13th AIMS International Conference on Dynamical Systems, Differential Equations and Applications

Wednesday May 31 - Sunday June 4, 2023
University of North Carolina Wilmington
Wilmington, NC USA

PROGRAM

Department of Mathematics & Statistics
University of North Carolina Wilmington

American Institute of Mathematical Sciences

The 13th AIMS Conference on Dynamical Systems, Differential Equations And Applications

May 31 – June 4, 2023
Wilmington, NC USA

PROGRAM

Organizers:

The American Institute of Mathematical Sciences (AIMS), USA
The University of North Carolina Wilmington, USA

Committees

Scientific Committee

Shouchuan Hu (chair)

Andrea Bertozzi	Jerry Bona	Williams Bray
Alberto Bressan	Yuan Lou	Alain Miranville
Wei-Ming Ni	Shige Peng	Roger Temam

Organizing Committee

Xin Lu (chair)

Yaw Chang	Wei Feng	Michael Freeze

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Xin Lu	Alain Miranville	Sarka Necasova
Mitsuharu Otani	Ronghua Pan	Gabriela Planas
Gustavo Ponce	Bernhard Ruf	Junping Shi
Jianzhong Su	Masaharu Taniguchi	Dehua Wang
Zhi-Qiang Wang	Gail Wolkowicz	James A. Yorke

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American Institute of Mathematical Sciences

Welcome to the Thirteenth AIMS Conference

It is my pleasure and privilege to extend a warm welcome to all of you to the Thirteenth AIMS Conference in Wilmington. I am excited to bring together once again one of the largest diverse and international groups of mathematicians and scientists to renew friendships and make new friends. Your enthusiasm represents a strong desire by the global community to return to meetings in the old-fashioned way.

This conference provides an excellent opportunity for all of us to interact with peers, exchange knowledge, and gain insights into the latest developments in dynamical systems, differential equations, and real-world applications. In fact, AIMS stives to foster and enhance these collaborations among a broad spectrum of mathematicians and scientists. With a plethora of topics as demonstrated by the numerous well-organized special sessions by research leaders in their respective fields and inspiring lectures, opportunities will be abundant during the meeting.

Due to the pandemic, the Thirteenth AIMS Conference was rescheduled from Atlanta (2020) and then again from Rome (2022). After 21 years of hosting the Fourth AIMS Conference in 2002, UNCW is our proud host again, for which our community is profoundly grateful. I would like to express my gratitude to the Department of Mathematics at UNCW and in particular, members of the Organizing Committee, Professors Yaw Chang, Wei Feng and Michael Freeze, chaired by Dr. Xin Lu, who played a central role in the organization of the meeting. Their tireless efforts and extremely hard work have made the conference possible.

Special thanks go to the plenary speakers, who are world-renowned scientists and award-winners. Collectively, the plenary speakers represent the highest impacts of the AIMS Conference in the fields.

I would also like to acknowledge the financial support received from the US National Science Foundation. The NSF support was applied and secured by Dr. William Bray of Missouri State University, for which I am grateful.

Knowing that you, the participants, are the whole purpose of all AIMS activities, I would like to express my appreciation for your continuing participation and support.

On behalf of the entire team at AIMS, I wish you a productive and enjoyable conference experience.

Sincerely,

Shouchuan Hu
Director of AIMS

UNIVERSITY *of* NORTH CAROLINA WILMINGTON

Dear AIMS Conference Guests:

The University of North Carolina Wilmington welcomes the opportunity to bring an impressive slate of international experts in mathematical sciences, dynamical systems, differential equations and applications to our campus. With such a diverse and accomplished group in attendance, I am confident that this conference will lead to valuable insights and collaborations. I know you will enjoy connecting with each other. I also hope you find time to explore historic Wilmington and the gorgeous coastal landscape that UNCW calls home.

By hosting the AIMS Conference, UNCW looks to inspire advances in the mathematical sciences, dynamical systems, differential equations and their applications. Experts in these areas supply powerful tools for understanding and analyzing complex global systems in a wide range of disciplines, from physics and engineering to biology, economics and more.

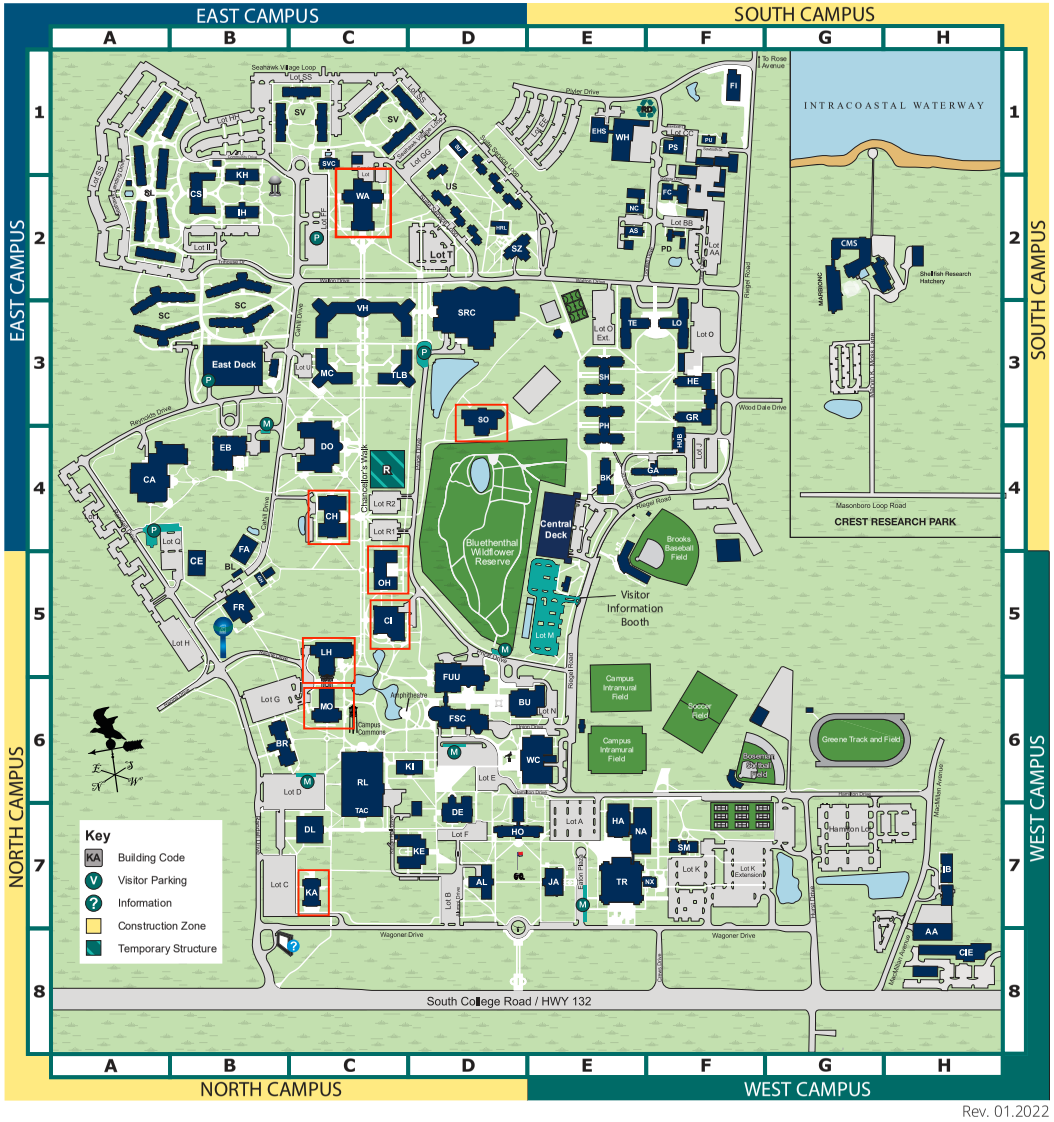
I would like to express my gratitude to the event organizers and the sponsors who joined UNCW in supporting the AIMS conference. Without your efforts, this conference would not have been possible. I also want to thank our distinguished presenters for sharing their insights and perspectives with us. To all of our guests – enjoy the conference!

With best regards,

Aswani K. Volety
Chancellor

UNIVERSITY of NORTH CAROLINA WILMINGTON
601 SOUTH COLLEGE ROAD, WILMINGTON, NC 28403

Building	Code	Location
Alderman Hall	AL	D7
Almkuist-Nixon	SM	F7
Administrative Annex	AA	H8
Bear Hall	BR	B6
Belk Hall	BK	E4
Burney Center	BU	E6
Cameron Hall	CH	C4
Central Parking Deck	CD	E4
Coastal Engineering Building	CE	B5
Congdon Hall	CI	C5
Cultural Arts Building	CA	A4
DeLoach Hall	DL	C7
DePaolo Hall	DE	D7
Dobo Hall	DO	C4
East Deck	ED	B3
Education Building	EB	B4
Fisher Student Center (Bookstore)	FSC	D6
Fisher University Union	FUU	D5-6
Friday Annex	FA	B4-5
Friday Hall	FR	B5
Galloway Hall	GA	F4
Graham Hall	GR	F3
Hewlett Hall	HE	F3
Hoggard Hall	HO	D7
Housing and Residence Life	HRL	D2
Innovation House	IH	B2
ɜac Bear	IB	H7
James Hall (Admissions)	IA	E7
Kenan Auditorium	KA	C7
ıan Hall	KE	C-D7
Keystone House	KH	B1-2
King Hall	KI	C-D6
Leutze Hall	LH	C5
Loggerhead Hall	LO	F3
McNeill Hall	MC	C3
Morton Hall	MO	C6
Morton Modulars	MM	B-C6
Osprey(Sartarelli)Hall	OH	C5
Pelican Hall	PH	E3-4
Printing Services	PS	F1
Randall Library	RL	C6
Recycling Depot	RD	E-F1
Sandpiper Hall	SH	E3
Schwartz Hall	SZ	D2
Seahawk Crossing	SC	B2-3
Seahawk Landing	SL	A1-2
Seahawk Village	SB	C-D1
Seahawk Village Clubhouse	SVC	C1
Student Recreation Center	SRC	D2-3
Teaching Laboratory Building	TLB	C3
Terrapin Hall**The**	TE	E3
Shore Dining Hall	SO	D3-4
Trask Coliseum	TR	E7
University Film Center	FI	F1
University Police Department	PD	F2
University Suites	US	D2
Veterans Hall	VH	C3
Visitor Information & Parking	Lot M	E5
Wagoner Hall (Dining Hall)	WA	C2
Warehouse	WH	E1
Warwick Center (Financial Aid)	WC	E6



Rev. 01.2022

Plenary Speakers AIMS 2023

 Tristan Buckmaster University of Maryland USA	 Maria Colombo École polytechnique fédérale de Lausanne Switzerland	 Ingrid Daubechies Duke University USA
 Arnaud Debussche Ecole Normale Supérieure de Rennes France	 Rafael De La Llave Georgia Inst. of Technology USA	 Manuel del Pino University of Bath UK
 Thomas Yizhao Hou California Institute of Technology USA	 Benedetto Piccoli Rutgers University – Camden USA	 Carola-Bibiane Schönlieb University of Cambridge UK
 Gunther Uhlmann University of Washington USA	 Enrico Valdinoci University of Western Australia	

CONFERENCE SCHEDULE AT A GLANCE

May 31, Wednesday	June 1, Thursday	June 2, Friday	June 3, Saturday	June 4, Sunday
09:00 -- 09:20 Opening Ceremony	08:00 – 09:30 **PS03**	08:00 – 10:00 **PS06**	08:00 – 09:30 **PS09**	8:00 – 10:00 **PS12**
	09:30 – 10:00 Break	10:00 – 10:30 Break	09:30 – 10:00 Break	10:00 – 10:30 Break
09:20 – 10:10 **Manuel del Pino** 10:10 – 11:00 **Thomas Yizhao Hou** 11:00 – 11:50 **Benedetto Piccoli**	10:00 – 10:50 **Enrico Valdinoci** 10:50 – 11:40 **Rafael de la Llave** 11:40 – 12:30 **Carola-Bibiane Schönlieb**	10:30 – 11:20 **Maria Colombo** 11:20 – 12:10 **Gunther Ullman**	10:00 – 10:50 **Ingrid Daubechies** 10:50 – 11:40 **Tristan Buckmaster** 11:40 – 12:30 **Arnaud Debussche**	10:30 – 12:30 **PS13**
11:50 – 13:30 Lunch	12:30 – 14:00 Lunch	12:10 – 14:00 Lunch	12:30 – 14:00 Lunch	12:30 – 14:00 Lunch
13:30 – 15:30 **PS01**	14:00 – 16:00 **PS04**	14:00 – 16:00 **PS07**	14:00 – 16:00 **PS10**	14:00 – 16:00 **PS14**
15:30 – 16:00 Break	16:00 – 16:30 Break	16:00 – 16:30 Break / Poster Session	16:00 – 16:30 Break	
16:00 – 18:30 **PS02**	16:30 – 19:00 **PS05**	16:30 – 19:00 **PS08**	16:30 – 19:00 **PS11**	
		19:30 – 21:30 **General Reception**		

Note: PS – Parallel Session

MASTER SCHEDULE

	31-May		1-Jun			2-Jun			3-Jun			4-Jun		
Location	PS01	PS02	PS03	PS04	PS05	PS06	PS07	PS08	PS09	PS10	PS11	PS12	PS13	PS14
LH104	SS63	SS63	SS74	SS74	SS74	SS50	SS50	SS50	SS50	SS84	SS84			
LH107			SS37	SS37	SS37	SS30	SS30	SS30	SS87	SS87	SS87			
LH108	SS02	SS02	SS02	CS02	SS52	CS02	SS52	SS52	SS53	SS53	SS53	SS53		
LH110	SS27	SS27		SS27	SS27	SS27	SS27	SS59	SS59	SS59				
LH111	SS14	SS14	SS05	SS05	SS05	SS80	SS80	SS80	SS80	SS80	SS80	SS72	SS72	
LH131	SS40	SS39	SS03	SS03	SS03	SS17	SS17	SS17	SS32	SS32	SS32			
LH132	SS07	SS07	SS07	SS07	SS07	SS07	SS62	SS62	SS09	SS09	SS09	SS09	SS09	SS09
LH136	SS70	SS70	SS71	SS71	SS71	SS51	SS51	SS51	SS51	SS55	SS55			
LH139		SS08		SS08	SS08	SS24	SS24	SS24		CS03	CS02			
LH141	SS10	SS10		SS10	SS10	SS77	SS77	SS77			SS48	SS48	SS48	
LH143	SS18	SS18	SS18	SS18	SS18	SS01	SS01	SS01	SS06	SS06	SS06	SS06	SS06	SS06
MO201	SS20	SS20		SS20	SS66	SS66	SS66	SS66						
MO205	STU	STU	CS01	CS01	SS36	SS75	SS75	SS75	CS01	SS83	SS83			
MO206	SS57	SS57	SS90	SS90	SS42	SS43	SS43	SS87	SS33	SS33	SS33	SS33		
MO207	SS47	SS47	SS61	SS61	SS61		SS16	SS16		SS16				
MO208					CS03	SS81	SS81	SS81						
MO209	SS54	SS54	SS73	SS73	SS73	SS15	SS15	SS15		SS15	SS15			
ST1009	SS21	SS21	SS21	SS21	SS21	SS34	SS34	SS34	SS34	SS34				
ST2002		SS65	SS65	SS65	SS65		SS85		SS04	SS04				
ST2005	SS56		SS56	SS56	SS56	SS29	SS29	SS29	SS79	SS79	SS79	SS79	SS79	
CI1006	SS68	SS68	SS41	SS41	SS41		RoundTable							
CI1007	SS22	SS22	SS19	SS19	SS19	SS19	SS25	SS25	SS23	SS23	SS23			
CI1012	SS28	SS28		SS28	SS28	SS13	SS13	SS13	SS13			SS13	SS13	
CI1013	SS45	SS45	SS45	SS45	SS45	SS45	SS89	SS89						

