inhomogeneous Nonlinear Schrödinger Equation	Abstracts p. 346
16:00-16:30	Raphaël Danchin (Université Paris-Est Créteil, France) A Lagrangian Approach for Navier-Stokes Equations in Critical Spaces	Abstracts p. 346

Special Session 91	Variational Methods for Evolution Equations Organizer(s): Ulisse Stefanelli, Goro Akagi	Location E16-102
14:00-14:30	Riccarda Rossi (Università degli Studi di Brescia, Italy) Singular Perturbations of Infinite-dimensional Gradient Flows	Abstracts p. 363
14:30-15:00	Takeshi Fukao (Kyoto University of Education, Japan) Singular Limit of Allen-Cahn Equation with Constraint and Its Lagrange Multiplier	Abstracts p. 361
15:00-15:30	Antonio A. Segatti (University of Pavia, Italy) Some Results on a Variational Model for Nematic Shells-Part A	Abstracts p. 363
15:30-16:00	Marco Veneroni (University of Pavia, Italy) Some Results on a Variational Model for Nematic Shells - Part B	Abstracts p. 364
16:00-16:30	Mark A. Peletier (TU Eindhoven, Netherlands) Large Deviations, Gradient Flows, and Taking Limits	Abstracts p. 362
Special Session 92	Analysis and Computation of Nonlinear Systems of the Mixed Type Organizer(s): Zhaosheng Feng	Location E15-102
14:00-14:30	Zengji Du (Jiangsu Normal University, Peoples Rep of China) Existence and Asymptotic Behavior of Traveling Waves in a Modified Vector-disease Model	Abstracts p. 365
14:30-15:00	Taiyong Chen (China University of Mining and Technology, Peoples Rep of China) Boundary Value Problems for Fractional P-Laplacian Equation	Abstracts p. 365
15:00-15:30	Kanadpriya Basu (The University of Texas at El Paso, USA) Some Interpolating Techniques and Non-parametric Regression Methods for Geophysical and Financial Data Analysis	Abstracts p. 365

Special Session 95	Modeling the Spread and Control of Infectious Diseases Organizer(s): Tufail Malik, Abba Gumel	Location E16-103
14:00-14:30	Karen R. Ríos-Soto (University of Puerto Rico Mayaguez, USA) Estimation of Transmission Rates of Dengue Fever in Puerto Rico for the Years 2010-2012 Via a Mathematical Epidemiological Model with Seasonality	Abstracts p. 375
14:30-15:00	Salisu S. Garba (University of Pretoria, So Africa) Dynamics of Bovine Tuberculosis in African Buffalo Population	Abstracts p. 373
15:00-15:30	Katharine Gurski (Howard University, USA) The Influence of Sexual Orientation on the Spread of HIV: a Five Population Mathematical Model	Abstracts p. 373
15:30-16:00	Antonio Mastroberardino (Penn State Erie, USA) Mathematical Modeling of the HIV/AIDS Epidemic in Cuba	Abstracts p. 374
16:00-16:30	Haiyan Wang (Arizona State University, USA) Spatio-temporal Modeling of Health Information in Social Media and Application in Control of Influenza	Abstracts p. 375
Special Session 96	Geometric Variational Problems with Associated Stability Estimates Organizer(s): Mouhamed Moustapha Fall	Location E7-104
14:00-14:30	Paul Laurain (institut Mathématique de Jussieu, Paris 7, France) Constant Mean Surfaces with Boundary	Abstracts p. 377
14:30-15:00	Diaraf Seck (Universite Cheikh Anta Diop, Senegal) Geometrical Properties in Shape Optimization	Abstracts p. 378
15:00-15:30	Stefan Steinerberger (Yale University, USA) A Geometric Uncertainty Principle and Applications	Abstracts p. 379
15:30-16:00	Nicola Soave (Justus Liebig University of Giessen, Italy) Liouville-type Theorems and 1-dimensional Symmetry for Solutions of Competitive Systems with Several Components	Abstracts p. 378
16:00-16:30	Ana Hurtado (University of Granada, Spain) Comparison Results for Capacity	Abstracts p. 377

Special Session 97	Analysis and Control of Nonlinear Partial Differential Equation Evolution Systems Organizer(s): George Avalos, Lorena Bociu, Francesca Bucci	Location C11-201-3
14:00-14:30	Marcelo M. Cavalcanti (State University of Maringa, Brazil) Asymptotic Stability for the Schrodinger Equation on Non Compact Riemannian Manifolds and Exterior Domains	Abstracts p. 380
14:30-15:00	Enzo Vitillaro (Università degli Studi di Perugia, Italy) Blow-up for the Wave Equation with Nonlinear Source and Boundary Damping Terms	Abstracts p. 383
15:00-15:30	Matthias Eller (Georgetown University, USA) Hyperbolic Boundary Problems with Non-traditional Boundary Conditions	Abstracts p. 381
15:30-16:00	Valeria N. Domingos Cavalcanti (State University of Maringa, Brazil) Intrinsic Decay Rate Estimates for the Wave Equation with Competing Viscoelastic and Frictional Dissipative Effects	Abstracts p. 380
16:00-16:30	Milena Stanislavova (University of Kansas, USA) On the Spectral Stability of Kinks in Pt -symmetric Klein-gordon Type Models	Abstracts p. 382
Special Session 105	Geometric Mechanics Organizer(s): Hernan Cendra, Darryl Holm, David Martin de Diego, Juan-Pablo Ortega	Location NARANJA
14:00-14:30	Tudor S. Ratiu (Ecole Polytechnique Federale de Lausanne, Switzerland) The Flaschka Transformation	Abstracts p. 413
14:30-15:00	Cornelia Vizman (West University of Timisoara, Romania) Coadjoint Orbits of the Hamiltonian Group Via Symplectic Reduction of the Ideal Fluid Dual Pair	Abstracts p. 414
15:00-15:30	Edith Fernandez (University of La Laguna, Spain) Reduction of Symplectic Lie Algebroids	Abstracts p. 412
15:30-16:00	Jaap Eldering (Imperial College London, England) Walking As a Limit Cycle Through Symmetry Reduction	Abstracts p. 409
16:00-16:30	Lyudmila Grigoryeva (Université de Franche-Comté, France) Stability of Hamiltonian Relative Equilibria in Symmetric Magnetically Confined Rigid Bodies: Orbitrons, Levitrons, and Generalizations	Abstracts p. 409

Special Session 109	Stochastic Partial Differential Equations Organizer(s): Michael Rockner	Location E7-102
14:00-14:30	Bohdan Maslowski (Charles University in Prague, Czech Rep) Stochastic PDEs with Gaussian Volterra Noise	Abstracts p. 423
14:30-15:00	Annie Millet (University Paris 1, France) On the Stochastic Cahn-Hilliard/Allen-Cahn Equation with a Sublinear Diffusion Coefficient	Abstracts p. 423
15:00-15:30	Zdzislaw Brzezniak (University of York, England) Quasipotential and Exit Time for 2D Stochastic Navier-Stokes Equations Driven by Space Time White Noise	Abstracts p. 421
15:30-16:00	Sandra Cerrai (University of Maryland, USA) On the Smoluchowski-Kramers Approximation	Abstracts p. 421
16:00-16:30	Boris L. Rozovsky (Brown University, USA) Nonparametric Wick-Malliavin Approximations for Stochastic PDEs	Abstracts p. 423
Special Session 110	Nonlinear Schrodinger Equations and Its Applications Organizer(s): Panayotis Kevrekidis, Ricardo Carretero	Location E7-201
14:00-14:30	Christopher Chong (University of Massachusetts, Amherst, USA) Justification of Leading Order Quasicontinuum Approximations of Strongly Nonlinear Lattices	Abstracts p. 425
14:30-15:00	Tiziano Penati (Department of Mathematics, Italy) A GdNLS Model As an Extensive Resonant Normal Form for a Klein-Gordon Chain and Applications.	Abstracts p. 428
15:00-15:30	Vladimir Konotop (University of Lisbon, Portugal) Gap Solitons in the Spin-orbit Coupled Bose-Einstein Condensates	Abstracts p. 426
15:30-16:00	Dmitry Zezyulin (University of Lisbon, Portugal) Nonlinear Modes in a Generalized PT-symmetric Discrete Nonlinear Schrödinger Equation	Abstracts p. 429
16:00-16:30	Dmitry Pelinovsky (McMaster University, Canada) Thomas-Fermi Approximation in PT-symmetric Potentials	Abstracts p. 427

Special Session 113	Normal Forms and Molecules in Motion Through Phase Space Bottlenecks Organizer(s): Florentino Borondo, Rosa Maria Benito, Fabio Revuelta	Location E16-101
14:00-14:30	Thomas Bartsch (Loughborough University, England) Transition States and Reaction Rates in Driven Systems	Abstracts p. 437
14:30-15:00	J. Pablo Salas (Universidad de La Rioja, Spain) The Loss of the Bottleneck Property in High Energy Chemical Reactions	Abstracts p. 439
15:00-15:30	Henar Hernández (Universidad Politécnica de Madrid, Spain) Transition State Theory in the Molecular System LiNC/LiCN Perturbed by a Laser Pulse	Abstracts p. 437
15:30-16:00	Daniel Blazevski (ETH Zurich, Institute for Mechanical Systems, Switzerland) An Exact Description of Invariant Manifolds for Laser-driven Reactions Via Classical Scattering Theory	Abstracts p. 437
16:00-16:30	Angel Jorba (University of Barcelona, Spain) Jet Transport and Normal Forms	Abstracts p. 438
Special Session 118	Transport Barriers in Unsteady Fluid Flows Organizer(s): Sanjeeva Balasuriya, Kathrin Padberg-Gehle, Wenbo Tang	Location C11-201-1
14:00-14:30	Francisco Beron-Vera (RSMAS, University of Miami, USA) Oceanic Applications of Geodesic LCS Theory	Abstracts p. 457
14:30-15:00	Maria J. Olascoaga (RSMAS - U. Miami, USA) Inertial Particle Dynamics in the Ocean	Abstracts p. 459
15:00-15:30	Ana M. Mancho (ICMAT, CSIC, Spain) Lagrangian Descriptors in Geophysical Flows	Abstracts p. 459
15:30-16:00	Francesco D'Ovidio (CNRS/LOCEAN-IPSL, France) Lagrangian Coherent Structures As Ecological Hotspots in the Open Ocean	Abstracts p. 457
16:00-16:30	Emilio Hernandez-Garcia (ifisc (CSIC-University of the Balearic Islands), Spain) Stretching Fields in the Ocean from Finite-size Lyapunov Exponents: Biological Impacts of Fluid Transport	Abstracts p. 458

Special Session 120	Linear and Nonlinear Fourth Order PDE's Organizer(s): Jan Cholewa, Filippo Gazzola, Anibal Rodriguez-Bernal	Location C16-101-5
14:00-14:30	Futoshi Takahashi (Osaka City University, Japan) Local Asymptotic Nondegeneracy for Multi-bubble Solutions to the Biharmonic Liouville-Gel'fand Problem in Dimension Four	Abstracts p. 468
14:30-15:00	Filippo Gazzola (Politecnico di Milano, Italy) Quasilinear Fourth Order Elliptic Equations Modeling Suspension Bridges	Abstracts p. 466
15:00-15:30	Paolo Caldiroli (Università di Torino, Italy) Entire Solutions for a Class of Fourth Order Semilinear Elliptic Equations with Weights	Abstracts p. 465
15:30-16:00	Alberto A. Ferrero (Università degli Studi del Piemonte Orientale, Italy) Existence and Stability Properties of Entire Solutions to a Polyharmonic Equation with Exponential Nonlinearity	Abstracts p. 466
16:00-16:30	Pier Domenico Lamberti (University of Padova, Italy) Reissner Mindlin System and Biharmonic Equation: a Spectral Shape Sensitivity Analysis	Abstracts p. 467
Special Session 122	Dynamics of Networks in Biology and Chemistry Organizer(s): Bernold Fiedler, Atsushi Mochizuki	Location C16-101-4
14:00-14:30	Eckehard Schöll (TU Berlin, Germany) Amplitude Death in Dynamical Networks with Time-varying Delay	Abstracts p. 473
14:30-15:00	Hayato Chiba (Kyushu University, Japan) A Spectral Theory of Linear Operators on a Gelfand Triplet and Its Application to the Dynamics of Coupled Oscillators	Abstracts p. 472
15:00-15:30	Fatihtcan M. Atay (Max Planck Institute for Mathematics in the Sciences, Germany) Signed Graphs and Network Motifs	Abstracts p. 472
15:30-16:00	Jun-Nosuke Teramae (Osaka University, Japan) Origin and Computational Roles of Intrinsic Heterogeneity and Spontaneous Fluctuation in Cortical Networks	Abstracts p. 474
16:00-16:30	Jeroen S. Lamb (Imperial College London, England) Dynamics of Coupled Maps in Heterogeneous Random Networks	Abstracts p. 473

Special Session 123	Fractals Organizer(s): Raffaela Capitanelli, Uta Freiberg	Location E7-202
14:00-14:30	Thibaut Deheuvels (Ecole Normale Supérieure de Rennes, France) Trace and Extension Results for a Class of Ramified Domains with Fractal Self-similar Boundary	Abstracts p. 475
14:30-15:00	Saurabh Katiyar (Indian Institute of Technology Madras, Chennai, India) Hidden Variable Fractal Functions and Its Monotonicity Aspects	Abstracts p. 476
15:00-15:30	Maria Rosaria M. Lancia (Sapienza Università di Roma, Italy) Ventsell Problems in Fractal Domains	Abstracts p. 476
15:30-16:00	Michel L. Lapidus (University of California, Riverside, USA) Analysis, Dirac Operators and Geodesic Metrics on Fractal Manifolds, Via Noncommutative Geometry	Abstracts p. 476
16:00-16:30	Roberto Peirone (Università di Roma Tor Vergata, Dipartimento di Matematica, Italy) Existence and Uniqueness of Self-Similar Energies on Finitely Ramified Fractals	Abstracts p. 477
Special Session 125	Abstract Differential Equations and Related Topics Organizer(s): Toka Diagana, Claudio Cuevas, Juan J. Nieto	Location E16-106
14:00-14:30	Hugo Leiva (Universidad de Los Andes, Venezuela) Relative Asymptotic Equivalence Between Evolution Difference Equations	Abstracts p. 482
14:30-15:00	Juan J. Nieto (University of Santiago de Compostela, Spain) Fractional Differential Equations with Uncertainty	Abstracts p. 482
15:00-15:30	Ciprian Preda (West University of Timisoara, Romania) A Discrete-time Approach for the Asymptotic Behavior of an Exponentially Bounded Cocycle	Abstracts p. 482
15:30-16:00	Giovana Siracusa (UFS, Brazil) On Abstract Integro-differential Equations with State Dependent Delay	Abstracts p. 483
16:00-16:30	Arlucio Viana (Universidade Federal de Sergipe, Brazil) Abstract Integrodifferential Equations in Interpolation Spaces	Abstracts p. 483

Contributed Session 1	ODEs and Applications Chair(s): Jan Philipp Pade	Location E7-103
14:00-14:20	Jan Philipp Pade (HU Berlin, Germany) More Is Less: Improving Connections Leads to Network Failure	Abstracts p. 501
14:20-14:40	Angelamaria Cardone (University of Salerno, Italy) Implicit-Explicit Multivalue Methods for Semi-discretized PDEs	Abstracts p. 496
14:40-15:00	F. Adrian F. Tojo (Universidade de Santiago de Compostela, Spain) Invertibility of Problems with Reflection: Reducing and Solving the Problem	Abstracts p. 497
15:00-15:30	Eleonora Messina (University of Napoli “Federico II”, Italy) Numerical Simulation of a SIS Epidemic Model Based on a Nonlinear Volterra Integral Equation	Abstracts p. 500
15:30-15:50	Dan Tiba (Institute of Mathematics, Bucharest, Romania) A Differential Equations Approach to Implicit Systems in Arbitrary Dimension	Abstracts p. 503
15:50-16:10	Lavinia Roncoroni (Max Planck Institut, Germany) Lumpability of Differential Equations on Banach Spaces	Abstracts p. 502

Contributed Session 6	PDEs and Applications Chair(s): Alexandra de Cecco	Location E16-105
14:00-14:20	Jeongwhan Choi (Korea University, Korea) Steady Gravity-Capillary Surface Waves Over a Bump – Critical Surface Tension Case	Abstracts p. 518
14:20-14:40	Alexandra de Cecco (ONERA Toulouse, France) Fluid Modeling of Aircraft Networks	Abstracts p. 518
14:40-15:00	Gia A. Avalishvili (I. Javakhishvili Tbilisi State University, Rep of Georgia) On Construction and Investigation of Dynamical Models for Elastic Multi-structures	Abstracts p. 516
15:00-15:30	Juliana Pimentel (University of Lisbon, Portugal) A Permutation Encoding the Connecting Orbit Structure of Slowly Non-dissipative Systems	Abstracts p. 524
15:30-15:50	Kim Tuan Vu (University of West Georgia, USA) Determination of Heat Processes from Measurements at a Single Point	Abstracts p. 529
15:50-16:10	Xizheng Zhang (Loughborough University, England) Cylindrical Korteweg-de Vries (cKdV) Type Equation for Stratified Fluid Over a Shear Flow	Abstracts p. 530
16:10-16:30	Kyoko Tomoeda (Setsunan University, Japan) Linearized Problem for Viscous Free Surface Flow	Abstracts p. 528
Competition Session	Student Paper Competition Chair(s): Michael Freeze, Wei Feng	Location EPS10
14:00-14:30	Vladimir Bobkov (University of Rostock, Germany) On Maximum and Comparison Principles for Parabolic Problems with p -Laplacian	Abstracts p. 542
14:30-15:00	Piotr Kamienski (Jagiellonian University, Poland) A Finite Information KAM Theorem	Abstracts p. 542
15:00-15:30	Priscila Leal da Silva (Centro de Matemática, Computação e Cognição, CMCC, UFABC, Brazil) Strict Self-Adjointness and Shallow Water Models	Abstracts p. 542
15:30-16:00	Ye Li (Tsinghua University, China) An Equation Decomposition Based Tailored Finite Point Method for Linearized Incompressible Flow in 2D Space	Abstracts p. 542
16:00-16:30	Catalina Llompart Vich (University of Balearic Islands, Spain) Slow-Fast n -Dimensional Piecewise Linear Differential Systems	Abstracts p. 543

Parallel Session 4

Tuesday, July 8

17:00 – 19:30

Special Session 1	Mathematical Aspects of Fluid Dynamics Organizer(s): Angel Castro, Diego Cordoba, Charles Fefferman, Francisco Gancedo	Location ROJA
17:00-17:30	Roman Shvydkoy (University of Illinois at Chicago, USA) Self-similar Blow-up for the Euler Equation	Abstracts p. 9
17:30-18:00	Thomas Alazard (Ecole Normale Supérieure, Paris, France) Global Solutions for Gravity Water Waves	Abstracts p. 7
18:00-18:30	Victor D. Lie (Purdue University, USA) On the Absence of "splash" Singularities in the Case of Two-fluid Interfaces	Abstracts p. 8
18:30-19:00	Sinisa Slijepcevic (University of Zagreb, Croatia) Uniform Boundedness and Long-time Asymptotics for the Two-dimensional Navier-Stokes Equations in an Infinite Cylinder	Abstracts p. 9
Special Session 4	Delay Equations Applied to Population Dynamics Organizer(s): Philipp Getto, Gergely Rost, Julia Sanchez	Location C11-101-3
17:00-17:30	Jianhong Wu (York University, Canada) Abstract Algebraic-delay Differential Systems and Age Structured Population Dynamics	Abstracts p. 23
17:30-18:00	Gergely Röst (University of Szeged, Hungary) Global Dynamics of Delay Differential Equations with Mixed Feedback	Abstracts p. 23
18:00-18:30	Dimitri Breda (University of Udine, Italy) Numerical Analysis for Eigenvalues of Structured Population Dynamics: the Daphnia Model	Abstracts p. 20
18:30-19:00	István Győri (University of Pannonia, Hungary) Long Time Behavior of the Solutions of Population Models with Delays	Abstracts p. 21
19:00-19:30	Laurent PUJO-menjouet (University of Lyon, France) A Model of Platelet Production: Stability Analysis and Oscillations	Abstracts p. 22

Special Session 8	Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations from Mathematical Science Organizer(s): Danielle Hilhorst, Yoshihisa Morita	Location EPS7
17:00-17:30	Amy Novick-Cohen (Technion IIT, Israel) The Deep Quench Obstacle Problem	Abstracts p. 38
17:30-18:00	Marita Thomas (WIAS Berlin, Germany) Thermomechanical Modeling of Dissipative Processes in Elastic Media Via Energy and Entropy	Abstracts p. 40
18:00-18:30	Mariya Ptashnyk (University of Dundee, Scotland) Hopf Bifurcation in a Gene Regulatory Network Model: Molecular Movement Causes Oscillations	Abstracts p. 38
18:30-19:00	Sina Reichelt (WIAS Berlin, Germany) Two-scale Homogenization of Reaction-diffusion Systems with Small Diffusion	Abstracts p. 39
19:00-19:30	Elaine Crooks (Swansea University, Wales) Fast-reaction Limits for Some Reaction-diffusion Systems on Unbounded Domains	Abstracts p. 36
Special Session 13	Nonlocally Coupled Dynamical Systems: Analysis and Applications Organizer(s): Yuri Maistrenko, Georgi Medvedev	Location C0-302
17:00-17:30	Stefano Ruffo (Florence University, Italy) Linear Response Theory for Quasi-stationary States in Long-range Systems	Abstracts p. 62
17:30-18:00	Hilda A. Cerdeira (Instituto de Fisica Teorica - UNESP, Brazil) Multistable Behavior Above Synchronization in a Locally Coupled Kuramoto Model	Abstracts p. 59
18:00-18:30	Fatihtcan M. Atay (Max Planck Institute for Mathematics in the Sciences, Germany) Delayed Coupling and Spatio-temporal Patterns in Networks	Abstracts p. 58
18:30-19:00	Xuezhi Tang (Drexel University, USA) Synchronization in Coupled Dynamical Systems on Quasirandom Graphs	Abstracts p. 540

Special Session 15	Geometric and Variational Techniques in the N-body Problem Organizer(s): Vivina L. Barutello, Alessandro Portaluri	Location C11-201-2
17:00-17:30	Alain Albouy (Observatoire de Paris, CNRS, France) A New Integrable Extension of the 2 Fixed Centre Problem	Abstracts p. 68
17:30-18:00	Giovanni Federico Gronchi (Università di Pisa, Italy) Periodic and Chaotic Motions in the N-body Problem with Non-Newtonian Forces	Abstracts p. 68
18:00-18:30	Davide L. Ferrario (University of Milano-Bicocca, Uruguay) Fixed Point Indices of Central Configurations	Abstracts p. 68
18:30-19:00	Alessandro A. Portaluri (University of Turin, Italy) Index Theory in Celestial Mechanics: Recent Results and New Perspectives	Abstracts p. 70
19:00-19:30	Roberto Castelli (VU University Amsterdam, Netherlands) Non Collision Periodic Solutions for the Planar N-center Problem with Mild Topological Assumptions	Abstracts p. 68
Special Session 16	Optimal Control and Its Applications Organizer(s): Alexander J. Zaslavski	Location C0-209
17:00-17:30	Ellina Grigorieva (Texas Woman's University, USA) Optimal Epidemic Control at Changing Population Size	Abstracts p. 72
17:30-18:00	Carlo Mariconda (Università di Padova, Italy) Lavrentiev Phenomenon: Its Non Occurrence for Some Multidimensional Scalar Problems of the Calculus of Variations	Abstracts p. 74
18:00-18:30	Laurent Pfeiffer (Graz University, Austria) Sufficient Second-order Optimality Conditions for Optimal Control Problems	Abstracts p. 74
18:30-19:00	Maria Do Rosario de Pinho (Universidade Do Porto, Portugal) On Nonsmooth Maximum Principles for Problems with State and Mixed Constraints	Abstracts p. 71
19:00-19:30	Geraldo N. Silva (UNESP - Univ Estadual Paulista, Brazil) Consistent Approximations of Impulsive Optimal Control Problems	Abstracts p. 75

Special Session 18	Nonlinear Elliptic and Parabolic Problems Organizer(s): J. Lopez-Gomez	Location EPS5
17:00-17:30	Kenichiro Umezu (Ibaraki University, Japan) The Effect of a Nonlinear Boundary Condition with an Indefinite Weight on the Positive Solution Set of the Logistic Elliptic Equation	Abstracts p. 83
17:30-18:00	Santiago S. Cano-Casanova (Universidad Pontificia Comillas, Spain) Positive Solutions for Logistic Problems with Spatial Heterogeneities, Nonlinear Mixed Boundary Conditions and a Bifurcation Parameter on the Boundary Conditions	Abstracts p. 79
18:00-18:30	Yong-Hoon Lee (Pusan National University, Korea) Some Existence Results of Solutions for φ -Laplacian Systems	Abstracts p. 80
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17:30-18:00	Delia Ionescu-Kruse (Institute of Mathematics of the Romanian Academy, Romania) A New Two-component System Modelling Shallow-water Waves	Abstracts p. 381
18:00-18:30	George Avalos (University of Nebraska-Lincoln, USA) A Mixed Variational Formulation for the Wellposedness and Numerical Analysis of a Certain Fluid-Structure PDE System	Abstracts p. 380

Special Session 105	Geometric Mechanics Organizer(s): Hernan Cendra, Darryl Holm, David Martin de Diego, Juan-Pablo Ortega	Location NARANJA
17:00-17:30	Melvin Leok (University of California, San Diego, USA) Space-Time Finite-Element Exterior Calculus and Variational Discretizations of Gauge Field Theories Presentation	Abstracts p. 411
17:30-18:00	Cédric M. C. Campos (Imuva) (Inst. Matemáticas UVA), Spain) Higher Order Variational Integrators: the Galerkin Method	Abstracts p. 407
18:00-18:30	Dmitry Pavlov (Imperial College London, England) A Matrix-based Framework to Structure-preserving Discretization of Continuum Theories	Abstracts p. 412
18:30-19:00	Tomasz M. Tyranowski (Imperial College, England) Variational Partitioned Runge-Kutta Methods for Lagrangians Linear in Velocities	Abstracts p. 413
19:00-19:30	Pedro Luis García (Universidad de Salamanca y Real Academia de Ciencias, Spain) Hamiltonian Reduction of the Midpoint Discretization for Optimal Control Problems	Abstracts p. 409
Special Session 109	Stochastic Partial Differential Equations Organizer(s): Michael Rockner	Location E7-102
17:00-17:30	Michael Scheutzow (TU Berlin, Germany) Generalized Asymptotic Couplings and Convergence of Transition Probabilities	Abstracts p. 424
17:30-18:00	Mark Veraar (TU Delft, Netherlands) A New Approach to Stochastic Evolution Equations with Adapted Drift	Abstracts p. 424
18:00-18:30	Benjamin Gess (University of Chicago, USA) Finite Time Extinction for Stochastic Sign Fast Diffusion and Self-organized Criticality	Abstracts p. 421
18:30-19:00	Rongchan Zhu (Beijing Institute of Technology, Peoples Rep of China) Existence and Uniqueness of Solutions to Stochastic Functional Differential Equations in Infinite Dimensions	Abstracts p. 424
19:00-19:30	Wei Liu (Jiangsu Normal University, Peoples Rep of China) Well-posedness and Long Time Asymptotics of SPDE	Abstracts p. 423

Special Session 110	Nonlinear Schrodinger Equations and Its Applications Organizer(s): Panayotis Kevrekidis, Ricardo Carretero	Location E7-201
17:00-17:30	Vassilis M. Rothos (Aristotle University of Thessaloniki, Greece) Cubic-Quintic Long-Range Interactions with Double Well Potentials	Abstracts p. 428
17:30-18:00	Vassilis Koukouloyannis (University of Thessaloniki, Greece) Dynamics and Chaotic Behavior of Three Non-co-rotating Vortices in a Confined Bose-Einstein Condensate	Abstracts p. 426
18:00-18:30	Michail Todorov (Technical University of Sofia, Bulgaria) Multisoliton Interactions for the Manakov System Under Composite External Potentials	Abstracts p. 428
18:30-19:00	Xuezhu Lu (Southeast University, Peoples Rep of China) Quasi-periodic Solutions of Quasi-periodically Forced Nonlinear Schrodinger Equations with a Given Potential	Abstracts p. 427
Special Session 111	Computational Dynamics in Hamiltonian and Dissipative Systems Organizer(s): Fernando Blesa, Sergio Serrano, Arturo Vieiro	Location E16-106
17:00-17:30	Alejandro Luque (Universitat de Barcelona, Spain) Numerical Continuation of Invariant Tori Using Averaging-extrapolation Methods	Abstracts p. 431
17:30-18:00	Flora Sayas (Universidad Publica de Navarra, Spain) Flow Reconstruction and Invariant Tori in the Spatial Three-body Problem	Abstracts p. 432
18:00-18:30	Ariadna A. Farrés (Universitat de Barcelona, Spain) On the Dynamics of the Augmented Hill 3 Body Problem	Abstracts p. 431
18:30-19:00	Chris Antonopoulos (University of Aberdeen/ICSMB, England) Production and Transfer of Energy and Information in Hamiltonian Systems	Abstracts p. 430
19:00-19:30	Juan Sanchez Umbria (Universitat PolitÈcnica de Catalunya, Spain) Continuation of Bifurcations of Periodic Orbits of Dissipative PDEs.	Abstracts p. 432

Special Session 118	Transport Barriers in Unsteady Fluid Flows Organizer(s): Sanjeeva Balasuriya, Kathrin Padberg-Gehle, Wenbo Tang	Location C11-201-1
17:00-17:30	Michel Speetjens (Eindhoven University of Technology, Netherlands) Lagrangian Transport in Three-dimensional Unsteady Flows	Abstracts p. 460
17:30-18:00	Nicholas T. Ouellette (Yale University, USA) Coherence Via Lagrangian Averaging	Abstracts p. 459
18:00-18:30	Jeroen S. Lamb (Imperial College London, England) Bifurcations of Set-valued Dynamical Systems	Abstracts p. 458
18:30-19:00	Kathrin Padberg-Gehle (TU Dresden, Germany) On the Time-evolution of Finite-time Coherent Sets	Abstracts p. 459
19:00-19:30	Daniel Karrasch (ETH Zürich, Switzerland) Attraction-based Computation of Hyperbolic Geodesic LCS	Abstracts p. 458
Special Session 120	Linear and Nonlinear Fourth Order PDE's Organizer(s): Jan Cholewa, Filippo Gazzola, Anibal Rodriguez-Bernal	Location C16-101-5
17:00-17:30	Salomón S. Alarcón (Universidad Técnica Federico Santa María, Chile) A Paneitz-type Problem in Pierced Domain	Abstracts p. 465
17:30-18:00	Alexander A. Kovalevsky (Institute of Applied Mathematics and Mechanics, Ukraine) Proper Entropy Solutions for Nonlinear Elliptic Fourth-order Equations with a Strengthened Coercivity and L^1 -data	Abstracts p. 467
18:00-18:30	Mario Bukal (University of Zagreb, Croatia) Quantum Diffusion Equations	Abstracts p. 465
18:30-19:00	Yongda Wang (Politecnico di Milano, Italy) Remarks on a Class of Fourth Order Hyperbolic Partial Differential Equations	Abstracts p. 468

Special Session 122	Dynamics of Networks in Biology and Chemistry Organizer(s): Berndold Fiedler, Atsushi Mochizuki	Location C16-101-4
17:00-17:30	Hiroshi Matano (University of Tokyo, Japan) Spreading Speed for Some Two-component Reaction-diffusion System	Abstracts p. 473
17:30-18:00	Matthias Wolfrum (WIAS Berlin, Germany) The Turing Bifurcation in Network Systems: Snaking Branches of Localized Patterns	Abstracts p. 474
18:00-18:30	Reiner Lauterbach (University of Hamburg/Department of Mathematics, Germany) Genericity and Bifurcations in Regular Networks	Abstracts p. 473
18:30-19:00	Romain Joly (Institut Fourier (Grenoble), France) Observability and Hyperbolicity in Coupled Cells Networks	Abstracts p. 472
19:00-19:30	Atsushi Mochizuki (RIKEN, Japan) Dynamics of Complex Biological Systems Determined/controlled by Minimal Subsets of Molecules in Regulatory Networks	Abstracts p. 473
Special Session 123	Fractals Organizer(s): Raffaela Capitanelli, Uta Freiberg	Location E7-202
17:00-17:30	Ronen Peretz (Ben Gurion University, Israel) Fractals and the Jacobian Conjecture	Abstracts p. 477
17:30-18:00	Maria Agostina Vivaldi (Dipartimento di Scienze di Base e Applicate per L'Ingegneria Sapienza Roma, Italy) Brennan's Conjecture and Weighted Estimates on Snowflake Domains	Abstracts p. 478
18:00-18:30	Viswanathan Puthan Veedu (Indian Institute of Technology Madras, India) Uniform Restricted Range Approximation with Self-referential Functions	Abstracts p. 477