Meeting Rooms for Special Sessions

SS 01	Analysis of PDEs and Free Boundary Problems	LH143
SS 02	Hyperbolic Partial Differential Equations and Applications	LH108
SS 03	Dynamics of ODES and Nonlinear Parabolic Systems	LH131
SS 04	Qualitative and Quantitative Features of Delay Differential Equations and Their Applications	ST2002
SS 05	Recent results in Nonlinear PDEs	LH111
SS 06	Fractal Geometry Dynamical Systems and Their Applications	LH143
SS 07	Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations and Related Fields	LH132
SS 08	Propagation Phenomena in Reaction-Diffusion Systems	LH139
SS 09	Stochastic Analysis and Large Scale Interacting Systems	LH132
SS 10	Sharp Inequalities and Nonlinear Differential Equations	LH141
SS 13	Nonlinear Differential and Difference Equations with Applications to Population Dynamics	CI1012
SS 14	Global or/and Blowup Solutions for Nonlinear Evolution Equations and Their Applications	LH111
SS 15	Recent Advances on Population Models in Ecology and Epidemiology	MO209
SS 16	Celestial Mechanics and Hamiltonian Systems	MO207
SS 17	Nonlinear Models in Kinetic Theory Collective Behavior and Fluid Dynamics	LH131
SS 18	Advanced Methodologies in Mathematical Materials Science and Biology	LH143
SS 19	Stochastic Partial Differential Equations	CI1007
SS 20	Control and Optimization: New Developments and Applications	MO201
SS 21	Evolution Equations and Integrable Systems	ST1009
SS 22	Mathematical Modeling of Pandemics	CI1007
SS 23	Topological and Variational Methods for Differential Equations	CI1007
SS 24	Geometric Methods in Spectral Theory of Traveling Waves and Patterns	LH139
SS 25	Mathematical Modeling and Quantitative System Pharmacology	CI1007
SS 27	Recent Trends in Navier-Stokes Equations Euler Equations and Related Problems	LH110
SS 28	Qualitative Theory of Nonlinear Elliptic and Parabolic Equations	CI1012
SS 29	Reactions Diffusion Equations with Applications to Spatial Ecology and Infectious Disease	ST2005
SS 30	Optimal Control of Finite and Infinite Dimensional Dynamic Systems and their Applications	LH107
SS 32	Recent Developments in Mathematical Theories of Complex Fluids	LH131
SS 33	Modeling and Data Analysis for Complex Systems and Dynamics	MO206
SS 34	Variational Topological and Set-Valued Methods for Nonlinear Differential Problems	ST1009
SS 36	Stochastic Systems SDEs/SPDEs Games Quantum-Computing and Storages	MO205
SS 37	Nonlinear Elliptic Problems in Geometry and Physics	LH107
SS 39	Recent Results in Local and Nonlocal Elliptic and Parabolic Equations	LH131

SS 40	Asymptotic Behaviour in Nonlinear Elliptic and Parabolic Problems	LH131
SS 41	Asymptotic Analysis and Bifurcations of Solutions for Nonlinear Models	CI1006
SS 42	Regularity Results for Solutions of Nonlinear Systems and Applications	MO206
SS 43	Control and Long Time Dynamics of Evolutionary Partial Differential Equations	MO206
SS 45	Lie Symmetries Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations	CI1013
SS 47	Singular Limits in Elliptic and Parabolic PDEs	MO207
SS 48	Mathematical Modeling and Optimization Techniques	LH141
SS 50	Nonlinear Elliptic PDEs: Analysis and Computations	LH104
SS 51	Phase Field Models and Real World Applications	LH136
SS 52	Harmonic Analysis and Partial Differential Equations	LH108
SS 53	Qualitative and Quantitative Techniques for Differential Equations arising in Applied and Natural Sciences	LH108
SS 54	Applied Mathematics for Modern Challenges	MO209
SS 55	Sparse Signal Learning and its Applications in Data Science	LH136
SS 56	Variational Methods for Nonlinear PDEs	ST2005
SS 57	Mathematical Models for Traffic Monitoring and Control	MO206
SS 59	Interplays between Statistical Learning and Optimization	LH110
SS 61	Qualitative Properties and Numerical Approximations of PDE Systems which Govern Fluid Flows and Flow-Structure Interactions	MO207
SS 62	Group Invariant Machine Learning	LH132
SS 63	Analysis and Optimization of Biological and Medical Systems	LH104
SS 65	Nonlinear Evolution Equations and Related Topics	ST2002
SS 66	Dynamics of Biological Materials Across Scales	MO201
SS 68	(In)Stability and the Long Time Behaviour of Fluid Flows	CI1006
SS 70	Fractional Calculus: Theory Methods and Applications	LH136
SS 71	At the Edge of Ellipticity	LH136
SS 72	Optimal Transport and Mean Field Games with Applications and Computations	LH111
SS 73	Data-driven Methods in Dynamical Systems	MO209
SS 74	Local and Nonlocal Fully Nonlinear Partial Differential Equations of Elliptic and Parabolic Type	LH104
SS 75	Recent Developments in Nonlinear PDEs Non-uniformly Elliptic Problems and Related Topics	MO205
SS 77	Analysis and Applications of Nonlinear Elliptic and Parabolic Equations	LH141
SS 79	Recent Advancements in the Numerical Analysis of Nonlinear Partial Differential Equations	ST2005

SS 80	Inverse Problems and Imaging	LH111
SS 81	Stochastic Modeling in Biological Physical and Social Sciences: Theory and Applications	MO208
SS 83	Scientific Machine Learning for Dynamics Related Inverse Problems	MO205
SS 84	Recent Developments in Understanding of Nonlinear Phenomena in Fluid Dynamics Biology Statistical Mechanics and Optics	LH104
SS 85	Interface Problems: Modelling Analysis and Simulations	ST2002
SS 87	Integrable Systems Turbulence and Water Waves	MO 206, LH 107
SS 89	Recent Trends in Mathematical Fluid Mechanics	CI1013
SS 90	Recent Advances in Wavelet Analysis PDEs and Dynamical Systems	MO206

Building Codes

CH	Cameron Hall
CI / CG	Congdon Hall
KA	Kenan Auditorium
LH	Leutze Hall
MO	Morton Hall
OH / ST	Osprey Hall (Sartarelli Hall)
SO	Shore Dining Hall
WA	Wagoner Dining Hall

Other Abbreviations

CS	Contributed Session
PS	Parallel Session
SS	Special Session
STU	Student Paper
TBA	To Be Announced

Meeting Rooms for Other Sessions

Contributed Sessions	
CS 01 ODEs and Applications	MO 205
CS 02 PDEs and Application	
PS 04 (June 1) and PS 06 (June 2)	LH 108
PS 11 (June 3)	LH 139
CS 03 Modeling, Math Biology and Math Finance	
PS 05 (June1)	MO 208
PS 10 (June 3)	LH 139
Poster Session	TBA
Student Paper Competition Session	MO 205
Diamond Open Access Journal Roundtable	CI1006
Invited Plenary Lectures	
May 31 – June 2	Kenan Auditorium
June 3	Cameron Auditorium

Diamond Open Access and Journal Transformation

Friday, June 2 CI1006

1:30-1:45	**Björn Brembs** (Universität Regensburg) Replacing academic journals
1:45-2:00	**Francese Perera** (Universitat Autònoma de Barcelona) Publicaciones Matemàtiques: a model of open access without APC
2:00-2:20	**Raghavendra Gadagkar** (Indian Institute of Science) Let's Banish the "Pay-to-Publish" Business Model
2:20-2:30	**Adam Jakubowski** (Bernoulli Society, Nicolaus Copernicus University) Diamond Open Access journals run by the IMS and the Bernoulli Society
2:30-2:35	**Sylvia Serfaty** (New York University) Starting non-profit journals: the example of Probability and Mathematical Physics
2:35-3:05	**Q & A**
3:05-3:30	**Theodore Slaman** (University of California, Berkeley) MSP – a small academic publisher and its recent foray into open access
3:30-3:45	**Claude Sabbah** (CNRS and École Polytechnique) Creating a journal in the Diamond Open Access model: Experiences and problems for the long term
3:45-4:05	**Rafael de la Llave** (Georgia Institute of Technology) Remarks on the economics of scientific publishing now and possible futures
4:05-4:35	**Q & A**
4:35-4:50	**Evelyne Miot** (CNRS, Université Grenoble and Mathdoc) The centre Mersenne for Diamond Open Access: a summary of five years of existence
4:50-5:05	**Nageswari Shanmugalingam** (University of Cincinnati) Open access and editorial system
5:05-5:35	**Q & A**

Organizers and Coordinators

Colleen Lyon (University of Texas) and **Enrico Valdinoci** (University of Western Australia)

Invited Plenary Lectures

Wednesday, May 31 — Kenan Auditorium

09:20-10:10	**Manuel del Pino** (University of Bath, UK) Solutions with Highly Concentrated Vorticity in Incompressible Euler Flows
10:10-11:00	**Thomas Yizhao Hou** (California Institute of Technology, USA) Stable and Nearly Self-Similar Blowup on the 3D Euler Incompressible Equations with Smooth Data
11:00-11:50	**Benedetto Piccoli** (Rutgers University - Camden USA) New Approaches for the Modeling and Control of Multi-Agent Systems

Chairs: **Eduard Feireisl** and **Alain Miranville**

Thursday, June 1 — Kenan Auditorium

10:00-10:50	**Enrico Valdinoci** (University of Western Australia, Australia) Long-Range Phase Coexistence Models and (Non)Local Minimal Surfaces
10:50-11:40	**Rafael De La Llave** (Georgia Institute of Technology, USA) How to Get Lots of Energy with Small Effort
11:40-12:30	**Carola-Bibiane Schönlieb** (University of Cambridge, UK) Learned Regularisation for Solving Inverse Problems

Chairs: **James Yorke** and **Junping Shi**

Friday, June 2 — Kenan Auditorium

10:30-11:20	**Maria Colombo** (École polytechnique Fédérale de Lausanne, Switzerland) Instability and Non-Uniqueness for the Euler and Navier-Stokes Equations
11:20-12:10	**Gunther Ullman** (University of Washington, USA) Inverse Problem: Seeing the Unseen

Chairs: **Mitsuharu Otani** and **Danielle Hilhorst**

Saturday, June 3 — Cameron Hall

10:00-10:50	**Ingrid Daubechies** (Duke University, USA) Computational Methods to Study Morphological Shapes
10:50-11:40	**Tristan Buckmaster** (University of Maryland, USA) Singularities in Fluids
11:40-12:30	**Arnaud Debussche** (École Normale Supérieure de Rennes, France) Multiscale Stochastic Fluid Models

Chairs: **Thomas Hou**, **Maria Colombo**, and **Jianzhong Su**

Student Paper Competition

Wednesday, May 31 MO 205

13:30-14:00	**Yutaro Chiyo** (Tokyo University of Science, Japan) Global Existence and Boundedness in a Fully Parabolic Chemotaxis System for Tumor Angiogenesis
14:00-14:30	**Daniel Restrepo** (The University of Texas at Austin, USA) Grad-Mercier Equation in Plasma Physics: Uniqueness, Regularity, and Free Boundary Analysis
14:30-15:00	**Amelie Loher** (University of Cambridge, UK) Quantitative Schauder Estimates for Kinetic Equations
15:00-15:30	**Daiki Mizuno** (Chiba University, Japan) Pseudo-Parabolic System Governed by KWC-Energy of Grain Boundary Motion
16:00-16:30	**Alessandro Columbu** (Università di Cagliari, Italy) Properties of Given Unbounded Solutions to a Class of Chemotaxis Models
16:30-17:00	**Thialita Nascimento** (University of Central Florida, USA) New Regularity Estimates for Fully Nonlinear Elliptic Equations
17:00-17:30	**Yuya Tanaka** (Tokyo University of Science, Japan) Does Chemotaxis Produce Blow-up in a Two-Species Chemotaxis-Competition Model?
17:30-18:00	**Tian-Yi Zhou** (Georgia Institute of Technology, USA) Learning Ability of Interpolating Deep Convolutional Neural Networks

SS 2	**Hyperbolic Partial Differential Equations and Applications** Organizer(s): Yachun Li, Yue-Jun Peng, Ya-Guang Wang, Tong Yang	**LH108**
13:30-14:00	**Yachun Li (Shanghai Jiao Tong University, Peoples Rep of China)** Non-Uniqueness of Weak Solutions to the Hypo-Viscous Compressible Navier-Stokes Equations	
14:00-14:30	**Ronghua Pan (Georgia Institute of Technology, USA)** Nonlinear Instability in Compressible Fluids Under Gravity	
14:30-15:00	**Xianpeng Hu (City University of Hong Kong, Peoples Rep of China)** Concentration Phenomenon of Weak Solutions for Compressible Isentropic Navier-Stokes Equations in Dimensions Three	
15:00-15:30	**Cheng Yu (University of Florida, USA)** Global Ill-Posedness for a Dense Set of Initial Data to the Isentropic System of Gas Dynamics	

SS 7	**Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations and Related Fields** Organizer(s): Danielle Hilhorst, Yoshihisa Morita, Junping Shi	**LH132**
13:30-14:00	**Yihong Du (University of New England, Australia)** Spreading Profile of Two Invading Competitors	
14:00-14:30	**Ken-Ichi Nakamura (Kanazawa University, Japan)** The Sign of the Speed of Bistable Traveling Waves for the Lotka-Volterra Competition-Diffusion System	
14:30-15:00	**King-Yeung Lam (The Ohio State University, USA)** Front Propagation in the Shadow Wave-Pinning Model	
15:00-15:30	**Hiroshi Matsuzawa (Kanagawa University, Japan)** Nonlinear Stefan Problem with a Certain Class of Multi-Stable Nonlinearity	

SS 10	**Sharp Inequalities and Nonlinear Differential Equations** Organizer(s): Bernhard Ruf, Futoshi Takahashi, Federica Sani	**LH141**
13:30-14:00	**Michinori Ishiwata (Osaka University, Japan)** Pseudo-Traveling Wave Decomposition of Time-Global Solutions for Semilinear Parabolic Equations and Its Applications	
14:00-14:30	**Olimpio H Miyagaki (UFSCAR-Universidade Federal de Sao Carlos, Brazil)** The Choquard Logarithmic Equation Involving a Nonlinearity with Exponential Growth	
14:30-15:00	**Liuyu Qin (Hunan University of Finance and Economics, Peoples Rep of China)** Adams Inequalities with Exact Growth Condition for Riesz-Like Potentials on $\mathbb{R}^N$	
15:00-15:30	**Carlo Morpurgo (University of Missouri, USA)** Adams Inequalities with Exact Growth Conditions on Metric Measure Spaces, and Applications	

SS 14	**Global or/and Blowup Solutions for Nonlinear Evolution Equations and Their Applications** Organizer(s): Shaohua Chen, Ming Mei	**LH111**
13:30-14:00	**Chunhua Ou (Memorial University, Canada)** Impact of Nonlocal Dispersal and Time-Periodicity on the Global Exponential Stability of Bistable Traveling Waves	
14:00-14:30	**Jorge A Esquivel-Avila (Universidad Autónoma Metropolitana, Mexico)** Blow-Up in Damped Abstract Nonlinear Equations	
14:30-15:00	**Jung-Tae Park (Korea University of Technology and Education, Korea)** Gradient Integrability for Parabolic P-Laplace Type Equations with Measure Data	
15:00-15:30	**William C Troy (University of Pittsburgh, USA)** Finite-Energy Self-Similar Solutions Describing Singularity Formation in the Nonlinear Schrödinger Equation in Dimension $N = 3$	

SS 18	**Advanced Methodologies in Mathematical Materials Science and Biology** Organizer(s): Toyohiko Aiki, Adrian Muntean	**LH143**
13:30-14:00	**Ida De Bonis (Sapienza University of Rome, Italy)** Homogenization Asymptotics of a Reaction-Diffusion-Convection Problem with Exploding Non-Linear Drift - a Two-Scale Convergence	
14:00-14:30	**Kota Kumazaki (Kyoto University of Education, Japan)** Multiscale Model Describing the Swelling Phenomenon in Porous Materials	
14:30-15:00	**Michael Eden (Karlstad University, Sweden)** Effective Heat Transfer Conditions Between Porous Media and Fluid Layers	
15:00-15:30	**Akiko Morimura (Japan Women's University, Japan)** Existence and Uniqueness of Solutions to the Moisture Transport Model for Porous Materials	

SS 20	**Control and Optimization: New Developments and Applications** Organizer(s): Monica Motta, Alexander J. Zaslavski, Ellina Grigorieva	**MO201**
13:30-14:00	**Ellina Grigorieva (Texas Woman's University, USA)** Optimization of the Alternation of Drug Intake and Rest Intervals in Adaptive Melanoma Treatment Protocols	
14:00-14:30	**Baasansuren Jadamba (Rochester Institute of Technology, USA)** Application of a Stochastic Approximation Method for the Elastography Inverse Problem	
14:30-15:00	**Akhtar A Khan (Rochester Institute of Technology, USA)** A New Regularized Stochastic Approximation Framework for Stochastic Inverse Problems	
15:00-15:30	**Yirmeyahu Kaminski (Holon Institute of Technology, Israel)** Intrinsic and Apparent Singularities in Differentially Flat Systems	

SS 21	**Evolution Equations and Integrable Systems** Organizer(s): Alex Himonas, Curtis Holliman, Fangchi Yan	**ST1009**
13:30-14:00	**Gustavo Ponce (University of California-Santa Barbara, USA)** Unique Continuation for the Benjamin-Ono Eq. and The Camassa-Holm Equation	
14:00-14:30	**Casey P Rodriguez (University of North Carolina at Chapel Hill, USA)** On Elastic Solids with Strain-Gradient Elastic Boundary Surfaces	
14:30-15:00	**Maria Ntekoume (Rice University, USA)** Critical Well-Posedness for the Derivative Nonlinear Schrödinger Equation on the Line	
15:00-15:30	**Fredrik Hildrum (NTNU – Norwegian University of Science and Technology, Norway)** Periodic Holder Waves in a Class of Negative-Order Dispersive Equations	

SS 22	**Mathematical Modeling of Pandemics** Organizer(s): Benedetto Piccoli, Ryan Weightman	**CI1007**
13:30-14:00	**Monique Chyba (University of Hawaii, USA)** Using Hybrid Systems to Develop Epidemiological Models on a Global Scale	
14:00-14:30	**Kaitlyn Muller (Villanova University, USA)** Mathematical Modeling of the Spread of COVID-19 on a University Campus	
14:30-15:00	**Stephen Schecter (North Carolina State University, USA)** Spontaneous Human Behavioral Change in Epidemiological Models	

SS 27	**Recent Trends in Navier-Stokes Equations, Euler Equations, and Related Problems** Organizer(s): Sarka Necasova, Reimund Rautmann, Werner Varnhorn	**LH110**
13:30-14:00	**Bin Cheng (University of Surrey, England)** Near Resonance Approximation of Rotating Navier-Stokes Equations	
14:00-14:30	**Mimi Dai (University of Illinois at Chicago, USA)** Singularity Formation for Fluid Equations and Models	
14:30-15:00	**Maria Specovius-Neugebauer (University of Kassel, Germany)** Time-Periodic Stokes- and Navier-Stokes Problems in a Layer	
15:00-15:30	**Werner Varnhorn (Kassel University, Germany)** On the Helmholtz Decomposition in General Domains	

SS 28	**Qualitative Theory of Nonlinear Elliptic and Parabolic Equations** Organizer(s): Raul Manasevich, Satoshi Tanaka	**CI1012**
13:30-14:00	**Marta Garcia-Huidobro (Pontificia Universidad Catolica de Chile, Chile)** Elliptic Hamilton-Jacobi Systems Through Lane-Emden Hardy-Hénon Equations	
14:00-14:30	**Nobuhito Miyake (Graduate School of Mathematical Sciences, the University of Tokyo, Japan)** Effect of Decay Rates of Initial Data on the Sign of Solutions to Cauchy Problems of Some Higher Order Parabolic Equations	
14:30-15:00	**Lyoubomira Softova (University of Salerno, Italy)** Boundedness of the Solutions of a Kind of Nonlinear Parabolic Systems	
15:00-15:30	**Kentaro Nagahara (Tokyo Institute of Technology, Japan)** Maximizing the Total Population and The Bang-Bang Property in Reaction-Diffusion Logistic Models	

SS 40	**Asymptotic Behaviour in Nonlinear Elliptic and Parabolic Problems** Organizer(s): Yoshitsugu Kabeya	**LH131**
13:30-14:00	**Yoshitsugu Kabeya (Osaka Metropolitan University, Japan)** Singular Solutions to a Nonlinear Elliptic Equation on a Unit Sphere	
14:00-14:30	**Michiaki Onodera (Tokyo Institute of Technology, Japan)** A Quantitative Stability Estimate for a Fourth Order Overdetermined Problem	
14:30-15:00	**Hirokazu Ninomiya (Meiji University, Japan)** Example of Turing's Instability by Equal Diffusion	

SS 45	**Lie Symmetries, Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations** Organizer(s): Chaudry Masood Khalique, Wen-Xiu Ma, Maria Luz Gandarias	**CI1013**
13:30-14:00	**Stephen Anco (Brock University, Canada)** New Conserved Integrals, Invariants, Symmetries and Casimirs of Radial Compressi Ble Fluid Flow in $N > 1$ Dimensions	
14:00-14:30	**Nicoleta V Bila (Fayetteville State University, USA)** Lie Symmetries for Coupled Differential Equations	
14:30-15:00	**Wen-Xiu Ma (University of South Florida, USA)** Binary Darboux Transformation for Nonlocal Nonlinear Schrödinger Equations	
15:00-15:30	**Noreen S Akbar (National University of Sciences and Technology, Islamabad, Pakistan, Pakistan)** Heat Transfer Study of Electro Kinetically Modulated Micropolar Nanofluid Flow for Cu and Ag Nanoparticles in a Propagating Microchannel	

SS 47	**Singular Limits in Elliptic and Parabolic PDEs** Organizer(s): Silvia Cingolani, Manuel Del Pino, Serena Dipierro	**MO207**
13:30-14:00	**Isabeau Birindelli (Sapienza Università di Roma, Italy)** Degenerate Elliptic Equations with Nonlinear Hamiltonians: Existence Results	
14:00-14:30	**Nikola Kamburov (Pontificia Universidad Catolica de Chile, Chile)** On Nondegeneracy and Stability in the One-Phase Singular Perturbation Problem	
14:30-15:00	**Yifu Zhou (Johns Hopkins University, USA)** Singularity Formation for the Landau-Lifshitz-Gilbert Equation in Dimension Two	
15:00-15:30	**Michele Dolce (EPFL, Switzerland)** Taylor Dispersion in the Non-Cutoff Boltzmann Equation on the Whole Space	

SS 54	**Applied Mathematics for Modern Challenges** Organizer(s): Jennifer Mueller, Samuli Siltanen	**MO209**
13:30-14:00	**Jennifer Mueller (Colorado State University, USA)** Fast Nonlinear Imaging of Pediatric Patients with Electrical Impedance Tomography	
14:00-14:30	**Samuel Isaacson (Boston University, USA)** Particle Stochastic Reaction-Drift-Diffusion Methods for Studying Cellular Processes	
14:30-15:00	**Alan Lindsay (University of Notre Dame, USA)** Inverse Problems Associated with Determining Gradients and Direction of Signaling Molecules.	
15:00-15:30	**Eric Chung (Chinese University of Hong Kong, Hong Kong)** A Multiscale Preconditioner for Darcy Flow	

SS 56	**Variational Methods for Nonlinear PDEs** Organizer(s): Kanishka Perera, Pasquale Candito, Roberto Livrea	**ST2005**
14:00-14:30	**Silvia Frassu (University of Cagliari, Italy)** On a Class of Indirect and Direct Chemotaxis-Consumption Models in High Dimensions	
14:30-15:00	**Alessandro Columbu (Università di Cagliari, Italy)** On Some Properties of Unbounded Solutions to a Class of Chemotaxis Models	
15:00-15:30	**Shibo Liu (Florida Institute of Technology, USA)** Stationary Schrödinger Type Equations with Nonlinearities Sublinear at Zero	

SS 57	**Mathematical Models for Traffic Monitoring and Control** Organizer(s): Sean McQuade, Maria Teresa Chiri, Maria Laura Delle Monache	**MO206**
13:30-14:00	**Xiaoqian Gong (Arizona State University, USA)** On the Mathematical Properties of Some Multi-Scale Traffic Models	
14:00-14:30	**Sean T McQuade (Rutgers-Camden, USA)** Using a Bi-Level Optimization Algorithm to Calibrate Traffic Simulations for the CIRCLES Experiment	

SS 63	**Analysis and Optimization of Biological and Medical Systems** Organizer(s): Brittni Hall, Xiaoying Han, Hans Werner Van Wyk	**LH104**
13:30-14:00	**Dawit Denu (Georgia Southern University, USA)** Comparative Analysis of Different Vector-Host Epidemic Models with Direct Transmission.	
14:00-14:30	**Susmita Sadhu (Georgia College and State University, USA)** Novel Mechanisms for Detecting Early Warning Signals of Population Outbreaks and Extinction in a Two-Timescale Predator-Prey Model	
14:30-15:00	**Kwadwo Antwi-Fordjour (Samford University, USA)** Additional Food Causes Predators to Explode - Unless the Predators Compete	
15:00-15:30	**Brittni Hall (Auburn University, USA)** Optimal Control of a Beneficial Bacterial Population in the Gut Mircobiome	

SS 68	**(In)Stability and The Long Time Behaviour of Fluid Flows** Organizer(s): Miroslav Bulíček, Vit Prusa	**CI1006**
13:30-14:00	**Miroslav Bulíček (Charles University, Czech Rep)** Viscoelastic Rate-Type Fluids: Existence, Regularity, Stability	
14:00-14:30	**Casey P Rodriguez (University of North Carolina at Chapel Hill, USA)** On Elastic Solids with Strain-Gradient Elastic Boundary Surfaces	
14:30-15:00	**Michael Zelina (Charles University, Prague, Czech Rep)** On Attractors and Regularity for Flows with Dynamic Slip Boundary Condition	
15:00-15:30	**Petr Kaplicky (Charles University, Czech Rep)** Stability of Equilibria to Generalized Navier-Stokes-Fourier System	

SS 70	**Fractional Calculus: Theory, Methods and Applications** Organizer(s): Khaled Furati, Mokhtar Kirane	**LH136**
13:30-14:00	**Deepthika Senaratne (Fayetteville State University, USA)** Finite Volume Method for Solving Fractional Differential Equations	
14:00-14:30	**Khaled M Furati (King Fahd University of Petroleum and Minerals, Saudi Arabia)** Numerical Methods for Stiff Nonlinear Fractional-Order Equations	
14:30-15:00	**Songting Luo (Iowa State University, USA)** Mathematical and Numerical Study of 1D Fractional Schrödinger Equations Via Semiclassical Approximations	
15:00-15:30	**Berikbol T Torebek (Institute of Mathematics and Mathematical Modeling, Kazakhstan)** Decay Estimates for the Time-Fractional Evolution Equations with Time-Dependent Coefficients	

SS 2	**Hyperbolic Partial Differential Equations and Applications** Organizer(s): Yachun Li, Yue-Jun Peng, Ya-Guang Wang, Tong Yang	**LH108**
16:00-16:30	**Ya-Guang Wang (Shanghai Jiao Tong University, Peoples Rep of China)** On Controllability of the Incompressible MHD Systems	
16:30-17:00	**Dehua Wang (University of Pittsburgh, USA)** Interface Problem for the Two-Phase Magnetohydrodynamic Flows	
17:30-18:00	**Deng Zhang (Shanghai Jiao Tong University, Peoples Rep of China)** Non-Uniqueness of Weak Solutions to (Stochastic) MHD Equations	
18:00-18:30	**Weike Wang (Shanghai Jiao Tong University, Peoples Rep of China)** The Global Existence of Solutions of the 3D Keller-Segel System with Planar Helical Flow	

SS 7	**Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations and Related Fields** Organizer(s): Danielle Hilhorst, Yoshihisa Morita, Junping Shi	**LH132**
16:00-16:30	**Chris Cosner (University of Miami, USA)** Reaction-Diffusion Models for Dispersal in a Stage Structured Population	
16:30-17:00	**Inkyung Ahn (Korea University, Korea)** Predator-Prey Systems with Prey-Dependent Diffusion in Spatially Heterogeneous Habitat	
17:00-17:30	**Yasuhito Miyamoto (The University of Tokyo, Japan)** Stability and Complete Bifurcation Diagram for a Shadow Gierer-Meinhardt System in One Space Dimension	
17:30-18:00	**Rachidi Salako (University of Nevada Las Vegas, USA)** Mathematical Analysis of the Dynamics of Some Reaction-Diffusion Models for Infectious Diseases	
18:00-18:30	**Yixiang Wu (Middle Tennessee State University, USA)** Global Dynamics of a Reaction-Diffusion Epidemic Model with Nonlinear Incidence Mechanism	

SS 8	**Propagation Phenomena in Reaction-Diffusion Systems** Organizer(s): Hirokazu Ninomiya, Masaharu Taniguchi	**LH139**
16:00-16:30	**Masaharu Taniguchi (Okayama University, Japan)** Axially Asymmetric Traveling Fronts in Balanced Bistable Reaction-Diffusion Equations	
16:30-17:00	**Masashi Aiki (Tokyo University of Science, Japan)** On the Interaction of a Pair of Coaxial Circular Vortex Filaments	
17:00-17:30	**Hiroshi Matsuzawa (Kanagawa University, Japan)** Logarithmic Shiftings of a Radial Propagating Terrace in a Free Boundary Problem for a Multi-Stable Reaction Diffusion Equation in High Space Dimensions	
17:30-18:00	**Andrea Tellini (Universidad Politécnica de Madrid, Spain)** Propagation for Heterogeneous Reaction-Diffusion Systems in Cylinders with General Sections	

SS 10	**Sharp Inequalities and Nonlinear Differential Equations** Organizer(s): Bernhard Ruf, Futoshi Takahashi, Federica Sani	**LH141**
16:00-16:30	**Megumi Sano (Hiroshima University, Japan)** Improvements and Generalizations of Two Hardy Type Inequalities and Their Applications to the Rellich Type Inequalities	
16:30-17:00	**Cristina Tarsi (Università degli Studi di Milano, Italy)** Some Remarks on Mass-Weighted Trudinger-Moser Type Inequalities	
17:00-17:30	**Norisuke Ioku (Tohoku University, Japan)** Non-Uniqueness for a Critical Heat Equation in Two Dimensions with Singular Data	
17:30-18:00	**Takeshi Suguro (Graduate School of Science, Osaka Metropolitan University, Japan)** Deficit Estimates for the Logarithmic Sobolev Inequality for the Tsallis Entropy and Its Application	
18:00-18:30	**Toru Kan (Osaka Metropolitan University, Japan)** On the Existence of Solutions of the Backus Problem	

SS 14	**Global or/and Blowup Solutions for Nonlinear Evolution Equations and Their Applications** Organizer(s): Shaohua Chen, Ming Mei	**LH111**
16:00-16:30	**Maria Michaela M Porzio (Sapienza University of Rome, Italy)** Regularity and Long Term Dynamics of Some Nonlinear Evolution Equations	
16:30-17:00	**Yurij Salmaniw (University of Alberta, Canada)** Existence of Weak Solutions to a Nonlocal Reaction-Diffusion-Advection System	
17:00-17:30	**Shaohua Chen (Cape Breton University, Canada)** Global Solutions for the 1-D Compressible Euler Equations with Time-Dependent Damping	
17:30-18:00	**Abraham I Solar (Catholic University of the Most Holy Conception, Chile)** On the Stability with Asymptotic Phase of Semi-Wavefronts	

SS 18	**Advanced Methodologies in Mathematical Materials Science and Biology** Organizer(s): Toyohiko Aiki, Adrian Muntean	**LH143**
16:00-16:30	**Grigor Nika (Karlstad University, Sweden)** On a Hierarchy of Effective Models for the Biomechanics of Human Compact Bone Tissue	
16:30-17:00	**Nobuyuki Kenmochi (Chiba University, Japan)** Quasi-Variational Inequalities for Superconductivity Model	
17:00-17:30	**Yoshiho Akagawa (National Institute of Technology (KOSEN), Gifu College, Japan)** Quasi-Variational Inequlity for a Plasticity Model with Hardening Phenomena	
17:30-18:00	**Noriaki Yamazaki (Kanagawa University, Japan)** Second Order Nonlinear Quasi-Variational Evolution Inclusions	
18:00-18:30	**Shun Uchida (Oita University, Japan)** Nonlinear Evolution Equation Associated with Hypergraph Laplacian	

SS 20	**Control and Optimization: New Developments and Applications** Organizer(s): Monica Motta, Alexander J. Zaslavski, Ellina Grigorieva	**MO201**
16:00-16:30	**Zaifeng Lin (Texas A & M University, USA)** On Affine Equivalence of Sub-Riemannian Metrics on Step 2 Distributions	
16:30-17:00	**Igor Zelenko (Texas A & M University, USA)** Genericity of Projectively and Affinely Rigid Sub-Riemannian Metrics.	
17:00-17:30	**Mariusz Michta (University of Zielona Gora, Poland)** Stochastic Differential Inclusions and Set-Valued Stochastic Differential Equations	

SS 21	**Evolution Equations and Integrable Systems** Organizer(s): Alex Himonas, Curtis Holliman, Fangchi Yan	**ST1009**
16:00-16:30	**Feride Tiglay (Ohio State University, USA)** Weak Diffeomorphisms and Solutions to Conservation Laws	
16:30-17:00	**Curtis Holliman (The Catholic University of America, USA)** Blow Up Conditions for Generalizations of the Camassa-Holm Equation	
17:00-17:30	**John Holmes (The Ohio State University, USA)** Continuity of the Data-To-Solution Map for Conservation Laws	
17:30-18:00	**Brian Reyes (University of Notre Dame, USA)** On the Cauchy Problem of the Modified B-Family	