Contributed Session 1	ODEs and Applications Chair(s): Erik Lange	Location E7-103
17:00-17:20	Erik Lange (German Weather Service (DWD), Germany) Locally Adaptive Regularisation for a Meteorological Inverse Problem	Abstracts p. 500
17:20-17:40	Vladislav Kravchenko (CINVESTAV, Mexico) Spectral Parameter Power Series and Transmutations for Solving Spectral Problems	Abstracts p. 499
17:40-18:00	Irada A. Dzhalladova (Kyiv National Economic University, Ukraine) Estimates of Stability Ecosystems in Models of Global Processes	Abstracts p. 497
18:00-18:20	Sandra Pinelas (Academia Militar, Portugal) Asymptotic and Oscillatory Behaviour of the Solutions of a Difference Equation with Several Arguments	Abstracts p. 501
18:20-18:40	Sandra Pinelas (Academia Militar, Portugal) Oscillation Criteria for Nonlinear Neutral Differential Equations with Mixed Arguments	Abstracts p. 501
18:40-19:00	Domagoj Vlah (University of Zagreb, Croatia) Fractal Dimensions of Oscillatory Integrals	Abstracts p. 504
Contributed Session 6	PDEs and Applications Chair(s): Alejandro Velez-Santiago	Location E16-105
17:00-17:20	Alejandro Velez-Santiago (University of California, Riverside, USA) Ambrosetti–Prodi-type Problems for Quasi-linear Elliptic Equations with Nonlocal Boundary Conditions on Non-smooth Domains	Abstracts p. 529
17:20-17:40	Ting Zhang (Zhejiang University, Peoples Rep of China) Global Solutions to the 2D Viscous, Non-resistive MHD System with Largebackground Magnetic Field	Abstracts p. 530
17:40-18:00	Rodrigo N. Monteiro (University of Sao Paulo, Brazil) Small Perturbations of a Nonlinear Plate Equation with P-Laplacian	Abstracts p. 523
18:00-18:20	Maria Gonzalez Taboada (Universidade Da Coruña, Spain) Analysis of a New Semi-discrete Finite Element Approximation of a Linear Fluid-structure Interaction Problem	Abstracts p. 519
18:20-18:40	Bakur Gulua (Sokhumi State University, Rep of Georgia) Hierarchical Models for the Plane and Shell	Abstracts p. 520
18:40-19:00	Dmitry Ponomarev (INRIA Sophia Antipolis, France) On Recovery of Harmonic Functions from Partial Boundary Data Respecting Internal Pointwise Values	Abstracts p. 525

Competition Session	Student Paper Competition Chair(s): Michael Freeze, Wei Feng	Location EPS10
17:00-17:30	Daisuke Naimen (Osaka City University, Japan) The Critical Problem of Kirchhoff Type Elliptic Equations in Dimension Four	Abstracts p. 542
17:30-18:00	Anton Savostianov (University of Surrey, England) Strichartz Estimates and Smooth Attractors for Wave Equations with Fractional Damping in Bounded Domains	Abstracts p. 542
18:00-18:30	Yoshitaro Tanaka (Meiji University, Japan) Reaction-Diffusion Model Aided Understanding of Pattern Formation of Inflorescence	Abstracts p. 543
18:30-19:00	Bao Tang (Institute for Mathematics and Scientific Computing, University of Graz, Austria) Well-Posedness and Exponential Equilibration of a Volume-Surface Reaction-Diffusion System with Nonlinear Boundary Coupling	Abstracts p. 543
19:00-19:30	Andrei Tarfulea (Princeton University, USA) Long Time Behavior of the Forced Critical Surface Quasi-geostrophic Equation	Abstracts p. 543

Parallel Session 5
 Wednesday, July 9
 10:30 – 12:30

Special Session 1	Mathematical Aspects of Fluid Dynamics Organizer(s): Angel Castro, Diego Cordoba, Charles Fefferman, Francisco Gancedo	Location ROJA
10:30-11:00	Jose Rodrigo (University of Warwick, England) On a Coupled Parabolic-elliptic System Arising from MHD	Abstracts p. 9
11:00-11:30	Natasa Pavlovic (University of Texas at Austin, USA) The Exponential-like Moments of the Boltzmann Equation Without Cutoff	Abstracts p. 8
11:30-12:00	Robert M. Strain (University of Pennsylvania, USA) Absence of Splash Singularities for Surface Quasi-geostrophic Sharp Fronts and the Muskat Problem	Abstracts p. 9
12:00-12:30	Alberto Enciso (ICMAT, Spain) Thin Knotted Vortex Tubes in Steady Euler Flows	Abstracts p. 7
Special Session 2	Nonlinear Evolution PDEs and Interfaces in Applied Sciences Organizer(s): Gunduz Caginalp, Maurizio Grasselli, Alain Miranville	Location EPS10
10:30-11:00	Edriss S. Titi (Weizmann Institute & UC - Irvine, USA) Finite Number of Determining Parameters for the Navier-Stokes Equations with Applications Into Feedback Control and Data Assimilations	Abstracts p. 15
11:00-11:30	Pedro Marin-Rubio (Universidad de Sevilla, Spain) Asymptotic Behaviour for a Double Time-delayed 2D-Navier-Stokes Model	Abstracts p. 13
11:30-12:00	Michele Coti Zelati (Indiana University, USA) On the Stability of the Weak Attractor of the 3D Navier-Stokes Equations	Abstracts p. 11
12:00-12:30	Günther Grün (Erlangen University, Germany) On Convergent Numerical Schemes for Two-phase Flow of Incompressible Fluids with Different Mass Densities	Abstracts p. 12

Special Session 3	Mathematical Models in the Systems Biology of Cancer Organizer(s): Philip K. Maini, Gabriel F. Calvo, Juan Belmonte-Beitia	Location C11-101-3
10:30-11:00	Amina A. Qutub (Rice University, USA) Molecular Programming of Cell and Vessel Phenotypes in Cancer	Abstracts p. 18
11:00-11:30	Mathilde Badoual (Paris Diderot University, France) Predicting the Regrowth of Diffuse Low-grade Gliomas Under Radiotherapy with an Edema-based Model	Abstracts p. 16
11:30-12:00	David Basanta (H. Lee Moffitt Cancer Center, USA) From Simplicity to Complexity in Modelling Cancer As an Ecosystem	Abstracts p. 16
12:00-12:30	Victor M. Perez-Garcia (Universidad de Castilla-La Mancha, Spain) Extreme Protraction As a Novel Therapeutical Strategy for Low Grade Gliomas: Theory and Ongoing Work in Animal Models	Abstracts p. 17
Special Session 5	Differential Delay Equations Organizer(s): Fatihcan M. Atay, Bernhard Lani-Wayda, Hans-Otto Walther	Location C16-101-5
10:30-11:00	Tibor Krisztin (University of Szeged, Hungary) The Structure of Unstable Sets for Delayed Monotone Feedback	Abstracts p. 25
11:00-11:30	Gabriella Vas (Hungarian Academy of Sciences, University of Szeged, Hungary) The Unstable Set of a Periodic Orbit for Delayed Positive Feedback	Abstracts p. 26
11:30-12:00	Robert Szczelina (Jagiellonian University, Poland) Rigorous Integration of Delay Differential Equations	Abstracts p. 25
12:00-12:30	Qingwen Hu (University of Texas at Dallas, USA) Global Hopf Bifurcation of Differential Equations with Threshold Type State-dependent Delay	Abstracts p. 24

Special Session 8	Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations from Mathematical Science Organizer(s): Danielle Hilhorst, Yoshihisa Morita	Location EPS7
10:30-11:00	Hiroshi Matano (University of Tokyo, Japan) Propagating Terrace for Semilinear Diffusion Equations in Higher Dimensions	Abstracts p. 37
11:00-11:30	Cyrill Muratov (NJIT, USA) Threshold Phenomena for Symmetric Decreasing Solutions of Reaction-Diffusion Equations	Abstracts p. 38
11:30-12:00	Chao-Nien Chen (National Changhua University of Education, Taiwan) Standing Pulse Solutions to FitzHugh-Nagumo Equations	Abstracts p. 36
12:00-12:30	Shin-Ichiro Ei (Hokkaido University, Japan) Pulse Dynamics in FitzHugh-Nagumo Systems on Heterogeneous Media	Abstracts p. 37
Special Session 10	Nonlinear Elliptic Partial Differential Equations and Systems Organizer(s): Wenxiong Chen, Congming Li	Location C16-101-3
10:30-11:00	Monica Lazzo (University of Bari, Italy) Boundary Blow-up in Polyharmonic Equations with Power Nonlinearities	Abstracts p. 49
11:00-11:30	Paul G. Schmidt (Auburn University, USA) Higher-order Effects in the Boundary Behavior of Large Radial Solutions of Polyharmonic Equations with Power Nonlinearities	Abstracts p. 50
11:30-12:00	Phuc C. Nguyen (Louisiana State University, USA) Global Regularity and Existence of Very Weak Solutions to Certain Quasilinear Equations	Abstracts p. 49
12:00-12:30	Maria del Mar Gonzalez (Universitat Politecnica de Catalunya, Spain) Layer Solutions for the Fractional Laplacian	Abstracts p. 48

Special Session 11	Dynamics of Fluids and Nonlinear Waves Organizer(s): Zhiwu Lin, Chongchun Zeng	Location E7-101
10:30-11:00	Jalal Shatah (Courant, USA) Resonances in PDEs	Abstracts p. 53
11:00-11:30	Zhifei Zhang (Peking University, Peoples Rep of China) Break-down Criterion of the Water Wave Equations	Abstracts p. 54
11:30-12:00	Zaher Hani (Courant Institute of Mathematical Sciences, USA) Out-of-equilibrium Behavior of Nonlinear Dispersive Equations	Abstracts p. 52
12:00-12:30	Wolf-Patrick Duell (University of Stuttgart, Germany) Validity of the KdV Approximation for the Water Wave Problem	Abstracts p. 51
Special Session 13	Nonlocally Coupled Dynamical Systems: Analysis and Applications Organizer(s): Yuri Maistrenko, Georgi Medvedev	Location C0-302
10:30-11:00	Kenneth Showalter (West Virginia University, USA) Synchronization in Populations of Chemical Oscillators: Phase Clusters and Chimeras	Abstracts p. 62
11:00-11:30	Jonathan D. Touboul (College de France, France) Mesoscopic Limits of Spatially Extended Stochastic Networks and the Emergence of Synchrony	Abstracts p. 63
11:30-12:00	Anna Zakharova (TU Berlin, Germany) Chimera Death: a Bridge Between Chimera States and Oscillation Death	Abstracts p. 63
12:00-12:30	Dawid Dudkowski (Lodz University of Technology, Poland) Different Types of Chimera States in Coupled Bi-stable Oscillators	Abstracts p. 59

Special Session 15	Geometric and Variational Techniques in the N-body Problem Organizer(s): Vivina L. Barutello, Alessandro Portaluri	Location C11-201-2
10:30-11:00	Susanna Terracini (University of Torino, Italy) Parabolic Trajectories of the N -body Problem. a Variational Approach.	Abstracts p. 70
11:00-11:30	Ezequiel Maderna (Universidad de La Republica, Uruguay) On the Integrability of the Three-body Problem	Abstracts p. 69
11:30-12:00	James A. Montaldi (University of Manchester, England) Classification of Symmetries of Planar Choreographies	Abstracts p. 69
12:00-12:30	Mitsuru Shibayama (Osaka University, Japan) Variational Proof of the Existence of the Super-eight Orbit in the Four-body Problem	Abstracts p. 70
Special Session 16	Optimal Control and Its Applications Organizer(s): Alexander J. Zaslavski	Location C0-209
10:30-11:00	Tina Engler (Martin Luther University Halle-Wittenberg, Germany) On Worst-case Optimal Investment and Consumption Under a Stochastic Interest Rate	Abstracts p. 72
11:00-11:30	Sanjukta Hota (Fisk University, USA) Optimal Control and Stability Analysis of an Epidemic Model with Education Campaign and Treatment	Abstracts p. 73
11:30-12:00	Elena K. Kostousova (Institute of Mathematics and Mechanics, Russian Academy of Sciences, Ekaterinburg, Russia) On Control Synthesis for Uncertain Dynamical Discrete-time Systems Through Polyhedral Techniques	Abstracts p. 73
12:00-12:30	Galina Kurina (Voronezh State University, Russia) Decomposition of Discrete Linear-Quadratic Optimal Control Problems for Two-Steps Systems	Abstracts p. 73

Special Session 18	Nonlinear Elliptic and Parabolic Problems Organizer(s): J. Lopez-Gomez	Location EPS5
10:30-11:00	Fabio Zanolin (University of Udine, Italy) Multiplicity Results for One-dimensional Nonlinear Schrödinger Equations with Stepwise Potential	Abstracts p. 84
11:00-11:30	George C. Cosner (University of Miami, USA) A Reaction-diffusion Model for Producers and Scroungers	Abstracts p. 79
11:30-12:00	Takasi Senba (Kyushu Institute of Technology, Japan) Some Properties of Radial Stationary Solutions to a Parabolic-elliptic System Related to Keller-Segel System.	Abstracts p. 82
12:00-12:30	Carlos Mora-Corral (Univeristy Autonoma of Madrid, Spain) Existence of Solutions in Peridynamics and Convergence to Classical Elasticity	Abstracts p. 81
Special Session 19	Nonautonomous Dynamics Organizer(s): Russell Johnson, Sylvia Novo, Rafael Obaya	Location EPS4
10:30-11:00	Janusz Mierczynski (Wroclaw University of Technology, Poland) Principal Spectrum Estimates in Linear Nonautonomous Order-preserving Dynamical Systems: a Survey	Abstracts p. 88
11:00-11:30	Ana Maria Sanz (Universidad de Valladolid, Spain) Continuous Separations in Monotone Skew-product Semiflows: Some Theory and Computation	Abstracts p. 89
11:30-12:00	Yi Wang (University of Science and Technology of China, Peoples Rep of China) Floquet Bundles for Tridiagonal Competitive Systems with Applications	Abstracts p. 90
12:00-12:30	Jacek Cyranka (Warsaw University, Poland) Existence of Globally Attracting Solutions of the Viscous Burgers Equation on the Line with Periodic Boundary Conditions and Nonautonomous Forcing	Abstracts p. 85

Special Session 20	Dynamics with Fractional and Time Scale Derivatives Organizer(s): Martin Bohner, Natalia Martins, Delfim F. M. Torres	Location C16-101-6
10:30-11:00	Ewa Girejko (Bialystok University of Technology, Poland) A Necessary Condition of Viability for Fractional Equations with the Caputo Derivative	Abstracts p. 92
11:00-11:30	Nuno R. Bastos (Polytechnic Institute of Viseu, Portugal) A Discretization of the Hadamard Fractional Derivative	Abstracts p. 91
11:30-12:00	Ewa Pawluszewicz (Bialystok University of Technology, Poland) Local Controllability of Nonlinear Discrete-time Systems with n Fractional Orders	Abstracts p. 92
12:00-12:30	Rui Ferreira (Lusophone University of Humanities and Technologies, Portugal) Lyapunov Fractional Differential Inequalities	Abstracts p. 91
Special Session 21	Variational, Topological, and Set-valued Methods for Differential Problems Organizer(s): Gabriele Bonanno, Siegfried Carl, Salvatore A. Marano, Dumitru Motreanu	Location EPS8
10:30-11:00	Andrzej Szulkin (Department of Mathematics, Stockholm University, Sweden) A Logarithmic Schrödinger Equation with Periodic Potential	Abstracts p. 100
11:00-11:30	Donato Fortunato (University of Bari, Italy) An Abstract Existence Result for Solitons and Applications	Abstracts p. 96
11:30-12:00	Petru Jebelean (West University of Timisoara, Romania) On Some Boundary Value Problems with Singular Laplacians	Abstracts p. 96
12:00-12:30	Salvatore A. Marano (University of Catania, Italy) Non-smooth Critical Point Theory on Closed Convex Sets and Applications	Abstracts p. 98

Special Session 22	Modeling and Dynamic Analysis of Complex Patterns in Biological Systems and Data Organizer(s): Jianzhong Su, Qishao Lu, Miguel A. F. Sanjuan	Location C0-205
10:30-11:00	Lixia Duan (North China Univ. of Tech., Peoples Rep of China) Studies on Firing Patterns of Excitatory Neurons Within the Pre-Botzinger Complex Based on the First Recurrence Map	Abstracts p. 102
11:00-11:30	Xia Shi (Beijing University of Posts and Telecommunications, Peoples Rep of China) Burst Synchronization and Rhythm Dynamics in a Two-layer Neuronal Network	Abstracts p. 104
11:30-12:00	Zhijie Wang (Donghua University, Peoples Rep of China) Gamma Oscillations with Frequency Volatility in an Excitatory-inhibitory Network	Abstracts p. 105
12:00-12:30	Ling Yang (Soochow University, Peoples Rep of China) The Transcriptional Amplitude Ratio Modulates the Mammalian Circadian Clock	Abstracts p. 106
Special Session 24	Qualitative Analysis of Reaction Diffusion Systems Organizer(s): Junping Shi, Xingfu Zou	Location E7-202
10:30-11:00	Sze-Bi Hsu (National Tsing-Hua University, Taiwan, Taiwan) Multiple Steady-state in Phytoplankton Population Induced by Photoinhibition	Abstracts p. 110
11:00-11:30	Wan-Tong Li (Lanzhou University, Peoples Rep of China) Traveling Waves in a Nonlocal Dispersal SIR Model	Abstracts p. 110
11:30-12:00	Feng-Bin Wang (Chang Gung University, Taiwan) Dynamics and Bifurcation Analysis of a Host-pathogen Model in Spatial Habitats	Abstracts p. 111
12:00-12:30	Jian Fang (Harbin Institute of Technology, Peoples Rep of China) Pathogen Spread in a Wave-like Environment	Abstracts p. 110

Special Session 27	Mathematical Problems in Economics, Materials and Life Science: Analysis and Simulation of Nonlinear Multiscale Dynamics Organizer(s): Toyohiko Aiki, Nobuyuki Kenmochi, Adrian Muntean	Location E16-102
10:30-11:00	Lisa Santos (University of Minho, Portugal) A Two Obstacles Coupled Problem	Abstracts p. 123
11:00-11:30	Nobuyuki Kenmochi (Bukkyo University, Japan) Parabolic Quasi-variational Inequalities Arising from Economic Growth Models	Abstracts p. 122
11:30-12:00	Yutaka Tsuzuki (Tokyo University of Science, Japan) Solvability of p -Laplacian Parabolic Equations with Constraints Coupled with Navier-Stokes Equations in 3D Domains	Abstracts p. 124
12:00-12:30	Noriaki Yamazaki (Kanagawa University, Japan) Numerical Experiments of Allen-Cahn Equation with Constraints Via Lagrange Multiplier	Abstracts p. 124
Special Session 29	Stochastic and Deterministic Dynamical Systems and Applications Organizer(s): Tomas Caraballo, Maria J. Garrido-Atienza, Jose Valero, Yuncheng You	Location C0-206
10:30-11:00	Jaime A. Arango (Universidad del Valle, Colombia) Stochastic Models for Chladni Figures	Abstracts p. 129
11:00-11:30	Renato Colucci (Pontificia Universidad Javeriana, Colombia) Mathematical Modeling of Indirect Effects of Predation	Abstracts p. 129
11:30-12:00	Xiaoying Han (Auburn University, USA) Chemostats with Time-dependent Inputs and Wall Growth	Abstracts p. 130
12:00-12:30	Benjamin Gess (University of Chicago, USA) Stabilization of Long-time Asymptotics by Noise	Abstracts p. 130

Special Session 30	Discrete Dynamics and Applications Organizer(s): Eduardo Liz, Daniel Franco, Christian Pötzsche	Location C0-312
10:30-11:00	Jim M. Cushing (University of Arizona, USA) Matrix Models, Strong Allee Effects, and Adaptive Changes in Biological Populations to Environmental Change	Abstracts p. 135
11:00-11:30	Paul Salceanu (University of Louisiana at Lafayette, USA) Competitive Exclusion and Coexistence in an n -species Ricker Model	Abstracts p. 137
11:30-12:00	Mohamed Ben Haj Rhouma (Qatar University, Qatar) The Effect of Harvesting on Pielou's Equation for $k = 2$	Abstracts p. 134
12:00-12:30	Alfonso Ruiz-Herrera (University of Szeged, Hungary) Analysis of Dispersal Effects in Metapopulation Models	Abstracts p. 137
Special Session 32	Applied Analysis and Dynamics in Engineering and Sciences Organizer(s): Thomas Hagen, Florian Rupp	Location E15-103
10:30-11:00	Tor Fla (University of Tromsø, Norway) Biological Principles	Abstracts p. 143
11:00-11:30	Florian Rupp (German University of Technology in Oman (GUtech), Oman) Bifurcation Patterns in a Generalized Stem Cell Cancer System with Signaling	Abstracts p. 144
11:30-12:00	Maria Vittoria Barbarossa (University of Szeged, Hungary) Predator-Prey Interactions, Age Structures and Delay Equations	Abstracts p. 142
12:00-12:30	Jozsef Z. Farkas (University of Stirling, Scotland) Modelling Rapid Evolution in Structured Predator-prey Systems	Abstracts p. 143

Special Session 34	Variational Methods for Discrete and Continuous Boundary Value Problems (with Applications) Organizer(s): Antonio Iannizzotto, Giovanni Molica Bisci, Vicentiu D. Radulescu	Location C0-307
10:30-11:00	Alberto Cabada (University of Santiago de Compostela, Spain) Multiplicity Results for Fourth-order Nonlinear Problems	Abstracts p. 151
11:00-11:30	Dimitri Mugnai (University of Perugia, Italy) Wang's Multiplicity Result for Superlinear (p, q) -equations Without the Ambrosetti-Rabinowitz Condition	Abstracts p. 154
11:30-12:00	Daniele Cassani (Università degli Studi Dell'Insubria, Italy) Singular Nonlinearities in PDE and Applications to MEMS	Abstracts p. 151
12:00-12:30	Roberta Filippucci (University of Perugia, Italy) Symmetry and Multiple Solutions for Certain Quasilinear Elliptic Equations	Abstracts p. 152
Special Session 36	Analytical Aspects of the Dynamics of Nonlinear Schrodinger Equations Organizer(s): Francois Genoud	Location C11-501-1
10:30-11:00	Pascal Bégout (Institut de Mathématiques de Toulouse, France) Spatial Localization of Some NLS	Abstracts p. 161
11:00-11:30	Rada Maria Weishaeupl (University of Vienna, Austria) Two-component Nonlinear Schrodinger System with Linear Coupling	Abstracts p. 163
11:30-12:00	Simona Rota Nodari (Université Lille 1, France) Mathematical Study of a Nonlinear Model for Nucleons	Abstracts p. 162
12:00-12:30	Oscar Sanchez (University of Granada, Spain) Nondispersive Dynamics of the Maxwell-Schrödinger-Poisson System.	Abstracts p. 162

Special Session 37	Global Or/and Blowup Solutions for Nonlinear Evolution Equations and Their Applications Organizer(s): Shaohua George Chen, Ming Mei	Location C0-301
10:30-11:00	Sergey Shmarev (University of Oviedo, Spain) Localization of Solutions of Doubly Nonlinear Parabolic Equations with Anisotropic Variable Growth	Abstracts p. 167
11:00-11:30	Hiroki Ueno (Keio University, Japan) On the Thin Film Approximation for the Flow of a Viscous Incompressible Fluid Down an Inclined Plane	Abstracts p. 167
11:30-12:00	Stella Vernier-Piro (Universiy of Cagliari, Italy) Blow-up Solutions in a Keller-Segel Type System Modelling the Chemotaxis Phenomenon	Abstracts p. 168
12:00-12:30	Shubin Wang (Zhengzhou University, Peoples Rep of China) Global Existence and Asymptotic Behavior of Solution for Sixth Order Boussinesq Equation with Damped Term	Abstracts p. 168
Special Session 38	Recent Trends in Nonlinear Schrodinger Systems Organizer(s): Benedetta Pellacci, Gianmaria Verzini	Location C11-201-4
10:30-11:00	Thomas Bartsch (University of Giessen, Germany) On a Semilinear Equation Involving the Curl-curl Operator	Abstracts p. 169
11:00-11:30	Angela Pistoia (La Sapienza Università di Roma, Italy) Large Mass Boundary Condensation Patterns in the Stationary Keller-Segel System	Abstracts p. 171
11:30-12:00	Wolfgang Reichel (Karlsruhe Institute of Technology, Germany) Ground States of a Nonlinear Curl-curl Problem	Abstracts p. 171
12:00-12:30	Veronica Felli (Milano-Bicocca University, Italy) On the Sharp Effect of Attaching a Thin Handle on the Spectral Rate of Convergence	Abstracts p. 169

Special Session 44	Quasilinear Elliptic and Parabolic Problems and Their Applications Organizer(s): J.F. Padial, P. Takac, L. Tello	Location E16-101
10:30-11:00	Pavel Drabek (University of West Bohemia, Czech Rep) Travelling Waves in a Fisher-Kolmogorov-type Model with Degenerate Diffusion and Nonsmooth Reaction	Abstracts p. 188
11:00-11:30	Ratnasingham Shivaji (University of North Carolina at Greensboro, USA) Infinite Semipositone Problems	Abstracts p. 190
11:30-12:00	Yavdat Ilyasov (Institute of Mathematics RAS, Ufa, Russia, Russia) Precise Range for Stable and Blow-up Solutions to Equations with P-Laplacian and Supercritical Nonlinearities	Abstracts p. 189
12:00-12:30	Jesus Hernandez (Universidad Autonoma de Madrid, Spain) Positive Solutions for a Nonlocal Nonlinear Elliptic System Arising in Desertification Theory.	Abstracts p. 189
Special Session 51	Variational Analysis and Applications to Equilibrium Problems Organizer(s): Patrizia Daniele, Sofia Giuffre	Location C16-101-1
10:30-11:00	Patrizia Daniele (University of Catania, Italy) Equilibrium Models for End-of-life Products with Nonlinear Constraints	Abstracts p. 213
11:00-11:30	Jose Cruz (University of Connecticut, USA) Supply Chain Relationship Dynamics: Efficiency and Risk	Abstracts p. 213
11:30-12:00	Baasansuren Jadamba (Rochester Institute of Technology, USA) Variational Inequality Approach to Stochastic Nash Equilibrium Problems	Abstracts p. 213
12:00-12:30	Akhtar Khan (Rochester Institute of Technology, USA) Variational Inequality Based Numerical Methods for Elliptic Inverse Problems	Abstracts p. 213

Special Session 54	Nonlocal Fractional Problems and Related Topics Organizer(s): Raffaella Servadei	Location C16-101-4
10:30-11:00	Giovanni Molica Bisci (University of Reggio Calabria, Italy) Lower Semicontinuity of Functionals Via the (fractional) Concentration-compactness Principle	Abstracts p. 224
11:00-11:30	Xavier Ros-Oton (Universitat Politecnica de Catalunya, Spain) Boundary Regularity for Integro-differential Equations	Abstracts p. 225
11:30-12:00	Mouhamed Moustapha Fall (African Institute for Mathematical Sciences in Senegal, Senegal) Sharp Essentially Self-adjointness of Relativistic Schrödinger Operators	Abstracts p. 224
12:00-12:30	Maria del Mar Gonzalez (Universitat Politecnica de Catalunya, Spain) The CR Fractional Laplacian	Abstracts p. 224
Special Session 55	Microlocal Analysis and the Inverse Conductivity Problem Organizer(s): Raluca Felea, Romina Gaburro	Location C11-201-3
10:30-11:00	Eemeli Blåsten (University of Helsinki, Finland) Solving the Inverse Problem for the 2D Schrödinger Equation with L^p -potential	Abstracts p. 227
11:00-11:30	Eric Todd Quinto (Tufts University, USA) Microlocal Analysis and Bistatic Data Acquisition in Seismic Imaging.	Abstracts p. 229
11:30-12:00	Allan Greenleaf (University of Rochester, USA) Problems in Microlocal Analysis Motivated by Seismic Imaging	Abstracts p. 228
12:00-12:30	Clifford J. Nolan (University of Limerick, Ireland) Monostatic SAR with Fold-cusp Singularities.	Abstracts p. 228

Special Session 58	Dynamics in Systems with Interfaces Organizer(s): Tatiana Savina, Alexander Nepomnyashchy	Location E16-104
10:30-11:00	Eldad Bettelheim (Physics, Hebrew University of Jerusalem, Israel) Hydrodynamics in the Quantum Hall Regime	Abstracts p. 236
11:00-11:30	Seung-Yeop Lee (University of South Florida, USA) Universality of Singularity in Hele-Shaw Flow	Abstracts p. 236
11:30-12:00	Erik Lundberg (Purdue University, USA) Algebraicity of Higher-dimensional Quadrature Domains	Abstracts p. 236
12:00-12:30	Giovani L. Vasconcelos (Imperial College London and UFPE, Brazil, England) Interface Dynamics in Multiply Connected Domains: Exact Solutions for Multiple Hele-Shaw Bubbles and the Selection Problem	Abstracts p. 238
Special Session 63	Advanced High Order Geometric Numerical Integration Methods for Differential Equations Organizer(s): Sergio Blanes, Fernando Casas	Location E7-203
10:30-11:00	Reinout Quispel (La Trobe University, Australia) Geometric Integration of Polynomial ODEs	Abstracts p. 259
11:00-11:30	Philippe Chartier (INRIA-ENS-IRMAR, France) Superconvergence of Strang Splitting for NLS in the D-dimensional Torus	Abstracts p. 258
11:30-12:00	Vasile Gradinaru (ETH Zurich, Switzerland) A High-order Semiclassical Splitting for the Schroedinger Equation for Nuclei	Abstracts p. 259
12:00-12:30	Elena Celledoni (Department of Mathematical Sciences, NTNU, Norway) Structure Preserving Methods for Port-Hamiltonian Systems	Abstracts p. 258

Special Session 64	Traveling Waves and Patterns Organizer(s): Anna Ghazaryan, Vahagn Manukian	Location E16-103
10:30-11:00	Joceline Lega (University of Arizona, USA) Grain Boundaries of the Regularized Cross-Newell Equation	Abstracts p. 261
11:00-11:30	Frits Veerman (University of Oxford, England) Periodic Patterns in Singularly Perturbed Reaction-diffusion Systems	Abstracts p. 263
11:30-12:00	Mariana Haragus (University of Franche-Comté, France) Spectral Stability of Two-dimensional Gravity-capillary Periodic Water Waves	Abstracts p. 261
12:00-12:30	Yasumasa Nishiura (Advanced Institute for Materials Research, Tohoku University, Japan) Localized Traveling Waves in Heterogeneous Media	Abstracts p. 262
Special Session 65	Kinetic Equations: Theory and Applications Organizer(s): Francesco Salvarani	Location C11-101-2
10:30-11:00	Klemens Fellner (University of Graz, Austria) On Coagulation-fragmentation Models	Abstracts p. 265
11:00-11:30	Marco A. Fontelos (ICMAT, Spain) Selfsimilar Solutions to Smoluchowski's Coagulation Equation in Singular and Non Singular Cases	Abstracts p. 265
11:30-12:00	Maria C. Carvalho (University of Lisbon, Portugal) Steady States for a Class of Kinetic Models Arising on Population Biology	Abstracts p. 265
12:00-12:30	Frenod Emmanuel (Universite de Bretagne-Sud, France) Two-Scale Numerical Methods for Kinetic Equations	Abstracts p. 265
Special Session 66	Deterministic and Stochastic Models in Biology and Medicine Organizer(s): Mostafa Adimy, Oscar Angulo, Fabien Crauste, Laurent Pujo-Menjouet	Location C11-101-1
10:30-11:00	Marcello Delitala (Politecnico di Torino, Italy) Emergence of Spatial Patterns in a Model for the Dynamics of Epithelial and Mesenchymal Cells	Abstracts p. 270
11:00-11:30	Tommaso Lorenzi (Laboratoire J.-L. Lions, UPMC, France) Intermediate Dynamics of Population Models in Fluctuating Environments	Abstracts p. 271
11:30-12:00	Angel Calsina (Universitat Autonoma de Barcelona, Spain) Positive Equilibria of Structured Population Dynamics and Fixed Points of Set Valued Maps	Abstracts p. 269