SS 22	**Mathematical Modeling of Pandemics** Organizer(s): Benedetto Piccoli, Ryan Weightman	**CI1007**
16:00-16:30	**Torsten A Lindström (Linnaeus University, Sweden)** On the Stochastic Engine of Transmittable Diseases in Exponentially Growing Populations	
16:30-17:00	**Saroj K Biswas (Temple University, USA)** A Stochastic SEIRD Model of CODID-19 and Its Intervention	
17:00-17:30	**Alen Alexanderian (North Carolina State University, USA)** Sensitivity Analysis and Uncertainty Quantification in Inverse Problems Governed by Epidemic Models	
17:30-18:00	**Alex Perkins (University of Notre Dame, USA)** Optimal Control of the COVID-19 Pandemic with Non-pharmaceutical Interventions	

SS 27	**Recent Trends in Navier-Stokes Equations, Euler Equations, and Related Problems** Organizer(s): Sarka Necasova, Reimund Rautmann, Werner Varnhorn	**LH110**
16:00-16:30	**Cherif Amrouche (University de Pau et des Pays de L'Adour, France)** Study State Solution of Shliomis Model	
16:30-17:00	**Nour Seloula (Laboratoire de Mathematiques Nicolas Oresme Univcersite de Caen, France)** On the Magnetohydrodynamic Equations Under Different Boundary Conditions for the Velocity and The Magnetic Field	
17:00-17:30	**Petr Kaplicky (Charles University, Czech Rep)** Uniqueness and Regularity of Flows of Non-Newtonian Fluids	
17:30-18:00	**Tomas Neustupa (Czech Technical University, Czech Rep)** Existence of a Steady Flow Through a Rotating Radial Turbine with an Arbitrarily Large Inflow and An Artificial Boundary Condition on the Outflow	
18:00-18:30	**Aneta Wroblewska-Kaminska (Institute of Mathematics, Polish Academy of Sciences, Poland)** From Compressible to Incompressible Systems	

SS 28	**Qualitative Theory of Nonlinear Elliptic and Parabolic Equations** Organizer(s): Raul Manasevich, Satoshi Tanaka	**CI1012**
16:00-16:30	**Ryuji Kajikiya (Osaka Electro-Communication University, Japan)** Nodal Solutions for the Moore-Nehari Differential Equation	
16:30-17:00	**Pilar Herreros (P. Universidad Catolica de Chile, Chile)** Multiplicity of Ground State Solutions Via Magnitude Changes	
17:00-17:30	**Daisuke Naimen (Muroran Institute of Technology, Japan)** Concentration Phenomena on Radial Solutions to Semilinear Elliptic Equations with the Trudinger-Moser Growth	
17:30-18:00	**Ryo Takahashi (Nara University of Education, Japan)** On the Structure of Solutions for Two Mean Field Eqautions	
18:00-18:30	**Satoshi Tanaka (Tohoku University, Japan)** Uniqueness and Multiplicity of Positive Solutions to the Scalar-Field Equation on Large Annuli in the Three-Dimensional Unit Sphere	

SS 39	**Recent Results in Local and Nonlocal Elliptic and Parabolic Equations** Organizer(s): Zu Gao	**LH131**
16:00-16:30	**Serena Dipierro (University of Western Australia, Australia)** The Bernstein Technique for Integro-Differential Equations	
16:30-17:00	**Maria Rosaria Lancia (Sapienza, Italy)** Non Autonomous BVPs in Extension Domains with Dynamical Boundary Conditions	
17:00-17:30	**Alejandro Velez-Santiago (University of Puerto Rico - Mayaguez, USA)** Diffusion Over Bronchial Trees: Solvability and Global Regularity Results	
17:30-18:00	**Simone Creo (Sapienza Università di Roma, Italy)** Nonlocal BVPs on Extension Domains	

SS 45	**Lie Symmetries, Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations** Organizer(s): Chaudry Masood Khalique, Wen-Xiu Ma, Maria Luz Gandarias	**CI1013**
16:00-16:30	**Wen-Xiu Ma (University of South Florida, USA)** Integrable Hamiltonian Equations and Matrix Lie Algebras	
16:30-17:00	**Igor L Freire (UFSCar, Brazil)** Structural Properties of an Equation Describing Pseudospherical Surfaces	
17:00-17:30	**Basetsana P Ntsime (University of South Africa, So Africa)** Finding Lie Symmetry Analysis of a System of Equations Describing the Tumour Invasion Model	
17:30-18:00	**Bilal Habib (National Institute of Health, Pakistan)** Novel Approach of Nanofluids in Medical Science	
18:00-18:30	**Adnan Aslam (National University of Sciences and Technology (NUST), Pakistan)** Invariants for a System of Two Linear Hyperbolic Equations by Complex Methods	

SS 47	**Singular Limits in Elliptic and Parabolic PDEs** Organizer(s): Silvia Cingolani, Manuel Del Pino, Serena Dipierro	**MO207**
16:00-16:30	**Antonio J. Fernández (Universidad Autónoma de Madrid, Spain)** Multiple Solutions to the Nonlocal Liouville Equation in $\mathbb{R}$	
16:30-17:00	**Giusi Vaira (University of Bari Aldo Moro, Italy)** Clustering Phenomena in Low Dimensions for a Boundary Yamabe Problem	
17:00-17:30	**Andres Zuniga (University of O'Higgins (UOH), Chile)** On the Stability of Radial Solutions to an Anisotropic Ginzburg-Landau Equation	
17:30-18:00	**Lei Zhang (University of Florida, USA)** Asymptotic Behavior of Solutions to the Yamabe Equation in Low Dimensions.	
18:00-18:30	**Norihisa Ikoma (Keio University, Japan)** Existence of Small Positive Solutions to the Nonlinear Schrödinger Equation	

SS 54	**Applied Mathematics for Modern Challenges** Organizer(s): Jennifer Mueller, Samuli Siltanen	**MO209**
16:00-16:30	**Rick Archibald (Oak Ridge National Laboratory, USA)** Scientific Data Compression	
16:30-17:00	**Lorena Bociu (NC State University, USA)** Analysis and Control in Poroelastic Systems with Applications to Biomedicine	
17:00-17:30	**Espanol, Malena (Arizona State University, USA)** Variable Projection Methods for Separable Nonlinear Inverse Problems	
17:30-18:00	**Vasquez, Fernando Guevara (University of Utah, USA)** Conductivity Imaging Using Thermal Noise	

SS 57	**Mathematical Models for Traffic Monitoring and Control** Organizer(s): Sean McQuade, Maria Teresa Chiri, Maria Laura Delle Monache	**MO206**
16:00-16:30	**Hua Wei (New Jersey Institute of Technology, USA)** Learning to Simulate with Real-World Traffic Data	
16:30-17:00	**Hossein Nick Zinat Matin (UC Berkeley, USA)** Conservation Law in the Presence of Moving Bottleneck and Discontinuity in the Flux	
17:00-17:30	**Bilal Thonnam Thodi (New York University Abu Dhabi, United Arab Emirates)** Learning Inverse Solver for Scalar Nonlinear Hyperbolic PDEs: Application to the LWR Traffic Flow Model	
17:30-18:00	**Nour Khoudari (Temple University, USA)** Multiscale Characteristics of Traffic Waves and Sparse Control	
18:00-18:30	**Jingqin Gao (New York University, USA)** Leveraging Connected and Automated Vehicle Data for Queue-Informed and Incident-Aware Ramp Metering Strategies to Improve Highway Operations	

SS 63	**Analysis and Optimization of Biological and Medical Systems** Organizer(s): Brittni Hall, Xiaoying Han, Hans Werner Van Wyk	**LH104**
16:00-16:30	**Paula A Vasquez (University of South Carolina, USA)** Principles of Organization in the Yeast Genome	
16:30-17:00	**Brendan P Ames (University of Alabama, USA)** When Can We Cluster Data? Insights from Convex Optimization and Semidefinite Programming	
17:00-17:30	**Daniel Irvine (Georgia Institute of Technology, USA)** Efficiency of Locomotion of N-Link Snake Robots	

SS 65	**Nonlinear Evolution Equations and Related Topics** Organizer(s): Goro Akagi, Michinori Ishiwata, Mitsuharu Otani	**ST2002**
16:00-16:30	**Jorge A Esquivel-Avila (Universidad Autónoma Metropolitana, Mexico)** Some Remarks about the Existence of Nonglobal and Global Solutions of a Class of Evolution Equations	
16:30-17:00	**Akisato Kubo (Fujita Health University, Japan)** Non-Linear Evolution Equations with Non-Local Coefficients Arised in Chemotaxis Models	
17:00-17:30	**Tatsuya Watanabe (Kyoto Sangyo University, Japan)** Ground State Solutions for Quasilinear Scalar Field Equations Arising in Nonlinear Optics	
17:30-18:00	**Florian Salin (Institut Camille Jordan, France)** Numerical Analysis of Fractional Nonlinear Diffusion Equation	
18:00-18:30	**Goro Akagi (Mathematical Institute, Tohoku University, Japan)** Rates of Convergence to Asymptotic Profiles for Fast Diffusion on Domains	

SS 68	**(In)Stability and The Long Time Behaviour of Fluid Flows** Organizer(s): Miroslav Bulíček, Vit Prusa	**CI1006**
16:00-16:30	**Vit Prusa (Charles University, Czech Rep)** Nonlinear Stability and Nonequilibrium Thermodynamics—There and Back Again	
16:30-17:00	**Dalibor Prazak (Charles University, Czech Rep)** Long Time Behavior of Navier-Stokes Equations with Dynamic Boundary Condition	
17:00-17:30	**Bataa Lkhagvasuren (Chonnam National University, Korea)** Stability Result for the 2D Boussinesq Equations with Horizontal Dissipation	
17:30-18:00	**Tomas Barta (Charles University, Prague, Czech Rep)** Stokes Problem with Dynamic Boundary	

SS 70	**Fractional Calculus: Theory, Methods and Applications** Organizer(s): Khaled Furati, Mokhtar Kirane	**LH136**
16:00-16:30	**Meiirkhan Borikhanov (Khoja Akhmet Yassawi International Kazakh-Turkish University, Kazakhstan)** Qualitative Properties of Solutions to a Nonlinear Time-Space Fractional Diffusion Equation	

SS 2	**Hyperbolic Partial Differential Equations and Applications** Organizer(s): Yachun Li, Yue-Jun Peng, Ya-Guang Wang, Tong Yang	**LH108**
8:00-8:30	**Stephane Junca (LJAD, Inria and CNRS, Universite Cote D'Azur, France)** A Non-Conservative and Non-Strictly Hyperbolic Diagonal System Related to Crystallography	
8:30-9:00	**Wei Xiang (City University of Hong Kong, Hong Kong)** Persistence of Normal Shock Structures Under Unsteady Perturbation	
9:00-9:30	**Nicolae Tarfulea (Purdue University Northwest, USA)** Boundary Conditions for Constrained Hyperbolic Systems of Partial Differential Equations	

SS 3	**Dynamics of ODES and Nonlinear Parabolic Systems** Organizer(s): Julian Lopez-Gomez, Fabio Zanolin	**LH131**
8:00-8:30	**Juan Carlos Sampedro (Universidad Complutense de Madrid, Spain)** Bifurcation Theory for Analytic Operators	
8:30-9:00	**Eduardo Munoz-Hernandez (Complutense University of Madrid, Spain)** A Spatially Heterogeneous Predator-Prey Model	
9:00-9:30	**Pablo Cubillos (Universidad Complutense de Madrid, Spain)** Nodal Solutions of a Paradigmatic Class of Semilinear 1-D BVP'S	

SS 5	**Recent Results in Nonlinear PDEs** Organizer(s): Vincenzo Ambrosio, Teresa Isernia	**LH111**
8:00-8:30	**Olimpio H Miyagaki (UFSCAR-Universidade Federal de São Carlos, Brazil)** Existence of Normalized Solutions for the Planar Schrödinger-Poisson System with Exponential Critical Nonlinearity	
8:30-9:00	**Jinmyoung Seok (Seoul National University, Korea)** Theory of Stars in Nonlinear PDEs	
9:00-9:30	**Pablo Raul Stinga (Iowa State University, USA)** Regularity of Solutions to Boundary Nonlocal Equations	

SS 7	**Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations and Related Fields** Organizer(s): Danielle Hilhorst, Yoshihisa Morita, Junping Shi	**LH132**
8:00-8:30	**Ming Mei (McGill University and Champlain College, Canada)** Stability of Sharp Traveling Waves for Degenerate Burgers-Fisher-KPP Equations	
8:30-9:00	**Anna Ghazaryan (Miami University, USA)** Stability of KPP-Type Fronts in Rosenzweig-MacArthur Model	
9:00-9:30	**Hirofumi Izuhara (University of Miyazaki, Japan)** Instability of Planar Waves in a Combustion Problem	

SS 18	**Advanced Methodologies in Mathematical Materials Science and Biology** Organizer(s): Toyohiko Aiki, Adrian Muntean	**LH143**
8:00-8:30	**Adrian Muntean (Karlstad University, Sweden)** Phase Separation and Morphology Growth in Interacting Ternary Mixtures Under Evaporation - Well-Posedness and Numerical Simulation of a Non-Local Evolution System	
8:30-9:00	**Chiharu Kosugi (Yamaguchi University, Japan)** The Large Time Behavior of Solutions for the Initial and Boundary Value Problem Representing Stretching and Shrinking Motions of Elastic Curves	
9:00-9:30	**Toyohiko Aiki (Japan Women's University, Japan)** Numerical Results on Some Mathematical Models for Elastic Materials on the Plane.	

SS 19	**Stochastic Partial Differential Equations** Organizer(s): Benjamin Gess, Michael Röckner	**CI1007**
8:00-8:30	**Hakima Bessaih (Florida International University, USA)** Numerical Schemes for Various Stochastic Models in Hydrodynamic	
8:30-9:00	**Wanyang Dai (Nanjing University, Peoples Rep of China)** A Unified Forward-Backward Levy Process Driven SPDE and Stochastic Differential Games	
9:00-9:30	**Marco Rehmeier (Bielefeld University, Germany)** On Nonlinear Markov Processes in the Sense of McKean	

SS 21	**Evolution Equations and Integrable Systems** Organizer(s): Alex Himonas, Curtis Holliman, Fangchi Yan	**ST1009**
8:00-8:30	**Georgia Himona (National Technical University of Athens, Greece)** Phase Reduction and Response of a Photonic Oscillator	
8:30-9:00	**Sarah Raynor (Wake Forest University, USA)** Finite Time Blowup for the Nonlinear Schrödinger Equation with a Delta Potential	
9:00-9:30	**Luiz Gustavo Farah (Universidade Federal de Minas Gerais, Brazil)** On the Intercritical Inhomogeneous NLS Equation	

SS 37	**Nonlinear Elliptic Problems in Geometry and Physics** Organizer(s): Jinmyoung Seok, Jaeyoung Byeon, Norihisa Ikoma	**LH107**
8:00-8:30	**Zhi-Qiang Wang (Utah State University, USA)** Nodal Solutions for Coupled Elliptic Equations	
8:30-9:00	**Sho Katayama (University of Tokyo, Japan)** A Supercritical Elliptic Problem in the Half Space with an Inhomogeneous Boundary Condition	
9:00-9:30	**Sang-Hyuck Moon (UNIST, Korea)** Nonlinear Schrödinger Systems with Traps Potentials for Mixed Interaction	

SS 41	**Asymptotic Analysis and Bifurcations of Solutions for Nonlinear Models** Organizer(s): Yoshitsugu Kabeya, Jann-Long Chern	**CI1006**
8:30-9:00	**Yoshitsugu Kabeya (Osaka Metropolitan University, Japan)** Bifurctions and Imperfect Bifurcations of Solutions to the Scalar-Field Type Eliptic Equation Under the Robin Condition	
9:00-9:30	**Tohru Wakasa (Kyushu Institute of Technology, Japan)** Linearized Eigenvalue Problems, Lam'E Equation and Modified Elliptic Integral of the Third Kind	

SS 45	**Lie Symmetries, Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations** Organizer(s): Chaudry Masood Khalique, Wen-Xiu Ma, Maria Luz Gandarias	**CI1013**
8:00-8:30	**Chaudry Masood Khalique (North-West University, So Africa)** A Study of a Generalized Nonlinear Advection-Diffusion Equation	
8:30-9:00	**Priscila da Silva (Universidade Federal do ABC, Brazil)** Conservation Laws and Explicit Solutions of the Yajima-Oikawa-Newell System	
9:00-9:30	**Muhammad I Hameed (University of South Carolina, USA)** Instability and Pinch-Off of a Slender Fluid Thread with Variable Surface Tension	