Special Session 68	Entropy-like Quantities and Applications Organizer(s): J.M. Amigo, K. Keller, B. Pompe	Location C0-204
10:30-11:00	James Keesling (University of Florida, USA) A Theorem in Queueing Theory with Applications to Queueing Networks	Abstracts p. 279
11:00-11:30	Ned J. Corron (RDECOM, USA) Significance Test for Mutual Information	Abstracts p. 278
11:30-12:00	Gary Froyland (University of New South Wales, Australia) Finite-time Entropy: a Probabilistic Approach for Measuring Nonlinear Stretching	Abstracts p. 278
12:00-12:30	Kohei Nakajima (ETH Zurich, Switzerland) Temporal Symbolic Transfer Entropy: Measuring Information Transfer in Real-time	Abstracts p. 280
Special Session 69	Lie Symmetries, Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations Organizer(s): Chaudry Masood Khalique, Maria Gandarias, Mufid Adudiah	Location C11-101-4
10:30-11:00	Ozlem Orhan (Istanbul Technical University, Turkey) Determination of First Integrals and Symmetries of the Second Order Ordinary Differential Equations Using Linearization Methods	Abstracts p. 285
11:00-11:30	Lucia Vazquez (Cadiz University, Spain) On Symmetries of a Klein-Gordon Equation	Abstracts p. 285
11:30-12:00	Abdullahi R. Adem (North-West University, So Africa) Lie Symmetry Analysis and Conservation Laws of a (2+1) Dimensional Haragus-Courcelle-Ilichev Model	Abstracts p. 282
12:00-12:30	Khadijo R. Adem (North-West University, So Africa) Symmetry Analysis of a Generalized Two-dimensional Nonlinear Kadomtsev-Petviashvili-modified Equal Width Equation	Abstracts p. 282

Special Session 71	Recent Progress in Spintronics: Experiment, Theory and Simulation Organizer(s): Jingrun Chen, Carlos J. Garcia-Cervera, Xu Yang, Sookyoung Joo	Location C16-101-2
10:30-11:00	Eiji Saitoh (Tohoku University, Japan) From Spin Pumping to Spin Seebeck Effect	Abstracts p. 292
11:00-11:30	Xiao-Ping Wang (Hong Kong University of Science and Technology, Peoples Rep of China) Dynamics of Domain Wall in Thin Film Driven by Spin Current	Abstracts p. 293
11:30-12:00	Joel Varley (Lawrence Livermore National Laboratory, USA) Quantum Computing with Defects	Abstracts p. 293
12:00-12:30	Ke K. Xia (Beijing Normal University, Peoples Rep of China) Computational Spin Caloritronics	Abstracts p. 293
Special Session 72	Kinetic Models - Analysis, Computation, and Applications Organizer(s): Stephen Pankavich, Ricardo Alonso	Location C11-201-5
10:30-11:00	Nancy Rodriguez (UNC Chapel Hill, USA) Existence and Non-existence of Steady-states for a Two Species Segregation Model	Abstracts p. 297
11:00-11:30	Jeff Haack (University of Texas, USA) Numerical Computation of the Boltzmann Collision Operator with Angularly Dependent Cross Section.	Abstracts p. 296
11:30-12:00	Zhiwu Lin (Georgia Institute of Technology, USA) Unstable Manifolds of Vlasov-Poisson Systems	Abstracts p. 296
12:00-12:30	Jose Antonio Alcantara Felix (University of Granada, Mexico) Spatially Homogeneous Solutions of the Vlasov-Nordström-Fokker Planck System	Abstracts p. 295

Special Session 78	The Navier-Stokes Equations and Related Problems Organizer(s): S. Nečasova, R. Rautmann, W. Varnhorn	Location EPS9
10:30-11:00	Reinhard Farwig (TU Darmstadt, Germany) A Linearized Model for Compressible Flow Past a Rotating Obstacle	Abstracts p. 316
11:00-11:30	Dongho Chae (Chung-Ang University, Korea) Vanishing Theorems for the Discretely Self-similar Solutions to the Euler Equations	Abstracts p. 316
11:30-12:00	Joerg Wolf (Humboldt University of Berlin, Germany) Local Regularity for Weak Solutions to the Equations of Unsteady Motion of Power Law Fluids $q > 2$	Abstracts p. 319
12:00-12:30	Ana L. Silvestre (Instituto Superior Técnico, Universidade de Lisboa, Portugal) On the Existence and Uniqueness of Solutions for the Kevin-Voigt Equations	Abstracts p. 318
Special Session 90	Analysis of Hyperbolic PDEs Organizer(s): Anahit Galstyan, Fumihiko Hirosawa, Jens Wirth	Location C0-207
10:30-11:00	Piero D'Ancona (Sapienza - University of Roma, Italy) Global Existence of Equivariant Wave Maps on a Curved Background	Abstracts p. 358
11:00-11:30	Karen Yagdjian (University of Texas-Pan American, USA) Integral Transform Approach to the Initial-value Problem for the Evolution Equations	Abstracts p. 360
11:30-12:00	Makoto Nakamura (Yamagata University, Japan) Remarks on a Dispersive Equation in de Sitter Spacetime	Abstracts p. 359
12:00-12:30	Anahit Galstyan (University of Texas-Pan American, USA) Global Solutions for Semilinear Klein-Gordon Equation in FLRW Spacetimes	Abstracts p. 358

Special Session 93	Partial Differential Equations Arising from Biology and Physics Organizer(s): Shangbin Cui, Jianhua Wu, Bei Hu, Joachim Escher	Location E7-105
10:30-11:00	Jianhua Wu (Shaanxi Normal University, Peoples Rep of China) The Effect of Interaction Ratio in a Chemical Reaction	Abstracts p. 369
11:00-11:30	Xuemei Wei (Guangdong University of Technology, Peoples Rep of China) Existence and Uniqueness of Global Solution for a Model of Immune Cells Inhibiting Tumor Immune Evasion	Abstracts p. 369
11:30-12:00	Fujun Zhou (South China University of Technology, Peoples Rep of China) Stability and Bifurcation of a Free Boundary Problem Modeling the Growth of Multi-layer Tumors with Gibbs-Thomson Relation	Abstracts p. 369
12:00-12:30	Seda Gulen (Ege University, Turkey) An Efficient Numerical Solution of Hsu Model Involving Size Variation in Soybean Hydration	Abstracts p. 368
Special Session 103	Periodic Solutions for Dynamical Systems Organizer(s): Adriana Buica, Susanna Maza	Location E15-104
10:30-11:00	Isaac A. García (University of Lleida, Spain) The 3-dimensional Center Problem for the Analytic Zero-Hopf Singularity	Abstracts p. 398
11:00-11:30	Maite Grau (Universitat de Lleida, Spain) Essential Perturbations of Quadratic and Cubic Systems	Abstracts p. 399
11:30-12:00	Jesús S. Pérez del Río (Universidad de Oviedo, Spain) On the Multiplicity of Algebraic Limit Cycles	Abstracts p. 400
12:00-12:30	Rafel Prohens (University of Balearic Islands, Spain) Alien Limit Cycles in Liénard Equations	Abstracts p. 400

Special Session 105	Geometric Mechanics Organizer(s): Hernan Cendra, Darryl Holm, David Martin de Diego, Juan-Pablo Ortega	Location NARANJA
10:30-11:00	David Martin de Diego (ICMAT, Spain) Optimal Control of Nonholonomic Systems	Abstracts p. 411
11:00-11:30	Klas Modin (Chalmers University of Technology, Sweden) Optimal Information Transport	Abstracts p. 412
11:30-12:00	Hernan Cendra (Universidad Nacional del Sur, Argentina) Dirac Systems and Applications	Abstracts p. 408
12:00-12:30	Hiroaki Yoshimura (Waseda University, Japan) Dirac Dynamical Systems with Symmetry and Applications to Nonholonomic Systems	Abstracts p. 414
Special Session 108	Mathematics of Nonlinear Acoustics Organizer(s): Barbara Kaltenbacher	Location E7-201
10:30-11:00	Petronela Radu (University of Nebraska-Lincoln, USA) Existence Issues in Nonlinear Acoustics Models	Abstracts p. 419
11:00-11:30	Vanja Nikolic (Alpen-Adria-Universität Klagenfurt, Austria) Equations of Nonlinear Acoustics with Nonlinear Strong Damping and Neumann As Well As Absorbing Boundary Conditions	Abstracts p. 419
11:30-12:00	Stefan Meyer (University of Halle, Germany) Optimal Regularity and Long-time Behavior of Solutions for Kuznetsov's Equation with Inhomogeneous Boundary Data.	Abstracts p. 419
12:00-12:30	Mathias Wilke (Martin-Luther University Halle-Wittenberg, Germany) Optimal Regularity and Long-time Behavior of Solutions for Kuznetsov's Equation with Inhomogeneous Boundary Data, Part 2	Abstracts p. 420

Special Session 109	Stochastic Partial Differential Equations Organizer(s): Michael Rockner	Location E7-102
10:30-11:00	Yuri G. Kondratiev (Bielefeld University, Germany) Fluctuations Over Mesoscopic Scaling Limits	Abstracts p. 422
11:00-11:30	Martin Grothaus (University of Kaiserslautern, Germany) Hypocoercivity for Degenerate Kolmogorov Equations and Applications to the Langevin Dynamics	Abstracts p. 422
11:30-12:00	Wilfried Grecksch (Martin-Luther-University Halle-Wittenberg, Germany) A Splitting Method for a Stochastic Schrödinger Equation	Abstracts p. 422
12:00-12:30	Deng Zhang (Bielefeld University, Germany) Stochastic Nonlinear Schrödinger Equation	Abstracts p. 424
Special Session 111	Computational Dynamics in Hamiltonian and Dissipative Systems Organizer(s): Fernando Blesa, Sergio Serrano, Arturo Vieiro	Location E16-106
10:30-11:00	Sergio Serrano (Zaragoza University, Spain) Organization of Dissipative Flows: Rössler Model Revisited	Abstracts p. 432
11:00-11:30	Roberto Barrio (Universidad de Zaragoza, Spain) Towards a Symbolic Quest Into Homoclinic Chaos	Abstracts p. 430
11:30-12:00	Florian Huhn (ETH Zurich, Switzerland, Switzerland) Automated Detection of Coherent Lagrangian Vortices in Extended Two-dimensional Flow Domains	Abstracts p. 431
12:00-12:30	Pablo M. Cincotta (Universidad Nacional de La Plata/CONICET, Argentina) Chaos Detection Tools in Hamiltonian Dynamics	Abstracts p. 431

Special Session 118	Transport Barriers in Unsteady Fluid Flows Organizer(s): Sanjeeva Balasuriya, Kathrin Padberg-Gehle, Wenbo Tang	Location C11-201-1
10:30-11:00	Tom Solomon (Bucknell University, USA) Experimental Studies of Barriers to Front Propagation in Advection-reaction-diffusion Systems	Abstracts p. 460
11:00-11:30	Kevin Mitchell (University of California, Merced, USA) Lagrangian Coherent Structures in Reacting Flows	Abstracts p. 459
11:30-12:00	John R. Mahoney (UC, Merced, USA) Pinned Reaction Fronts	Abstracts p. 458
12:00-12:30	Michael Dellnitz (University of Paderborn, Germany) Set Oriented Computation of Coherent Structures	Abstracts p. 458
Special Session 128	How Do Complex Networks Improve Our Knowledge of Biology? Organizer(s): Jacobo Aguirre, Javier M. Buldu, Jose A. Capitan	Location E15-102
10:30-11:00	I. Leyva (Universidad Rey Juan Carlos - Centro de Tecnología Biomedica (UPM), Spain) Self-organized Evolution of Anatomical Networks in Neuronal in Vitro Cultures	Abstracts p. 488
11:00-11:30	Michael Stich (Aston University, England) Evolutionary Search Processes in Networks of RNA Genotypes	Abstracts p. 489
11:30-12:00	Jaime Iranzo (National Institutes of Health, USA) Evolutionary Dynamics of Defense Mechanisms in Simple Host - Pathogen Systems	Abstracts p. 488
12:00-12:30	Javier M. Buldu (Universidad Rey Juan Carlos, Spain) Networks Competing for Centrality (and Its Biological Implications)	Abstracts p. 487

Contributed Session 1	ODEs and Applications Chair(s): Denis Hautesserres	Location E7-103
10:30-10:50	Ekin Deliktaş (Istanbul Technical University, Turkey) A Space Extension for Exponentially Fitted Runge-Kutta-Nystrom Methods	Abstracts p. 496
10:50-11:10	Masakazu Onitsuka (Okayama University of Science, Japan) Uniform Asymptotic Stability Implies Exponential Stability for Half-linear Differential Systems with Time-varying Coefficients	Abstracts p. 501
11:10-11:30	Antonin Slavík (Charles University in Prague, Czech Rep) Generalized Elementary Functions	Abstracts p. 503
11:30-11:50	Michal Vesely (Department of Mathematics and Statistics, Masaryk University, Brno, Czech Rep) Non-almost Periodic Solutions of Limit Periodic and Almost Periodic Systems	Abstracts p. 503
11:50-12:10	Denis Hautesserres (Centre National D'Etudes Spatiales, France) Analytical Integration of the Osculating Lagrange Planetary Equations in the Elliptic Orbital Motion	Abstracts p. 498
Contributed Session 6	PDEs and Applications Chair(s): Kaori Sugimura	Location E16-105
10:30-10:50	Algirdas Ambrazevicius (Vilnius University, Lithuania) A Mathematical Model of Bimolecular Catalytic Reactions	Abstracts p. 516
10:50-11:10	Sanjeev Kumar (Indian Institute of Technology Roorkee, India) A New Model for Shape from Shading Under Perspective Projection with Numerical Solution	Abstracts p. 522
11:10-11:30	Yun-Ho Kim (Sangmyung University, Korea) On Nonlinear Elliptic Equations of $P(x)$ -Laplace Type Satisfying Cerami Condition	Abstracts p. 521
11:30-11:50	Anja Vrbaski (University of Zagreb, Croatia) Homogenization for Double Porosity Models for Incompressible Flow in a Fractured Reservoir	Abstracts p. 529
11:50-12:10	Kaori K. Sugimura (Ochanomizu University, Japan) Exponential Dependence of the Lifetime of Spiral Chaos on System Size	Abstracts p. 526
12:10-12:30	Ketevan Shavgulidze (Tbilisi State University, Rep of Georgia) The Basis of the Space of Spherical Polynomials with Quadratic Forms	Abstracts p. 526

Parallel Session 6
 Wednesday, July 9
 14:00 – 16:00

Special Session 1	Mathematical Aspects of Fluid Dynamics Organizer(s): Angel Castro, Diego Cordoba, Charles Fefferman, Francisco Gancedo	Location ROJA
14:00-14:30	Alexander Kiselev (Rice University, USA) Regularity, Blow Up, and Small Scale Creation in Fluids	Abstracts p. 8
14:30-15:00	Susan Friedlander (University of Southern California, USA) Shell Models for Turbulent Flows	Abstracts p. 8
15:00-15:30	Gautam Iyer (Carnegie Mellon University, USA) Mixing of Passive Scalars by Incompressible Enstrophy-constrained Flows.	Abstracts p. 8
15:30-16:00	Luigi C. Berselli (Università di Pisa, Italy) On the Construction of Suitable Weak Solutions	Abstracts p. 7

Special Session 2	Nonlinear Evolution PDEs and Interfaces in Applied Sciences Organizer(s): Gunduz Caginalp, Maurizio Grasselli, Alain Miranville	Location EPS10
14:00-14:30	Dalibor Pražák (Charles University, Prague, Czech Rep) Regularity Results for a Cahn-Hilliard-Navier-Stokes System with Shear Dependent Viscosity	Abstracts p. 14
14:30-15:00	Stefania Gatti (University of Modena and Reggio Emilia, Italy) Pullback Exponential Attractor for a Cahn-Hilliard-Navier-Stokes System in 2D	Abstracts p. 12
15:00-15:30	Elena Bonetti (University of Pavia, Italy) Non-smooth Degenerating Elliptic Equations for Damage Models	Abstracts p. 10
15:30-16:00	Costica N. Morosanu (Alexandru Ioan Cuza University, Romania) The Phase-field Transition System Endowed with a General Regular Potential and Nonlinear Dynamic Boundary Conditions of Non-homogeneous Type and Non-constant Thermal Conductivity	Abstracts p. 13

Special Session 3	Mathematical Models in the Systems Biology of Cancer Organizer(s): Philip K. Maini, Gabriel F. Calvo, Juan Belmonte-Beitia	Location C11-101-3
14:00-14:30	Olivier Saut (Institut Mathematiques Bordeaux, CNRS, France) Data Assimilation in Tumor Growth Modeling: Towards Patient Calibrated Models Using Imaging Devices	Abstracts p. 18
14:30-15:00	Kang-Ling Liao (Mathematical Biosciences Institute, the Ohio State University, USA) Mathematical Modeling of Interleukin-27 Induction of Anti-tumor T Cells Response	Abstracts p. 17
15:00-15:30	Aneta Stefanovska (Lancaster University, England) Stability in the Fluctuations of the Cell Membrane Potential and How They Change with Cancer	Abstracts p. 18
15:30-16:00	Ignacio Ramis Conde (University of Castilla La Mancha, Spain) Multi-scale Modelling of Palisade Formation in Glioblastomas	Abstracts p. 18
Special Session 5	Differential Delay Equations Organizer(s): Fatihcan M. Atay, Bernhard Lani-Wayda, Hans-Otto Walther	Location C16-101-5
14:00-14:30	Karl P. Hadeler (University of Tuebingen, Germany) Quiescent Phases and Delay Equations	Abstracts p. 24
14:30-15:00	Anatoli F. Ivanov (Pennsylvania State University, USA) Periodic Solutions of a Singular Delay Equation with a Farey Nonlinearity	Abstracts p. 25
15:00-15:30	Gregory Derfel (Ben Gurion University, Israel) Probabilistic Methods for a Class of Equations with Rescaling	Abstracts p. 24
15:30-16:00	Matthias Wolfrum (WIAS Berlin, Germany) Amplitude Equations for DDEs with Large Delay	Abstracts p. 26

Special Session 6	Random Dynamical Systems in the Life Sciences Organizer(s): Xiaoying Han, Peter Kloeden	Location C11-101-1
14:00-14:30	Peter E. Kloeden (Goethe University, Germany) Nonautonomous and Random Dynamical Systems in the Life Sciences	Abstracts p. 28
14:30-15:00	Qing Nie (University of California - Irvine, USA) Stochastic Dynamics in Signal Transduction, Stem Cells, and Development	Abstracts p. 29
15:00-15:30	Jonathan D. Touboul (College de France, France) Emergence of Synchrony in Randomly Coupled Networks	Abstracts p. 30
15:30-16:00	Christina Surulescu (University of Kaiserslautern, Germany) A Stochastic Multiscale Model for Acid Mediated Tumor Invasion	Abstracts p. 30
Special Session 8	Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations from Mathematical Science Organizer(s): Danielle Hilhorst, Yoshihisa Morita	Location EPS7
14:00-14:30	Matthieu Alfaro (Univ. Montpellier 2, France) Climate Shift's Effect on a Species Submitted to Dispersion, Evolution, Growth and Nonlocal Competition	Abstracts p. 36
14:30-15:00	Hartmut R. Schwetlick (University of Bath, England) Travelling Fronts and Patterns for Kinetic Equations with Delay	Abstracts p. 39
15:00-15:30	Toshiko Ogiwara (Josai University, Japan) Convergence Results in Order-preserving Systems and Its Applications to Reaction-diffusion Systems	Abstracts p. 38
15:30-16:00	Francois Hamel (Aix Marseille University, France) Bistable and Monostable Transition Fronts	Abstracts p. 37

Special Session 9	Dissipative Systems and Applications Organizer(s): Georg Hetzer, Wenxian Shen, Jose Ignacio Tello	Location C11-201-1
14:00-14:30	Tomas Caraballo (Universidad de Sevilla, Spain) Asymptotic Behaviour of Dissipative Lattice Dynamical Systems with Delays	Abstracts p. 42
14:30-15:00	Sylvia Novo (Universidad de Valladolid, Spain) Uniform Persistence for Monotone Skew-product Semiflows with Applications to Neural Networks	Abstracts p. 45
15:00-15:30	Jaqueline C. Ferreira (Universidade de Sao Paulo, Brazil) Dissipative Impulsive Semidynamical Systems	Abstracts p. 43
15:30-16:00	Angela Jimenez-Casas (Pontificia Comillas University, Spain) Soret Effect in a Closed-loop Thermosyphon with a Viscoelastic Fluid	Abstracts p. 44
Special Session 10	Nonlinear Elliptic Partial Differential Equations and Systems Organizer(s): Wenxiong Chen, Congming Li	Location C16-101-3
14:00-14:30	Thomas H. Otway (Yeshiva University, USA) Hodge-theoretic Methods in Nonlinear Analysis	Abstracts p. 49
14:30-15:00	Min Ji (Chinese Academy of Sciences, Peoples Rep of China) An Integral Identity and Measure Estimates for Stationary Fokker-Planck Equations	Abstracts p. 48
15:00-15:30	Eduardo Colorado (Carlos III de Madrid University, Spain) Existence Results for Some Systems of Coupled Fractional Nonlinear Schrodinger Equations	Abstracts p. 47
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Special Session 104	Instabilities and Bifurcations in Geophysical Fluid Dynamics Organizer(s): Ana Maria Mancho, Jezabel Curbelo	Location GRIS1
14:00-14:30	Vяatcheslav Solomatov (Washington University in St. Louis, USA) Localized Convection in Variable Viscosity Fluids: Implications for the Dynamics of Planetary Interiors	Abstracts p. 405
14:30-15:00	Ana M. Negredo (Universidad Complutense Madrid, Spain) Subduction Dynamics: Influence of Thermal Heterogeneities in the Upper Plate.	Abstracts p. 405
15:00-15:30	Stephane Labrosse (ENS de Lyon, France) Convection with Semi-permeable Boundary Conditions	Abstracts p. 404
15:30-16:00	Jezabel Curbelo (Instituto de Ciencias Matemáticas- UAM, Spain) Plate-like Convection Induced by Symmetries in Fluids with Temperature-dependent Viscosity	Abstracts p. 403
Special Session 105	Geometric Mechanics Organizer(s): Hernan Cendra, Darryl Holm, David Martin de Diego, Juan-Pablo Ortega	Location NARANJA
14:00-14:30	Manuel M. de Leon (ICMAT, Spain) Reduction of the Hamilton-Jacobi Equation	Abstracts p. 408
14:30-15:00	Hong Wang (Nankai University, China, Peoples Rep of China) Hamilton-Jacobi Theorems for Non-holonomic Reducible Hamiltonian Systems on a Cotangent Bundle	Abstracts p. 414
15:00-15:30	Eduardo Martinez (University of Zaragoza, Spain) Jacobi Fields and the Second Variation Formula	Abstracts p. 411
15:30-16:00	Petre Birtea (West University of Timisoara, Department of Mathematics, Romania) Double Bracket Vector Fields and Embedding Problems	Abstracts p. 407

Special Session 108	Mathematics of Nonlinear Acoustics Organizer(s): Barbara Kaltenbacher	Location E7-201
14:00-14:30	Richard J. Marchand (Slippery Rock University, USA) Spectral Analysis and Stability Estimates for the Moore–Gibson–Thompson Equation	Abstracts p. 418
14:30-15:00	Roberto Triggiani (University of Memphis, USA) Global Uniqueness and Lipschitz Stability in Determining a Damping Coefficient of the Mtg Equation by One Boundary Measurement	Abstracts p. 420
15:00-15:30	Francesca Bucci (Università di Firenze, Italy) Analysis of a Boundary Control Problem for the Moore-Gibson-Thompson Equation	Abstracts p. 418
15:30-16:00	Rainer Brunnhuber (Alpen-Adria-Universität Klagenfurt, Austria) Well-posedness and Asymptotic Behavior of Solutions for the Blackstock–Crighton–Westervelt Equation	Abstracts p. 418
Special Session 111	Computational Dynamics in Hamiltonian and Dissipative Systems Organizer(s): Fernando Blesa, Sergio Serrano, Arturo Vieiro	Location E16-106
14:00-14:30	Daniel Wilczak (Jagiellonian University, Poland) Continuation of Stable Elliptic Periodic Orbits	Abstracts p. 432
14:30-15:00	Narcis Miguel I Banos (Universitat de Barcelona, Spain) An Exploration of Global Properties of Area Preserving Maps	Abstracts p. 431
15:00-15:30	Joan Carles Tatjer (Universitat de Barcelona, Spain) On the Computation of the Abundance of Attracting Periodic Orbits for Families of 2D Dissipative Maps	Abstracts p. 432
15:30-16:00	Luis Benet (ICF, UNAM, Mexico) A Simple Model for the Location of Saturn F Ring	Abstracts p. 430

Special Session 128	How Do Complex Networks Improve Our Knowledge of Biology? Organizer(s): Jacobo Aguirre, Javier M. Buldu, Jose A. Capitan	Location E15-102
14:00-14:30	Roger Guimera (ICREA and U Rovira I Virgili, Spain) From “Description Of” to “Prediction With” Biological Networks	Abstracts p. 487
14:30-15:00	David Papo (CTB, Spain) Studying Functional Brain Activity with Complex Network Theory: Potential, Pitfalls and the Way Ahead	Abstracts p. 489
15:00-15:30	Marta Santos (Department of Physics & I3N, University of Aveiro, Portugal, Portugal) Coupled Games in Interdependent Networks with Biased Imitation	Abstracts p. 489
15:30-16:00	Josep Sardanyes (Universitat Pompeu Fabra, Spain) Variability in Mutational Fitness Effects Prevents Full Lethal Transitions in Large Quasispecies Populations	Abstracts p. 489
Contributed Session 1	ODEs and Applications Chair(s): Andrew Pickering	Location E7-103
14:00-14:20	Bianca Satco (Stefan Cel Mare University, Romania) On the Properties of Solution Sets for Measure Driven Inclusions	Abstracts p. 503
14:20-14:40	Raffaele D'Ambrosio (University of Salerno, Italy) Nearly Conservative Multi-value Numerical Methods for Hamiltonian Problems	Abstracts p. 496
14:40-15:00	Hana Machu (Palacky University Olomouc, Czech Rep) Dirichlet Problem for Differential Equations Involving Dry Friction	Abstracts p. 500
15:00-15:20	Andrew Pickering (Universidad Rey Juan Carlos, Spain) On the Derivation of Auto-Backlund Transformations	Abstracts p. 501

Contributed Session 6	PDEs and Applications Chair(s): Anna Szafranska	Location E16-105
14:00-14:20	Sakkaravarthi Karupppaiya (Bishop Heber College, India) Dynamics of Bright and Dark Solitons in Multicomponent Yajima-Oikawa System	Abstracts p. 521
14:20-14:40	Boris Muha (University of Zagreb, Croatia) A Constructive Existence Proof for a Moving Boundary Fluid-composite Structure Interaction Problem	Abstracts p. 523
14:40-15:00	Anna Szafranska (Gdańsk University of Technology, Poland) Existence and Uniqueness of Monotone and Bounded Solutions for a Finite-difference Discretization à La Mickens of the Generalized Burgers-Huxley Equation	Abstracts p. 527
15:00-15:20	Domingo A. Tarzia (CONICET & Univ. Austral, Argentina) On the Lame-Clapeyron-Stefan Problem with a Convective Boundary Condition on the Fixed Face	Abstracts p. 528
15:20-15:40	Mohamad Nakcha (HIAST Institute, Syria) Dynamic Parameters Target Recognition for Port Protection System	Abstracts p. 524
15:40-16:00	Boukricha Abderrahman (University of Tunis El Manar, Tunisia) Line Segment Cracks Identification via the Reciprocity Gap Principle and Fourier Transform	Abstracts p. 516

Parallel Session 7
 Wednesday, July 9
 16:30 – 18:30

Special Session 2	Nonlinear Evolution PDEs and Interfaces in Applied Sciences Organizer(s): Gunduz Caginalp, Maurizio Grasselli, Alain Miranville	Location EPS10
16:30-17:00	Olivier Goubet (LAMFA UMR 7352 CNRS UPJV, France) The Gel'fand Problem for the Biharmonic Operator	Abstracts p. 12
17:00-17:30	Monica Conti (Politecnico di Milano, Italy) Asymptotic Structure of the Attractor for Processes on Time-dependent Spaces	Abstracts p. 11
17:30-18:00	Riccarda Rossi (Università degli Studi di Brescia, Italy) Entropic Solutions to a PDE System for Phase Transitions and Damage in Thermoviscoelastic Materials	Abstracts p. 14
18:00-18:30	Ulisse Stefanelli (University of Vienna, Austria) Nonlinear Evolution As Convex Minimization	Abstracts p. 15
Special Session 3	Mathematical Models in the Systems Biology of Cancer Organizer(s): Philip K. Maini, Gabriel F. Calvo, Juan Belmonte-Beitia	Location C11-101-3
16:30-17:00	Urszula Ledzewicz (Southern Illinois University, USA) From MTD Towards Metronomic Chemotherapy: the Role of the Tumor Microenvironment	Abstracts p. 17
17:00-17:30	Sergei Fedotov (The University of Manchester, England) Anomalous Transport and Migration-proliferation Dichotomy of Cancer Cells.	Abstracts p. 16
17:30-18:00	Florence Hubert (Université D'Aix-Marseille, France) Mathematical Modeling of Tumor Growth and Metastatic Spreading: Validation in Tumor-Bearing Mice	Abstracts p. 16
18:00-18:30	Anna Marciniak-Czochra (University of Heidelberg, Germany) Clonal Selection and Therapy Resistance in Acute Leukemias: Mathematical Modelling Explains Different Proliferation Patterns at Diagnosis and Relapse	Abstracts p. 17

Special Session 5	Differential Delay Equations Organizer(s): Fatihcan M. Atay, Bernhard Lani-Wayda, Hans-Otto Walther	Location C16-101-5
16:30-17:00	Serhiy Yanchuk (Humboldt University, Germany) Pattern Formation in Systems with Multiple Delayed Feedbacks	Abstracts p. 26
17:00-17:30	Teresa Faria (University of Lisbon, Portugal) Global Dynamics for Some Classes of Lotka-Volterra Systems with Infinite Delay	Abstracts p. 24
17:30-18:00	Hermen Jan Hupkes (Leiden University, Netherlands) Travelling Waves for Fully Discretized Bistable Reaction-Diffusion Problems	Abstracts p. 24
Special Session 6	Random Dynamical Systems in the Life Sciences Organizer(s): Xiaoying Han, Peter Kloeden	Location C11-101-1
16:30-17:00	Georgi Medvedev (Drexel University, USA) Dynamics of Large Networks: Taking It to the Limit	Abstracts p. 29
17:00-17:30	Tomas Caraballo (Universidad de Sevilla, Spain) Chemostats with Random Inputs	Abstracts p. 27
17:30-18:00	Eva Herrmann (Goethe University Frankfurt, Germany) Viral Kinetic Modeling Approaches in Chronic Hepatitis	Abstracts p. 28
18:00-18:30	Xiaoying Han (Auburn University, USA) Implicit Simulation Methods for Stochastic Chemical Kinetics	Abstracts p. 28
Special Session 9	Dissipative Systems and Applications Organizer(s): Georg Hetzer, Wenxian Shen, Jose Ignacio Tello	Location C11-201-1
16:30-17:00	King-Yeung Lam (Ohio State University, USA) On the Stability of Steady States of a Free-boundary Granuloma Model	Abstracts p. 44
17:00-17:30	Anotida Madzvamuse (University of Sussex, England) Recent Advances in Pattern Formation on Growing and Evolving Surfaces: Theory, Numerics and Applications	Abstracts p. 45
17:30-18:00	Dung Le (University of Texas at San Antonio, USA) Global and Blow Up Solutions to Cross Diffusion Systems on 3D Domains	Abstracts p. 44
18:00-18:30	Alfonso Casal (Universidad Politecnica de Madrid, Spain) Is It Possible to Maintain the Global Existence After the Blowing Up of a Solution of a Reaction -diffusion Equation?	Abstracts p. 42

Special Session 10	Nonlinear Elliptic Partial Differential Equations and Systems Organizer(s): Wenxiong Chen, Congming Li	Location C16-101-3
16:30-17:00	Dingsheng Li (Xi'an Jiaotong University, Peoples Rep of China) Differentiability of Elliptic Equations on the Boundary	Abstracts p. 49
17:00-17:30	Shaohua Chen (Cape Breton University, Canada) Existence, Uniqueness and Nonexistence of Positive Solutions for a Class of Semilinear Elliptic Systems	Abstracts p. 47
17:30-18:00	Genggeng Huang (Shanghai Jiao Tong University, Peoples Rep of China) Existence of Non-topological Solutions for a Skew-symmetric Chern-Simons System	Abstracts p. 48
18:00-18:30	Congming Li (Shanghai Jiao Tong University, Peoples Rep of China) Analysis of Hardy-Littlewood-Sobolev Type Systems	Abstracts p. 49
Special Session 11	Dynamics of Fluids and Nonlinear Waves Organizer(s): Zhiwu Lin, Chongchun Zeng	Location E7-101
16:30-17:00	Bin Cheng (University of Surrey, England) Time-averaging and Error Estimates for Reduced Fluid Models	Abstracts p. 51
17:00-17:30	Philippe P. Caillo (University of Bío-Bío, Chile) A Steady Nonlinear and Singular Vortex Rossby Wave Within a Rapidly Rotating Vortex	Abstracts p. 51
17:30-18:00	Ning Jiang (Tsinghua University, Peoples Rep of China) Navier-Stokes-Fourier Limits from Boltzmann Equation	Abstracts p. 52
Special Session 15	Geometric and Variational Techniques in the N-body Problem Organizer(s): Vivina L. Barutello, Alessandro Portaluri	Location C11-201-2
16:30-17:00	Hiroshi Ozaki (Tokai University, Japan) Three Tangents Theorem in Three-body Motion in Three-dimensional Space	Abstracts p. 69
17:00-17:30	Katsumi Matsuda (Tokai University, Japan) Complex Analytic Aspects of the 3-tangent Theorem on the Planar 3-body Problem	Abstracts p. 69
17:30-18:00	Tomasz Kapela (Jagiellonian University, Poland) KAM Stability of the Eight	Abstracts p. 69
18:00-18:30	Sergey Bolotin (Department of Mathematics, University of Wisconsin, USA) Variational Approach to Poincaré's Second Species Solutions of the Nonrestricted 3 Body Problem	Abstracts p. 68

Special Session 19	Nonautonomous Dynamics Organizer(s): Russell Johnson, Sylvia Novo, Rafael Obaya	Location EPS4
16:30-17:00	Luca Zampogni (University of Perugia, Italy) Construction of Generalized Reflectionless Potentials for the Sturm-Liouville Operator	Abstracts p. 90
17:00-17:30	Pau Rabassa (Queen Mary, University of London, England) Superstable Periodic Orbits of 1d Maps Under Quasi-periodic Forcing and Reducibility Loss	Abstracts p. 88
17:30-18:00	Alessandro A. Fortunati (Bristol University, England) Stability in Aperiodic Nearly-Integrable Hamiltonian Systems	Abstracts p. 86
18:00-18:30	Evamaria Russ (Alpen-Adria Universität Klagenfurt, Austria) Dichotomy Spectrum in Infinite Dimensions	Abstracts p. 89
Special Session 20	Dynamics with Fractional and Time Scale Derivatives Organizer(s): Martin Bohner, Natalia Martins, Delfim F. M. Torres	Location C16-101-6
16:30-17:00	Zbigniew Bartosiewicz (Bialystok University of Technology, Poland) Simplification of the Structure of Analytic Systems on Time Scales	Abstracts p. 91
17:00-17:30	Natalia Martins (University of Aveiro, Portugal) Noether's Second Theorem for Variational Problems Involving Multiple Delta Integrals	Abstracts p. 92
17:30-18:00	Delfim F. M. Torres (University of Aveiro, Portugal) Necessary Condition for a Dynamic Euler-Lagrange Integro-differential Equation	Abstracts p. 93
Special Session 21	Variational, Topological, and Set-valued Methods for Differential Problems Organizer(s): Gabriele Bonanno, Siegfried Carl, Salvatore A. Marano, Dumitru Motreanu	Location EPS8
16:30-17:00	Alberto Boscaggin (University of Milano-Bicocca, Italy) Periodic Solutions of Second Order ODEs: a Symplectic Approach	Abstracts p. 94
17:00-17:30	Calin Serban (West University of Timisoara, Romania) Numerical Extremal Solutions for a Mixed Problem with Singular ϕ -Laplacian	Abstracts p. 99
17:30-18:00	Giuseppe Viglialoro (University of Cagliari, Italy) Blowing Up and Global Solutions of a Nonlinear Parabolic Problem	Abstracts p. 100

Special Session 24	Qualitative Analysis of Reaction Diffusion Systems Organizer(s): Junping Shi, Xingfu Zou	Location E7-202
16:30-17:00	Shin-Hwa Wang (National Tsing Hua University, Taiwan) Exact Multiplicity and Bifurcation Diagrams of Positive Solutions of a One-dimensional Multiparameter Prescribed Mean Curvature Problem	Abstracts p. 112
17:00-17:30	Yuanwei Qi (University of Central Florida, USA) Traveling Waves Solutions of Isothermal Diffusion Systems with Decay	Abstracts p. 111
17:30-18:00	Bao Q. Tang (Institute for Mathematics and Scientific Computing, University of Graz, Austria) Well-posedness and Exponential Equilibration of a Volume-surface Reaction-diffusion System with Nonlinear Boundary Coupling	Abstracts p. 111
18:00-18:30	Junping Shi (College of William and Mary, USA) Higher Dimensional Solitary Waves Generated by Second-Harmonic Generation in Quadratic Media	Abstracts p. 111
Special Session 27	Mathematical Problems in Economics, Materials and Life Science: Analysis and Simulation of Nonlinear Multiscale Dynamics Organizer(s): Toyohiko Aiki, Nobuyuki Kenmochi, Adrian Muntean	Location E16-102
16:30-17:00	Hartmut R. Schwetlick (University of Bath, England) On the Travelling Wave Problem for Elastic Phase Transitions in the Fermi-Pasta-Ulam Chain	Abstracts p. 124
17:00-17:30	Ken Shirakawa (Chiba University, Japan) Energy Dissipations for Mathematical Models of Grain Boundary Motions with Isothermal Solidifications	Abstracts p. 124
17:30-18:00	KIeuske Takasao (Hokkaido University, Japan) The Existence of Weak Solution for Mean Curvature Flow with Transport Term	Abstracts p. 124
18:00-18:30	Hiroshi Watanabe (Salesian Polytechnic, Japan) Strongly Degenerate Parabolic Equations with Diffusion Coefficients Depending on the Spatial Variable	Abstracts p. 124

Special Session 32	Applied Analysis and Dynamics in Engineering and Sciences Organizer(s): Thomas Hagen, Florian Rupp	Location E15-103
16:30-17:00	Clemens Woywod (University of Tromso, Norway) Exact and Approximate Wave Packet Dynamics with Quantum Trajectories	Abstracts p. 146
17:00-17:30	Tobias Neckel (TU Muenchen, Germany) RPDE-RODE Reduction for Earthquake-induced Oscillations of Solid Structures	Abstracts p. 144
17:30-18:00	Fernanda Botelho (University of Memphis, USA) Classes of Operators on Some Spaces of Analytic Functions	Abstracts p. 142
18:00-18:30	Thomas Hagen (University of Memphis, USA) Dynamics in Droplet Networks	Abstracts p. 144
Special Session 34	Variational Methods for Discrete and Continuous Boundary Value Problems (with Applications) Organizer(s): Antonio Iannizzotto, Giovanni Molica Bisci, Vicentiu D. Radulescu	Location C0-307
16:30-17:00	Sofia Giuffré (Mediterranea University of Reggio Calabria, Italy) Measure Type and L^p Lagrange Multipliers in Elastic-Plastic Torsion	Abstracts p. 153
17:00-17:30	Binlin Zhang (Heilongjiang Institute of Technology, Peoples Rep of China) On Non-local Fractional Equations with Asymmetries	Abstracts p. 155
17:30-18:00	Maurizio Imbesi (University of Messina, Italy) Discrete Dirichlet Problems and Nonlinear Algebraic Systems	Abstracts p. 153
18:00-18:30	Lin Li (Southwest University, China, Peoples Rep of China) Existence and Multiplicity of Self-similar Solutions for the Heat Equation with Indefinite Weight Functions	Abstracts p. 153

Special Session 35	Direct and Inverse Problems in Wave Propagation Organizer(s): Fioralba Cakoni, Francisco-Javier Sayas	Location C0-205
16:30-17:00	Armin Lechleiter (University of Bremen, Germany) Characterization of Transmission Eigenvalues	Abstracts p. 159
17:00-17:30	Roland Griesmaier (Universität Leipzig, Germany) Enhanced Approximate Cloaking by Optimal Change of Variables	Abstracts p. 158
17:30-18:00	Michele di Cristo (Politecnico di Milano, Italy) Size Estimates in Inverse Problems	Abstracts p. 157
18:00-18:30	Elena Beretta (Politecnico di Milano, Italy) An Inverse Boundary Value Problem for the Reduced Wave Equation with Multi-frequency Data	Abstracts p. 157
18:30-19:00	Shari Moskow (Drexel University, USA) Asymptotic Expansions for Transmission Eigenvalues in the Presence of Small Inhomogeneities	Abstracts p. 159
Special Session 36	Analytical Aspects of the Dynamics of Nonlinear Schrodinger Equations Organizer(s): Francois Genoud	Location C11-501-1
16:30-17:00	Vianney Combet (Université Lille 1, France) Local Dynamics Near Unstable Branches of NLS Solitons	Abstracts p. 161
17:00-17:30	Eduard Kirr (University of Illinois, USA) Dynamical Aspects Near Bifurcation Points in NLS	Abstracts p. 161
17:30-18:00	Toshiyuki Suzuki (Tokyo University of Science, Japan) Wellposedness for Nonlinear Schrodinger Equations with Inverse-square Potentials	Abstracts p. 163
18:00-18:30	Andre de Laire (Université Lille 1, France) Stability in the Energy Space for Chains of Solitons of the Landau-Lifshitz Equation	Abstracts p. 161

Special Session 38	Recent Trends in Nonlinear Schrodinger Systems Organizer(s): Benedetta Pellacci, Gianmaria Verzini	Location C11-201-4
16:30-17:00	Louis Jeanjean (University of Franche Comte, France) Normalized Solutions for Nonlinear Schrodinger Sytems	Abstracts p. 170
17:00-17:30	Raquel Lehrer (UNIOESTE, Brazil) Asymptotically Linear Fractional Schrodinger Equations	Abstracts p. 170
17:30-18:00	Dimitri Mugnai (University of Perugia, Italy) On a Pseudorelativistic Hartree Equation	Abstracts p. 171
18:00-18:30	Eugenio Montefusco (Roma University, Italy) Multiple Constraints and Nonlinear Schrodinger Systems	Abstracts p. 170
Special Session 43	Harmonic Analysis Tools for Fluid Mechanics Organizer(s): Francesco di Plinio, Roger Temam, Djoko Wirosoetisno	Location C0-312
16:30-17:00	Stefan Steinerberger (Yale University, USA) Dispersion Dynamics of the Defocusing Korteweg - de Vries Equation	Abstracts p. 186
17:00-17:30	Toan Nguyen (Penn State University, USA) Spectral Instability of Characteristic Boundary Layer Flows	Abstracts p. 186
17:30-18:00	Renato R. Luca (ICMAT, Spain) Partial Regularity with Angular Integrability for the Navier-Stokes Equation	Abstracts p. 185
18:00-18:30	Pablo Raul P. Stinga (The University of Texas at Austin, USA) The (discrete and Continuous) Fractional Laplacian	Abstracts p. 186

Special Session 44	Quasilinear Elliptic and Parabolic Problems and Their Applications Organizer(s): J.F. Padial, P. Takac, L. Tello	Location E16-101
16:30-17:00	Jochen Merker (University of Applied Science Stralsund, Germany) Positivity of Self-similar Solutions to Doubly Nonlinear Reaction-diffusion Equations	Abstracts p. 190
17:00-17:30	Ana Muñoz (Rey Juan Carlos University, Spain) A Finite Element Approach to Modelling Tumor Growth	Abstracts p. 190
17:30-18:00	Vladimir Bobkov (University of Rostock, Germany) On Maximum and Comparison Principles for Parabolic Problems with p -Laplacian	Abstracts p. 188
18:00-18:30	Juan Francisco J. Padial Molina (Univ. Politecnica de Madrid, Spain) Comparison Principle for Doubly Nonlinear Parabolic Systems in the $BV_T(Q)$ Space Revisted and New Applications	Abstracts p. 190
Special Session 45	Hybrid Imaging Methods Organizer(s): Leonid Kunyansky, Shari Moskow, John Schotland	Location C11-201-5
16:30-17:00	Loc Nguyen (Ecole Polytechnique Federale de Lausanne, Switzerland) Micro - Electrical Impedance Tomography	Abstracts p. 193
17:00-17:30	John C. Schotland (University of Michigan, USA) Ultrasound Modulated Bioluminescence Imaging	Abstracts p. 194
17:30-18:00	Plamen Stefanov (Purdue University, USA) Nanophosphor Image Reconstruction with Selective Excitation	Abstracts p. 194
Special Session 51	Variational Analysis and Applications to Equilibrium Problems Organizer(s): Patrizia Daniele, Sofia Giuffre	Location C16-101-1
16:30-17:00	Laura Scrimali (University of Catania, Italy) On the Optimal Pollution Emission Price Problem	Abstracts p. 214
17:00-17:30	Daniela Lera (University of Cagliari, Italy) Global Optimization Methods Using Space-filling Curves	Abstracts p. 214
17:30-18:00	Cristina Mirabella (University of Catania, Italy) General Financial Equilibrium Problem	Abstracts p. 214
18:00-18:30	Annamaria Barbagallo (University of Naples, Italy) Evolutionary Quasi-variational Inequalities and Applications to a General Cournot-Nash Priciple	Abstracts p. 213

Special Session 53	Infinite Dimensional Stochastic Systems and Applications Organizer(s): Wilfried Grecksch	Location C16-101-2
16:30-17:00	Michael Roeckner (University of Bielefeld, Germany) An Operatorial Approach to Stochastic Partial Differential Equations Driven by Linear Multiplicative noise	Abstracts p. 222
17:00-17:30	Hakima Bessaih (University of Wyoming, USA) Continuous Data Assimilation with Stochastically Noisy Data	Abstracts p. 220
17:30-18:00	Luigi Amedeo Bianchi (Universität Augsburg, Germany) Amplitude Equations for Stochastic Swift Hohenberg Equation	Abstracts p. 220
18:00-18:30	Frank Wusterhausen (Martin Luther University Halle-Wittenberg, Germany) Stochastic Delay Equation with Lévy Noise	Abstracts p. 223
Special Session 54	Nonlocal Fractional Problems and Related Topics Organizer(s): Raffaella Servadei	Location C16-101-4
16:30-17:00	Eleonora Cinti (Università di Bologna, Italy) A Liouville-type Result for a Nonlinear and Nonlocal Equation in the Heisenberg Group	Abstracts p. 224
17:00-17:30	Xifeng Su (Beijing Normal University and Université de Bordeaux (IMB), Peoples Rep of China) Multiplicity of Solutions for Non-local Elliptic Equations Driven by the Fractional Laplacian	Abstracts p. 225
17:30-18:00	Binlin Zhang (Heilongjiang Institute of Technology, Peoples Rep of China) Multiple Solutions for Non-local Fractional Problems Via Morse Theory	Abstracts p. 226
18:00-18:30	Silvia Sastre-Gomez (Universidad Complutense de Madrid, Spain) A Nonlocal Two Phase Stefan Problem	Abstracts p. 225

Special Session 55	Microlocal Analysis and the Inverse Conductivity Problem Organizer(s): Raluca Felea, Romina Gaburro	Location C11-201-3
16:30-17:00	Thierry Daude (Universite de Cergy-Pontoise, France) Inverse Scattering at Fixed Energy on Asymptotically Hyperbolic Liouville Surfaces	Abstracts p. 228
17:00-17:30	Mikko Salo (University of Jyvaskyla, Finland) The Anisotropic Calderon Problem	Abstracts p. 229
17:30-18:00	Erkki Somersalo (Case Western Reserve University, USA) Non-local Boundary Conditions and Domain Truncation in Electrical Impedance Tomography	Abstracts p. 229
18:00-18:30	Hiroshi Isozaki (Tsukuba University, Japan) Spectral Properties of Schroedinger Operators on Perturbed Lattices	Abstracts p. 228
Special Session 59	Central Configurations, Periodic Solutions, Variational Method and Beyond in Celestial Mechanics Organizer(s): Tiancheng Ouyang, Zhifu Xie, Duokui Yan	Location E7-104
16:30-17:00	Elizabeth Zollinger (St. Joseph's College, USA) A Family of Orbits in the Equal Mass 3-body Problem	Abstracts p. 241
17:00-17:30	Li Bingyu (Si Chuan University, Peoples Rep of China) Mountain Pass Lemma and New Periodic Solutions of the Singular Second Order Hamiltonian System	Abstracts p. 239
17:30-18:00	Daniel Nunez (Pontificia Universidad Javeriana de Cali, Colombia) Quantifying the Bifurcation of Stable Symmetric Periodic Solutions from the Center Mass in the Sitnikov Problem	Abstracts p. 239
18:00-18:30	Duokui Yan (Beihang University, Peoples Rep of China) Classification of Periodic Orbits in the Planar Four-body Problem	Abstracts p. 241

Special Session 60	Recent Advances in Evolutionary Equations Organizer(s): Ryo Ikehata, Tuoc Phan, Grozdena Todorova	Location C0-302
16:30-17:00	Kiyoshi Mochizukii (Emeritus, Tokyo Metropolitan University, Japan) Resolvent Estimates and Space-time Estimates for the Wave Equations	Abstracts p. 245
17:00-17:30	Hideo Nakazawa (Nippon Medical School, Japan) Sharp Uniform Resolvent Estimate for Helmholtz and Schrödinger Equations in an Exterior Domain in \mathbb{R}^2 and Their Applications.	Abstracts p. 245
17:30-18:00	Kenji Nishihara (Waseda University, Japan) On the Cauchy Problem for Weakly Coupled System of Damped Wave Equations	Abstracts p. 245
18:00-18:30	Marcello D'Abbicco (University of Sao Paulo, FFCLRP - FAPESP JP, Brazil) Critical Exponent for Damped Waves with Nonlinear Memory	Abstracts p. 244
Special Session 63	Advanced High Order Geometric Numerical Integration Methods for Differential Equations Organizer(s): Sergio Blanes, Fernando Casas	Location E7-203
16:30-17:00	M. Jesús Moreta (Universidad Complutense de Madrid, Spain) Symmetric Multistep Cosine Methods for Second-order Partial Differential Systems	Abstracts p. 259
17:00-17:30	Miguel Atencia (University of Malaga (Spain), Spain) Geometric Integration Methods of High Order for Gradient Systems	Abstracts p. 258
17:30-18:00	Luis Randez (University of Zaragoza, Spain) Adaptive Multi-revolution Runge-Kutta Methods	Abstracts p. 259
18:00-18:30	Marcos Rodríguez (Centro Universitario de La Defensa de Zaragoza, Spain) Taylor Method As a Geometric Integrator	Abstracts p. 259
Special Session 64	Traveling Waves and Patterns Organizer(s): Anna Ghazaryan, Vahagn Manukian	Location E16-103
16:30-17:00	Dan Marchesin (Institute for Pure and Applied Mathematics, Brazil) Open Problems on Traveling Waves in Combustion in Porous Media	Abstracts p. 262
17:00-17:30	Anna Geyer (Universitat Autònoma de Barcelona, Austria) Orbital Stability of Solitary Waves of Moderate Amplitude in Shallow Water	Abstracts p. 261
17:30-18:00	Alexei A. Mailybaev (IMPA, Brazil) Universal Structure of Blowup in Hyperbolic Systems of Conservation Laws	Abstracts p. 262

Special Session 68	Entropy-like Quantities and Applications Organizer(s): J.M. Amigo, K. Keller, B. Pompe	Location C0-204
16:30-17:00	Francisco Balibrea (Universidad de Murcia, Spain) On Non-autonomous Systems Through Perturbations	Abstracts p. 277
17:00-17:30	María M. Muñoz Guillermo (Universidad Politécnica de Cartagena, Spain) Computing the Topological Entropy of Continuous Maps Using Kneading Sequences	Abstracts p. 280
17:30-18:00	Mariano Matilla-Garcia (UNED, Spain) Symbolic Correlation Integral	Abstracts p. 279
18:00-18:30	Taciano A. Sorrentino (Universitat Politècnica de Catalunya, Spain) Ordinal Time-series Analysis Applied to the Characterization of a Forced Excitable System	Abstracts p. 281
Special Session 70	Nonlinear Phenomena: Theory and Applications Organizer(s): Francesco Demontis, Sara Lombardo, Giovanni Ortenzi, Matteo Sommacal	Location EPS7
16:30-17:00	David Gomez-Ullate (ICMAT and Universidad Complutense, Spain) Exceptional Hermite Polynomials and Rational Solutions of NLS	Abstracts p. 287
17:00-17:30	Paolo Pintus (Scuola Superiore Sant'Anna, Italy) Full-vectorial Finite Element Mode Solver for Lossy and Non-reciprocal Ring Resonators	Abstracts p. 288
17:30-18:00	Tihomir T. Valchev (Dublin Institute of Technology, Ireland) On Nonlocal Reductions of S-integrable Nonlinear Equations	Abstracts p. 289
Special Session 74	Collective Behaviour in Biological and Social Aggregations Organizer(s): Joep Evers, Razvan Fetecau	Location C11-101-2
16:30-17:00	Maria R. D'orsogna (California State University at Northridge, USA) Stochastic Clustering and Aggregation in Biological Systems	Abstracts p. 302
17:00-17:30	Daniela Morale (University of Milano, Italy) Collective Behavior in Stochastic Populations	Abstracts p. 303
17:30-18:00	Klemens Fellner (University of Graz, Austria) Continuum Models of Cohesive Stochastic Swarms	Abstracts p. 302

Special Session 86	Nonlinear Evolution Equations and Related Topics Organizer(s): Mitsuharu Otani, Tohru Ozawa	Location C11-101-4
16:30-17:00	Kerime Kalli (Hacettepe University, Turkey) Solvability and Long Time Behavior of Nonlinear Parabolic Equation Under the Third Type Boundary Condition	Abstracts p. 343
17:00-17:30	Shun Uchida (Waseda University, Japan) Large Time Behavior of Solutions for Double-diffusive Convection Systems Based on Brinkman-Forchheimer Equation	Abstracts p. 344
17:30-18:00	Joseph L. Shomberg (Providence College, USA) Attractors of the Hyperbolic Relaxation of Reaction Diffusion Equations with Dynamic Boundary Conditions	Abstracts p. 344
Special Session 88	Stochastic Processes and Spectral Theory for Partial Differential Equations and Boundary Value Problems Organizer(s): Francis Nier, Tony Lelievre	Location C0-206
16:30-17:00	Grigorios A. Pavliotis (Imperial College London, England) Exponential Return to Equilibrium for Hypoelliptic Quadratic Systems and Applications	Abstracts p. 352
17:00-17:30	David G. Aristoff (University of Minnesota, USA) Mathematical Foundations of Temperature Accelerated Dynamics (TAD)	Abstracts p. 350
17:30-18:00	Mathias Rousset (INRIA, France) Tanaka's Quantitative Dissipation, Markov Coupling, and Kac's Conservative N-particle Systems.	Abstracts p. 352
Special Session 90	Analysis of Hyperbolic PDEs Organizer(s): Anahit Galstyan, Fumihiko Hirosawa, Jens Wirth	Location C0-207
16:30-17:00	Nikolaos Bournaveas (University of Edinburgh, Scotland) Low Regularity Solutions for Nonlinear Dirac Equations	Abstracts p. 358
17:00-17:30	Kyouhei Wakasa (Hokkaido University, Japan) Blow-up of Solutions to Semilinear Wave Equations with Non-zero Initial Data	Abstracts p. 360
17:30-18:00	Fumihiko Hirosawa (Yamaguchi University, Japan) A Class of Non-analytic Functions for the Global Solvability of Kirchhoff Equation	Abstracts p. 358
18:00-18:30	Taeko Yamazaki (Tokyo University of Science, Japan) Scattering for a Quasilinear Hyperbolic Equation of Kirchhoff Type with Dissipation Term Integrable in Time	Abstracts p. 360

Special Session 93	Partial Differential Equations Arising from Biology and Physics Organizer(s): Shangbin Cui, Jianhua Wu, Bei Hu, Joachim Escher	Location E7-105
16:30-17:00	Shangbin Cui (Sun Yat-Sen University, Peoples Rep of China) Linearized Eigenvalues for a Free Boundary Problem Modeling Two-phase Tumor Growth	Abstracts p. 368
Special Session 99	Asymptotic Expansion for Nonoscillatory Solutions of Differential and Difference Equations Organizer(s): Serena Matucci, Pavel Rehak	Location E7-102
16:30-17:00	Martin M. Rohleder (Palacky University in Olomouc, Czech Rep) Asymptotic Properties of Damped Solutions of Nonlinear Singular ODE	Abstracts p. 387
17:00-17:30	Malgorzata Migda (Poznan University of Technology, Poland) Asymptotic Properties of Solutions of Volterra Difference Equations	Abstracts p. 386
17:30-18:00	Josef Diblik (Brno University of Technology, Czech Rep) Explicit Criteria for the Existence of Positive Solutions to the Linear Advanced Equation $\dot{X}(t) = c(t)x(t + \tau)$	Abstracts p. 386
18:00-18:30	Janusz Migda (A. Mickiewicz University, Poland) Asymptotic Behavior of Solutions of Difference Equations	Abstracts p. 386
Special Session 103	Periodic Solutions for Dynamical Systems Organizer(s): Adriana Buica, Susanna Maza	Location E15-104
16:30-17:00	Jordi Villadelprat (Universitat Rovira I Virgili, Spain) On the Algebraic Structure of the Polynomial Quadratic-like Hamiltonian Isochrones	Abstracts p. 401
17:00-17:30	Maria Jesus Alvarez (Universitat de Les Illes Balears, Spain) Period Function for the Sum of Two Homogeneous Systems	Abstracts p. 397
17:30-18:00	Iulian Stoleriu (University "Al. I. Cuza" from Iasi, Romania) Periodic Solutions for a Pair of Coupled Oscillators at Resonance	Abstracts p. 400
18:00-18:30	David Rojas (Universitat Autònoma de Barcelona, Spain) On the Period Function Near the Outer Boundary.	Abstracts p. 400

Special Session 104	Instabilities and Bifurcations in Geophysical Fluid Dynamics Organizer(s): Ana Maria Mancho, Jezabel Curbelo	Location GRIS1
16:30-17:00	Antonio M. Alvarez-Valero (Universidad de Salamanca, Spain) Quantitative Thinking Under the Volcano: Integrating Rocks, Numbers and Experiments to Advance the Knowledge of Sub-volcanic Processes	Abstracts p. 402
17:00-17:30	Juan M. Lopez (Arizona State University, USA) Instabilities of Plumes Driven by Localized Heating in Initially Isothermal Or Stably Stratified Ambients	Abstracts p. 404
17:30-18:00	Philippe Beltrame (Université D'Avignon / UMR EmmaH, France) Onset of Intermittent Octahedral Patterns in Spherical Bénard Convection	Abstracts p. 402
18:00-18:30	Marta Net (Universitat Politecnica de Catalunya, Spain) Influence of the Composition on the Onset of Convection in Rotating Spherical Shells	Abstracts p. 405
Special Session 105	Geometric Mechanics Organizer(s): Hernan Cendra, Darryl Holm, David Martin de Diego, Juan-Pablo Ortega	Location NARANJA
16:30-17:00	Alberto Ibort (ICMAT, UCIIM, Spain) On a Class of Kählerian Hamiltonian Systems on Infinite Dimensional Kähler Manifolds with Holomorphic Flows	Abstracts p. 410
17:00-17:30	Martins Bruveris (EPFL, Switzerland) Completeness for Sobolev Metrics on the Space of Plane Curves	Abstracts p. 407
17:30-18:00	Eva Miranda (UPC, Spain) Symmetries of B-manifolds and Their Generalizations	Abstracts p. 412
18:00-18:30	David Fernandez (ICMAT, Spain) Bi-symplectic $\mathbb{N}Q$ -algebras of Weight 1	Abstracts p. 409

Special Session 108	Mathematics of Nonlinear Acoustics Organizer(s): Barbara Kaltenbacher	Location E7-201
16:30-17:00	Mechthild Thalhammer (University of Innsbruck, Austria) Efficient Time Integration Methods Based on Operator Splitting and Application to the Westervelt Equation	Abstracts p. 420
17:00-17:30	Christian Clason (University Duisburg-Essen, Germany) Avoiding Degeneracy in the Westervelt Equation by State Constrained Optimal Control	Abstracts p. 418
17:30-18:00	Gunther Peichl (University of Graz, Austria) Shape Optimization and Free Boundary Problems	Abstracts p. 419
18:00-18:30	Igor Shevchenko (Imperial College London, England) Absorbing Boundary Conditions for the Westervelt Equation	Abstracts p. 419
Special Session 115	Mathematical Models of Chemotaxis Organizer(s): Jose Ignacio Tello, Michael Winkler	Location EPS5
16:30-17:00	Piotr Biler (University of Wroclaw, Poland) Blowup in Multidimensional Chemotaxis	Abstracts p. 443
17:00-17:30	Christian Stinner (University of Kaiserslautern, Germany) Competitive Exclusion in a Two-species Chemotaxis Model	Abstracts p. 446
17:30-18:00	Yoshie Sugiyama (Kyushu University, Japan) Uniqueness Theorem on Weak Solutions to the Keller-Segel System of Degenerate and Singular Types	Abstracts p. 446
18:00-18:30	Maria Vela-Perez (Universidad Europea de Madrid; CEA, Spain) From Individual to Collective Dynamics in Argentine Ants	Abstracts p. 447

Special Session 121	Numerical Techniques for the Description of Charged Particles Transport Organizer(s): Francesco Vecil	Location E16-106
16:30-17:00	Carlos Sampedro (University of Granada, Spain) Multi-Subband Ensemble Monte Carlo Simulation of Nanodevices for the 14nm Node and Beyond	Abstracts p. 471
17:00-17:30	María Cáceres (Universidad de Granada, Spain) Deterministic WENO-solvers for MOSFETs Devices	Abstracts p. 469
17:30-18:00	Jose Miguel J. Mantas Ruiz (University of Granada, Spain) Parallelization of a Boltzmann-Schrödinger-Poisson Solver for 2D Nano DG-MOSFET Device	Abstracts p. 470
18:00-18:30	Clément Jourdana (Université Joseph Fourier, France) Hybrid Classical-quantum Electron Transport Models for Strongly Confined Nanostructures	Abstracts p. 470
Special Session 128	How Do Complex Networks Improve Our Knowledge of Biology? Organizer(s): Jacobo Aguirre, Javier M. Buldu, Jose A. Capitan	Location E15-102
16:30-17:00	Saul Ares (CNB - CSIC, Spain) Topology and Dynamics of the Zebrafish Segmentation Clock Genetic Network	Abstracts p. 487
17:00-17:30	Sandro Meloni (University of Zaragoza, Spain) Competition and Coexistence of Multiple Pathogens in Metapopulation Models	Abstracts p. 489
17:30-17:50	Johann H. Martínez Huartos (Universidad del Rosario, Technical University of Madrid, Colombia) Using Parenchitic Networks to Evaluate the Loss of Brain Consistency	Abstracts p. 488
17:50-18:10	Rubén J. R. Requejo (Universitat de Barcelona, Spain) Multi-layer Networks in Evolutionary Game Theory.	Abstracts p. 489
18:10-18:30	Jacobo Aguirre (Centro de Astrobiología CSIC-INTA, Spain) But... Do Complex Networks Really Improve Our Knowledge of Biology?	Abstracts p. 487