SS 56	**Variational Methods for Nonlinear PDEs** Organizer(s): Kanishka Perera, Pasquale Candito, Roberto Livrea	**ST2005**
8:00-8:30	**Eleonora Amoroso (University of Messina, Italy)** Nonlinear Elliptic Problems Involving the Double Phase Operator with Variable Exponents	
8:30-9:00	**Giuseppe Viglialoro (University of Cagliari, Italy)** A Two-Dimensional Ventcel Problem Modeling the Equilibrium of a Prestressed Membrane	
9:00-9:30	**Francesca Colasuonno (Alma Mater Studiorum Università di Bologna, Italy)** A Multiplicity Result for a P-Laplacian Supercritical Neumann Problem	

SS 61	**Qualitative Properties and Numerical Approximations of PDE Systems Which Govern Fluid Flows and Flow-Structure Interactions** Organizer(s): George Avalos, Pelin Guven Geredeli	**MO207**
8:00-8:30	**Xukai Yan (Oklahoma State University, USA)** Sharp Stability for the Interaction Energy	
8:30-9:00	**Tien Khai Nguyen (North Carolina State University, USA)** Shocks Interaction for the Burgers-Hilbert Equation	
9:00-9:30	**Luz de Teresa (Universidad Nacional Autónoma de Mexico, Mexico)** Controllability Properties of Coupled Stokes and Navier Stokes Systems	

SS 65	**Nonlinear Evolution Equations and Related Topics** Organizer(s): Goro Akagi, Michinori Ishiwata, Mitsuharu Otani	**ST2002**
8:30-9:00	**Kotaro Sato (Graduate School of Science, Tohoku University, Japan)** On Some Evolution Equation with Irreversibility and Energy-Conservation Arising from Fracture Mechanics	
9:00-9:30	**Shun Uchida (Oita University, Japan)** Solvability of Doubly Nonlinear Parabolic Equation with P-Laplacian	

SS 71	**At the Edge of Ellipticity** Organizer(s): Fabiana Leoni, Isabeau Birindelli, Sergio Polidoro	**LH136**
8:30-9:00	**Sergio Polidoro (Università di Modena e Reggio Emilia, Italy)** On a Kinetic Equation in Special Relativity	
9:00-9:30	**Juliana Fernandes Da Silva (Universidade Federal do Rio de Janeiro, Brazil)** The Nehari Manifold for a Degenerate Logistic Parabolic Equation	

SS 73	**Data-Driven Methods in Dynamical Systems** Organizer(s): Ruhui Jin, Shi Chen, Qin Li	**MO209**
8:00-8:30	**Longxiu Huang (Michigan State University, USA)** Bandlimited Graph Signal Recovery from Randomized Space-Time Samples	
8:30-9:00	**Yifan Chen (Caltech, USA)** Gradient Flows for Sampling: Affine Invariance and Numerical Approximations	
9:00-9:30	**Charles Kulick (University of California, Santa Barbara, USA)** Scalable Multi-Species Agent-Based Modeling with Sparse GP	

SS 74	**Local and Nonlocal Fully Nonlinear Partial Differential Equations of Elliptic and Parabolic Type** Organizer(s): Fernando Charro, Pablo Raul Stinga	**LH104**
8:00-8:30	**Connor Mooney (UC Irvine, USA)** Interior Gradient Estimates for the Special Lagrangian Equation	
8:30-9:00	**Mark Allen (Brigham Young University, USA)** Rectifiability for Points with Positive Alt-Caffarelli-Friedman Limit	
9:00-9:30	**Vincenzo Ambrosio (Università Politecnica delle Marche, Italy)** Periodic Solutions for Critical Fractional Problems	

SS 90	**Recent Advances in Wavelet Analysis, PDEs and Dynamical Systems** Organizer(s): Emanuel Guariglia, Rodrigo Capobianco Guido	**MO206**
08:00-08:30	**Maria Alessandra Ragusa (University of Catania, Italy)** The Regular Behavior in Differential Equations and Related Topics	
08:30-09:00	**Ilya Krishtal (Northern Illinois University, USA)** Predictive Algorithms for Burst-Like External Force Identification	
09:00-09:30	**Emanuel Guariglia (Wenzhou-Kean University, Italy)** Chebyshev Wavelets and Applications	

CS 1	**ODEs and Applications**	**MO205**
8:20-8:40	**Emmanuel O Adeyefa (Federal University Oye-Ekiti, Oye-Ekiti,Ekiti State, Nigeria, Nigeria)** Application of Laplace Transform to Cryptography Using Linear Combination of Functions	
8:40-9:00	**Benitho A Ngwu (University of Nigeria Nsukka, Nigeria)** Geometric Singular Perturbation Approach to Glass Networks	
9:00-9:20	**Hossam M Ezzat (Alexandria University, Egypt)** Dynamical Analysis of a Mathematical Model of Hepatitis C Virus (HCV) Infection with Hepatocyte Proliferation	

SS 3	**Dynamics of ODES and Nonlinear Parabolic Systems** Organizer(s): Julian Lopez-Gomez, Fabio Zanolin	**LH131**
14:00-14:30	**Robert Stephen Cantrell (University of Miami, USA)** Resource Matching in Spatial Ecology and Evolutionary Advantage	
14:30-15:00	**Kenichiro Umezu (Ibaraki University, Japan)** An Exact Multiplicity Result for Some Sublinear Robin Problem with an Indefinite Weight	
15:00-15:30	**Satoshi Tanaka (Tohoku University, Japan)** On the Multiplicity of Positive Even Solutions to the One-Dimensional Hénon Type Equation on Some Very Narrow Possible Parameter Set	
15:30-16:00	**Elisa Sovrano (University of Modena and Reggio Emilia (UNIMORE), Italy)** Wavefront Analysis for Reactive-Convective Perona-Malik Equations	

SS 5	**Recent Results in Nonlinear PDEs** Organizer(s): Vincenzo Ambrosio, Teresa Isernia	**LH111**
14:00-14:30	**Andrea Pinamonti (University of Trento, Italy)** Variational Convergences and Applications to Partial Differential Equations Driven by Vector Fields.	
14:30-15:00	**Eugenio Vecchi (University of Bologna, Italy)** Symmetry Results for Double Phase Operators	
15:00-15:30	**Fernando Charro (Wayne State University, USA)** The Gelfand Problem for the Infinity Laplacian	
15:30-16:00	**Michael E Filippakis (University of Piraeus, Greece)** Nodal Solutions for Nonlinear Elliptic Equations	

SS 7	**Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations and Related Fields** Organizer(s): Danielle Hilhorst, Yoshihisa Morita, Junping Shi	**LH132**
14:00-14:30	**Eduard Feireisl (Mathematical Institute, Czech Academy of Sciences, Czech Rep)** The Rayleigh–Bénard Problem for Compressible Fluid Flows	
14:30-15:00	**Alain Miranville (University of Poitiers, France)** The Cahn-Hilliard Equation with a Source Term	
15:00-15:30	**Morgan Pierre (Universite de Poitiers, France)** Convergence to Equilibrium for Time and Space Discretizations of the Cahn-Hilliard Equation	
15:30-16:00	**Masaharu Nagayama (Hokkaido University, Japan)** Phase-Field Approximation Model for a Self-Propelled Motion	

SS 8	**Propagation Phenomena in Reaction-Diffusion Systems** Organizer(s): Hirokazu Ninomiya, Masaharu Taniguchi	**LH139**
14:00-14:30	**Romain Ducasse (Universite Paris Cite, France)** Propagation Properties for SIR Reaction-Diffusion System	
14:30-15:00	**Kota Ikeda (Meiji University, Japan)** Center Manifold Theory for the Motions of Camphor Boats in L2-Framework	
15:00-15:30	**Kousuke Kuto (Waseda University, Japan)** Coexistence-Segregation Dichotomy in the Full Cross-Diffusion Limit to the Stationary SKT Model	
15:30-16:00	**Hiroshi Ishii (Kyoto University Institute for the Advanced Study of Human Biology, Japan)** Traveling Waves to a Nonlocal Scalar Equation with Sign-Changing Kernel	

SS 10	**Sharp Inequalities and Nonlinear Differential Equations** Organizer(s): Bernhard Ruf, Futoshi Takahashi, Federica Sani	**LH141**
14:30-15:00	**Masato Hashizume (Hiroshima University, Japan)** Asymptotic Properties of Critical Points for Trudinger-Moser Functional Involving Scale Parameter	
15:00-15:30	**Futoshi Takahashi (Osaka Metropolitan University, Japan)** Sharp Hardy-Leray and Related Inequalities for Vector Fields with Differential Constraints	
15:30-16:00	**Daisuke Naimen (Muroran Institute of Technology, Japan)** Concentration Phenomena on Radial Solutions to Semilinear Elliptic Equations with the Trudinger-Moser Growth	

SS 18	**Advanced Methodologies in Mathematical Materials Science and Biology** Organizer(s): Toyohiko Aiki, Adrian Muntean	**LH143**
14:30-15:00	**Daiki Mizuno (Chiba University, Japan)** Pseudo-Parabolic Energy Dissipation System Associated with Grain Boundary Motion	
15:00-15:30	**Thoa Thieu (Wilfrid Laurier University, USA)** Coupled Stochastic Systems of Skorokhod Type: Well-Posedness of a Mathematical Model and Its Applications	
15:30-16:00	**Tomoyuki Oka (The University of Tokyo, Japan)** Space-Time Periodic Homogenization Problem for Nonlinear Diffusion Equations	

SS 19	**Stochastic Partial Differential Equations** Organizer(s): Benjamin Gess, Michael Röckner	**CI1007**
14:00-14:30	**Manuel V Gnann (TU Delft, Netherlands)** Martingale Solutions to the Stochastic Thin Film Equation	
14:30-15:00	**Sebastian Grube (Bielefeld University, Germany)** Strong Solutions to McKean-Vlasov SDEs with Coefficients of Nemytskii-Type	
15:00-15:30	**Danielle Hilhorst (CNRS and University Paris-Sud, France)** Singular Limit for a Stochastic Allen-Cahn Equation with Nonlinear Diffusion	
15:30-16:00	**Christopher Henderson (University of Arizona, USA)** Brownian Fluctuations of Flame Fronts with Small Random Advection	

SS 20	**Control and Optimization: New Developments and Applications** Organizer(s): Monica Motta, Alexander J. Zaslavski, Ellina Grigorieva	**MO201**
14:00-14:30	**Tien Khai Nguyen (North Carolina State University, USA)** On the Structure of the Value Function of Optimal Exit Time Problems	
14:30-15:00	**Yuhki Hosoya (Faculty of Economics, Chuo University, Japan)** Non-Smooth Frobenius‘ Theorem	
15:00-15:30	**Monica M Motta (University of Padua, Italy)** High Order Lyapunov Functions and Lie-Bracket-Based Feedback Stabilizability with Cost Regulation	

SS 21	**Evolution Equations and Integrable Systems** Organizer(s): Alex Himonas, Curtis Holliman, Fangchi Yan	**ST1009**
14:00-14:30	**Shu-Ming Sun (Virginia Tech, USA)** Solutions of Weakly Dissipated KdV Equations with Variable Coefficients on a Periodic Domain	
14:30-15:00	**Qingtian Zhang (West Virginia University, USA)** Global Solutions of Quasilinear MKdV Equations	
15:00-15:30	**Fangchi Yan (Virginia Tech, USA)** The Well-Posedness of a KdV System on the Half-Line	
15:30-16:00	**Dave Smith (Yale-NUS College, Singapore)** Fokas Diagonalization	

SS 27	**Recent Trends in Navier-Stokes Equations, Euler Equations, and Related Problems** Organizer(s): Sarka Necasova, Reimund Rautmann, Werner Varnhorn	**LH110**
14:00-14:30	**Miroslav Bulíček (Charles University, Czech Rep)** Existence Analysis of a Stationary Compressible Fluid Model for Heat-Conducting and Chemically Reacting Mixtures	
14:30-15:00	**Martin Kalousek (Institute of Mathematics, Czech Academy of Sciences, Czech Rep)** Existence of Weak Solutions for a Compressible Multi-Component Fluid Structure Interaction Problem	
15:00-15:30	**Vaclav Macha (Institute of Mathematics of the Czech Academy of Sciences, Czech Rep)** Local-In-Time Existence of Strong Solutions to a Class of the Compressible Non-Newtonian Navier-Stokes Equations	
15:30-16:00	**Ondrej Kreml (Institute of Mathematics, Czech Academy of Sciences, Czech Rep)** Flow of a Heat Conducting Fluid in a Time-Dependent Domain	

SS 28	**Qualitative Theory of Nonlinear Elliptic and Parabolic Equations** Organizer(s): Raul Manasevich, Satoshi Tanaka	**CI1012**
14:00-14:30	**Yasuhito Miyamoto (The University of Tokyo, Japan)** Exact Morse Index of Radial Solutions for Semilinear Elliptic Equations with Critical Exponent on Annuli	
14:30-15:00	**Yohei Sato (Saitama University, Japan)** Even Ground State for Nonlinear Schrödinger Systems with Repulsive Interaction	
15:00-15:30	**Yuki Naito (Hiroshima University, Japan)** Singular Solutions for Semilinear Elliptic Equations with General Supercritical Growth	
15:30-16:00	**Masato Hashizume (Hiroshima University, Japan)** A Power Type Approximation of Moser–Trudinger Inequality	

SS 37	**Nonlinear Elliptic Problems in Geometry and Physics** Organizer(s): Jinmyoung Seok, Jaeyoung Byeon, Norihisa Ikoma	**LH107**
14:00-14:30	**Masataka Shibata (Meijo University, Japan)** Existence Results of Positive Solutions to Semi-Linear Elliptic Problems on Metric Graphs	
14:30-15:00	**Sangdon Jin (Chung-Ang University, Korea)** On Steady States for the Vlasov-Schrödinger-Poisson System	
15:00-15:30	**Tomoharu Kinoshita (Waseda University, Japan)** Existence and Multiplicity of Radially Symmetric Solutions for NLS Equations	
15:30-16:00	**Jean-Baptiste Casteras (University of Lisbon, Portugal)** Standing Wave and Travelling Wave Solutions for a Fourth Order Schroedinger Equation	

SS 41	**Asymptotic Analysis and Bifurcations of Solutions for Nonlinear Models** Organizer(s): Yoshitsugu Kabeya, Jann-Long Chern	**CI1006**
14:00-14:30	**Junping Shi (College of William and Mary, USA)** Standing Waves of Coupled Schrödinger Equations with Quadratic Interactions from Raman Amplification in a Plasma	
14:30-15:00	**Michiaki Onodera (Tokyo Institute of Technology, Japan)** A Perturbation Theory of Overdetermined Boundary Value Problems	
15:00-15:30	**Tatsuki Mori (Graduate School of Engineering, Musashino University, Japan)** All Global Bifurcation Diagrams of Stationary Solutions to a 1D Phase Field Model	

SS 45	**Lie Symmetries, Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations** Organizer(s): Chaudry Masood Khalique, Wen-Xiu Ma, Maria Luz Gandarias	**CI1013**
14:30-15:00	**Letlhogonolo L Moleleki (North West University, So Africa)** A Study of (3+1)-Dimensional Generalized KP-Boussinesq Equation	
15:00-15:30	**Sivenathi S Mbusi (North-West University, So Africa)** Noether Symmetries of a Generalized Coupled Lane-Emden-Klein-Gordon-Fock System with Central Symmetry	

SS 56	**Variational Methods for Nonlinear PDEs** Organizer(s): Kanishka Perera, Pasquale Candito, Roberto Livrea	**ST2005**
14:00-14:30	**Vincenzo Ferone (Università di Napoli Federico II, Italy)** Uniqueness for a Class of Nonlinear Elliptic Equations with Lower Order Terms	
14:30-15:00	**Serena Dipierro (University of Western Australia, Australia)** Long-Range Phase Transition Equations	
15:00-15:30	**Hossein Tehrani (UNLV, USA)** On Existence Results for Semilinear Heterogeneous Problems in $\mathbb{R}^2$ Involving Critical Nonlinearities of Trudinger-Moser Type	
15:30-16:00	**Giuseppina D'Aguì (University of Messina, Italy)** Nonlinear Dirichlet Problem with the Anisotropic Laplacian Operator	

SS 61	**Qualitative Properties and Numerical Approximations of PDE Systems Which Govern Fluid Flows and Flow-Structure Interactions** Organizer(s): George Avalos, Pelin Guven Geredeli	**MO207**
14:00-14:30	**Lorena Bociu (NC State University, USA)** Analysis of a Multiscale Model Based on the Coupling of ODEs and PDEs for Tissue Perfusion	
14:30-15:00	**Yanqiu Guo (Florida International University, USA)** Analysis of a Rotationally Constrained Convection Model	
15:00-15:30	**George Avalos (University of Nebraska-Lincoln, USA)** Polynomial Decay Properties of Multi-Layered Elastic-Thermal Interactions	
15:30-16:00	**Weinan Wang (University of Arizona, USA)** Existence and Uniqueness of Solutions to a Model Describing Gas Dynamics	

SS 65	**Nonlinear Evolution Equations and Related Topics** Organizer(s): Goro Akagi, Michinori Ishiwata, Mitsuharu Otani	**ST2002**
14:00-14:30	**Monica Marras (University of Cagliari, Italy)** Qualitative Behavior of Solutions to a Class of Keller-Segel System	
14:30-15:00	**Yutaro Chiyo (Tokyo University of Science, Japan)** Existence of Bounded Classical Solutions to a Chemotaxis System Modeling Tumor Angiogenesis	
15:00-15:30	**Yuya Tanaka (Tokyo University of Science, Japan)** Blow-Up in a Generalized Diffusive Lotka–Volterra Competition Model with Chemotaxis	
15:30-16:00	**Tomomi Yokota (Tokyo University of Science, Japan)** Global Dynamics in a Degenerate Chemotaxis Model for Tumor Invasion	

SS 71	**At the Edge of Ellipticity** Organizer(s): Fabiana Leoni, Isabeau Birindelli, Sergio Polidoro	**LH136**
14:00-14:30	**Isabeau Birindelli (Sapienza Università di Roma, Italy)** FKPP Equations with Degenerate Diffusion: Traveling Waves and First Considerations	
14:30-15:00	**Enea Parini (Aix Marseille Universite, France)** Reverse Faber-Krahn Inequality for a Truncated Laplacian Operator	
15:00-15:30	**Federica Sani (University of Modena and Reggio Emilia, Italy)** Asymptotics for a Class of Parabolic Equations with Critical Nonlinearities	
15:30-16:00	**Kevin R Payne (Università di Milano, Italy)** Comparison Principles for General Potential Theories and Fully Nonlinear PDEs with Directionality	

SS 73	**Data-Driven Methods in Dynamical Systems** Organizer(s): Ruhui Jin, Shi Chen, Qin Li	**MO209**
14:00-14:30	**Victor Churchill (The Ohio State University, USA)** Learning the Evolution of Unknown Systems Via Deep Neural Networks	
14:30-15:00	**Changhong Mou (University of Wisconsin-Madison, USA)** Combining Stochastic Parameterized Reduced-Order Models with Machine Learning for Data Assimilation and Uncertainty Quantification with Partial Observations	
15:00-15:30	**Yinling Zhang (University of Wisconsin Madison, USA)** A Causality-Based Learning Approach for Discovering the Underlying Dynamics of Complex Systems from Partial Observations with Stochastic Parameterization	
15:30-16:00	**Tulin Kaman (University of Arkansas, USA)** Advancements in Reduced Order Modeling and Physics-Informed Neural Networks for Solving Large Scale Partial Differential Equations	

SS 74	**Local and Nonlocal Fully Nonlinear Partial Differential Equations of Elliptic and Parabolic Type** Organizer(s): Fernando Charro, Pablo Raul Stinga	**LH104**
14:00-14:30	**Maja Taskovic (Emory University, USA)** On a Binary-Ternary Boltzmann Equation	
14:30-15:00	**Logan Stokols (Duke University, USA)** SQG on Bounded Domains	
15:00-15:30	**Teresa Isernia (Università Politecnica delle Marche, Italy)** Partial Regularity for Elliptic and Parabolic Systems with Orlicz Growth	
15:30-16:00	**Daniel Restrepo (University of Texas at Austin, USA)** A Diffuse Interface Soap Film Capillarity Model	

SS 90	**Recent Advances in Wavelet Analysis, PDEs and Dynamical Systems** Organizer(s): Emanuel Guariglia, Rodrigo Capobianco Guido	MO206
14:00-14:30	**Kandhasamy Tamilvanan (R.M.K. Engineering College, India)** Approximate Finite Dimensional Additive Mappings in Modular Spaces	
14:30-15:00	**Kandhasamy Tamilvanan (R.M.K. Engineering College, India)** Ulam Hyers Stabilities of the Euler Lagrange Jensen (A,B) Orthogonal Cubic Functional Equations in Banach Spaces	
15:00-15:30	**Gabriel José Pellisser Dalalana (São Paulo State University (UNESP), Brazil, Brazil)** Comparing Wavelet Families for Edge Detection in Digital Images	
15:30-16:00	**Sripathy Budhi (Vellore Institute of Technology, Vellore, India)** Solution of Non-Linear Fractional Vander Pol Equation Through Boubaker Wavelets	

CS 1	**ODEs and Applications**	MO205
14:00-14:20	**Yanfang Liu (George Washington University, USA)** Deterministic-Statistical Approach for Moving Sources with Sparse Partial Data	
14:20-14:40	**Md Rafi As Sadeq Ibn Emran (Western Kentucky University, USA)** Revisiting the Direct Fourier Filtering Technique for the Boundary Damped Wave Equation	
14:40-15:00	**Kei Fong Lam (Hong Kong Baptist University, Hong Kong)** Scalar Auxiliary Variable Schemes for Cahn-Hilliard Systems with Mass Source	
15:00-15:20	**Melusi Khumalo (University of South Africa, So Africa)** Common Attractors of Generalized Iterated Function Systems	
15:20-15:40	**Valery Gaiko (United Institute of Informatics Problems, National Academy of Sciences of Belarus, Belarus)** Limit Cycles and Strange Attractors of Multi-Parameter Dynamical Systems	

CS 2	**PDEs and Applications**	**LH108**
14:00-14:20	**Olha Sus (Tufts University, USA)** Inverse Dynamic Problem for the 1-D Dirac System on Finite Metric Tree Graphs and The Leaf Peeling Algorithm	
14:20-14:40	**Gavin Glenn (Purdue University, USA)** Diffusion Generated Motion by Mean Curvature of a Space Curve	
14:40-15:00	**Abhinandan Chowdhury (Savannah State University, USA)** Memory Effects for the Heat Conductivity of Random Suspension of Spheres by Using Stochastic Functional Expansions	
15:00-15:20	**Jen-Hsu Chang (National Defense University, Taiwan)** Real Line Solitons of the BKP Equation	
15:20-15:40	**Salim Messaoudi (University of Sharjah, United Arab Emirates)** On a Thermoelastic Timoshenko System Without the Second Spectrum: Existence and Stability	
15:40-16:00	**Tomasz W Dlotko (University of Silesia, Poland)** Sectorial Equations on Fractional Power Scales	

SS 3	**Dynamics of ODES and Nonlinear Parabolic Systems** Organizer(s): Julian Lopez-Gomez, Fabio Zanolin	**LH131**
16:30-17:00	**J. Lopez-Gomez (Complutense University of Madrid, Spain)** Nodal Solutions for a Class of Degenerate BVPs	
17:00-17:30	**Andrea Tellini (Universidad Politécnica de Madrid, Spain)** On the Number of Steady-States for an Indefinite Problem Arising in Population Dynamics	
17:30-18:00	**Kazuhiro Takimoto (Hiroshima University, Japan)** Blowup Rate Near the Boundary of Boundary Blowup Solutions to K-Hessian Equation and K-Curvature Equation	
18:00-18:30	**Santiago Cano-Casanova (Universidad Pontificia Comillas, Spain)** Positive Solutions of Elliptic Eigenvalue Problems and Heterogeneous Logistic Problems with Glued Dirichlet-Neumann Mixed Boundary Conditions	

SS 5	**Recent Results in Nonlinear PDEs** Organizer(s): Vincenzo Ambrosio, Teresa Isernia	**LH111**
16:30-17:00	**Jacopo Schino (North Carolina State University, USA)** Normalized Solutions to Polyharmonic Equations with Hardy-Type Potentials Via a Nehari–Pohožaev Approach	
17:00-17:30	**Stefano Biagi (Dipartimento di Matematica, Politecnico di Milano, Italy)** A Brezis-Oswald Approach for Mixed Local and Nonlocal Operators	
17:30-18:00	**Zu Gao (Wuhan University of Technology, Peoples Rep of China)** Gradient Bounds/Estimates for Solutions to Some Nonlinear Elliptic Equations and Parabolic Equations	
18:00-18:30	**Rakesh Arora (Indian Institute of Technology, Varanasi, India)** Existence and Regularity Results for a Class of Parabolic Problems with Double Phase Flux of Variable Growth	

SS 7	**Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations and Related Fields** Organizer(s): Danielle Hilhorst, Yoshihisa Morita, Junping Shi	**LH132**
16:30-17:00	**Yi Li (John Jay College of Criminal Justice, CUNY, USA)** Monotone Properties of the Eigenfunction of Neumann Problems	
17:00-17:30	**Toshiyuki Ogawa (Meiji University, Japan)** Pattern Dynamics Appearing on Compact Metric Graph	
17:30-18:00	**Yuta Ishii (National Institute of Technology, Ibaraki College, Japan)** Spiky Patterns for the Schnakenberg Model on a Star Shaped Graph	
18:00-18:30	**Paolo Piersanti (Indiana University Bloomington, USA)** Modelling and Analysis of Grounded Shallow Ice Sheets	

SS 8	**Propagation Phenomena in Reaction-Diffusion Systems** Organizer(s): Hirokazu Ninomiya, Masaharu Taniguchi	**LH139**
16:30-17:00	**Toru Kan (Osaka Metropolitan University, Japan)** On the Stability and Behavior of Solutions of the Allen-Cahn-Nagumo Equation	
17:00-17:30	**Ming Mei (McGill University and Champlain College, Canada)** Sharp Traveling Waves: Burgers Equations Vs Fisher-KPP Equations	
17:30-18:00	**Hirokazu Ninomiya (Meiji University, Japan)** Dynamics of Area-Preserving Curvature Flow of a Plane Curve in an Inhomogeneous Medium	

SS 10	**Sharp Inequalities and Nonlinear Differential Equations** Organizer(s): Bernhard Ruf, Futoshi Takahashi, Federica Sani	**LH141**
16:30-17:00	**Luigi Fontana (Università di Milano-Bicocca, Italy)** On the Solutions of Poisson Equation in $\mathbb{R}^N$	
17:00-17:30	**Asuka Takatsu (Tokyo Metropolitan University, Japan)** Geometric Properties of Sliced Wasserstein Metric	
17:30-18:00	**Federica Sani (University of Modena and Reggio Emilia, Italy)** Extremal Functions for Adams Inequalities with Navier Boundary Conditions	
18:00-18:30	**Jianjun Zhang (Chongqing Jiaotong University, Peoples Rep of China)** Concentrating Bound States for Singularly Perturbed Nonlinear Dirichlet Problems Involving Critical Growth	
18:30-19:00	**Enea Parini (Aix Marseille Universite, France)** On the Moser-Trudinger Inequality in Fractional Sobolev-Slobodeckij Spaces	

SS 18	**Advanced Methodologies in Mathematical Materials Science and Biology** Organizer(s): Toyohiko Aiki, Adrian Muntean	**LH143**
16:30-17:00	**Masaaki Mizukami (Kyoto University of Education, Japan)** Convergence of Solutions for a Two-Species Chemotaxis Model to Those for the Lotka–Volterra Competition Model	
17:00-17:30	**Shunsuke Kurima (Tokyo University of Science, Japan)** Global Existence of Solutions to a Singular Nonlocal Phase Field System with Inertial Term	
17:30-18:00	**Makoto Okumura (Konan University, Japan)** A Structure-Preserving Scheme for the Cahn-Hilliard Equation with Dynamical Boundary Conditions Based on the Discrete Variational Derivative Method	
18:00-18:30	**Takeshi Fukao (Ryukoku University, Japan)** On a Variational Inequality of Bingham and Navier–Stokes Type	

SS 19	**Stochastic Partial Differential Equations** Organizer(s): Benjamin Gess, Michael Röckner	**CI1007**
16:30-17:00	**Dejun Luo (Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Peoples Rep of China)** On the Boussinesq Hypothesis for a Stochastic Proudman-Taylor Model	
17:00-17:30	**Andre Schenke (Courant Institute of Mathematical Sciences, USA)** Convex Integration Techniques in Stochastic Fluid Dynamics	
17:30-18:00	**Benjamin D Seeger (University of Texas at Austin, USA)** Mean Field Game Systems with Common Noise and Degenerate Idiosyncratic Noise	
18:00-18:30	**Alexander Vogler (TU Berlin, Germany)** Approximation of Optimal Feedback Controls for Stochastic Reaction-Diffusion Equations	
18:30-19:00	**Deng Zhang (Shanghai Jiao Tong University, Peoples Rep of China)** Multi Solitary Waves to Stochastic Nonlinear Schroedinger Equations	

SS 21	**Evolution Equations and Integrable Systems** Organizer(s): Alex Himonas, Curtis Holliman, Fangchi Yan	**ST1009**
16:30-17:00	**Gerson Petronilho (Universidade Federal de São Carlos, Brazil)** The Cauchy Problem of a Third-Order Dispersive Camassa-Holm Equation with Cubic Nonlinearities	
17:00-17:30	**Alex Himonas (University of Notre Dame, USA)** Initial-Boundary Value Problems for Evolution Equations Via the Fokas Method	

SS 27	**Recent Trends in Navier-Stokes Equations, Euler Equations, and Related Problems** Organizer(s): Sarka Necasova, Reimund Rautmann, Werner Varnhorn	**LH110**
16:30-17:00	**Eduard Feireisl (Mathematical Institute, Czech Academy of Sciences, Czech Rep)** On the Motion of Several Small Rigid Bodies in a Viscous Incompressible Fluid	
17:00-17:30	**Milan Pokorny (Charles University, Czech Rep)** Homogenization of Navier–Stokes–Fourier System in Domains with Tiny Holes	
17:30-18:00	**Matteo Caggio (Institute of Mathematics of the Czech Academy of Sciences, Czech Rep)** On the High Compressible Limit for the Navier-Stokes-Korteweg Model with Density Dependent Viscosity	
18:00-18:30	**Sarka Necasova (Institute of Mathematics, Academy of Sciences, Czech Rep)** Energy Equality for the Compressible Primitive Equations with Vacuum	
18:30-19:00	**Tong Tang (Yangzhou University, Peoples Rep of China)** On Well-Posedness of Quantum Fluid Systems in the Class of Dissipative Solutions	

SS 28	**Qualitative Theory of Nonlinear Elliptic and Parabolic Equations** Organizer(s): Raul Manasevich, Satoshi Tanaka	**CI1012**
16:30-17:00	**Raul Manasevich (University of Chile, Chile)** On the Monotonicity of the Period for Some Equations with a P-Laplace Operator	
17:00-17:30	**Mieko Tanaka (Tokyo University of Science, Japan)** On the Antimaximum Principle for the P-Laplacian and Its Sublinear Perturbations	
17:30-18:00	**Kensuke Yoshizawa (Institute of Mathematics for Industry, Kyushu University, Japan)** Complete Classification of Planar P-Elasticae	

SS 36	**Stochastic Systems, SDEs/SPDEs, Games, Quantum-Computing and Storages** Organizer(s): Wanyang Dai	**MO205**
16:30-17:00	**Song Yao (University of Pittsburgh, USA)** Stochastic Control/Stopping Problem with Expectation Constraints	
17:00-17:30	**Michael Röckner (University of Bielefeld, Germany)** Asymptotics and Ergodicity of Nonlinear Distorted Brownian Motion and of Nonlinear Fokker-Planck Equations	
17:30-18:00	**Wanyang Dai (Nanjing University, Peoples Rep of China)** CNN and Machine Learning Based Simulation and Analysis for a Unified Backward SPDE with Application to a Strongly Nonlinear Case	
18:00-18:30	**Chao Zhu (University of Wisconsin-Milwaukee, USA)** Quantitative Contraction Rates for McKean-Vlasov Stochastic Differential Equationswith Multiplicative Noise	

SS 37	**Nonlinear Elliptic Problems in Geometry and Physics** Organizer(s): Jinmyoung Seok, Jaeyoung Byeon, Norihisa Ikoma	**LH107**
16:30-17:00	**Jongmin Han (Kyung Hee University, Korea)** On Topological Solutions of the Self-Dual Maxwell-Chern-Simons-Higgs Vortex Equations	
17:00-17:30	**Shuntaro Tsubouchi (University of Tokyo, Graduate School of Mathematical Sciences, Japan)** A Weak Solution to a $(1, P)$-Laplace Problem Is Continuously Differentiable	
18:00-18:30	**Kazunaga Tanaka (Waseda University, Japan)** Normalized Solutions for L2-Critical NLS	