Contributed Session 1	ODEs and Applications Chair(s): Petr Hasil	Location E7-103
16:30-16:50	Petr Hasil (Department of Mathematics and Statistics, Masaryk University, Brno, Czech Rep) Critical Oscillation Constant for Half-linear Differential Equations with Coefficients Having Mean Values	Abstracts p. 498
16:50-17:10	Aliasghar A. Jodayree Akbarfam (University of Tabriz, Iran) Trace Formula of Indefinite Problem with One Simple Turning Point	Abstracts p. 499
17:10-17:30	Lana Horvat Dmitrovic (University of Zagreb, Croatia) Fractal Analysis of Unit-time Map and Cyclicity of Nilpotent Singularities of Planar Vector Fields	Abstracts p. 498
17:30-17:50	Felikss Sadirbajevs (Institute of Mathematics, University of Latvia, Latvia) Nehari Solutions for Superlinear Boundary Value Problems	Abstracts p. 502
17:50-18:10	Majda Idlango (Al Jabal Al Gharbi University, Libya) Transitions in a Logistic Population Model Incorporating an Allee Effect	Abstracts p. 499
18:10-18:30	Yuri Y. Menshikov (Dnepropetrovsk University, Ukraine) Inverse Problem of Astrodynamics	Abstracts p. 500

Contributed Session 2	Modeling, Math Biology and Math Finance Chair(s): Anna Maria Cherubini	Location C0-301
16:30-16:50	Magdalena Bogdanska (Uniwersytet Warszawski, Wydział Matematyki, Informatyki i Mechaniki, Poland) Mathematical Models for Dynamics of Low Grade Gliomas and Its Response to Radio- and Chemotherapy	Abstracts p. 505
16:50-17:10	Teerapol Saleewong (King Mongkut's University of Technology Thonburi, Thailand) A Proposed Mathematical Model of Avian Influenza A, H7N9 for China	Abstracts p. 510
17:10-17:30	Victor A. Gotlib (Holon Institute of Technology, Israel) Dynamical Interaction Between Cancer Tumor and Immune System of the Organism	Abstracts p. 507
17:30-17:50	Isaac C. Donnelly (University of New South Wales, Australia) Reaction-Diffusion Patterns on Networks	Abstracts p. 506
17:50-18:10	Abdul Jarrah (American University of Sharjah, United Arab Emirates) A Mathematical Model of Skeletal Muscle Disease and Immune Response in the Mdx Mouse	Abstracts p. 508
18:10-18:30	Anna Maria Cherubini (Università del Salento, Italy) A Percolation Approach to Desertification Transitions	Abstracts p. 506

Contributed Session 6	PDEs and Applications Chair(s): Matthew Coleman	Location E16-105
16:30-16:50	Matthew P. Coleman (Fairfield University, USA) An Asymptotic and Numerical Study of Of the Vibration Spectrum Two Beams Coupled by a Dissipative Joint - a Comparison of the Euler-Bernoulli and Timoshenko Models	Abstracts p. 518
16:50-17:10	Masakazu Yamamoto (Hirosaki University, Japan) Asymptotic Expansion of Solutions to the Drift-diffusion Equation with Critical Dissipation	Abstracts p. 529
17:10-17:30	Jose Miguel Martinez Valle (Universidad de Cordoba, Spain) On the Free Vibration of Shells. Theoretical Approach and Numerical Approximations.	Abstracts p. 523
17:30-17:50	Jose Miguel Martinez Valle (Universidad de Cordoba, Spain) Static and Dynamic Analysis of Plates. Evolution and Numerical Approach.	Abstracts p. 523
17:50-18:10	Chang-Yeol Jung (UNIST, Korea) Boundary Layer Theory for Convection-diffusion Equations in a Circle	Abstracts p. 521
18:10-18:30	Purnima K. Pandit (The M. S. University of Baroda, India) Zonal Controllability of Fuzzy Semilinear System	Abstracts p. 524

Parallel Session 8
Thursday, July 10
10:30 – 12:30

Special Session 2	Nonlinear Evolution PDEs and Interfaces in Applied Sciences Organizer(s): Gunduz Caginalp, Maurizio Grasselli, Alain Miranville	Location EPS10
10:30-11:00	Amy Novick-Cohen (Technion IIT, Israel) Coupled Motion by Mean Curvature with Surface Diffusion	Abstracts p. 14
11:00-11:30	Franck Boyer (Aix-Marseille Universite, France) Outflow Boundary Conditions for Non-homogeneous Flows	Abstracts p. 10
11:30-12:00	Harald Garcke (University Regensburg, Germany) Dynamics of Fluid Interfaces with Surface Viscosity and Helfrich Forcing	Abstracts p. 12
12:00-12:30	Elsa Maria Marchini (Politecnico di Milano, Italy) A Well Posedness Result for Nonlinear Viscoelastic Equations with Memory	Abstracts p. 13
Special Session 5	Differential Delay Equations Organizer(s): Fatihcan M. Atay, Bernhard Lani-Wayda, Hans-Otto Walther	Location C16-101-5
10:30-11:00	Wolfgang Ruess (Universitaet Duisburg-Essen, Germany) Flow Invariance for State-dependent Delay Differential Equations	Abstracts p. 25
11:00-11:30	Eugen Stumpf (University of Hamburg, Germany) Attraction Property of Local Center-unstable Manifolds for Differential Equations with State-dependent Delay	Abstracts p. 25
11:30-12:00	Benjamin B. Kennedy (Gettysburg College, USA) Oscillation Speed and Periodic Solutions for a Class of Integro-differential Equations with Negative Feedback	Abstracts p. 25
12:00-12:30	Ferenc Hartung (University of Pannonia, Hungary) On Neutral Differential Equations with State-dependent Delays	Abstracts p. 24

Special Session 6	Random Dynamical Systems in the Life Sciences Organizer(s): Xiaoying Han, Peter Kloeden	Location C11-101-1
10:30-11:00	Fabian Wirth (IBM Research Ireland, Ireland) Stability Criteria for Switched Epidemiological Models	Abstracts p. 30
11:00-11:30	Felipe Rivero (UNAM, Mexico) Prey-Predator Systems with Unbounded Time-dependent Coefficients	Abstracts p. 29
11:30-12:00	Anna Maria Cherubini (Università del Salento, Italy) The Stochastic Resonance As a Case Study for Bifurcations in Random Dynamical Systems	Abstracts p. 27
12:00-12:30	Aneta Stefanovska (Lancaster University, England) Systems That Can Stabilise Their Rates: Lessons from the Circulatory System	Abstracts p. 29
Special Session 7	Topological and Combinatorial Dynamics Organizer(s): Lluis Alsedà, Francisco Balibrea, Piotr Oprocha	Location E16-104
10:30-11:00	Evelyn Sander (George Mason University, USA) The Many Facets of Chaos	Abstracts p. 34
11:00-11:30	Jaroslav Smítal (Silesian University, Czech Rep) Sets of Probability Distribution Functions Generated by Distributionally Chaotic Maps	Abstracts p. 34
11:30-12:00	Jan P. Boronski (Institute of Research and Applications of Fuzzy Modeling, Czech Rep) Strange Attractors and Rotational Chaos on the 2-torus	Abstracts p. 31
12:00-12:30	Jiri Kupka (IRAFM - University of Ostrava, Czech Rep) Smooth Chaotic Interval Maps and Indecomposable Planar Attractors	Abstracts p. 32

Special Session 9	Dissipative Systems and Applications Organizer(s): Georg Hetzer, Wenxian Shen, Jose Ignacio Tello	Location C11-201-1
10:30-11:00	Grzegorz Łukaszewicz (University of Warsaw, Poland) Global Attractors for Multivalued Semiflows with Weak Continuity Properties	Abstracts p. 45
11:00-11:30	Sorin I. Ciuperca (University of Lyon, France) Some Mathematical Problems on the Doi-Edwards Equation for Polymer Melts	Abstracts p. 43
11:30-12:00	Mahdi Boukrouche (Institut Camille Jordan Umr-5208 ST-Etienne University, France) Unsteady Non-Isothermal Problem with Friction Law.	Abstracts p. 42
12:00-12:30	J. Ignacio Tello (Universidad Politecnica de Madrid, Spain) On Some Inverse Problems Arising Industrial Lubrication	Abstracts p. 46
Special Session 10	Nonlinear Elliptic Partial Differential Equations and Systems Organizer(s): Wenxiong Chen, Congming Li	Location C16-101-3
10:30-11:00	Serena Dipierro (University of Edinburgh, Scotland) Dislocation Dynamics in Crystals	Abstracts p. 48
11:00-11:30	Zhitao Zhang (the Chinese Academy of Sciences, Peoples Rep of China) Some New Results on Nonlinear Schrödinger System Arising from Bose-Einstein Condensates	Abstracts p. 50
11:30-12:00	Sven Jarohs (Goethe-University Frankfurt, Germany) Asymptotic Symmetry for a Class of Nonlinear Fractional Reaction-diffusion Equations	Abstracts p. 48
12:00-12:30	Mimi Dai (University of Illinois Chicago, USA) Stability of Solutions to the Surface Quasi-Geostrophic Equations	Abstracts p. 48

Special Session 11	Dynamics of Fluids and Nonlinear Waves Organizer(s): Zhiwu Lin, Chongchun Zeng	Location E7-101
10:30-11:00	Frederic Rousset (Université Paris-Sud, France) Multi-solitons for the Water-waves System	Abstracts p. 52
11:00-11:30	Mahir Hadzic (King's College London, England) Stability of the FLRW Solutions to the Dust-Einstein System with a λ Positive Cosmological Constant	Abstracts p. 52
11:30-12:00	Toan Nguyen (Penn State University, USA) Nonlinear Stability of Source Defects in General Oscillatory Media	Abstracts p. 52
12:00-12:30	Zhengping Wang (Chinese Academy of Sciences, Peoples Rep of China) Stability of Traveling Waves of Nonlinear Schrödinger Equation with Nonzero Condition at Infinity	Abstracts p. 53
Special Session 14	Reaction Diffusion Equations and Applications Organizer(s): Jerome Goddard II, Ratnasingham Shivaji	Location C0-307
10:30-11:00	Ratnasingham Shivaji (University of North Carolina at Greensboro, USA) Positive Solutions for a Class of Superlinear Semipositone Systems on Exterior Domains	Abstracts p. 66
11:00-11:30	Pavel Drabek (University of West Bohemia, Czech Rep) On Quasilinear Sturm-Liouville Problem with Weights	Abstracts p. 64
11:30-12:00	Stephen B. Robinson (Wake Forest University, USA) Resonance Problems for the P-Laplacian Fucik Spectrum	Abstracts p. 66
12:00-12:30	Peter Polacik (University of Minnesota, USA) On the Large-time Behavior of Solutions of Semilinear Heat Equations on the Entire Space	Abstracts p. 65

Special Session 17	Direct and Inverse Problems in Abstract Spaces and Applications Organizer(s): Angelo Favini, Davide Guidetti	Location E7-201
10:30-11:00	Roberto Triggiani (University of Memphis, USA) Global Uniqueness and Stability in Determining the Electric Potential of an Inverse Problem for the Schrodinger Equation on a Riemannian Manifold from One Boundary Measurement	Abstracts p. 78
11:00-11:30	Angelo Favini (University of Bologna, Italy) A General Approach to Identification Problems and Applications	Abstracts p. 77
11:30-12:00	Gabriela G. Marinatoschi (Romanian Academy, Romania) Control Approach to an Ill-posed Variational Inequality	Abstracts p. 78
12:00-12:30	Syed Abbas (Indian Institute of Technology Mandi, India) Dynamical Analysis of Impulsive Functional Differential Equations	Abstracts p. 77
Special Session 21	Variational, Topological, and Set-valued Methods for Differential Problems Organizer(s): Gabriele Bonanno, Siegfried Carl, Salvatore A. Marano, Dumitru Motreanu	Location EPS8
10:30-11:00	Kanishka Perera (Florida Institute of Technology, USA) A Multiplicity Result for the Scalar Field Equation	Abstracts p. 98
11:00-11:30	Stella Vernier-Piro (Universiy of Cagliari, Italy) Sharp Pointwise Estimates from Above and From Below for Solutions to a Class of Singular Parabolic Problems	Abstracts p. 100
11:30-12:00	Alexandru Kristaly (Babes-Bolyai University, Romania) A Variational Approach to Nash Equilibria on Riemannian Manifolds	Abstracts p. 97
12:00-12:30	Anna Capietto (University of Torino, Italy) Linear and Nonlinear Eigenvalue Problems for Dirac Systems in Unbounded Domains	Abstracts p. 95

Special Session 24	Qualitative Analysis of Reaction Diffusion Systems Organizer(s): Junping Shi, Xingfu Zou	Location E7-202
10:30-11:00	Xiaofeng Ren (George Washington University, USA) A Double Bubble Assembly As a New Phase of a Ternary Inhibitory System	Abstracts p. 111
11:00-11:30	Kousuke Kuto (University of Electro-Communications, Japan) Limiting Structure of Steady-states to the Lotka-Volterra System with Large Diffusion and Advection	Abstracts p. 110
11:30-12:00	Fengqi Yi (Harbin Engineering University, Peoples Rep of China) Spatiotemporal Patterns in a Reaction-diffusion Seelig Model	Abstracts p. 112
12:00-12:30	Colleen Kirk (California Polytechnic State Univ., SLO, USA) A System of Nonlinear Volterra Equations with Blow-up Solutions	Abstracts p. 110
Special Session 25	Dynamics of Chaotic and Complex Systems and Applications Organizer(s): Jesus M. Seoane, Miguel A.F. Sanjuan	Location C0-209
10:30-11:00	Miguel A. F. Sanjuan (Physics, Universidad Rey Juan Carlos, Spain) Dynamics of Partial Control of Chaotic Systems	Abstracts p. 117
11:00-11:30	Hilda A. Cerdeira (Instituto de Fisica Toerica - UNESP, Brazil) Finite-time Synchronization of Tunnel Diode Based Chaotic Oscillators	Abstracts p. 113
11:30-12:00	Oleksandr Popovych (Juelich Research Center, Germany) Desynchronization by Weak Stimulation	Abstracts p. 116
12:00-12:30	Jean Clairambault (INRIA & UPMC, Paris, France) Phase Synchronisation and Control by Cell Environmental Variables in a Cell Division Cycle Model	Abstracts p. 113

Special Session 26	Dynamical Systems and Spectral Theory Organizer(s): David Damanik	Location EPS4
10:30-11:00	Anton Gorodetski (University of California Irvine, USA) Thermodynamic Formalism in Hyperbolic Dynamics and Applications to Spectral Theory	Abstracts p. 119
11:00-11:30	Russell Johnson (Università di Firenze, Italy) Almost Automorphic Generalized Reflectionless Potentials	Abstracts p. 119
11:30-12:00	Roberta Fabbri (Dipartimento Matematica e Informatica "Ulisse Dini", Italy) On the Density of Uniform Hyperbolicity for $SL(2, \mathbb{R})$ -valued Cocycles	Abstracts p. 119
12:00-12:30	Yiqian Y. Wang (Nanjing University, Peoples Rep of China) Lyapunov Exponent and Spectrum in 1-dim Quasi-periodic Schrodinger Operators	Abstracts p. 120
Special Session 35	Direct and Inverse Problems in Wave Propagation Organizer(s): Fioralba Cakoni, Francisco-Javier Sayas	Location C0-205
10:30-11:00	Turc Catalin (New Jersey Institute of Technology, USA) Well-conditioned Boundary Integral Equation Formulations for the Solution of High-frequency Electromagnetic Scattering Problems	Abstracts p. 160
11:00-11:30	Victor Dominguez (Universidad Publica de Navarra, Spain) Regularized Integral Equations for Acoustic Transmission Problems in Smooth Domains	Abstracts p. 158
11:30-12:00	Mahadevan Ganesh (Colorado School of Mines, USA) High-order Uncertainty Quantification Algorithms for Multiple Component Wave Propagation Configurations	Abstracts p. 158
12:00-12:30	Thorsten Hohage (University of Goettingen, Germany) Hardy Space Infinite Elements for Time-Harmonic Wave Equations with Phase Velocities of Different Signs	Abstracts p. 159
Special Session 36	Analytical Aspects of the Dynamics of Nonlinear Schrodinger Equations Organizer(s): Francois Genoud	Location C11-501-1
10:30-11:00	Gustavo Ponce (University of California-Santa Barbara, USA) A Theorem of Paley-Wiener Type for Schrödinger Evolutions	Abstracts p. 162
11:00-11:30	Stefan Le Coz (Toulouse III University, France) On the Blow-up Speed for Modified Critical Nonlinear Schrodinger Equations	Abstracts p. 162
11:30-12:00	Remi Carles (CNRS Montpellier, France) Scattering for Nonlinear Schrödinger Equation Under Partial Harmonic Confinement	Abstracts p. 161

Special Session 38	Recent Trends in Nonlinear Schrodinger Systems Organizer(s): Benedetta Pellacci, Gianmaria Verzini	Location C11-201-4
10:30-11:00	Jaeyoung Byeon (KAIST, Korea) Semi-classical Standing Waves for Nonlinear Schroedinger Systems	Abstracts p. 169
11:00-11:30	Liliane A. Maia (University of Brasilia, Brazil) Saturable Weakly Coupled Nonlinear Schrödinger Systems	Abstracts p. 170
11:30-12:00	Benedetta Noris (INdAM COFUND Marie Curie Fellow, Italy) Thomas-Fermi Approximation for Coexisting Two Component Bose-Einstein Condensates and Nonexistence of Vortices for Small Rotation	Abstracts p. 171
12:00-12:30	Alessandro Zilio (Politecnico di Milano, Italy) Uniform Lipschitz Bounds for Strongly Competing Systems	Abstracts p. 173
Special Session 41	Topological and Variational Methods for Multivalued Differential Equations Organizer(s): Irene Benedetti, Valentina Taddei	Location E15-103
10:30-11:00	Helene Frankowska (CNRS & University Pierre and Marie Curie, France) Variational Differential Inclusions Arising in Optimal Control	Abstracts p. 183
11:00-11:30	Salvatore A. Marano (University of Catania, Italy) Non-smooth Critical Point Theory on Closed Convex Sets and Applications	Abstracts p. 184
11:30-12:00	Beatrice di Bella (Messina University, Italy) Fourth-order Hemivariational Inequality Problem	Abstracts p. 183
12:00-12:30	Krzysztof Rykaczewski (Nicolaus Copernicus University, Poland) Exact Non-local Controllability of Semilinear Differential Inclusion	Abstracts p. 184

Special Session 43	Harmonic Analysis Tools for Fluid Mechanics Organizer(s): Francesco di Plinio, Roger Temam, Djoko Wirosoetisno	Location C0-312
10:30-11:00	Diego Cordoba (ICMat-CSIC, Spain) Remarks on Geometric Properties of SQG Sharp Fronts and <i>alpha</i> -patches	Abstracts p. 185
11:00-11:30	Claude W. Bardos (Laboratoire Jacques Louis Lions, France) Absolute Maxwellian Eternal Solutions and Scattering	Abstracts p. 185
11:30-12:00	Peter Constantin (Princeton University, USA) Commutator Estimates and Uniqueness of Solutions of Complex Fluids	Abstracts p. 185
12:00-12:30	Vlad C. Vicol (Princeton University, USA) Lagrangian Analyticity in Two Dimensional Fluids	Abstracts p. 187
Special Session 45	Hybrid Imaging Methods Organizer(s): Leonid Kunyansky, Shari Moskow, John Schotland	Location C11-201-5
10:30-11:00	Mark L. Agranovsky (Bar-Ilan University, Israel) The Spherical Radon Transform-the Injectivity Problem Revisited	Abstracts p. 192
11:00-11:30	Victor P. Palamodov (Tel Aviv University, Israel) Exact Reconstructions and Parametrices in Photoacoustic Tomography	Abstracts p. 193
11:30-12:00	Markus Haltmeier (University of Innsbruck, Austria) Universal Inversion Formulas for Recovering a Function from Spherical Means	Abstracts p. 193
12:00-12:30	Leonid Kunyansky (University of Arizona, USA) Photo- and Thermo- Acoustic Tomography in the Presence of Acoustically Reflecting Boundaries	Abstracts p. 193

Special Session 47	Mathematical Modelling and Numerical Methods for Phase-field Problems Organizer(s): Laurence Cherfils, Alain Miranville, Madalina Petcu	Location C16-101-4
10:30-11:00	Carsten Gräser (Freie Universität Berlin, Germany) Efficient Solution of Nonsmooth Multicomponent Phase Field Models	Abstracts p. 199
11:00-11:30	Florentina Tone (University of West Florida, USA) Long-time Stability of the Implicit Euler Scheme for an Incompressible Two-phase Flow Model	Abstracts p. 200
11:30-12:00	Xiaoming Wang (Florida State University, USA) A Second Order Numerical Scheme for Cahn-Hilliard-Navier-Stokes Equation	Abstracts p. 201
12:00-12:30	Peter Galenko (University of Jena, Germany) Phase-Field-Crystal Modeling of Wavelength Selection of a Crystal Lattice	Abstracts p. 198
Special Session 49	Advances in the Numerical Solution of Nonlinear Evolution Equations Organizer(s): Thalhammer Mechthild	Location C11-101-3
10:30-11:00	Ionut Danaila (University of Rouen, France) Combined Newton and Sobolev Gradient Methods for Navier-Stokes-Boussinesq and Gross-Pitaevskii Equations	Abstracts p. 206
11:00-11:30	Emil Kieri (Uppsala University, Sweden) Stiff Convergence of Force-gradient Operator Splitting Methods	Abstracts p. 207
11:30-12:00	Begoña Cano (Universidad de Valladolid, Spain) Plane Wave Numerical Stability of Some Explicit Exponential Methods for Cubic Schrödinger Equation	Abstracts p. 206
12:00-12:30	Winfried Auzinger (Institute for Analysis and Scientific Computing, Vienna University of Technology, Austria) Error Estimation and Adaptive Time Stepping for Nonlinear Evolution Equations	Abstracts p. 206

Special Session 53	Infinite Dimensional Stochastic Systems and Applications Organizer(s): Wilfried Grecksch	Location C16-101-2
10:30-11:00	Arnulf A. Jentzen (ETH Zurich, Switzerland) A Mild Ito Formula for SPDEs	Abstracts p. 221
11:00-11:30	M.D. Ruiz-Medina (University of Granada, Spain) Fractional Riesz-Bessel Motion on the Ball	Abstracts p. 222
11:30-12:00	Razvan F. Maris (King Abdullah University of Science and Technology, Saudi Arabia) Homogenization of the Evolution Stokes Equation in a Perforated Domain with a Stochastic Fourier Boundary Condition	Abstracts p. 221
12:00-12:30	Xiaopeng Chen (Peking University, Peoples Rep of China) Center Manifolds for Infinite Dimensional Random Dynamical Systems	Abstracts p. 220
Special Session 55	Microlocal Analysis and the Inverse Conductivity Problem Organizer(s): Raluca Felea, Romina Gaburro	Location C11-201-3
10:30-11:00	Gaik Ambartsoumian (University of Texas at Arlington, USA) Microlocal Analysis of an Elliptical Radon Transform in Circular Geometry of Data Acquisition	Abstracts p. 227
11:00-11:30	Venky P. Krishnan (TIFR Centre for Applicable Mathematics, India) Singular Fourier Integral Operators in Radar Imaging	Abstracts p. 228
11:30-12:00	Sean Holman (University of Manchester, England) Microlocal Analysis of the Geodesic X-ray Transform	Abstracts p. 228
12:00-12:30	Plamen Stefanov (Purdue University, USA) The Geodesic X-ray Transform on Riemannian Surfaces	Abstracts p. 229

Special Session 60	Recent Advances in Evolutionary Equations Organizer(s): Ryo Ikehata, Tuoc Phan, Grozdena Todorova	Location C0-302
10:30-11:00	Luan T. Hoang (Texas Tech University, USA) Estimates in $W^{1,\infty}$ for Generalized Forchheimer Equations in Porous Media	Abstracts p. 245
11:00-11:30	Juraj Foldes (IMA, University of Minnesota, USA) Qualitative Properties of Maximal Entropy Solutions for 2D Euler's Equation	Abstracts p. 244
11:30-12:00	Michael Winkler (University of Paderborn, Germany) Transient Growth Phenomenon in a Parabolic-elliptic Chemotaxis System	Abstracts p. 247
12:00-12:30	Hermenegildo B. de Oliveira (FCT - Universidade Do Algarve, Portugal) Asymptotic Behavior for the Solutions to Damped Navier-Stokes Equations	Abstracts p. 244
Special Session 63	Advanced High Order Geometric Numerical Integration Methods for Differential Equations Organizer(s): Sergio Blanes, Fernando Casas	Location E7-203
10:30-11:00	Thorsten Schindler (Technische Universität München, Germany) Consistent Higher Order Integration of Nonsmooth Mechanical Systems	Abstracts p. 260
11:00-11:30	Fasma Diele (IAC-CNR, Bari, Italy) Positive Geometric Integrators for Population Dynamics	Abstracts p. 258
11:30-12:00	Ariadna A. Farrés (Universitat de Barcelona, Spain) Symplectic Splitting Methods for Dynamical Astronomy	Abstracts p. 259

Special Session 67	Topological Methods for the Qualitative Analysis of Differential Equations and Inclusions Organizer(s): Pierluigi Benevieri, Marco Spadini	Location E7-104
10:30-11:00	Haibo Ruan (University of Hamburg, Germany) Patterns from Bifurcations: a Symmetry Analysis of Networks with Delayed Coupling	Abstracts p. 275
11:00-11:30	Marcos N. Rabelo (Federal University of Goias, Brazil) Second Order Impulsive Retarded Differential Inclusions with Nonlocal Conditions	Abstracts p. 275
11:30-12:00	Uberlandio B. Severo (UFPB, Brazil) On Nonhomogeneous Elliptic Problems Involving Exponential Critical Growth	Abstracts p. 275
12:00-12:30	Carlota Rebelo (CMAF and FCUL, Universidade de Lisboa, Portugal) Multiplicity of Solutions of BVP Associated to Asymptotically Linear Second Order Equations	Abstracts p. 275
Special Session 68	Entropy-like Quantities and Applications Organizer(s): J.M. Amigo, K. Keller, B. Pompe	Location C0-204
10:30-11:00	Christoph Bandt (Institute of Mathematics, University of Greifswald, Germany) Order Patterns: a Diagnostic Tool for Time Series	Abstracts p. 277
11:00-11:30	Bernd Pompe (University Og Greifswald, Germany) Detecting Order in an Ordinal Pattern	Abstracts p. 280
11:30-12:00	Ulrich Parlitz (Max Planck Institute for Dynamics and Self-Organization, Germany) Identifying Dynamical Features Using Ordinal Patterns	Abstracts p. 280
12:00-12:30	David Arroyo (Universidad Autónoma de Madrid, Spain) Applications of Symbolic Dynamics in the Context of Cryptography	Abstracts p. 277
Special Session 70	Nonlinear Phenomena: Theory and Applications Organizer(s): Francesco Demontis, Sara Lombardo, Giovanni Ortenzi, Matteo Sommacal	Location EPS7
10:30-11:00	Gino Biondini (State Univ. of New York at Buffalo, USA) The Modulational Instability Revisited	Abstracts p. 287
11:00-11:30	Barbara Prinari (University of Colorado Colorado Springs, USA) Inverse Scattering Transform for the Focusing NLS Equation with Fully Asymmetric Boundary Conditions	Abstracts p. 289
11:30-12:00	Cornelis Van Der Mee (University of Cagliari, Italy) Time-evolution-proof Characterization of Zakharov-Shabat Scattering Data	Abstracts p. 289

Special Session 74	Collective Behaviour in Biological and Social Aggregations Organizer(s): Joep Evers, Razvan Fetecau	Location C11-101-2
10:30-11:00	Joep Evers (Eindhoven University of Technology, Netherlands) Mass Evolution: Application to Pedestrians	Abstracts p. 302
11:00-11:30	David Uminsky (University of San Francisco, USA) The Basic Principles of Hollow Spherical Self-assembly	Abstracts p. 304
11:30-12:00	Akiyasu Tomoeda (Musashino University / JST CREST, Japan) Jamology - from Mathematical Modeling and Analysis to Engineering Applications	Abstracts p. 303
12:00-12:30	Kiamars Vafayi (TU Eindhoven, Netherlands) Parameter Estimation of Social Forces in Crowd Dynamics Models Via a Probabilistic Method	Abstracts p. 304
Special Session 75	Differential and Difference Equations on Graphs and Their Applications Organizer(s): Sergei Avdonin, Serge Nicaise	Location C16-101-1
10:30-11:00	Jon Bell (University of Maryland Baltimore County (UMBC), USA) Neuronal Cable Theory on Graphs	Abstracts p. 305
11:00-11:30	Steven J. Cox (Rice University, USA) Neuronal Model Reduction: Cells, Junctions and Circuits	Abstracts p. 305
11:30-12:00	Patrick Joly (INRIA, France) Topographic Open Periodic Waveguides	Abstracts p. 306
12:00-12:30	Peter Kuchment (Texas A&M University, USA) Quantum Network Models of Nano-materials	Abstracts p. 306
Special Session 80	Theory, Numerical Methods, and Applications of Stochastic Systems and SDEs/SPDEs Organizer(s): Wanyang Dai	Location E16-102
10:30-11:00	Michael Roeckner (University of Bielefeld, Germany) The Stochastic Porous Media Equations on \mathbb{R}^d	Abstracts p. 324
11:00-11:30	Wanyang Dai (Nanjing University, Peoples Rep of China) Adapted Solution, Numerical Methods and Analysis Via Malliavin Calculus for a Unified B-SPDE and Their Applications in Finance	Abstracts p. 323
11:30-12:00	David Nualart (The University of Kansas, USA) Numerical Approximation Schemes for Fractional Diffusions	Abstracts p. 324

Special Session 86	Nonlinear Evolution Equations and Related Topics Organizer(s): Mitsuharu Otani, Tohru Ozawa	Location C11-101-4
10:30-11:00	Michinori Ishiwata (Osaka University, Japan) On the Critical Hardy-type Inequalities and Related Variational Problems	Abstracts p. 343
11:00-11:30	Tatsuya Watanabe (Kyoto Sangyo University, Japan) Periodic Solutions of Completely Resonant Nonlinear Wave Equations	Abstracts p. 345
11:30-12:00	Aleksander Cwiszewski (Nicolaus Copernicus University, Poland) Periodic Solutions for Parabolic Evolution Equations on \mathbb{R}^N	Abstracts p. 342
Special Session 88	Stochastic Processes and Spectral Theory for Partial Differential Equations and Boundary Value Problems Organizer(s): Francis Nier, Tony Lelievre	Location C0-206
10:30-11:00	Gabriel Stoltz (Ecole Des Ponts, France) Langevin Dynamics with Space-time Periodic Nonequilibrium Forcing	Abstracts p. 353
11:00-11:30	Holger Stephan (Weierstrass Institute Berlin, Germany) Inequalities for Markov Operators and Applications to Forward and Backward PDEs.	Abstracts p. 352
11:30-12:00	Gideon Simpson (Drexel University, USA) Relative Entropy Preconditioning for Markov Chain Monte Carlo	Abstracts p. 352
Special Session 89	Applications of Topological and Variational Methods to Boundary Value Problems Organizer(s): John R. Graef	Location C0-301
10:30-11:00	Feliz Minhos (University of Evora, Portugal) On Higher Order Nonlinear Impulsive Boundary Value Problems	Abstracts p. 356
11:00-11:30	Marlene Frigon (University of Montreal, Canada) Multiplicity Results for Systems of First Order Differential Inclusions	Abstracts p. 355
11:30-12:00	Milan M. Tvrdy (Institute of Mathematics ASCR, Czech Rep) Positive Periodic Solutions of a Singular Problem Modeling Valveless Pumping with Friction	Abstracts p. 356
12:00-12:30	Joao Fialho (College of the Bahamas, Bahamas) Higher Order Periodic Impulsive Problems	Abstracts p. 354