SS 41	**Asymptotic Analysis and Bifurcations of Solutions for Nonlinear Models** Organizer(s): Yoshitsugu Kabeya, Jann-Long Chern	**CI1006**
16:30-17:00	**Jin Takahashi (Tokyo Institute of Technology, Japan)** Blow-Up of the Critical Norm for a Supercritical Semilinear Heat Equation	
17:00-17:30	**Kousuke Kuto (Waseda University, Japan)** On the Ratio of Population to Resources in the Diffusive Logistic Equation	
17:30-18:00	**Yoshitaro Tanaka (Future University Hakodate, Japan)** An Approximation by a Keller-Segel System for Nonlocal Fokker-Planck Equation in Bounded One-Dimensional Domain	
18:00-18:30	**Kota Ohno (Chuo University, Japan)** Chimera Behaviors in Nonlocally Coupled Oscillator System	
18:30-19:00	**Masaharu Nagayama (Hokkaido University, Japan)** On a Numerical Bifurcation Analysis of a Particle Reaction-Diffusion Model for a Motion of Two Self-Propelled Disks	

SS 42	**Regularity Results for Solutions of Nonlinear Systems and Applications** Organizer(s): Maria Ragusa, Christopher Goodrich, Andrea Scapellato	**MO206**
16:30-17:00	**Emanuel Guariglia (Wenzhou-Kean University)** Wavelets and Calculus of Variations in Image Processing	
17:00-17:30	**Maria Alessandra Ragusa (Univeristy of Catania, Italy)** On the Problem of Regularity for Minimizers of Nonquadratic Growth Functionals	
17:30-18:00	**Andrea Scapellato (University of Catania, Italy)** New Results on Anisotropic Singular Dirichlet Problems	

SS 45	**Lie Symmetries, Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations** Organizer(s): Chaudry Masood Khalique, Wen-Xiu Ma, Maria Luz Gandarias	**CI1013**
16:30-17:00	**Javed Siddique (Pennsylvania State University, York Campus, USA)** Capillarity and Partially Saturated Porous Material Dynamics	
17:00-17:30	**Zakaria Idriss Z Ali (University of South Africa, So Africa)** A Front Fixing Crank-Nicolson Finite Deference for the American Put Options Model	
17:30-18:00	**Oke O Adeyemo (North-West University, So Africa)** Soliton Solutions, Travelling Wave Solutions and Conserved Quantities for a Three-Dimensional Soliton Equation in Plasma Physics	
18:00-18:30	**Maria Luz Gandarias (University of Cadiz, Spain)** Finding Symmetry-Invariant Solutions of Partial Differential Equations by Application of a Multi-Reduction Conservation Law Method	
18:30-19:00	**Sameerah Jamal (University of the Witwatersrand, So Africa)** Partial Differential Equations: the Heat and Burgers' Equation	

SS 52	**Harmonic Analysis and Partial Differential Equations** Organizer(s): William Bray, Dorina Mitrea	**LH108**
16:30-17:00	**Donatella Danielli (Arizona State University, USA)** Space-Like Strong Unique Continuation for Some Fractional Parabolic Equations	
17:00-17:30	**Sarah Raynor (Wake Forest University, USA)** Neumann Boundary Regularity for Free Boundary Problems	
17:30-18:00	**Marcus Laurel (Baylor University, USA)** The Higher Order Regularity Problem with Data in Generalized Banach Function Spaces	
18:00-18:30	**Narek Hovsepyan (Rutgers University, USA)** Far Field Broadband Approximate Cloaking for the Helmholtz Equation with a Drude-Lorentz Refractive Index	

SS 56	**Variational Methods for Nonlinear PDEs** Organizer(s): Kanishka Perera, Pasquale Candito, Roberto Livrea	**ST2005**
16:30-17:00	**Enrico Valdinoci (University of Western Australia, Australia)** A Nonlocal Capillarity Theory	
17:00-17:30	**Mousomi Bhakta (Indian Institute of Science Education and Research, India)** Sharp Quantitative Stability of Poincare-Sobolev Inequality in the Hyperbolic Space	
17:30-18:00	**Anna Maria Candela (Università degli Studi di Bari Aldo Moro, Italy)** New "Critical" Thresholds for Some Quasilinear Elliptic Problems	
18:00-18:30	**Abdelkrim Moussaoui (Bejaia University, Algeria)** Constant Sign and Nodal Solutions for Singular Quasilinear Elliptic Problems	

SS 61	**Qualitative Properties and Numerical Approximations of PDE Systems Which Govern Fluid Flows and Flow-Structure Interactions** Organizer(s): George Avalos, Pelin Guven Geredeli	**MO207**
16:30-17:00	**Rasika L Mahawattege (University of Maryland Baltimore County, USA)** Fluid-Plate Interaction with Kelvin-Voigt Damping and Bending Moment at the Interface: Well-Posedness, Spectral Analysis, Uniform Stability	
17:00-17:30	**Ahmet Ozkan Ozer (Western Kentucky University, USA)** A Robust Model Reduction for the Boundary Feedback Stabilization of Piezoelectric Beams	
17:30-18:00	**Pelin Guven Geredeli (Iowa State University, USA)** Approximation Schemes for the Null Controllability of Structurally Damped Plate Dynamics	
18:00-18:30	**Shitao Liu (Clemson University, USA)** An Inverse Problem for the Mindlin–Timoshenko System	
18:30-19:00	**Madhumita Roy (University of Memphis, USA)** Global Attractors for Suspension Bridge Equation with Mixed Boundary Conditions	

SS 65	**Nonlinear Evolution Equations and Related Topics** Organizer(s): Goro Akagi, Michinori Ishiwata, Mitsuharu Otani	**ST2002**
16:30-17:00	**Maurizio Grasselli (Politecnico di Milano, Italy)** Multi-Component Cahn-Hilliard and Allen-Cahn Equations	
17:00-17:30	**Ciprian Gal (Florida International University, USA)** On Fractional in Time Diffusion Equations	
17:30-18:00	**Andrea Giorgini (Politecnico di Milano, Italy)** Recent Results for the Navier-Stokes-Cahn-Hilliard System with Unmatched Densities	
18:00-18:30	**Tomoyuki Oka (The University of Tokyo, Japan)** Homogenization Problem with Nonlinear Boundary Conditions and Its Applications to Optimal Design Problems	
18:30-19:00	**Kosuke Kita (Waseda University, Graduate School of Advanced Science and Engineering, Japan)** On Critical Phenomena for Nonlinear Heat Equations on Bounded Domains Characterized by Nonlinear Boundary Conditions	

SS 66	**Dynamics of Biological Materials Across Scales** Organizer(s): M. Greg Forest, Qi Wang	**MO201**
16:30-17:00	**Paula A Vasquez (University of South Carolina, USA)** Macro-Micro Simulations in Complex Biological Fluids Using GPU Computing	
17:00-17:30	**M. Greg Forest (UNC-CH, USA)** The Power of Weak Binding in Biology	
17:30-18:00	**Cole Gruninger (University of North Carolina at Chapel Hill, USA)** Benchmarking Immersed Boundary Models of Viscoelastic Flows in Complex Geometries	
18:00-18:30	**Yanxiang Zhao (George Washington University, USA)** Phase Field Modeling of Dictyostelium Discoideum Chemotaxis	

SS 71	**At the Edge of Ellipticity** Organizer(s): Fabiana Leoni, Isabeau Birindelli, Sergio Polidoro	**LH136**
16:30-17:00	**Boyan Sirakov (PUC-Rio, Brazil)** Regularity Estimates with Optimized Constants	
17:00-17:30	**Antonio Greco (University of Cagliari, Italy)** Symmetry and Monotonicity Results for Solutions of Semilinear PDEs in Sector-Like Domains	
17:30-18:00	**Giulio Galise (Sapienza Università di Roma, Italy)** Propagation of Minima for Nonlocal Operators	
18:00-18:30	**Fabiana Leoni (Sapienza Università di Roma, Italy)** Principal Eigenvalues for Fully Nonlinear Equations in Punctured Balls	

SS 73	**Data-Driven Methods in Dynamical Systems** Organizer(s): Ruhui Jin, Shi Chen, Qin Li	**MO209**
16:30-17:00	**Ke Chen (University of Maryland at College Park, USA)** Deep Operator Learning Lessens the Curse of Dimensionality for PDEs	
17:00-17:30	**Shi Chen (University of Wisconsin-Madison, USA)** Global Convergence of Gradient Descent for Multi-Layer ResNets with Homogeneous Activation Functions in the Mean-Field Regime	
17:30-18:00	**Shukai Du (University of Wisconsin-Madison, USA)** Fast, Low-Memory Methods for Radiative Transfer Via Hp-Adaptive Mesh Refinement	
18:00-18:30	**Ruhui Jin (UW-Madison, USA)** Tensor-Structured Sketching for Constrained Optimization	

SS 74	**Local and Nonlocal Fully Nonlinear Partial Differential Equations of Elliptic and Parabolic Type** Organizer(s): Fernando Charro, Pablo Raul Stinga	**LH104**
16:30-17:00	**Animesh Biswas (Iowa State University, USA)** Nonlocal Mean Curvature with Integrable Kernel	
17:00-17:30	**Farhan Abedin (Lafayette College, USA)** Perturbative Results for Parabolic Optimal Transport	
17:30-18:00	**Nurul Raihen (Stephen F Austin State University, USA)** Bifurcation in Regularized Two-Phase, Elliptic-Parabolic Free-Boundary Problems	

CS 3	**Modeling, Math Biology and Math Finance**	**LH139**
16:30-16:50	**Christine M Craib (University of California - Los Angeles, USA)** Increasing Complexity in Sexually-Transmitted Disease Models	
16:50-17:10	**Bertrand Ottino-Loffler (Rockefeller University, USA)** Tractable Signatures of Evolutionary Selection Methods	
17:10-17:30	**Dana Droz (North Carolina State University, USA)** Mathematical Modeling of BK Virus Infection in Kidney Transplant Recipients	
17:30-17:50	**Youngseok Chang (Korea University, Korea)** Impact of Prey Induced Dispersal on Stability in Predator–Prey Dynamics	
17:50-18:10	**Kwangjoong Kim (Kookmin University, Korea)** Coexistence of Predator-Prey Model with Directional Dispersal of Predator	
18:10-18:30	**Sarita Bugalia (Central University of Rajasthan, India)** Assessing Potential Insights of an Imperfect Testing Strategy: Parameter Estimation and Practical Identifiability Using Early COVID-19 Data in India	

SS 1	**Analysis of PDEs and Free Boundary Problems** Organizer(s): Stefano Biagi, Eugenio Vecchi, Serena Dipierro	**LH143**
8:00-8:30	**Fernando Charro (Wayne State University, USA)** Asymptotic Mean-Value Formulas for Nonlinear Equations	
8:30-9:00	**Farhan Abedin (Lafayette College, USA)** Hele-Shaw Flow and Parabolic Integro-Differential Equations	
9:00-9:30	**Vincenzo Ambrosio (Università Politecnica delle Marche, Italy)** The Nonlinear Fractional Relativistic Schrödinger Equation	
9:30-10:00	**Teresa Isernia (Università Politecnica delle Marche, Italy)** Multiplicity and Concentration Results for Some Nonlinear Schrödinger Equations with the Fractional P-Laplacian	

SS 7	**Emergence and Dynamics of Patterns in Nonlinear Partial Differential Equations and Related Fields** Organizer(s): Danielle Hilhorst, Yoshihisa Morita, Junping Shi	**LH132**
8:00-8:30	**Hideki Murakawa (Ryukoku University, Japan)** Discretization of a Model Governing the Motion of Two Cell Populations	
8:30-9:00	**Mabel Lizzy Rajendran (Queen's University Belfast, No Ireland)** Nonlocal Operators in Cancer Models	
9:00-9:30	**William C Troy (University of Pittsburgh, USA)** Spiral Solutions of the Koppel-Howard Lambda-Omega Reaction-Diffusion Equations	

SS 13	**Nonlinear Differential and Difference Equations with Applications to Population Dynamics** Organizer(s): Kunquan Lan, Elena Braverman, Gunog Seo	**CI1012**
8:30-9:00	**Rongsong Liu (University of Wyoming, USA)** Pause of Larval Development and Their Consequences for Stage-Structured Populations	
9:00-9:30	**Ananta Acharya (University of North Carolina Greensboro, USA)** Analysis of a Competitive Reaction-Diffusion Population Dynamics Model with Density Dependent Dispersal on the Boundary	
9:30-10:00	**Wei Feng (University of North Carolina Wilmington, USA)** Elimination, Permanence, and Exclusion in a Competition Model Under Allee Effects	

SS 15	**Recent Advances on Population Models in Ecology and Epidemiology** Organizer(s): Junping Shi, Zhisheng Shuai, Yixiang Wu	**MO209**
8:00-8:30	**Rachel Leander (Middle Tennessee State University, USA)** Optimal Impulse Control of a Late-Season Model of a West Nile Virus Epidemic	
8:30-9:00	**Yurij Salmaniw (University of Alberta, Canada)** Modelling Habitat Loss with Partial Differential Equations: Degradation, Destruction and Fragmentation	
9:00-9:30	**David Chan (VCU, USA)** The Effect of Global Warming on Plant Population Dynamics on Barrier Islands	
9:30-10:00	**Ananta Acharya (University of North Carolina Greensboro, USA)** The Diffusive Lotka-Volterra Competition Model in Fragmented Patches I: Coexistence	

SS 17	**Nonlinear Models in Kinetic Theory, Collective Behavior, and Fluid Dynamics** Organizer(s): Christopher Henderson, Stanley Snelson, Andrei Tarfulea	**LH131**
8:00-8:30	**Bin Cheng (University of Surrey, England)** Global Weak Solutions to a Hybrid Vlasov-MHD Model for Plasma Dynamics	
8:30-9:00	**Changhui Tan (University of South Carolina, USA)** Collective Behaviors in Macroscopic Swarming Dynamics	
9:00-9:30	**Ioakeim Ampatzoglou (New York University, USA)** Moment Estimates and Global Well-Posedness for the Binary-Ternary Boltzmann Equation	
9:30-10:00	**Weinan Wang (University of Arizona, USA)** Well-Posedness and Gevrey Regularity of Some Electrodiffusion Models	

SS 19	**Stochastic Partial Differential Equations** Organizer(s): Benjamin Gess, Michael Röckner	**CI1007**
8:00-8:30	**Daniel Heydecker (MPI, Leipzig, Germany)** The Porous Medium Equation: Rescaled Zero-Range Process, Large Deviations and Gradient Flow	
8:30-9:00	**Alexander J Dunlap (New York University Courant Insitute, USA)** The Nonlinear Stochastic Heat Equation in the Critical Dimension	
9:00-9:30	**Arnaud Debussche (Ecole Normale Supérieure de Rennes, France)** Global Well-Posedness of the 2D Nonlinear Schrödinger Equation with Multiplicative Spatial White Noise on the Full Space	
9:30-10:00	**Hao Shen (University of Wisconsin - Madison, USA)** Invariant Measure of the 2D Yang-Mills Langevin Dynamic	

SS 24	**Geometric Methods in Spectral Theory of Traveling Waves and Patterns** Organizer(s): Graham Cox, Yuri Latushkin, Alim Sukhtayev	**LH139**
8:00-8:30	**Peter Howard (Texas A & M University, USA)** Oscillation Theory and Instability of Nonlinear Waves	
8:30-9:00	**Graham Cox (Memorial University of Newfoundland, Canada)** Turing Instability Via the Generalized Maslov Index	
9:00-9:30	**Alim Sukhtayev (Miami University, USA)** Fredholm Determinants, Evans Functions and Maslov Indices	
9:30-10:00	**Selim Sukhtaiev (Auburn University, USA)** Resolvent Expansions for Self-Adjoint Operators Via Boundary Triplets	

SS 27	**Recent Trends in Navier-Stokes Equations, Euler Equations, and Related Problems** Organizer(s): Sarka Necasova, Reimund Rautmann, Werner Varnhorn	**LH110**
8:00-8:30	**Jiri Neustupa (Czech Academy of Sciences, Institute of Mathematics, Czech Rep)** A Weak Solvability of the Stationary MHD System with Inhomogeneous Boundary Conditions	
8:30-9:00	**Minsuk Yang (Yonsei University, Korea)** Liouville Type Theorems for the Stationary MHD Equations	
9:00-9:30	**Songsong Lu (School of Mathematics, Sun Yat-Sen University, Peoples Rep of China)** Strongly Compact Strong Trajectory Attractors for the Nonautonomous 3D Navier-Stokes Equations	
9:30-10:00	**Ana Silvestre (Instituto Superior Técnico, University of Lisbon, Portugal)** Optimal Boundary Control Problem for Steady Navier-Stokes Equations with Regularized Directional Do-Nothing Boundary Condition	