Special Session 94	Homogenization Based Numerical Methods Organizer(s): Emmanuel Frenod	Location E7-105
10:30-11:00	Antoine Rousseau (Inria, France) Multi-dimensional Coupled Systems in River Hydraulics	Abstracts p. 372
11:00-11:30	Frederic Legoll (Ecole Des Ponts, France) A MsFEM Approach À La Crouzeix-Raviart for Problems on Perforated Domains	Abstracts p. 371
11:30-12:00	Donald L. Brown (King Abdullah University of Science and Technology, Saudi Arabia) Multilevel Finite Element Methods with Applications to Multiscale Fluid-Structure Interaction	Abstracts p. 370
12:00-12:30	Florian Mehats (IRMAR, University of Rennes 1, France) Uniformly Accurate Numerical Method for Highly Oscillatory Kinetic Equations	Abstracts p. 371
Special Session 98	Boundary-value Problems for Linear and Nonlinear Integrable Problems Organizer(s): Bernard Deconinck, Beatrice Pelloni, Natalie Sheils	Location C11-201-2
10:30-11:00	Thanasis Fokas (University of Cambridge, England) Asymptotics of the Neumann Value for the NLS on the Half-Line with Periodic Dirichlet Data	Abstracts p. 384
11:00-11:30	Gino Biondini (State Univ. of New York at Buffalo, USA) Nonlinear Schrodinger Systems with Non-zero Boundary Conditions	Abstracts p. 384
11:30-12:00	Natalie E. Sheils (University of Washington, USA) Explicit Solutions of Interface Problems I	Abstracts p. 385
12:00-12:30	Bernard Deconinck (University of Washington, USA) Explicit Solutions of Interface Problems II	Abstracts p. 384

Special Session 99	Asymptotic Expansion for Nonoscillatory Solutions of Differential and Difference Equations Organizer(s): Serena Matucci, Pavel Rehak	Location E7-102
10:30-11:00	Petr Tomasek (Brno University of Technology, Czech Rep) Asymptotic Stability Criteria for Linear Difference Equations	Abstracts p. 388
11:00-11:30	Ludek Nechvatal (Brno University of Technology, Czech Rep) On Asymptotics of the Mittag-Leffler Function and Its Discrete Counterpart	Abstracts p. 387
11:30-12:00	Garyfalos Papaschinopoulos (Democritus University of Thrace, Greece) On the Dynamics of the Solutions of a Biological Model	Abstracts p. 387
12:00-12:30	Christos J. Schinas (Democritus University of Thrace, Greece) On System of Difference Equations Included Negative Exponential Terms	Abstracts p. 388
Special Session 101	Nonlinear Waves in Materials with Microstructure Organizer(s): Guillaume James, Dmitry Pelinovsky	Location E16-101
10:30-11:00	Panayotis Kevrekidis (UMass, Amherst, USA) Nonlinear Waves in Granular Crystals	Abstracts p. 392
11:00-11:30	Yuli Starosvetsky (Technion - Israel Institute of Technology, Israel) Resonant Attenuation, Redirection and Entrapment of Strongly Localized Wave-packets in Locally Resonant, Quasi 1D Chains Incorporating Internal Rotators	Abstracts p. 393
11:30-12:00	Surajit Sen (State Univ of New York Buffalo, USA) Tempest in a Granular Alignment: Solitary Waves, Quasi-equilibrium, Rogue Fluctuations and More	Abstracts p. 393
12:00-12:30	Mason A. Porter (University of Oxford, England) Influence of Network Topology on Sound Propagation in Granular Materials	Abstracts p. 393

Special Session 103	Periodic Solutions for Dynamical Systems Organizer(s): Adriana Buica, Susanna Maza	Location E15-104
10:30-11:00	Colin Christopher (Plymouth University, England) Tbc	Abstracts p. 397
11:00-11:30	Jaume Giné (Universitat de Lleida, Spain) Sufficient Conditions to Have a Resonant Complex Center	Abstracts p. 398
11:30-12:00	Magdalena Caubergh (Universitat Autònoma de Barcelona, Spain) Center Mechanisms for a 6-parameter Subfamily of Planar Cubic Vector Fields	Abstracts p. 397
12:00-12:30	Chara Pantazi (Universitat Politecnica de Catalunya, Spain) Limit Cycles Bifurcated from a Degenerate Center	Abstracts p. 399
Special Session 104	Instabilities and Bifurcations in Geophysical Fluid Dynamics Organizer(s): Ana Maria Mancho, Jezabel Curbelo	Location GRIS1
10:30-11:00	Juan Sanchez Umbria (Universitat Politècnica de Catalunya, Spain) Secondary Bifurcations and Connecting Orbits in the Thermal Convection of Rotating Fluid Spherical Shells.	Abstracts p. 406
11:00-11:30	Edgar Knobloch (University of California at Berkeley, USA) Upscale Energy Transfer in Three-dimensional Rapidly Rotating Turbulent Convection	Abstracts p. 404
11:30-12:00	Francisco Marques (UPC, Spain) Inertial Waves in a Rapidly Rotating Cylinder Flow	Abstracts p. 405
12:00-12:30	Paloma Gutierrez Castillo (Arizona State University, USA) Instabilities of the Sidewall Boundary Layer in a Rapidly Rotating Split Cylinder	Abstracts p. 403

Special Session 105	Geometric Mechanics Organizer(s): Hernan Cendra, Darryl Holm, David Martin de Diego, Juan-Pablo Ortega	Location NARANJA
10:30-11:00	Jean-Claude Zambrini (Group of Mathematical Physics Univ. Lisbon, Portugal) Markovian and Non-Markovian Stochastic Deformations of Mechanics.	Abstracts p. 414
11:00-11:30	Ana Bela Cruzeiro (Dep. Mathematics IST ULisboa, Portugal) Dissipative MHD Equations Via Stochastic Variational Principles	Abstracts p. 408
11:30-12:00	Viviana A. Díaz (Universidad Nacional del Sur, Argentina) Generalized Variational Calculus for Mechanical Systems	Abstracts p. 408
12:00-12:30	Dmitry Zenkov (North Carolina State University, USA) Hamel Formalism and Variational Integrators	Abstracts p. 414
Special Session 107	Spatial and Temporal Heterogeneity in Reaction-diffusion-advection Models and Applications to Biology Organizer(s): Robert Stephen Cantrell, Chris Cosner, Yuan Lou, King-Yeung Lam	Location E16-106
10:30-11:00	George C. Cosner (University of Miami, USA) PDE to ODE: Multiple Timescales in Reaction-advection-diffusion Models	Abstracts p. 415
11:00-11:30	King-Yeung Lam (Ohio State University, USA) Invading the Ideal Free Distribution	Abstracts p. 416
11:30-12:00	Xiaoqing He (National Tsing Hua University, Taiwan) Global Dynamics of Heterogeneous Lotka-Volterra Competition Diffusion Systems	Abstracts p. 415
12:00-12:30	Youshan Tao (Donghua University, Peoples Rep of China) Jointly Approaching Ideal Free Distribution of Two Species Via Different Migration Strategies	Abstracts p. 417

Special Session 112	Nonlinear Dynamics in Neuroscience Organizer(s): Roberto Barrio, Toni Guillamon	Location E16-103
10:30-11:00	Roberto Barrio (Universidad de Zaragoza, Spain) Describing Chaotic Structures in the Hindmarsh-Rose Model of Bursting Neurons	Abstracts p. 434
11:00-11:30	Claude Baesens (University of Warwick, United Kingdom, Belgium) Chaotic Breathing	Abstracts p. 434
11:30-12:00	Aleksander Czechowski (Jagiellonian University, Poland) Periodic Solutions of the FitzHugh-Nagumo Equations - a Computer Assisted Proof	Abstracts p. 434
12:00-12:30	Ekaterina Kutafina (AGH Krakow, Poland) Oscillations in the Model of Bipolar Disorder.	Abstracts p. 436
Special Session 114	Nonstandard Analysis, Quantizations and Singular Perturbations Organizer(s): Imme V.D.Berg, Masanao Ozawa, Kiyoyuki Tchizawa	Location C16-101-6
10:30-11:00	Takashi Nitta (Mie University, Japan) The "no Waste" Assumption and Transversality Conditions for Discrete-time Infinite-horizon Problem	Abstracts p. 441
11:00-11:30	Shuya Kanagawa (Tokyo City University, Japan) S-continuous Financial Time Series Composed from the Delta-function	Abstracts p. 441
11:30-12:00	Masanao Ozawa (Nagoya University, Japan) Quantum Set Theory and Modal Interpretation of Quantum Mechanics	Abstracts p. 442
12:00-12:30	Keita Yokoyama (Japan Advanced Institute of Science and Technology, Japan) Proof Transformations for Nonstandard Analysis	Abstracts p. 442

Special Session 115	Mathematical Models of Chemotaxis Organizer(s): Jose Ignacio Tello, Michael Winkler	Location EPS5
10:30-11:00	Radek Erban (University of Oxford, England) Travelling Waves in Hybrid Chemotaxis Models	Abstracts p. 444
11:00-11:30	Tong Li (University of Iowa, USA) Global Wellposedness and Traveling Wave Solutions of Chemotaxis Models	Abstracts p. 445
11:30-12:00	Rafael Granero Belinchon (University of California, Davis, USA) On the Patlak-Keller-Segel Model with a Nonlocal Flux	Abstracts p. 444
12:00-12:30	Roman Cherniha (Nottingham University, England) A Simplified Keller-Segel Model: Construction of Exact Solutions for the Cauchy and Neumann Boundary-value Problems	Abstracts p. 443
Special Session 119	Dynamical Systems and Optimal Control Organizer(s): Cedric M. Campos, Hasnaa Zidani	Location ROJA
10:30-11:00	Franco Rampazzo (Padova University, Italy) Limit Solutions for Systems with Unbounded Controls	Abstracts p. 463
11:00-11:30	Andrea Boccia (Imperial College London, England) On Optimal Control Problems with Mixed and Pathwise State Constraints	Abstracts p. 462
11:30-12:00	Cristopher Hermosilla (Inria Saclay & ENSTA ParisTech, France) Infinite Horizon Problems on Stratifiable State Constraints Sets	Abstracts p. 462
12:00-12:30	Jean-Baptiste Caillau (Univ. Bourgogne & CNRS, France) L^1 -minimization in Space Mechanics: Old and New	Abstracts p. 462

Special Session 121	Numerical Techniques for the Description of Charged Particles Transport Organizer(s): Francesco Vecil	Location E15-102
10:30-11:00	Giacomo Dimarco (University of Ferrara, Italy) Asymptotic Preserving Implicit-explicit Runge-kutta Methods for Non Linear Kinetic Equations	Abstracts p. 469
11:00-11:30	Emmanuel Franck (Max Planck Institut Fur Plasmaphysik, Germany) Nonlinear Times Solvers Ans Stability Issues for Reduced MHD Models	Abstracts p. 469
11:30-12:00	Helene M. Hivert (IRMAR - Universite de Rennes 1, France) An Asymptotic Preserving Scheme for Kinetic Equation with Anomalous Diffusion Limit	Abstracts p. 470
12:00-12:30	Laurent Navoret (Universite de Strasbourg, France) Reduced Model in Velocity and Hyperbolic Approximation in Space for the Vlasov Equation	Abstracts p. 471
Special Session 127	Functional Inequalities and Variational Problems Organizer(s): Michinori Ishiwata, Bernhard Ruf, Futoshi Takahashi	Location C0-207
10:30-11:00	Bernhard Ruf (University of Milan, Italy) Higher Order Functional Inequalities and the 1-Biharmonic Operator	Abstracts p. 485
11:00-11:30	Ryuji Kajikiya (Saga University, Japan) Group Invariant Positive Solutions of the Generalized Hénon Equation	Abstracts p. 485
11:30-12:00	Cristina C. Tarsi (Università di Milano, Italy) Supercritical Schrödinger Systems in Dimension Two	Abstracts p. 486
12:00-12:30	Hidemitsu Wadade (Gifu University, Japan) Optimal Embeddings on Sobolev-Lorentz-Zygmund Type Spaces	Abstracts p. 486

Special Session 129	Qualitative and Quantitative Techniques for Differential Equations Arising in Economics, Finance and Natural Sciences Organizer(s): Mariano Torrisi, Rehana Naz, Igor Leite Freire, Imran Naeem	Location EPS9
10:30-11:00	Mufid Abudiab (Texas A&M University-Corpus Christi, USA) A Differential Model of Television Viewership	Abstracts p. 491
11:00-11:30	Maria Gandarias (University of Cadiz, Spain) Some Conservation Laws for a Class of Equations Arising in Financial Mathematics.	Abstracts p. 492
11:30-12:00	Joanna Goard (University of Wollongong, Australia) Exact Solutions for Shout and Reset Options	Abstracts p. 493
12:00-12:30	Jose-Ramon Ruiz-Tamarit (Universitat de Valencia, Spain) Hypergeometric Functions and Transition Dynamics in a Model of Optimal Growth with a Renewable Natural Resource	Abstracts p. 495
Contributed Session 2	Modeling, Math Biology and Math Finance Chair(s): Jonathan J. Crofts	Location E7-103
10:30-10:50	Marek Bodnar (University of Warsaw, Poland) Global Stability and Oscillations for Logistic Type Equations with Discrete Delay and Asymptotically Periodic Suppression Rate	Abstracts p. 505
10:50-11:10	Vladas Skakauskas (Vilnius University, Lithuania) Modelling of Receptor-toxin-antibody Interaction	Abstracts p. 510
11:10-11:30	Yevhen F. Suprunenko (Lancaster University, England) Chronotoxic Systems: Deterministic Dynamics Which May Look Stochastic.	Abstracts p. 510
11:30-11:50	Murat Kilic (Central Anatolia Forestry Research Institute, Turkey) Effect of Machining on Surface Roughness of Pinus Nigra Arnold Wood	Abstracts p. 508
11:50-12:10	Jonathan J. Crofts (Nottingham Trent University, England) The Role of Network Structure on Brain Activation Dynamics	Abstracts p. 506
12:10-12:30	Cristinca Fulga (Institute of Mathematical Statistics and Applied Mathematics of Romanian Academy, Romania) Mathematical Modeling of Risk Preferences with Application to Portfolio Optimization	Abstracts p. 507

Contributed Session 6	PDEs and Applications Chair(s): Matthew Fury	Location E16-105
10:30-10:50	Anna Rozanova-Pierrat (Ecole Centrale Paris, France) Heat Content Asymptotic Propagation in Compact Domains with Discontinuous Transmission Boundary Conditions	Abstracts p. 526
10:50-11:10	Maroje Marohnic (University of Zagreb, Croatia) General Homogenization of a Bending-Torsion Theory for Inextensible Rods from 3D Elasticity	Abstracts p. 523
11:10-11:30	Keith W. Myerscough (CWI, Amsterdam, Netherlands) Controlling the Kinetic Energy Spectrum in Atmospheric Turbulence	Abstracts p. 524
11:30-11:50	Alicia Arjona (European Center for Geodynamics and Seismology, Luxembourg) Stabilization of a Hyperbolic/elliptic System Modelling the Viscoelastic-gravitational Deformation in a Multilayered Earth	Abstracts p. 516
11:50-12:10	Isaac C. Donnelly (University of New South Wales, Australia) Fractional Diffusion: a Continuous Time Random Walk Approach	Abstracts p. 519
12:10-12:30	Matthew Fury (Penn State Abington, USA) Regularization of Nonautonomous, Nonlinear Ill-posed Problems	Abstracts p. 519

Parallel Session 9
Thursday, July 10
14:00 – 16:30

Special Session 2	Nonlinear Evolution PDEs and Interfaces in Applied Sciences Organizer(s): Gunduz Caginalp, Maurizio Grasselli, Alain Miranville	Location EPS10
14:00-14:30	Martine Marion (Ecole Centrale de Lyon, France) Analysis of a Fully Nonlinear Reaction-diffusion System Describing Multicomponent Reactive Flows	Abstracts p. 13
14:30-15:00	Danielle Hilhorst (University of Paris-Sud, Orsay, France) The Singular Limit of an Allen-Cahn Equation with a Random Source Term	Abstracts p. 13
15:00-15:30	Lorenzo Giacomelli (Sapienza University of Rome, Italy) Well-posedness for the Navier-slip Thin-film Equation in Complete Wetting	Abstracts p. 12
15:30-16:00	Peter Galenko (University of Jena, Germany) Evolution Equations of Fast Phase Transitions in Solutions and Applications	Abstracts p. 12
16:00-16:30	Filippo Dell'Oro (Universita di Brescia, Italy) Asymptotic Behavior of a Generalization of the Caginalp Phase-field System	Abstracts p. 11
Special Session 6	Random Dynamical Systems in the Life Sciences Organizer(s): Xiaoying Han, Peter Kloeden	Location C11-101-1
14:00-14:30	Janet Best (The Ohio State University, USA) Doubly Stochastic Processes in Neurobiology	Abstracts p. 27
14:30-15:00	Peter R. Kramer (Rensselaer Polytechnic Institute, USA) Fluctuation Models for Suspensions of Swimming Microorganisms	Abstracts p. 28
15:00-15:30	Zachary P. Kilpatrick (University of Houston, USA) Pulse Bifurcations in Stochastic Neural Fields	Abstracts p. 28
15:30-16:00	Maria Francesca Carfora (Università degli Studi di Napoli Federico II, Italy) A Stochastic Model for the Dynamics of Two Interacting Neurons Periodically Driven	Abstracts p. 27
16:00-16:30	Johannes Schropp (University of Konstanz, Germany) Mathematical Concepts in Pharmacokinetics and Pharmacodynamics	Abstracts p. 29

Special Session 7	Topological and Combinatorial Dynamics Organizer(s): Lluis Alsedà, Francisco Balibrea, Piotr Oprocha	Location E16-104
14:00-14:30	Sonja Stimac (University of Zagreb, Croatia) Rotation Sets for Maps of Tori	Abstracts p. 34
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15:00-15:30	Krystyna Kuperberg (Auburn University, USA) Generalized Flow Boxes	Abstracts p. 32
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15:00-15:30	Arturo Hidalgo (Universidad Politecnica de Madrid, Spain) A High Order Numerical Scheme for an Atherosclerosis Model	Abstracts p. 44
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15:30-16:00	Michail Borsuk (University of Warmia and Mazury in Olsztyn, Poland) Behavior of Strong Solutions to the Degenerate Oblique Derivative Problem for Elliptic Quasi-linear Equations in a Neighborhood of a Conical Boundary Point.	Abstracts p. 47
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14:00-14:30	Pierre A. Degond (Imperial College London, England) Asymptotic-Preserving All Speed Numerical Methods for Compressible Gas Dynamics and Multi-phase Flows	Abstracts p. 370
14:30-15:00	Sever Hirstoaga (Inria, France) An Exponential Integrator for a Highly Oscillatory Vlasov-Poisson System	Abstracts p. 370
15:00-15:30	Mathieu M. Lutz (University of Strasbourg, France) Long Time Behaviour of an Exponential Integrator for a Vlasov-Poisson System with Strong Magnetic Field	Abstracts p. 371
15:30-16:00	Alexandre Mouton (CNRS - Univ. Lille 1, France) Expansion of a Singularly Perturbed Equation with a Two-scale Converging Convection Term	Abstracts p. 372
16:00-16:30	Jerome Michaud (University of Geneva, Switzerland) The IDSA for Core-collapse Neutrino Transport and Fuzzy Domain Decomposition Techniques	Abstracts p. 371

Special Session 98	Boundary-value Problems for Linear and Nonlinear Integrable Problems Organizer(s): Bernard Deconinck, Beatrice Pelloni, Natalie Sheils	Location C11-201-2
14:00-14:30	Jerry Bona (University of Illinois at Chicago, USA) Boundary-value Problems for Systems of Nonlinear Dispersive Wave Equations	Abstracts p. 384
14:30-15:00	Alex A. Himonas (University of Notre Dame, USA) On Well-posedness of Evolution Equations	Abstracts p. 384
15:00-15:30	Jonatan Lenells (Baylor University, USA) The Wavemaker Problem	Abstracts p. 384
15:30-16:00	Dionyssios Mantzavinos (University of Notre Dame, USA) On the Cauchy Problem for a CH-type Equation with Cubic Nonlinearity	Abstracts p. 384
Special Session 99	Asymptotic Expansion for Nonoscillatory Solutions of Differential and Difference Equations Organizer(s): Serena Matucci, Pavel Rehak	Location E7-102
14:00-14:30	Naoto Yamaoka (Osaka Prefecture University, Japan) Oscillation Constants for Second-order Nonlinear Difference Equations Related to Euler Differential Equations	Abstracts p. 389
14:30-15:00	Stevo Stević (Mathematical Institute of the Serbian Academy of Sciences, Yugoslavia) Periodic Max-type Systems of Difference Equations	Abstracts p. 388
15:00-15:30	Serena S. Matucci (University of Florence, Dep. of Mathematics and Informatics, Italy) Regular Variation of Extreme Solutions to a System of N Nonlinear Differential Equations	Abstracts p. 386
15:30-16:00	Pavel Rehak (Academy of Sciences of the Czech Republic, Czech Rep) De Haan Type Solutions of Half-linear Differential Equations	Abstracts p. 387

Special Session 101	Nonlinear Waves in Materials with Microstructure Organizer(s): Guillaume James, Dmitry Pelinovsky	Location E16-101
14:00-14:30	Guido Schneider (Universität Stuttgart, Germany) Failure of Amplitude Equations	Abstracts p. 393
14:30-15:00	Eric Dumas (Université de Grenoble, France) From Newton's Cradle to the Discrete P-Schroedinger Equation	Abstracts p. 392
15:00-15:30	Anna Vainchtein (University of Pittsburgh, USA) Traveling Waves in a Nonlinear Lattice with Competing Interactions	Abstracts p. 394
15:30-16:00	Michael Herrmann (Saarland University, Germany) Phase-transition Waves in FPU-type Chains with Double-well Potential	Abstracts p. 392
16:00-16:30	Dmitry Pelinovsky (McMaster University, Canada) On the Orbital Stability of Gaussian Solitary Waves in the Log-KdV Equation	Abstracts p. 393
Special Session 104	Instabilities and Bifurcations in Geophysical Fluid Dynamics Organizer(s): Ana Maria Mancho, Jezabel Curbelo	Location GRIS1
14:00-14:30	Emilia Crespo del Arco (UNED, Spain) Numerical Evidence of Inertia-gravity Waves in a Baroclinic Cavity	Abstracts p. 403
14:30-15:00	Javier Burguete (University of Navarra, Spain) Slow Dynamics in Turbulence and Their Effect on Geophysical Flows	Abstracts p. 402
15:00-15:30	Bruno Welfert (Arizona State University, USA) Stochastic Slow-passage Around Resonance and Saddle-node Bifurcation in a Forced Duffing Oscillator	Abstracts p. 406
15:30-16:00	Gregory P. Chini (University of New Hampshire, USA) Dynamic Patterns in an Asymptotically-Reduced Model of Upper Ocean Langmuir Circulation	Abstracts p. 402
16:00-16:30	Henar Herrero (Universidad de Castilla-La Mancha, Spain) Thermoconvective Vortices in a Cylindrical Annulus Varying Inner Radius	Abstracts p. 403

Special Session 105	Geometric Mechanics Organizer(s): Hernan Cendra, Darryl Holm, David Martin de Diego, Juan-Pablo Ortega	Location NARANJA
14:00-14:30	Daniel Peralta-Salas (ICMAT, Spain) KAM Theory and the 3D Euler Equation	Abstracts p. 412
14:30-15:00	Francois J. Gay-Balmaz (Ecole Normale Supérieure de Paris, France) Lagrangian Reduction and Integrability in Condensed Matter	Abstracts p. 409
15:00-15:30	Vakhtang Putkaradze (University of Alberta, Canada) Geometric Theory of Garden Hose Dynamics	Abstracts p. 413
15:30-16:00	Henry Jacobs (Imperial College London, England) A Multiscale Method for Ideal Fluid Flow	Abstracts p. 410
16:00-16:30	Scott Kelly (University of North Carolina at Charlotte, USA) Constrained Mechanics and Idealized Models for Propulsive Vortex Shedding in Fluids	Abstracts p. 411
Special Session 107	Spatial and Temporal Heterogeneity in Reaction-diffusion-advection Models and Applications to Biology Organizer(s): Robert Stephen Cantrell, Chris Cosner, Yuan Lou, King-Yeung Lam	Location E16-106
14:00-14:30	Qi Wang (Southwestern University of Finance and Economics, Peoples Rep of China) Qualitative Behavior of a Reaction-advection-diffusion System Modeling Species Competition	Abstracts p. 417
14:30-15:00	Linlin Su (University of Vienna, Austria) Clines with Directional Selection and Partial Panmixia in an Unbounded Unidimensional Habitat	Abstracts p. 417
15:00-15:30	Fang Li (East China Normal University, Peoples Rep of China) Non-local Effects in an Integro-PDE Model from Population Genetics	Abstracts p. 416
15:30-16:00	Jimmy Garnier (Savoie University, France) Genetic Consequences of Range Expansion: Mathematical Insights	Abstracts p. 415
16:00-16:30	Judith Miller (Georgetown University, USA) Modeling Moments of a Quantitative Trait in a Selective Gradient	Abstracts p. 416

Special Session 112	Nonlinear Dynamics in Neuroscience Organizer(s): Roberto Barrio, Toni Guillamon	Location E16-103
14:30-15:00	Soledad Fernandez Garcia (Inria, France) Canard Orbits in Planar Slow-fast Piecewise Linear Systems	Abstracts p. 435
15:00-15:30	Mathieu Desroches (Inria Paris-Rocquencourt Research Centre, France) Canards in 3D Piecewise-linear Slow-fast Systems; Application to Neuron Models	Abstracts p. 435
15:30-16:00	Albert Granados (Inria, France) Piecewise-smooth Stroboscopic Maps in Periodically Driven Spiking Models	Abstracts p. 435
16:00-16:30	Catalina Vich (University of Balearic Islands, Spain) Slow-fast N-dimensional Piecewise Linear Differential Systems	Abstracts p. 436
Special Session 114	Nonstandard Analysis, Quantizations and Singular Perturbations Organizer(s): Imme V.D.Berg, Masanao Ozawa, Kiyoyuki Tchizawa	Location C16-101-6
14:00-14:30	Xilin Fu (Shandong Normal University, Peoples Rep of China) Chatter Dynamics on Impulsive Surfaces in Impulsive Differential Systems Via the Theory of Flow Switchability	Abstracts p. 441
14:30-15:00	Maciej P. Krupa (INRIA, France) On Retarded Canards: Complex Oscillations in Delayed Slow-fast Systems	Abstracts p. 441
15:00-15:30	Jean-Marc J. Ginoux (Laboratoire LSIS, CNRS, UMR 7296, Universite de Toulon, France) Canards Existence in 3D and 4D Singularly Perturbed Systems	Abstracts p. 441
15:30-16:00	Kiyoyuki Tchizawa (Institute of Administration Engineering, Japan) Canards in the Coupled FitzHugh-Nagumo Equations	Abstracts p. 442
16:00-16:30	Imme I. Van Den Berg (University of Evora, Portugal) Stochastic Euler Method	Abstracts p. 442

Special Session 115	Mathematical Models of Chemotaxis Organizer(s): Jose Ignacio Tello, Michael Winkler	Location EPS5
14:00-14:30	Dariusz D. Wrzosek (University of Warsaw, Poland) Quasilinear Degenerate/singular Parabolic System Modeling Biofilm and Taking Into Account Nutrient Taxis.	Abstracts p. 447
14:30-15:00	Youshan Tao (Donghua University, Peoples Rep of China) Global Dynamics of a Coupled Chemotaxis-haptotaxis System	Abstracts p. 447
15:00-15:30	Cristian Morales-Rodrigo (University of Seville, Spain) Angiogenesis Models with Chemotaxis	Abstracts p. 446
15:30-16:00	Ignacio Guerra (Universidad de Santiago de Chile, Chile) Global-in-time Solutions of the Parabolic-parabolic Keller-segel System on the Plane	Abstracts p. 444
16:00-16:30	Tomasz Cieslak (IMPAN, Poland) Critical Mass in 2d Volume Filling Keller-Segel	Abstracts p. 444
Special Session 116	Interacting Population on Social, Economic and Ecological Networks Organizer(s): Rosa Maria Benito, Juan Carlos Losada	Location E15-102
14:00-14:30	Javier Galeano (Universidad Politecnica de Madrid, Spain) New Ideas About Logistic Approach for Population Dynamics of Mutualistic Interactions	Abstracts p. 450
14:30-15:00	Miguel A. Munoz (University of Granada, Spain) Trophic Coherence Determines Food-web Stability	Abstracts p. 451
15:00-15:30	Jose S. Capitan (Consejo Superior de Investigaciones Cientificas, Spain) Networks of Contacting Linguistic Domains	Abstracts p. 449
15:30-16:00	Werner D. Creixell (Universidad Tecnica Federico Santa Maria, Chile) Mobile Phone Data for Measuring Ethnical Groups Interaction	Abstracts p. 450
16:00-16:30	Regino Criado (Rey Juan Carlos University, Spain) Competitivility Graphs: a New Method to Compare Rankings	Abstracts p. 450

Special Session 117	Rigorous and Numerical Methods for Invariant Manifolds Organizer(s): Alex Haro, Jordi-Lluis Figueras, Alejandro Luque	Location C11-101-2
14:00-14:30	Rafael de La Llave (Georgia Institute of Technology, USA) Automatic Reducibility Methods for Whiskered Tori and Their Manifolds	Abstracts p. 454
14:30-15:00	James D. Meiss (University of Colorado, USA) Breakup of Invariant Tori in Volume-Preserving Maps	Abstracts p. 455
15:00-15:30	Renato C. Calleja (IIMAS-UNAM, Mexico) KAM Estimates for Quasi-periodic Solutions of a Conformally Symplectic System	Abstracts p. 453
15:30-16:00	Adam M. Fox (Georgia Institute of Technology, USA) Critical Asymmetric Tori in the Multiharmonic Standard Map	Abstracts p. 454
16:00-16:30	Marta Canadell (universitat de Barcelona, Spain) Parameterization Method for Computing Normally Hyperbolic Invariant Tori	Abstracts p. 453
Special Session 119	Dynamical Systems and Optimal Control Organizer(s): Cedric M. Campos, Hasnaa Zidani	Location ROJA
14:00-14:30	Sina Ober-Bloebaum (University of Paderborn, Germany) Galerkin Variational Integrators in Optimal Control Theory	Abstracts p. 463
14:30-15:00	Olivier Cots (INRIA, France) Geometric and Numerical Methods in the Saturation Problem of an Ensemble of Spin Particles	Abstracts p. 462
15:00-15:30	Oliver Junge (Technische Universitaet Muenchen, Germany) Global Optimal Feedbacks for Stochastic Quantized Nonlinear Event Systems	Abstracts p. 463
15:30-16:00	Helmut Maurer (University of Muenster, Germany) The Tschebychev Scalarization Method for Solving Multi-objective Optimal Control Problems	Abstracts p. 463
16:00-16:30	Pablo Pedregal (Universidad de Castilla-La Mancha, Spain) Optimal Feedback Control, Linear First-order PDE Systems, and Obstacle Problems	Abstracts p. 463

Special Session 127	Functional Inequalities and Variational Problems Organizer(s): Michinori Ishiwata, Bernhard Ruf, Futoshi Takahashi	Location C0-207
14:00-14:30	Tatsuki Kawakami (Osaka Prefecture University, Japan) Existence of Positive Solutions of a Semilinear Elliptic Equation with a Dynamical Boundary Condition	Abstracts p. 485
14:30-15:00	Gerassimos Barbatis (National and Kapodistrian University of Athens, Greece) On the Hardy Constant of Non-convex Planar Domains: the Case of the Quadrilateral	Abstracts p. 484
15:00-15:30	Norisuke Ioku (Ehime University, Japan) Sharp Decay Estimates in Lorentz Spaces for Nonnegative Schrödinger Heat Semigroups	Abstracts p. 484
15:30-16:00	Elide Terraneo (University of Milano, Italy) Kinetic Approximations to Fractional Diffusion Equations	Abstracts p. 486
16:00-16:30	Mieko Tanaka (Tokyo University of Science, Japan) On a Positive Solution for (p, q) -Laplace Equation with Indefinite Weight	Abstracts p. 486
Special Session 129	Qualitative and Quantitative Techniques for Differential Equations Arising in Economics, Finance and Natural Sciences Organizer(s): Mariano Torrisi, Rehana Naz, Igor Leite Freire, Imran Naeem	Location EPS9
14:00-14:30	Shuya Kanagawa (Tokyo City University, Japan) Optimal Portfolios Based on Weakly Dependent Data	Abstracts p. 493
14:30-15:00	Hiroshi Takahashi (Nihon University, Japan) Approximations of Stochastic Differential Equations by Difference Equations Based on Weakly Dependent Random Vectors	Abstracts p. 495
15:00-15:30	Maria S. Bruzon (University of Cadiz, Spain) Group Classification and Conservation Laws of Some Generalized Dullin-Gottwald-Holm Equations	Abstracts p. 492
15:30-16:00	Asghar Qadir (School of Natural Sciences National University of Sciences & Technology H-12, Islamabad, Pakistan, Pakistan) Classification of Two-dimensional Systems of Third Order Ordinary Differential Equations by Complex Methods	Abstracts p. 494
16:00-16:30	Imran Naeem (Lahore University of Management Sciences (LUMS), Lahore Pakistan, Pakistan) Lie Symmetries, Optimal Systems and Exact Solutions of Some Fractional Differential Equations	Abstracts p. 494

Contributed Session 2	Modeling, Math Biology and Math Finance Chair(s): Xinhe Lu	Location E7-103
14:00-14:20	Xinhe Liu (Loughborough University, England) Neural Approximations to Self-shaping Vector Fields	Abstracts p. 508
14:20-14:40	Jessica Hearns (University of Central Florida, USA) Ecological Traps: Modeling Habitat Selection for Mobile Animals in Heterogeneous Landscapes	Abstracts p. 507
14:40-15:00	Jessica Hearns (University of Central Florida, USA) The Persistence of Competing Plant Species in a Fire-dominated Habitat: a Mathematical Model	Abstracts p. 507
15:00-15:20	Nikos E. Kouvaris (University of Barcelona, Spain) Turing Patterns on Multiplex Networks	Abstracts p. 508
15:20-15:40	Isaias Chairez Hernandez (IPN CIIDIR Durango, Mexico) Comparison of Classification Methods; Kernel Discriminant Analysis, Artificial Neural Networks and Logistic Regression for Predicting Grasshopper Population	Abstracts p. 505
15:40-16:00	Natalia Kudryashova (University of Cambridge, UK) Strategic games in a competitive market from the user's network	Abstracts p. 508

Contributed Session 6	PDEs and Applications Chair(s): Maria Gonzalez Taboada	Location E16-105
14:00-14:20	Igor Velcic (University of Zagreb, Croatia) Plate Models in Elasticity by Simultaneous Homogenization and Dimensional Reduction	Abstracts p. 528
14:20-14:40	Stella Krell (Univ. Nice Sophia Antipolis, France) A DDFV Scheme for the Simulation of Heterogeneous Viscous Flows	Abstracts p. 522
14:40-15:00	Houas Mohamed (University of Khemis Miliana, Algeria) Existence Solutions for a Boundary Value Problem for Differential Equations of Arbitrary Order	Abstracts p. 523
15:00-15:30	Treena Basu (Rhodes College, USA) Fast Solution Methods for the Space-Time Fractional Diffusion Equations	Abstracts p. 516
15:30-15:50	Maria Gonzalez Taboada (Universidade Da Coruña, Spain) Stabilization and a Posteriori Error Analysis for Convection-diffusion Equations	Abstracts p. 520
15:50-16:10	Pelin Guven Geredeli (Hacettepe University, Turkey) Asymptotic Behavior of Some Degenerate Parabolic Equations and the Regularity of the Solutions	Abstracts p. 520
16:10-16:30	Poom Kumam (King Mongkut's University of Technology Thonburi, Thailand) Some Fixed Point Theorems with Applications in Differential Equations	Abstracts p. 522

Contributed Session 7	Bifurcation and Chaotic Dynamics Chair(s): Francisco F. Pla Martos	Location C11-501-1
14:00-14:20	Chih-Hung Chang (Feng Chia University, Taiwan) Conjugacy of Symbolic Spaces Under (j,m)-decimation	Abstracts p. 531
14:20-14:40	Masoumeh Gharaei (University of Amsterdam, Netherlands) Skew Products of Interval Maps Over Subshifts	Abstracts p. 532
14:40-15:00	Neda Abbasi (Shahid Beheshti University, Iran) Wiggins Chaos in Linear Nonautonomous Discrete Systems	Abstracts p. 531
15:00-15:30	Francisco F. Pla Martos (Universidad de Castilla-La Mancha, Spain) A Symmetry-preserving POD Reduced Order Model to Calculate Bifurcations in a Rayleigh-Bénard Convection Problem	Abstracts p. 533
15:30-15:50	Mohammad Osman Gani (Meiji University, Japan) Stability Analysis of Periodic Traveling Wave Solutions for Excitable Media	Abstracts p. 532
15:50-16:10	Bau-Sen Du (Academia Sinica, Taiwan) On the Number of Bifurcations of Superstable Periodic Orbits for $f_c(x) = 1 - Cx^2$	Abstracts p. 531

Parallel Session 10
 Thursday, July 10
 17:00 – 19:30

Special Session 2	Nonlinear Evolution PDEs and Interfaces in Applied Sciences Organizer(s): Gunduz Caginalp, Maurizio Grasselli, Alain Miranville	Location EPS10
17:00-17:30	Mathias Wilke (Martin-Luther University Halle-Wittenberg, Germany) Rayleigh-Taylor Instability for the Two-phase Navier-Stokes Equations with Surface Tension	Abstracts p. 15
17:30-18:00	Anton Savostianov (University of Surrey, England) Srichartz Estimates and Smooth Attractors for Wave Equations with Fractional Damping in Bounded Domains	Abstracts p. 14
18:00-18:30	Julien Dambre (Universite de Poitiers, France) On Optimal Mixing Schemes	Abstracts p. 11
Special Session 7	Topological and Combinatorial Dynamics Organizer(s): Lluis Alsedà, Francisco Balibrea, Piotr Oprocha	Location E16-104
17:00-17:30	Judy A. Kennedy (Lamar University, USA) Dynamics on Inverse Limits Generated by Set-valued Functions	Abstracts p. 32
17:30-18:00	Vladimir Spitalsky (Matej Bel University, Banska Bystrica, Slovak Rep) Transitivity Without (relative) Specification in Dendrites	Abstracts p. 34
18:00-18:30	Grzegorz M. Swirszcz (IBM T.J. Watson Research, USA) Complexity Estimates of Orthogonal Matching Pursuit Under RIP Conditions	Abstracts p. 35
18:30-19:00	Alfred Peris (Universitat Politecnica de Valencia, Spain) Some Invariant Strongly Mixing Measures for Operators	Abstracts p. 33
19:00-19:30	Christian Rodrigues (Max Planck Institute for Mathematics in the Sciences, Germany) Representation of Markov Chains by Random Maps: Existence and Regularity Conditions	Abstracts p. 33

Special Session 9	Dissipative Systems and Applications Organizer(s): Georg Hetzer, Wenxian Shen, Jose Ignacio Tello	Location C11-201-1
17:00-17:30	Lourdes Tello (Universidad Politecnica de Madrid, Spain) On a Simple Biosphere Energy Balance Model	Abstracts p. 46
17:30-18:00	Giuseppe Floridia (Istituto Nazionale di Alta Matematica (INdAM), Italy) Multiplicative Controllability of Nonlinear Degenerate Parabolic Equations	Abstracts p. 43
18:00-18:30	Paul Sauvy (Université Toulouse 1 - Capitole / Institut Mathématique de Toulouse, France) On the Existence of Boundary Blow-up Solutions for a General Class of Quasilinear Elliptic Systems	Abstracts p. 45
18:30-19:00	Juan Francisco J. Padial Molina (Univ. Politecnica de Madrid, Spain) The Relative Rearrangement: Applications in Plasma Physics and Image Processing	Abstracts p. 45
19:00-19:30	Monica Lazzo (University of Bari, Italy) Radial Solutions of Polyharmonic Equations with Power Nonlinearities	Abstracts p. 44
Special Session 14	Reaction Diffusion Equations and Applications Organizer(s): Jerome Goddard II, Ratnasingham Shivaji	Location C0-307
17:00-17:30	Maya Chhetri (UNC Greensboro, USA) Positive Solutions of Superlinear Semipositone Problems	Abstracts p. 64
17:30-18:00	Marcello Lucia (College of Staten Island, CUNY, USA) Energy Space in the Study of Linear Problem	Abstracts p. 65
18:00-18:30	Prashanth Srinivasan (TIFR, India) Analytic Global Bifurcation and Infinite Turning Points for Very Singular Problems	Abstracts p. 66
18:30-19:00	Eunkkyung Ko (Tata Institute Fundamental Research Center for Applicable Mathematics, India) Positive Solutions for Elliptic Equations with Nonlinear Boundary Conditions Arising in a Theory of Thermal Explosion	Abstracts p. 65
19:00-19:30	Jon Jacobsen (Harvey Mudd College, USA) Integrodifference Models for Persistence in Temporally Varying River Environments	Abstracts p. 64

Special Session 17	Direct and Inverse Problems in Abstract Spaces and Applications Organizer(s): Angelo Favini, Davide Guidetti	Location E7-201
17:00-17:30	Luciano Pandolfi (Dipartimento di Scienze Matematiche “G.L. Lagrange” Politecnico di Torino, Italy) Controllability of Systems with Persistent Memory and Cosine Operators	Abstracts p. 78
17:30-18:00	Genni Fragnelli (University of Bari, Italy) Singular Parabolic Equations with Interior Degeneracy	Abstracts p. 77
18:00-18:30	Francesca Bucci (Università di Firenze, Italy) Decay Rates of Solutions to a Fluid-structure Interaction Problem	Abstracts p. 77
Special Session 21	Variational, Topological, and Set-valued Methods for Differential Problems Organizer(s): Gabriele Bonanno, Siegfried Carl, Salvatore A. Marano, Dumitru Motreanu	Location EPS8
17:00-17:30	Monica Marras (University of Cagliari, Italy) Bounds for Blow-up Time in Nonlinear Parabolic Problems Under Various Boundary Conditions	Abstracts p. 98
17:30-18:00	Antonio Iannizzotto (University of Verona, Italy) Weyl-type Laws for Fractional P-eigenvalues	Abstracts p. 96
18:00-18:30	Csaba Farkas (Babes Bolyai University, Cluj Napoca, Romania) A Quasilinear Elliptic Equations Involving Critical Sobolev Exponents	Abstracts p. 95
18:30-19:00	Francesca Faraci (Catania University, Italy) Some Existence Results for a Semilinear Elliptic Problem with a Singular Term	Abstracts p. 95
19:00-19:30	Lin Li (Southwest University, China, Peoples Rep of China) Infinitely Many Solutions for a Nonlinear Klein-Gordon-Maxwell System	Abstracts p. 97

Special Session 23	Recent Progress in the Mathematical Theory of Compressible Fluid Flows Organizer(s): Eduard Feireisl, Milan Pokorný	Location E7-102
17:00-17:30	Helmut Abels (University of Regensburg, Germany) Diffuse Interface Models for Two-Phase Flows with Surfactants	Abstracts p. 108
17:30-18:00	Raphaël Danchin (Université Paris-Est Créteil, France) Global Solutions with Critical Regularity for a Model of Radiating Flows	Abstracts p. 108
18:00-18:30	Pavel I. Plotnikov (Lavrentyev Institute of Hydrodynamics RAS, Russia) Compressible Navier-Stokes Equations and a Radon Transform	Abstracts p. 109
18:30-19:00	Yoshihiro Shibata (Full Professor, RISE and Math. Dept., Waseda University, Japan) On Some Two Phase Free Boundary Problem for Compressible Viscous Fluid Flow	Abstracts p. 109
19:00-19:30	Song Jiang (Institute of Applied Physics & Computational Mathematics, Beijing, Peoples Rep of China) On the Dynamical Rayleigh-Taylor Instability in Compressible Viscous Flows Without Heat Conductivity	Abstracts p. 108
Special Session 25	Dynamics of Chaotic and Complex Systems and Applications Organizer(s): Jesus M. Seoane, Miguel A.F. Sanjuan	Location C0-209
17:00-17:30	Stefano Ruffo (Florence University, Italy) Kuramoto Model of Synchronization: Equilibrium and Nonequilibrium Aspects	Abstracts p. 117
17:30-18:00	Judy A. Kennedy (Lamar University, USA) Dynamical Systems Generated by Multi-valued Functions	Abstracts p. 115
18:00-18:30	Wioleta Serwata (Lodz University of Technology, Poland) Lyapunov Exponents of an Impact Oscillator with Hertz's and Newton's Model of Contact	Abstracts p. 117
18:30-19:00	Ram Ramaswamy (University of Hyderabad, India) Phase-locked Solutions with Time-delay Coupling: System Size Dependence	Abstracts p. 116
19:00-19:30	Krzysztof Jankowski (Lodz University of Technology, Poland) Physics Based Modelling of Friction	Abstracts p. 115

Special Session 35	Direct and Inverse Problems in Wave Propagation Organizer(s): Fioralba Cakoni, Francisco-Javier Sayas	Location C0-205
17:00-17:30	Maria-Luisa Rapun (Universidad Politecnica de Madrid, Spain) Domain Reconstruction Using Multifrequency Topological Sensitivity	Abstracts p. 159
17:30-18:00	Hélène Barucq (Inria, France) Shape Reconstruction of Non-convex Elastic Scatterers Using a Regularized Newton-type Method	Abstracts p. 157
18:00-18:30	Sonia Fliss (POems (UMR 7231 CNRS-INRIA-ENSTA), France) High Order Transmission Conditions at the Interface Between Homogeneous and Periodic Media	Abstracts p. 158
18:30-19:00	Zixian Jiang (Universitaet Bremen, Germany) Non-destructive Eddy Current Inspection of Highly Conductive Thin Layer Deposits Via Asymptotic Models	Abstracts p. 159
19:00-19:30	Erwin Suazo (Arizona State University/University of Puerto Rico, USA) Spiral Laser Beams in Inhomogeneous Media	Abstracts p. 160
Special Session 38	Recent Trends in Nonlinear Schrodinger Systems Organizer(s): Benedetta Pellacci, Gianmaria Verzini	Location C11-201-4
17:00-17:30	Boyan S. Sirakov (PUC-Rio de Janeiro, Brazil) Proportionality of Components, Liouville Theorems and Existence Results for a Class of Elliptic Systems	Abstracts p. 171
17:30-18:00	Zhi-Qiang Wang (Utah State University, USA) Sign-changing Solutions for Nonlinear Elliptic Systems	Abstracts p. 172
18:00-18:30	Susanna Terracini (University of Torino, Italy) Geometric Aspects and a Priori Estimates for Strongly Competing Systems with Non Standard Diffusion	Abstracts p. 172

Special Session 39	Interfaces in Fluid Mechanics Organizer(s): Helmut Abels, Harald Garcke	Location C16-101-6
17:00-17:30	Joachim Escher (Leibniz University Hannover, Germany) Bounded Traveling Waves for a Thin Film with Gravity and Insoluble Surfactant	Abstracts p. 174
17:30-18:00	Bogdan Matioc (Leibniz University Hanover, Germany) The Two-phase Porous Medium Equation: Asymptotic Behavior of Weak Solutions	Abstracts p. 176
18:00-18:30	Christian Rohde (University of Stuttgart, Germany) Generalized Riemann Solvers for Compressible Liquid-Vapour Flow with Phase Transition and Surface Tension	Abstracts p. 176
18:30-19:00	Günther Grün (Erlangen University, Germany) On Finite Speed of Propagation and Waiting Time Phenomena for the Stochastic Porous Medium Equation	Abstracts p. 175
19:00-19:30	Matthias D. Kotschote (University Konstanz, Germany) Recent Results to Stability of Stationary Solutions to Compressible Diffuse Interface Models	Abstracts p. 175
Special Session 40	Qualitative Aspects of Linear and Nonlinear Elliptic and Parabolic Problems Organizer(s): Marta Garcia-Huidobro, Raul Manasevich	Location C0-312
17:00-17:30	Jorge Garcia-Melian (Universidad de La Laguna, Spain) Optimal Liouville Theorems for Semilinear Equations in Exterior Domains	Abstracts p. 179
17:30-18:00	Mabel M. Cuesta (Universite Du Littoral Cote D'Opale ULCO, France) A One Side Superlinear Critical Resonant Problem with Small Forcing Term	Abstracts p. 178
18:00-18:30	Vladimir Bobkov (University of Rostock, Germany) On Sign-changing Solutions for Elliptic Equations with Complex Nonlinearities	Abstracts p. 178
18:30-19:00	Duvan Henao Manrique (Pontificia Universidad Catolica de Chile, Chile) Regularized Nonlinearly Elastic Fractures	Abstracts p. 179
19:00-19:30	Julian Fernandez Bonder (Universidad de Buenos Aires, Argentina) An Extension of a Theorem of V. Sverák to Variable Exponent Spaces	Abstracts p. 179

Special Session 41	Topological and Variational Methods for Multivalued Differential Equations Organizer(s): Irene Benedetti, Valentina Taddei	Location E15-103
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18:30-19:00	Paola Rubbioni (University of Perugia, Italy) A Unified Approach to Some Classes of Evolution Equations and Systems with Nonlocal Conditions	Abstracts p. 184
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18:30-19:00	Alfredo A. Morales (Grupo de Sistemas Complejos. Universidad Politecnica de Madrid., Spain) Efficiency of Human Activity on Information Spreading on Twitter	Abstracts p. 451
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19:00-19:30	Christian P. Reinhardt (VU University Amsterdam, Netherlands) Rigorous Numerics for ODEs Using Chebyshev Series with Connections to the Parametrization Method	Abstracts p. 455
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18:00-18:30	Daniela Tonon (Ceremade Université Paris Dauphine, France) Degenerate Second Order Mean Field Games Systems	Abstracts p. 464

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17:30-18:00	Yohei Fujishima (Osaka University, Japan) Stability for Parabolic Quasiminimizers	Abstracts p. 484
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17:30-18:00	Igor L. Freire (UFABC, Brazil) Symmetries and Conservation Laws of a New Third Order Equation	Abstracts p. 492
18:00-18:30	Rehana Naz (Centre for Mathematics and Statistical Sciences Lahore School of Economics Lahore, Pakistan, Pakistan) The Closed Form Solutions of Some Economic Growth Models Via Partial Hamiltonian Approach	Abstracts p. 494
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17:20-17:40	Hiroshi Nishiura (The University of Tokyo, Japan) Assessing Test-and-vaccinate Policy Against Rubella Using an Epidemic Model	Abstracts p. 509
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17:20-17:40	Maxim Staritsyn (Institute for System Dynamics and Control Theory of SB RAS, Russia) Dynamical Systems with Polynomial Impulses	Abstracts p. 513
17:40-18:00	Domingo A. Tarzia (CONICET & Univ. Austral, Argentina) Numerical Analysis of an Optimal Control Problem Governed by an Elliptic Variational Inequality	Abstracts p. 513
18:00-18:20	Mikhail Gusev (Institute of Mathematics and Mechanics, Russia) On Reachability Analysis for Nonlinear Systems with State Constraint	Abstracts p. 512
18:20-18:40	Vasily a Shmyrov (Saint-Petersburg State University, Russia) Control of Orbital Motion in a Neighborhood of Collinear Libration Point of the Earth-Sun System	Abstracts p. 513
18:40-19:00	Teresa T. Grilo (FCUP, Portugal) Optimal Control of Incompressible Flow Driven Systems	Abstracts p. 512

Contributed Session 6	PDEs and Applications Chair(s): Jaiok Roh	Location E16-105
17:00-17:20	Leszek Bartczak (University of Warsaw, Poland) Analysis of a Certain Model of Thermo-visco-plasticity	Abstracts p. 516
17:20-17:40	Radu C. Cascaval (University of Colorado Colorado Springs, USA) Micro/Macroscopic Models for Control in Arterial Networks	Abstracts p. 517
17:40-18:00	Vladimir A. Gordin (National Research University 'Higher School of Economics', Hydrometeorological Center of Russia, Russia) Compact Difference Schemes for Problems of Mathematical Physics	Abstracts p. 520
18:00-18:20	Seung Dae Lee (Sangmyung University, Korea) A Multiplicity Result for $p(x)$ -Laplace Type Operator in Ω	Abstracts p. 522
18:20-18:40	Jaiok Roh (Hallym University, Korea) The Asymptotic Behavior of the Euler Equations	Abstracts p. 525
18:40-19:00	Chen Huanzhen (Shandong Normal University, Peoples Rep of China) H^1 -Galerkin Expanded Mixed Finite Element Simulation for Sobolev Equation in Polymer Flow	Abstracts p. 521

Contributed Session 7	Bifurcation and Chaotic Dynamics Chair(s): Alexandre A. Rodrigues	Location C11-501-1
17:00-17:20	Fatma Aydogmus (Istanbul University, Turkey) Transition from Regular Structure to Chaos in 4D Spinor Type Instantons	Abstracts p. 531
17:20-17:40	Jana Dvorakova (Silesian University in Opava, Czech Rep) Chaos in Nonautonomous Discrete Dynamical Systems	Abstracts p. 532
17:40-18:00	Valery A. Gaiko (NAS of Belarus, Belarus) Towards Theory of Liénard and Lorenz Polynomial Systems	Abstracts p. 532
18:00-18:20	Peter Langfield (University of Auckland, New Zealand) Interactions of Forward- and Backward-time Isochrons	Abstracts p. 532
18:20-18:40	Sabrina Badi (Guelma University, Algeria) Maximum Number of Limit Cycles for Generalized Lienard Differential Equations	Abstracts p. 531
18:40-19:00	Alexandre A. Rodrigues (Porto University, Portugal) Heteroclinic Tangencies Near a Bykov Cycle	Abstracts p. 533
19:00-19:20	Jakub Sotola (Silesian University in Opava, Czech Rep) On the Minimal Non-invertible Skew-products of 2-manifolds	Abstracts p. 534

Parallel Session 11

Friday, July 11

11:30 – 12:30

Special Session 7	Topological and Combinatorial Dynamics Organizer(s): Lluis Alsedà, Francisco Balibrea, Piotr Oprocha	Location E16-104
11:30-12:00	Jose M. Amigo (Miguel Hernandez University, Spain) Entropy and Switching Systems	Abstracts p. 31
12:00-12:30	Leszek Szala (Silesian University in Opava, Czech Rep) Chaotic Behavior of Non-autonomous Systems with Randomly Perturbed Trajectories	Abstracts p. 35
Special Session 23	Recent Progress in the Mathematical Theory of Compressible Fluid Flows Organizer(s): Eduard Feireisl, Milan Pokorný	Location E7-102
12:00-12:30	Antonin Novotny (University of Toulon, France) Relative Energy Method in the Thermodynamics of Compressible Fluids	Abstracts p. 109
Special Session 25	Dynamics of Chaotic and Complex Systems and Applications Organizer(s): Jesus M. Seoane, Miguel A.F. Sanjuan	Location C0-209
11:30-12:00	Anastasios Bountis (University of Patras, Greece, Greece) Solitary Wave Formation and Dynamics of Piecewise Autonomous Systems	Abstracts p. 113
12:00-12:30	Ulrich Parlitz (Max Planck Institute for Dynamics and Self-Organization, Germany) Quantifying Uncertainty in State and Parameter Estimation	Abstracts p. 116
Special Session 26	Dynamical Systems and Spectral Theory Organizer(s): David Damanik	Location EPS4
11:30-12:00	Peter Yuditskii (University of Linz, Austria) Jacobi Flow on SMP Matrices and Killip-Simon Problem	Abstracts p. 121
12:00-12:30	Mircea Voda (University of Toronto, Canada) On Large Deviations Estimates for the Dirichlet Determinants of the Anderson Model	Abstracts p. 120

Special Session 28	Functional Analytic Techniques for Evolutionary Equations Arising in the Natural Sciences Organizer(s): Jacek Banasiak, Wilson Lamb	Location C11-101-3
11:30-12:00	Christoph Walker (University of Hanover, Germany) Positive Equilibrium Solutions in Structured Population Dynamics	Abstracts p. 127
12:00-12:30	Julie Sauzeau (Universite Rennes 1, France) A Problem of Population Dynamic	Abstracts p. 127
Special Session 39	Interfaces in Fluid Mechanics Organizer(s): Helmut Abels, Harald Garcke	Location C16-101-6
11:30-12:00	Marco A. Fontelos (ICMAT, Spain) The Coupling of Poisson-Boltzmann and Stokes Equations Modelling a Drop of Electrolyte Solutions in an Electric Field	Abstracts p. 174
12:00-12:30	Bjorn Stinner (University of Warwick, England) On Multi-phase Flow with Surfactant	Abstracts p. 176
Special Session 40	Qualitative Aspects of Linear and Nonlinear Elliptic and Parabolic Problems Organizer(s): Marta Garcia-Huidobro, Raul Manasevich	Location C0-312
11:30-12:00	Carmen Cortazar (U. Catolica de Chile, Chile) Stationary Solutions of a Nonlocal, Nonhomogenous Equation.	Abstracts p. 178
12:00-12:30	Raul Manasevich (University of Chile, Chile) Sign Changing Radial Solutions on \mathbb{R}^N for an Equation with a p -Laplace Operator and Weights	Abstracts p. 180
Special Session 47	Mathematical Modelling and Numerical Methods for Phase-field Problems Organizer(s): Laurence Cherfils, Alain Miranville, Madalina Petcu	Location C16-101-4
11:30-12:00	Morgan Pierre (Poitiers University, France) Convergence to Equilibrium for Discretized Phase-field Systems with Gradient-like Structure	Abstracts p. 199
12:00-12:30	Flore Nabet (I2M, Aix-Marseille Université, France) A Finite-Volume Scheme for the Cahn-Hilliard Equation with Dynamic Boundary Conditions	Abstracts p. 199

Special Session 52	Nonlinear Evolution Equations Organizer(s): Petronela Radu, John Stalker	Location C11-201-3
11:30-12:00	John Stalker (Trinity College Dublin, Ireland) Estimates for Nonlocal Analogues of the Wave Equation	Abstracts p. 218
12:00-12:30	Ignat Ioan Liviu (Institute of Mathematics Simion Stoilow, Romania) Long-time Behaviour for Nonlocal Problems	Abstracts p. 217
Special Session 60	Recent Advances in Evolutionary Equations Organizer(s): Ryo Ikehata, Tuoc Phan, Grozdena Todorova	Location C0-302
11:30-12:00	Michael Reissig (Technical University Freiberg, Germany) Semi-linear Structurally Damped Evolution Models	Abstracts p. 246
12:00-12:30	Ryo Ikehata (Hiroshima University, Japan) Asymptotic Profiles for Strongly Damped Wave Equations	Abstracts p. 245
Special Session 61	Enhanced Sampling Techniques in Simulation of Complex Systems Organizer(s): Elena Akhmatkaya, Jesus Maria Sanz-Serna	Location C16-101-5
11:30-12:00	Raul Toral (ifisc (CSIC-UIB), Spain) Weighted-ensemble Brownian Dynamics Simulation: Sampling of Rare Events in Non-equilibrium Systems	Abstracts p. 251
12:00-12:30	Charles Matthews (University of Edinburgh, Scotland) Using Langevin Dynamics Splitting Algorithms to Reduce Discretization Bias	Abstracts p. 250
Special Session 67	Topological Methods for the Qualitative Analysis of Differential Equations and Inclusions Organizer(s): Pierluigi Benevieri, Marco Spadini	Location E7-104
11:30-12:00	Laura Poggolini (Università degli Studi di Firenze, Italy) Invertibility of Nonsmooth Maps Arising in Optimal Control	Abstracts p. 274
12:00-12:30	Francesca Dalbono (Università degli Studi di Palermo, Italy) Nodal Solutions for Supercritical Laplace Equations	Abstracts p. 274

Special Session 77	Theoretical, Technical, and Experimental Challenges in Closed-loop Approaches in Biology Organizer(s): David Arroyo, Pablo Varona	Location E7-203
11:30-12:00	David Arroyo (Universidad Autónoma de Madrid, Spain) Automatic Event Detection and Characterization in the Context of Real-time Control of Complex Time-varying Dynamical Systems	Abstracts p. 311
12:00-12:30	Eva E. Navarro (The University of Manchester/School of Computer Science, England) Neuro-DYVERSE: Building Hybrid Systems Neuroscience	Abstracts p. 313
Special Session 83	Fluid Flows in Unbounded Domains Organizer(s): Reinhard Farwig, Jiri Neustupa	Location E15-104
11:30-12:00	Werner Varnhorn (Kassel University, Germany) Necessary and Sufficient Conditions for the Existence of Helmholtz Decompositions in General Domains	Abstracts p. 333
12:00-12:30	Yasunori Maekawa (Tohoku University, Japan) Remark on the Helmholtz Decomposition in Unbounded Domain with Noncompact Boundary	Abstracts p. 332
Special Session 84	Dynamics and Games Organizer(s): Alberto Pinto, Michel Benaim	Location EPS10
11:30-12:00	Ricardo Cruz (University of Porto, Portugal) Testing the Universality of the BHP Distribution	Abstracts p. 335
12:00-12:30	Bruno Oliveira (University of Porto / INESC TEC, Portugal) Convergence of Edgeworthian Prices in a Random Matching Economy	Abstracts p. 336
Special Session 88	Stochastic Processes and Spectral Theory for Partial Differential Equations and Boundary Value Problems Organizer(s): Francis Nier, Tony Lelievre	Location C0-206
11:30-12:00	Mireille Bossy (INRIA, France) On the Well-posedness of Stochastic Lagrangian Models	Abstracts p. 350
12:00-12:30	Arnaud Guillin (CNRS - Blaise Pascal University and IUF, France) Long Time Behaviour of SDE : from Coupling to Functional Inequalities	Abstracts p. 350

Special Session 89	Applications of Topological and Variational Methods to Boundary Value Problems Organizer(s): John R. Graef	Location C0-301
11:30-12:00	Daniel Franco (uned (Universidad Nacional de Educación a Distancia), Spain) Stabilization of Unidimensional Discrete Population Models Via Conditional Strategies	Abstracts p. 355
12:00-12:30	Irena Rachunkova (Palacky University Olomouc, Czech Rep) Solvability of BVPs with State-dependent Impulses Via Fixed Point Theorem	Abstracts p. 356
Special Session 100	Analysis of Free Boundary Problems Organizer(s): Patrick Guidotti, Joachim Escher, Christoph Walker	Location C11-201-1
11:30-12:00	Steve Shkoller (University of Oxford, USA) Global Existence, Decay, and Stability for the Classical Stefan Problem	Abstracts p. 391
12:00-12:30	Gieri Simonett (Vanderbilt University, USA) On Two-phase Flows with Phase Transitions: the Case of Equal Densities	Abstracts p. 391
Special Session 102	Kinetic Models for Multi-agent Systems Modeling Socio-economic Behavior Organizer(s): Pierre Degond, Sébastien Motsch, Christian Ringhofer	Location C11-201-4
11:30-12:00	Lorenzo Pareschi (University of Ferrara, Italy) Kinetic Description of Control in Multi-agent Systems	Abstracts p. 396
12:00-12:30	Axel Klar (TU Kaiserslautern, Germany) Mean Field Hierarchies for Interacting Particle Systems: Numerical Methods and Applications	Abstracts p. 395
Special Session 115	Mathematical Models of Chemotaxis Organizer(s): Jose Ignacio Tello, Michael Winkler	Location EPS5
11:30-12:00	Akisato Kubo (Fijita Health University, Japan) Global Existence in Time of a Model of Chemotaxis	Abstracts p. 445
12:00-12:30	Arturo Hidalgo (Universidad Politecnica de Madrid, Spain) A High Order Finite Volume Scheme for a Model of Chemotaxis	Abstracts p. 445

Special Session 116	Interacting Population on Social, Economic and Ecological Networks Organizer(s): Rosa Maria Benito, Juan Carlos Losada	Location E15-102
11:30-12:00	M. Ángeles Serrano (Universitat de Barcelona, Spain) Mapping the World Trade Web	Abstracts p. 452
12:00-12:30	Javier Borondo (Universidad Politecnica de Madrid, Spain) Meritocracy and Topocracy in the Age of Networks	Abstracts p. 449
Special Session 117	Rigorous and Numerical Methods for Invariant Manifolds Organizer(s): Alex Haro, Jordi-Lluis Figueras, Alejandro Luque	Location C11-101-2
11:30-12:00	Gianni Arioli (Politecnico di Milano, Italy) Existence and Stability of Traveling Pulse Solutions for the FitzHugh-Nagumo Equation. Part I: Existence	Abstracts p. 453
12:00-12:30	Hans A. Koch (The University of Texas at Austin, USA) Existence and Stability of Traveling Pulse Solutions for the FitzHugh-Nagumo Equation, Part II: Stability.	Abstracts p. 454
Special Session 124	Renormalization and Universality in Low-dimensional Dynamics: from Computer Experiment to Proof. Dedicated to the Memory of Oscar Lanford III Organizer(s): Denis Gaidashev, Michael Yampolsky	Location C0-204
11:30-12:00	Michael Yampolsky (University of Toronto, Canada) The Fixed Point of Parabolic Renormalization	Abstracts p. 480
12:00-12:30	Arnaud Chéritat (CNR/Institut Math. Bordeaux, France) Near Parabolic Renormalization for Unicritical Maps	Abstracts p. 479
Special Session 127	Functional Inequalities and Variational Problems Organizer(s): Michinori Ishiwata, Bernhard Ruf, Futoshi Takahashi	Location C0-207
11:30-12:00	Yoshihiro Sawano (Tokyo Metropolitan University, Japan) Littlewood-Paley Theory and Gagliardo-Nirenberg Inequalities	Abstracts p. 486
12:00-12:30	Marta Calanchi (University of Milan, Italy) On Trudinger-Moser Type Inequalities with Logarithmic Weights	Abstracts p. 484
12:30-13:00	Michinori Ishiwata (Osaka University, Japan) On the Effect of Equivalent Constraints on a Maximizing Problem Associated with the Sobolev Embedding in \mathbb{R}^N	Abstracts p. 485

Special Session 129	Qualitative and Quantitative Techniques for Differential Equations Arising in Economics, Finance and Natural Sciences Organizer(s): Mariano Torrisi, Rehana Naz, Igor Leite Freire, Imran Naeem	Location EPS9
11:30-12:00	Geraldo L. Diniz (Federal University at Mato Grosso, Brazil) Environmental Dispersion Modelled by PDE: Numerical Approximations and Computer Simulations	Abstracts p. 492
12:00-12:30	Adnan Khan (Lahore University of Management Sciences, Pakistan) Optimal Control Techniques for Epidemic Models	Abstracts p. 493

Parallel Session 12

Friday, July 11

14:00 – 16:30

Special Session 7	Topological and Combinatorial Dynamics Organizer(s): Lluis Alsedà, Francisco Balibrea, Piotr Oprocha	Location E16-104
14:00-14:30	Michał Misiurewicz (Indiana University-Purdue University Indianapolis, USA) No Semiconjugacy to a Map of Constant Slope	Abstracts p. 33
14:30-15:00	Henk Bruin (University of Vienna, Austria) Matching Interval Maps	Abstracts p. 31
15:00-15:30	Petr Kurka (Charles University in Prague, Czech Rep) Expansion Subshifts of Iterative Systems	Abstracts p. 32
15:30-16:00	Jan Kwiatkowski (Faculty of Mathematics and Computer Science, University of Warmia and Mazury in Olsztyn, Poland) A Structure of Full Groups of Minimal Homeomorphisms of Cantor Systems and Hopf-equivalence Relation	Abstracts p. 32
16:00-16:30	Antonio Cascales-Vicente (Universidad de Murcia, Spain) The Forbidden Set of Some Rational Difference Equations	Abstracts p. 31
Special Session 14	Reaction Diffusion Equations and Applications Organizer(s): Jerome Goddard II, Ratnasingham Shivaji	Location C0-307
14:00-14:30	Georg Hetzer (Auburn University, USA) Diffusion-driven Instability for Non-autonomous Problems	Abstracts p. 64
14:30-15:00	Peter Takac (University of Rostock, Germany) Travelling Waves in a Fisher-Kolmogorov-type Model with Degenerate Diffusion and Nonsmooth Reaction	Abstracts p. 66
15:00-15:30	Anoop Thazhe Veetil (University of West Bohemia, Czech Rep) Weighted Quasilinear Eigenvalue Problems in Exterior Domains	Abstracts p. 66
15:30-16:00	Sarath Sasi (University of West Bohemia, Czech Rep) Antimaximum Principle in Exterior Domains	Abstracts p. 66
16:00-16:30	Nsoki Mavinga (Swarthmore College, USA) Bifurcation and Multiplicity for Elliptic Equations with Nonlinear Boundary Conditions	Abstracts p. 65

Special Session 23	Recent Progress in the Mathematical Theory of Compressible Fluid Flows Organizer(s): Eduard Feireisl, Milan Pokorný	Location E7-102
14:00-14:30	Ondrej Kreml (Czech Academy of Sciences, Czech Rep) On Bounded Solutions to the Compressible Isentropic Euler System	Abstracts p. 108
14:30-15:00	Yongzhong Sun (Nanjing University, Peoples Rep of China) Blowup Criteria for Strong Solutions to Navier-Stokes-Fourier System with Variable Viscosities	Abstracts p. 109
15:00-15:30	Piotr B. Mucha (University of Warsaw, Poland) Mathematical Cocktails: Construction of Solutions	Abstracts p. 109
15:30-16:00	Feng Xie (Shanghai Jiao Tong University, Peoples Rep of China) On Qualitative Studies of Solutions for Several Related Radiation Hydrodynamics Models	Abstracts p. 109
16:00-16:30	Jan Brezina (IMI Kyushu University, Japan) On Asymptotic Behavior of Solutions to the Compressible Navier-Stokes Equation Around a Time-periodic Parallel Flow	Abstracts p. 108
Special Session 25	Dynamics of Chaotic and Complex Systems and Applications Organizer(s): Jesus M. Seoane, Miguel A.F. Sanjuan	Location C0-209
14:00-14:30	Ezequiel del Rio (UPM, Spain) New Generalization for the Intermittency Theory for Type I, II and III.	Abstracts p. 114
14:30-15:00	Irina N. Pankratova (Institute of Math and Math Modelling, Kazakhstan) Dynamical Systems As Mathematical Models with a Limiting Factor	Abstracts p. 116
15:00-15:30	Paul Inchin (Institute of Mathematics and Mathematical Modeling, Kazakhstan) Computer Simulation of Macro System Nonlinear Dynamics	Abstracts p. 115
15:30-16:00	Sergey V. Gonchenko (Nizhny Novgorod State University, Russia) "Mixed Dynamics" As a New Type of Dynamical Chaos	Abstracts p. 114
16:00-16:30	Hong Fan (Donghua University, Peoples Rep of China) Effect of the Central Bank on the Stability of a Bank Network System	Abstracts p. 114

Special Session 26	Dynamical Systems and Spectral Theory Organizer(s): David Damanik	Location EPS4
14:00-14:30	Junxiang Xu (Southeast University, Peoples Rep of China) On Reducibility of 2-dimensional Linear Quasi-periodic System with Small Parameter	Abstracts p. 121
14:30-15:00	Albert H. Werner (FU Berlin, Germany) Bound States and Propagation Properties of Quantum Walks	Abstracts p. 120
15:00-15:30	Luis Velázquez (Universidad de Zaragoza and IUMA, Spain) Recurrence in Quantum Dynamical Systems, Schur Functions and Spectral Theory	Abstracts p. 120
15:30-16:00	Maxim Zinchenko (University of New Mexico, USA) CMV Matrices with Super Exponentially Decaying Verblunsky Coefficients	Abstracts p. 121
16:00-16:30	Mihai Stoiciu (Williams College, USA) Spectral Properties of Random Schrodinger Operators with Small Coupling Constants	Abstracts p. 120
Special Session 28	Functional Analytic Techniques for Evolutionary Equations Arising in the Natural Sciences Organizer(s): Jacek Banasiak, Wilson Lamb	Location C11-101-3
14:00-14:30	Mustapha Mokhtar-Kharroubi (University of Franche-Comte Besancon, France) Compactness Properties of Perturbed Substochastic Semigroups on L1 with Applications to Discreteness and Spectral Gaps	Abstracts p. 127
14:30-15:00	Yahya Mohamed (Universite de Franche Compte, France) Symmetrizable Operators in Hilbert Spaces and Spectra of Neutron Transport	Abstracts p. 127
15:00-15:30	Marcin Malogrosz (University of Warsaw, Poland) Dimension Reduction in a Model of Morphogen Transport	Abstracts p. 127
15:30-16:00	Henryk Leszczynski (University of Gdansk, Poland) Molecular Ion Channels	Abstracts p. 126
16:00-16:30	Suares Clovis S. Oukouomi Noutchie (North-West University, So Africa) Dishonesty in Natural Science and Engineering	Abstracts p. 127

Special Session 39	Interfaces in Fluid Mechanics Organizer(s): Helmut Abels, Harald Garcke	Location C16-101-6
14:00-14:30	Hans Knuepfer (University of Heidelberg, Germany) Reduced Models for the Propagation of Fluids in the Presence of a Contact Point	Abstracts p. 175
14:30-15:00	Hans Wilhelm Alt (Technical University Munich, Germany) The Entropy Principle for Fluid Systems	Abstracts p. 174
15:00-15:30	Gabriele Witterstein (Technical University Munich, Germany) A Proof of a Sharp Interface Limit for Compressible Phase Change Flows	Abstracts p. 176
15:30-16:00	Matthias Köhne (Heinrich-Heine-Universität Düsseldorf, Germany) Dynamics of Membrane Configurations in Incompressible Newtonian Fluids	Abstracts p. 175
16:00-16:30	Sergio Frigeri (WIAS-Berlin, Italy) Some New Results on Nonlocal Cahn-Hilliard-Navier-Stokes Systems for Incompressible Binary Flow	Abstracts p. 174
Special Session 40	Qualitative Aspects of Linear and Nonlinear Elliptic and Parabolic Problems Organizer(s): Marta Garcia-Huidobro, Raul Manasevich	Location C0-312
14:00-14:30	Jose J. Sabina de Lis (Universidad de La Laguna, Spain) Diffusion Problems of Concave-convex Nature: Existence and Multiplicity of Solutions.	Abstracts p. 180
14:30-15:00	Pilar Herreros (P. Universidad Católica de Chile, Chile) Uniqueness of the Limit for an Asymptotically Autonomous Semilinear Equation on \mathbb{R}^N	Abstracts p. 180
15:00-15:30	Satoshi Tanaka (Okayama University of Science, Japan) Uniqueness of Sign-changing Radial Solutions for a Semilinear Elliptic Equation with an Exponent Near 1 in Some 2-dimensional Annulus	Abstracts p. 181
15:30-16:00	Oscar Agudelo (West Bohemia University, Czech Rep) Higher Dimensional Catenoid, Liouville Equation and Allen-Cahn Equation	Abstracts p. 178
16:00-16:30	Laurent Veron (Université François Rabelais, France) Semilinear Fractional Elliptic Equations Involving Measures	Abstracts p. 181

Special Session 47	Mathematical Modelling and Numerical Methods for Phase-field Problems Organizer(s): Laurence Cherfils, Alain Miranville, Madalina Petcu	Location C16-101-4
14:00-14:30	Sebastian Minjeaud (Univ. Nice Sophia Antipolis, France) Consistent Hierarchy of Cahn-Hilliard Systems and Applications to Multiphase Flows	Abstracts p. 199
14:30-15:00	Ludovic Goudenege (CNRS - Ecole Centrale Paris, France) Phase-field Modeling with Surfactants	Abstracts p. 199
15:00-15:30	Hussein Fakih (Poitiers University, France) Finite-dimensional Attractors for the Bertozi-Esedoglu-Gillette-Cahn-Hilliard Equation in Image Inpainting	Abstracts p. 198
Special Session 52	Nonlinear Evolution Equations Organizer(s): Petronela Radu, John Stalker	Location C11-201-3
14:00-14:30	A. Shadi Tahvildar-Zadeh (Rutgers University, USA) The Dirac Point Electron in Zero-gravity Kerr-Newman Spacetime	Abstracts p. 218
14:30-15:00	Ernesto Nungesser (Trinity College Dublin, Ireland) Future Stability of Homogeneous Cosmological Models	Abstracts p. 217
15:00-15:30	Enzo Vitillaro (Universita degli Studi di Perugia, Italy) Local Hadamard Well - Posedness and Blow -up for Reaction - Diffusion Equations with Non-linear Dynamical Boundary Conditions	Abstracts p. 218
15:30-16:00	Ho Lee (Kyung Hee University, Korea) Asymptotic Behaviour of Cosmological Solutions of the Einstein-Boltzmann System	Abstracts p. 217
16:00-16:30	Borislav Yordanov (Institute of Mathematics and Informatics, Bulgaria) On the Long Time Behavior of Solutions to the Thermoelastic Plate Equations	Abstracts p. 219

Special Session 56	IsoDifferential Calculus, IsoDynamical Systems and Their Applications Organizer(s): Svetlin Georgiev	Location E7-202
14:00-14:30	John Smidh (London University of Art Sciences, England) Extremal Properties of the Iso-functions	Abstracts p. 231
14:30-15:00	Laurent Peterson (Sorbonne University, France) Isodifferential of First, Second, Third and Forth Kind	Abstracts p. 231
15:00-15:30	Peter Maers (Public University of Uruguay, Uruguay) Iso-homogeneous Iso-functions	Abstracts p. 230
15:30-16:00	Nicolas Laurence (Imperial College of London, England) Isodual Functions	Abstracts p. 230
Special Session 60	Recent Advances in Evolutionary Equations Organizer(s): Ryo Ikehata, Tuoc Phan, Grozdena Todorova	Location C0-302
14:00-14:30	Hiroyuki Takamura (Future University Hakodate, Japan) Global Existence for Semilinear Wave Equations Including the Blow-up Term in Four Space Dimensions	Abstracts p. 246
14:30-15:00	Belkacem Said Houari (Alhosn University, United Arab Emirates) Damping by Heat Conduction in the Timoshenko System: Fourier and Cattaneo Are the Same	Abstracts p. 246
15:00-15:30	Hiroshi Takeda (Fukuoka Institute of Technology, Japan) Global Existence and Asymptotic Behavior of Solutions to the Nonlinear Beam Equation with Weak Damping	Abstracts p. 246
15:30-16:00	Joseph L. Shomberg (Providence College, USA) Dynamic Boundary Conditions with Memory: Well-Posedness of the Coleman-Gurtin Equation	Abstracts p. 246

Special Session 61	Enhanced Sampling Techniques in Simulation of Complex Systems Organizer(s): Elena Akhmatkaya, Jesus Maria Sanz-Serna	Location C16-101-5
14:00-14:30	Yuko Okamoto (Nagoya University, Japan) Enhanced Sampling Techniques for Spin and Biological Systems	Abstracts p. 250
14:30-15:00	Garegin Papoian (University of Maryland, USA) Computing Free Energy Landscapes of Small Molecules Interacting with DNA	Abstracts p. 250
15:00-15:30	Gareth A. Tribello (Queen's University Belfast, No Ireland) Using Sketch-map Coordinates to Bias Molecular Dynamics Simulations	Abstracts p. 251
15:30-16:00	Elena Akhmatkaya (Basque Center for Applied Mathematics, Spain) Mathematical Modeling of Latex Polymerization Processes	Abstracts p. 248
16:00-16:30	Ernesto Suarez (University of Pittsburgh, USA) Simultaneous Computation of Dynamical and Equilibrium Information Using a Weighted Ensemble of Trajectories	Abstracts p. 250
Special Session 67	Topological Methods for the Qualitative Analysis of Differential Equations and Inclusions Organizer(s): Pierluigi Benevieri, Marco Spadini	Location E7-104
14:00-14:30	Alessandro Margheri (CMAF and FCUL, Universidade de Lisboa, Portugal) Some Analytical Results About Periodic Orbits in the Restricted Three Body Problem with Dissipation	Abstracts p. 274
14:30-15:00	Marco Spadini (Università di Firenze, Italy) On Periodic Problems for Periodically Perturbed Equations on Manifolds	Abstracts p. 275
15:00-15:30	Pierluigi Benevieri (University of São Paulo, Brazil) A Concept of Degree for Multivalued Perturbations of Fredholm Maps in Banach Spaces and Its Application to Differential Inclusions	Abstracts p. 273
15:30-16:00	Joao Do O (Federal University of Paraíba, Brazil) Semilinear Elliptic Systems Involving Exponential Nonlinearities	Abstracts p. 274

Special Session 77	Theoretical, Technical, and Experimental Challenges in Closed-loop Approaches in Biology Organizer(s): David Arroyo, Pablo Varona	Location E7-203
14:00-14:30	Oscar Herreras (Cajal Institute, Spain) Experience-guided Combination of Principal and Independent Component Analyses to Rescue Pathway-specific Electrical Fields in the Brain	Abstracts p. 312
14:30-15:00	Peter Beim Graben (Humboldt-Universität Zu Berlin, Germany) A Biophysical Observation Model for Neural Field Effects	Abstracts p. 311
Special Session 84	Dynamics and Games Organizer(s): Alberto Pinto, Michel Benaïm	Location EPS10
14:00-14:30	José Martins (Polytechnic Institute of Leiria and LIAAD-INESC TEC, Portugal) A Game Theoretical Analysis of Vaccination Games	Abstracts p. 335
14:30-15:00	Joao P. Almeida (LIAAD - INESC TEC and Polytechnic Institute of Bragança, Portugal) What Is the Length of the Land Frontier Between Portugal and Spain?	Abstracts p. 335
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15:00-15:30	Josep-Maria Mondelo (Universitat Autonoma de Barcelona, Spain) Computing Invariant Manifolds of Vector Fields at Fixed Points Using the Parametrization Method.	Abstracts p. 455
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14:30-15:00	Francesco Gargano (University of Palermo, Italy) Analysis of the Unsteady Separation Phenomenon with Slip Boundary Conditions in Navier-Stokes Equation	Abstracts p. 493
15:00-15:30	Noreen D. Akbar (DBS&H, CEME, National University of Sciences and Technology, Islamabad, Pakistan, Pakistan) Single Wall and Multi Wall Carbon Nanotubes Analysis in Stenosed Arteries	Abstracts p. 491
15:30-16:00	Adewunmi A. Fareo (University of the Witwatersrand, Johannesburg, So Africa) " a Pre-existing Fracture Driven by a Power-law Fluid in Permeable Rock: Lie Symmetry Analysis and Similarity Solutions'	Abstracts p. 492
16:00-16:30	Safia Akram (National University of Sciences and Technology,, Pakistan) Nanofluid Effects on Peristaltic Transport of a Fourth Grade Fluid in the Occurrence of Inclined Magnetic Field	Abstracts p. 491

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14:20-14:40	Nutan Tomar (Indian Institute of Technology Patna, India) Observer Design for Semilinear Descriptor Systems	Abstracts p. 513
14:40-15:00	Hyok Jang (University of Science Pyongyang, Korea) Delayed Feedback Control of Unstable Periodic Orbits with Arbitrary Delay Time	Abstracts p. 512
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14:40-15:00	Natalia Chinchaladze (I. Javakhishvili Tbilisi State University, Rep of Georgia) On a Mathematical Model of a Cusped Double-Layered Prismatic Shell	Abstracts p. 518
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15:40-16:00	Andrey Shishkov (Institute of Appl.Math.and Mech.,Donetsk, Ukraine) Initial Propagation of Support in Thin Film Flow Equation	Abstracts p. 526

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15:00-15:20	Roya Makrooni (Shahid Beheshti University, Iran) Influence of a p -root Singularity on Piecewise-smooth Maps	Abstracts p. 533
15:20-15:40	Sinisa Slijepcevic (University of Zagreb, Croatia) Stability of Synchronization in Dissipatively Driven Frenkel-Kontorova Models	Abstracts p. 533
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18:00-18:30	Ognyan Christov (Sofia University, Bulgaria) On the Integrability of a System Describing the Stationary Solutions in Bose-Fermi Mixtures	Abstracts p. 113
18:30-19:00	Salvador Jiménez (ETSIT, Universidad Politécnica de Madrid, Spain) Chaos in a Fractional Duffing's Equation	Abstracts p. 115

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18:00-18:30	Jozsef Z. Farkas (University of Stirling, Scotland) Positive Steady States of Evolution Equations Motivated by Structured Population Dynamics	Abstracts p. 126
18:30-19:00	Jacek J. Banasiak (University of KwaZulu-Natal, So Africa) Delayed Stability Switches in Singularly Perturbed Dynamical Systems	Abstracts p. 126
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17:30-18:00	Yuning Liu (Regensburg University, Germany) Initial-Boundary Value Problem for the Fully-Coupled Navier-Stokes/Q-Tensor System	Abstracts p. 175
18:00-18:30	Kenji K. Tomoeda (Osaka Institute of Technology, Japan) Support Splitting and Non-splitting Phenomena in the Initial-boundary Value Problem for a Porous Media Equation	Abstracts p. 176
18:30-19:00	Frederic Abergel (Ecole Centrale Paris, France) Sphere-like Free Surfaces in Three Dimensions	Abstracts p. 174
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18:00-18:30	Trevor Clark (Imperial College London, England) Quasisymmetric Rigidity of Real Maps	Abstracts p. 479
18:30-19:00	Artem Dudko (Stony Brook University, IMS, USA) The Julia Set of the Feigenbaum Map Is Poly-time Computable	Abstracts p. 479
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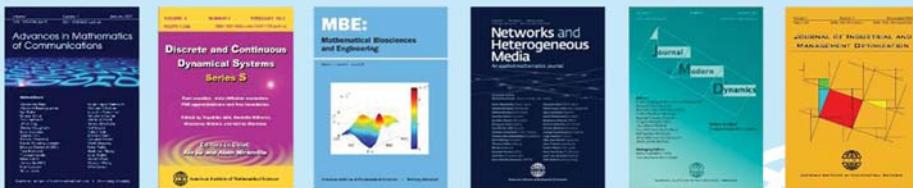
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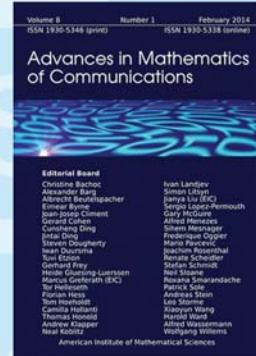


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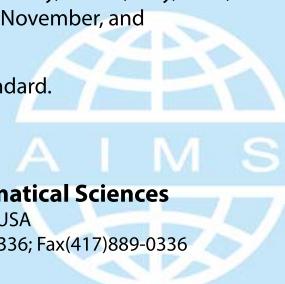
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- Publishes 10 issues in 2014, in January, March, May, June, July, August, September, October, November, and December.
- The journal is of the highest standard.



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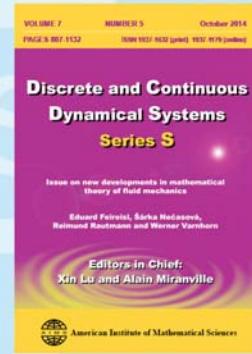
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DCDS-S publishes only Theme Issues: issues with a coherent topic that is proposed by guest editors. Occasionally, proposals of an important current topic, which is also the main theme of a high quality workshop/meeting, can also be considered. However, the same rigorous editorial process is applied.

Benefits of editing an issue of the journal include: opportunity to showcase the latest research in your field; reach an international audience; reputation from publishing in an AIMS journal; high production values; scholarly friendly publishing.

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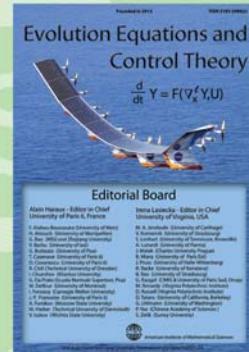
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ISSN 2163-2480 (online)



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Topics include:

- Modeling of physical systems as infinite-dimensional processes
- Direct problems such as existence, regularity and well-posedness
- Stability, long-time behavior and associated dynamical attractors
- Indirect problems such as exact controllability, reachability theory and inverse problems
- Optimization - including shape optimization - optimal control, game theory and calculus of variations
- Well-posedness, stability and control of coupled systems with an interface. Free boundary problems and problems with moving interface(s)
- Applications of the theory to physics, chemistry, engineering, economics, medicine and biology

The journal also welcomes excellent contributions on interesting and challenging ODE systems which arise as simplified models of infinite-dimensional structures.

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Inverse Problems and Imaging

www.aims.org

ISSN 1930-8337 (print)

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Inverse problems and imaging are two rapidly expanding and closely related fields of applied mathematics. Typically the problems arise from medical imaging, nondestructive testing, geophysical prospecting or remote sensing as well as from image analysis or image processing.

IPI is covered in Science Citation Index Expanded, Current Contents/Physical, Chemical & Earth Sciences (CC/PC&ES) ISI Alerting Services, Journal Citation Reports/Science Edition, Math Reviews, MathSciNet, Zentralblatt.

The journal is focused on developing the mathematical theory of inverse problems and solving inverse problems in tens of applications, ranging in size from molecular to galactic level.

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The Journal of Dynamics and Games (JDG) is an applied mathematics journal that publishes high quality peer-review and expository papers at the interface of Dynamical Systems (discrete, continuous, deterministic, or stochastic) and Game Theory.

It is devoted to the development and the diffusion of mathematical ideas and techniques that arise from the analysis and the modelling of systems where agents (whether they be rational players, markets, plants, animals, ecosystems, communication systems, etc) interact dynamically over time.

Papers should either be motivated by challenging mathematical questions occurring in such systems or provide a rigorous mathematical analysis of models where tools from dynamics and games prove to be useful.

Areas covered include dynamic games, stochastic games, differential games, evolutionary games, models of learning and evolution, repeated games, mean field models, areas of cooperative game theory where dynamics play a role, as well as the associated applications in social, economic, life, physical and computer sciences.



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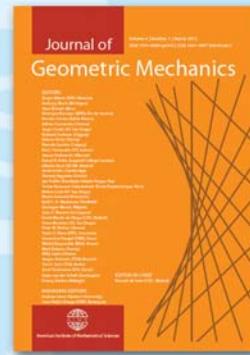
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The Journal of Geometric Mechanics (JGM) focuses on new applications of geometric methods (in a broad sense) to mechanics and control theory, and intends to facilitate interaction between theory and applications. Advances in the following topics will be welcomed by the journal:

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- Symplectic and Poisson geometry and their applications to mechanics
- Geometric and optimal control theory
- Geometric and variational integration
- Geometry of stochastic systems
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- Classical field theory
- Fluid mechanics
- Infinite-dimensional dynamical systems
- Quantum mechanics and quantum information theory; applications in physics, technology, engineering, and the biological sciences

Some quick facts and statistics:

- Intends to facilitate interaction between theory and applications.
- A quarterly rapid and high quality publication
- JGM is a journal of the American Institute of Mathematical Sciences supported by the Consejo Superior de Investigaciones Científicas (Spain)

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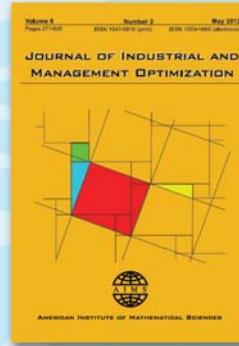
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Journal of Industrial and Management Optimization (JIMO) is an international journal devoted to publishing peer-reviewed, high quality, original papers on the non-trivial interplay between numerical optimization methods and practically significant problems in industry or management so as to achieve superior design, planning and/or operation. Its objective is to promote collaboration between optimization specialists, industrial practitioners and management scientists so that important practical industrial and management problems can be addressed by the use of appropriate, recent advanced optimization techniques. It is particularly hoped that the study of these practical problems will lead to the discovery of new ideas and the development of novel methodologies in optimization.

Some quick facts and statistics:

- JIMO has an Impact Factor of 0.589.
- JIMO is covered in Science Citation Index-Expanded (SCI-E), CompuMath Citation Index, Current Contents/Engineering, Computing, and Technology ISI Alerting Services and SCOPUS.
- JIMO is published by AIMS and sponsored by Curtin University and Zhejiang University



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JMD is dedicated to publishing research articles in active and promising areas in the theory of dynamical systems with particular emphasis on the mutual interaction between dynamics and other major areas of mathematical research.

- The Editorial Board, headed by Professor Anatole Katok, is a group of world-wide leading mathematicians. JMD publishes only peer-reviewed high quality original papers.
- Areas of interest include Number Theory; Symplectic Geometry; Differential Geometry; Rigidity; Quantum Chaos; Teichmüller Theory; Geometric Group Theory; Harmonic Analysis on Manifolds.
- The dynamic editorial procedure guarantees the highest quality of the Journal and its rapid publication. JMD publishes quarterly in January, April, July and October.
- The journal is published by the American Institute of Mathematical Sciences with support from the Center for Dynamics and Geometry at the Pennsylvania State University.



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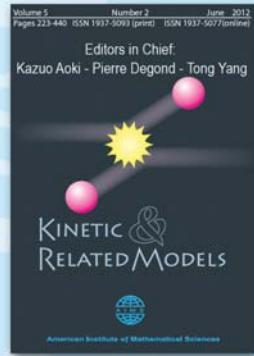
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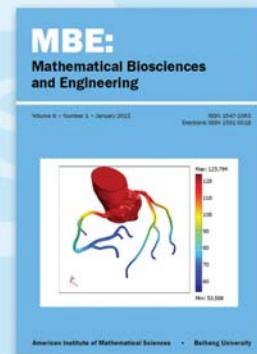
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- Areas covered include general mathematical methods and their applications in biology, medical sciences and engineering with an emphasis on work related to mathematical modeling, nonlinear and stochastic dynamics.
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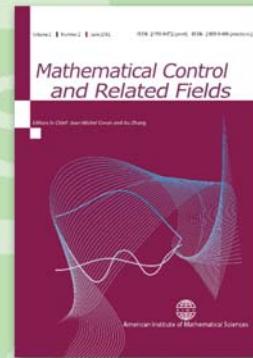
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MCRF aims to publish original research as well as expository papers on mathematical control theory and related fields. The goal is to provide a complete and reliable source of mathematical methods and results in this field. The journal will also accept papers from some related fields such as differential equations, functional analysis, probability theory and stochastic analysis, inverse problems, optimization, numerical computation, mathematical finance, information theory, game theory, system theory, etc., provided that they have some intrinsic connections with control theory.

MCRF is a quarterly publication in March, June, September and December. The journal will be online only. It is edited by a group of international leading experts in mathematical control theory and related fields. A key feature of MCRF is the journal's rapid publication, with a special emphasis on the highest scientific standard. The journal is essential reading for scientists and researchers who wish to keep abreast of the latest developments in the field. MCRF is covered in Science Citation Index-Expanded (SCIE) including the Web of Science ISI Alerting Service and Current Contents/Physical, Chemical & Earth Sciences (CC/PC&ES), and Scopus. MCRF is a publication of the American Institute of Mathematical Sciences. All rights reserved.



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- Efficient implementation, development and analysis of algorithms in numerical algebra, optimization and control;
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Networks and Heterogeneous Media attracts original contributions of highest quality across a wide range of domains as statistical physics, applied mathematics, engineering, socio-economical and bio-medical sciences, emphasizing the common underlying mathematics.

NHM offers a strong combination of the three features: Interdisciplinary Character; Specific Focus; and Deep Mathematical Content. Also, the journal aims at creating a link between the discrete and the continuous communities, which distinguishes it from other journals with strong PDE orientation.

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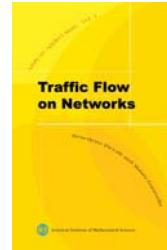


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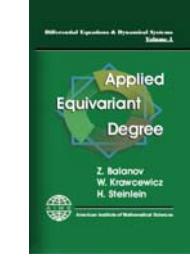
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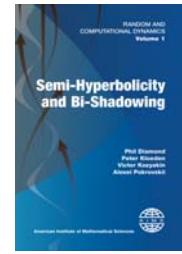
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