SS 29	**Reactions Diffusion Equations with Applications to Spatial Ecology and Infectious Disease** Organizer(s): Rachidi Salako, King Yeung Lam, Yuan Lou	**ST2005**
8:00-8:30	**Xueying Wang (Washington State University, USA)** A Reaction-Advection-Diffusion Model of Cholera Epidemics with Seasonality and Human Behavior Change	
8:30-9:00	**Jin Wang (University of Tennessee at Chattanooga, USA)** Reaction-Diffusion Models for the Spatial Spread of Cholera	
9:00-9:30	**Junping Shi (College of William and Mary, USA)** Modelling Phytoplankton-Virus Interactions: Phytoplankton Blooms and Lytic Virus Transmission	
9:30-10:00	**Yixiang Wu (Middle Tennessee State University, USA)** Analysis of a Reaction-Diffusion Susceptible-Infected-Susceptible Epidemic Patch Model Incorporating Movement Inside and Among Patches	

SS 30	**Optimal Control of Finite and Infinite Dimensional Dynamic Systems and Their Applications** Organizer(s): Nasir U. Ahmed, Stanislaw Migorski, Saroj K. Biswas	**LH107**
8:00-8:30	**Rafal Kamocki (University of Lodz, Poland)** Necessary Optimality Conditions for a Fractional Integro-Differential Optimal Control Problem.	
8:30-9:00	**Marek Majewski (University of Lodz, Poland)** Optimal Control Problem Governed by a Fractional Goursat-Darboux Problem.	
9:00-9:30	**Valentina Taddei (University of Modena and Reggio Emilia, Italy)** Controllability in Dynamics of Diffusion Processes Without Compactness	
9:30-10:00	**Michael E Filippakis (University of Piraeus, Greece)** Decay for a Klein-Gordon-Schrödinger System with Locally Distributed Damping	

SS 34	**Variational, Topological and Set-Valued Methods for Nonlinear Differential Problems** Organizer(s): Giuseppina D'Aguì, Angela Sciammetta, Patrick Winkert, Eleonora Amoroso	**ST1009**
8:00-8:30	**Kanishka Perera (Florida Institute of Technology, USA)** Critical Growth Double Phase Problems	
8:30-9:00	**Anna Maria Candela (Università degli Studi di Bari Aldo Moro, Italy)** Some Results for Perturbed (P,Q)-Quasilinear Elliptic Problems	
9:00-9:30	**Pasquale Candito (Mediterranean University of Reggio Calabria, Italy)** Existence Results for Second Order Nonlinear ODEs	
9:30-10:00	**Monica Marras (University of Cagliari, Italy)** Properties of Solutions to a Class of Parabolic and Hyperbolic Problems	

SS 43	**Control and Long Time Dynamics of Evolutionary Partial Differential Equations** Organizer(s): Louis Tebou, Luz de Teresa	**MO206**
8:00-8:30	**Ciprian Gal (Florida International University, USA)** Carleman Inequalities for Wave Equations with Oscillatory Boundary Conditions and Application	
8:30-9:00	**Karlygash Nurtazina (L.N. Gumilyov Eurasian National University, Kazakhstan)** Control and Identification Problem for the Distributed Parameter System on the Graph-Star	
9:00-9:30	**Pelin Guven Geredeli (Iowa State University, USA)** Wellposedness of Multilayered Structure Interaction PDE Systems	
9:30-10:00	**Ahmet Ozkan Ozer (Western Kentucky University, USA)** Preliminary Stability Result for Novel Serially-Connected Magnetizable Piezoelectric and Elastic Beam Designs	

SS 45	**Lie Symmetries, Conservation Laws and Other Approaches in Solving Nonlinear Differential Equations** Organizer(s): Chaudry Masood Khalique, Wen-Xiu Ma, Maria Luz Gandarias	**CI1013**
8:00-8:30	**Karabo K Plaatjie (North-West University, So Africa)** A Study of Generalized (2+1)-Dimensional Equal-Width Partial Differential Equation of Engineering	
8:30-9:00	**Jean Yves J Semegni (North-West University, So Africa)** Analysis of a Dynamical System Describing the Evolution of HIV/AIDS in a Population	

SS 50	**Nonlinear Elliptic PDEs: Analysis and Computations** Organizer(s): Florin Catrina, Zhi-Qiang Wang, Jianxin Zhou	**LH104**
8:30-9:00	**Manuel Del Pino (University of Bath, England)** Singularity Formation for the Keller-Segel System in the Plane	
9:00-9:30	**Wenrui Hao (Penn State University, USA)** Homotopy Methods for Solving Nonlinear PDEs	
9:30-10:00	**David Costa (UNLV, USA)** Heterogeneous Radially Symmetric Semilinear Elliptic Equations with Critical Nonlinearities in $\mathbb{R}^2$	

SS 51	**Phase Field Models and Real World Applications, in memory of Gunduz Caginalp** Organizer(s): Andrea Giorgini, Maurizio Grasselli, Alain Miranville	**LH136**
8:00-8:30	**Emre Esenturk (Oxford University, England)** Interfacial Free Energy Ansiotropy in Lennard-Jones Systems: a Phase Field Approach	
8:30-9:00	**Andreas Aristotelous (The University of Akron, USA)** Discontinuous Galerkin Methods for Growth Cahn-Hilliard Models	
9:00-9:30	**Amanda E Diegel (Mississippi State University, USA)** C0 Interior Penalty Methods for Phase Field Crystal Equations	
9:30-10:00	**Morgan Pierre (Universite de Poitiers, France)** Gradient Stability of High Order BDF Methods and Some Applications	

SS 66	**Dynamics of Biological Materials Across Scales** Organizer(s): M. Greg Forest, Qi Wang	**MO201**
8:00-8:30	**Chun Liu (Illinois Institute of Technology, USA)** Generalized Law of Mass Action (LMA) with Energetic Variational Approaches (EnVarA)	
8:30-9:00	**Yuan Young (New Jersey Institute of Technology, USA)** A Model for Microtubule-Mediated Deformation of a Cellular Nucleus	
9:00-9:30	**Min Wu (Worcester Polytechnic Institute, USA)** Modeling Viscoelasticity and Mechanical Feedback on Growth in Tumor Spheroids	
9:30-10:00	**Paolo Piersanti (Indiana University Bloomington, USA)** Modelling and Dynamics of a Three-Dimensional Virus Capsid	

SS 75	**Recent Developments in Nonlinear PDEs, Non-Uniformly Elliptic Problems and Related Topics** Organizer(s): Alessio Fiscella, João Vitor da Silva	**MO205**
8:00-8:30	**Pablo Raul Stinga (Iowa State University, USA)** Surfaces of Minimum Curvature Variation	
8:30-9:00	**Donatella Danielli (Arizona State University, USA)** Regularity Properties in Obstacle-Type Problems for Higher-Order Fractional Powers of the Laplacian	
9:00-9:30	**Angel Crespo-Blanco (Technische Universitaet Berlin, Germany)** On Logarithmic Double Phase Problems	
9:30-10:00	**Rakesh Arora (Indian Institute of Technology, Varanasi, India)** A Large Class of Nonlocal Elliptic Equations with Singular Nonlinearities	

SS 77	**Analysis and Applications of Nonlinear Elliptic and Parabolic Equations** Organizer(s): Yuanzhen Shao, Patrick Guidotti, Hengrong Du	**LH141**
8:00-8:30	**Chun Liu (Illinois Institute of Technology, USA)** Temperature Effects and Ideal Gas Stokes Flow	
8:30-9:00	**Changyou Wang (Purdue University, USA)** Heat Flow of S-Harmonic Maps	
9:00-9:30	**Ning Ju (Oklahoma State University, USA)** Particle Trajectories of Large Scale Oceanic Flow	
9:30-10:00	**Tao Huang (Wayne State University, USA)** Weak Compactness Property of Simplified Nematic Liquid Crystal Flows in Dimension Two	

SS 80	**Inverse Problems and Imaging** Organizer(s): Ru-Yu Lai, Gunther Uhlmann, Yang Yang	**LH111**
8:00-8:30	**Teemu Saksala (North Carolina State University, USA)** Three Travel Time Inverse Problems on Simple Riemannian Manifolds	
8:30-9:00	**Yuzhou Zou (Northwestern University, USA)** Boundary Triplets and Sobolev Spaces Associated to Degenerate Elliptic Operators	
9:00-9:30	**Shitao Liu (Clemson University, USA)** Recover All Coefficients in Second-Order Hyperbolic Equations from Finite Sets of Boundary	
9:30-10:00	**Yiran Wang (Emory University, USA)** Analysis and Reduction of Metal Artifacts in X-Ray Tomography	

SS 81	**Stochastic Modeling in Biological, Physical and Social Sciences: Theory and Applications** Organizer(s): Wai-Tong (Louis) Fan, Krutika Tawri, Chuntian Wang, Roger Temam	**MO208**
8:30-9:00	**Xiaoying Han (Auburn University, USA)** The Lottery Competition Model in Stochastic Environments	
9:00-9:30	**Eric Foxall (University of British Columbia, Okanagan Campus, Canada)** Takeover, Fixation and Identifiability in Finite Neutral Genealogy Models	
9:30-10:00	**Honghu Liu (Virginia Tech, USA)** Transitions in Stochastic Non-Equilibrium Systems: Efficient Reduction and Analysis	

CS 2	**PDEs and Applications**	**MO206**
8:20-8:40	**Adel M Al-Mahdi (King Fahd University of Petroleum and Minerals, Saudi Arabia)** Some New Results and Developments on the Stabilization of Swelling Soils by Employing Different Damping Mechanisms	
8:40-9:00	**Shilpa Gupta (BITS Pilani, Pilani Campus, India)** Generalized Choquard Schrödinger Equation with Vanishing Potential in Homogeneous Fractional Musielak Sobolev Spaces	
9:00-9:20	**Kush Kinra (Indian Institute of Technology Roorkee, India)** Random dynamics of 2D stochastic Naiver-Stokes equations on the whole space	

SS 1	**Analysis of PDEs and Free Boundary Problems** Organizer(s): Stefano Biagi, Eugenio Vecchi, Serena Dipierro	**LH143**
14:00-14:30	**Giulio Tralli (University of Padova, Italy)** Gauge Balls and Heisenberg Groups: Rigidity Via Horizontal Curvature	
14:30-15:00	**Andrea Pinamonti (University of Trento, Italy)** The Asymptotic P-Poisson Equation As $P \to \infty$ in Carnot-Caratheodory Spaces	
15:00-15:30	**Annunziata Loiudice (University of Bari, Italy)** Quasilinear Critical Equations with Hardy Term on Carnot Groups	
15:30-16:00	**Dario D Monticelli (Politecnico di Milano, Italy)** On the Critical P-Laplace Equation	

SS 13	**Nonlinear Differential and Difference Equations with Applications to Population Dynamics** Organizer(s): Kunquan Lan, Elena Braverman, Gunog Seo	**CI1012**
14:00-14:30	**Gail Wolkowicz (McMaster University, Canada)** Different Derivation Techniques for Population Growth Difference Equation Models and Their Dynamics	
14:30-15:00	**Yang Kuang (Arizona State University, USA)** Rich and Realistic Dynamics of Resource Quality Based Population Models	
15:00-15:30	**Olga Vasilyeva (Grenfell Campus, Memorial University of Newfoundland, Canada)** Two Examples of Using Phase Plane Analysis in Nonlinear RDA Models	
15:30-16:00	**Zhisheng Shuai (University of Central Florida, USA)** Population Dynamics in Heterogeneous Networks	

SS 15	**Recent Advances on Population Models in Ecology and Epidemiology** Organizer(s): Junping Shi, Zhisheng Shuai, Yixiang Wu	**MO209**
14:00-14:30	**Yoshihisa Morita (Ryukoku University, Japan)** Front Propagation for the Bistable Reaction-Diffusion Equation on Unbounded Metric Graphs	
14:30-15:00	**Xiaojie Hou (University of North Carolina Wilmington, USA)** Traveling Pulses and Their Bifurcations in a Diffusive Rosenzweig MacArthur Model	
15:00-15:30	**Daniel P Maes (University of Michigan–Ann Arbor, USA)** The Effects of Intransitive Loops of Competition on the Stability of Ecological Communities	
15:30-16:00	**Ursula Trigos-Raczkowski (University of Michigan, Ann Arbor, USA)** Coexistence Due to Life History Variation Revisited in Models with Explicit Patch Aging	

SS 16	**Celestial Mechanics and Hamiltonian Systems** Organizer(s): Manuele Santoprete, Cristina Stoica, Zhifu Xie, Marian Gidea	**MO207**
14:00-14:30	**Tere M-Seara (Universitat Politecnica de Catalunya, Spain)** Chaos and Oscillatory Orbits in the Three Body Problem	
14:30-15:00	**Pau Martin (Universitat Politecnica de Catalunya, Spain)** Invariant Manifolds of Degenerate Tori and Double Parabolic Orbits to Infinity in the $(N+2)$-Body Problem	
15:00-15:30	**Inmaculada Baldoma (Universitat Politecnica de Catalunya, Spain)** Coorbital Chaotic and Homoclinic Phenomena in the Restricted 3 Body Problem	
15:30-16:00	**Bhanu Kumar (Jet Propulsion Laboratory, California Institute of Technology, USA)** Europa-Induced Overlapping of Secondary Resonances in the 4:3 Jupiter-Ganymede Unstable Resonant Orbit Family	

SS 17	**Nonlinear Models in Kinetic Theory, Collective Behavior, and Fluid Dynamics** Organizer(s): Christopher Henderson, Stanley Snelson, Andrei Tarfulea	**LH131**
14:00-14:30	**Amelie Loher (University of Cambridge, England)** Regularity Theory for Kinetic Integro-Differential Equations	
14:30-15:00	**Yuzhe Zhu (University of Cambridge, England)** Boundary Regularity for Kinetic Equations	
15:00-15:30	**William Golding (University of Texas at Austin, USA)** Global-In-Time Well-Posedness of the Homogeneous Landau-Coulomb Equation for Small L^P Initial Data	
15:30-16:00	**Logan Stokols (Duke University, USA)** Continuity for Nonlocal Hypoelliptic Kinetic Equations	

SS 24	**Geometric Methods in Spectral Theory of Traveling Waves and Patterns** Organizer(s): Graham Cox, Yuri Latushkin, Alim Sukhtayev	**LH139**
14:00-14:30	**Nils Waterstraat (MLU Halle-Wittenberg, Germany)** K-Theoretic Methods in the Computation of the Maslov-Index	
14:30-15:00	**Maciej Starostka (Martin Luther University Halle-Wittenberg, Germany)** Arnold Conjecture on CP^N As a Bifurcation Problem.	
15:00-15:30	**Mitchell Curran (The University of Sydney, Australia)** Hamiltonian Spectral Flows, the Maslov Index, and The Stability of NLS Standing Waves	
15:30-16:00	**Atanas Stefanov (University of Alabama - Birmingham, USA)** Solitary Waves in the NLS System of the Third-Harmonic Generation	

SS 25	**Mathematical Modeling and Quantitative System Pharmacology** Organizer(s): Christopher Denaro, Benedetto Piccoli	**CI1007**
14:00-14:30	**Jeff Barrett (Aridhia Bioinformatics, USA)** Crowdsourcing Patient Engagement in Parkinson's Disease: a Patient Swarm Approach to Refine the Development of a Quantitative Systems Pharmacology (QSP) Model Via a Digital Research Environment (DRE)	
14:30-15:00	**Stanca Ciupe (Virginia Tech, USA)** Understanding the Antiviral Effects of RNAi-Based Therapy on Chronic Hepatitis B Infection	
15:00-15:30	**Hanwen Wang (Johns Hopkins Univerisity, USA)** Predicting Efficacy of Cancer Immunotherapy Using a Quantitative Systems Pharmacology Model	
15:30-16:00	**Tongli Zhang (University of Cincinnati, USA)** Combing Multidimensional Data to Guide Personalized Diagnosis and Treatment	

SS 27	**Recent Trends in Navier-Stokes Equations, Euler Equations, and Related Problems** Organizer(s): Sarka Necasova, Reimund Rautmann, Werner Varnhorn	**LH110**
14:00-14:30	**Zdenek Skalak (Czech Technical University, Czech Rep)** A Geometric Criterion for the Navier-Stokes Equations in Terms of Velocity Direction	
14:30-15:00	**Petr Kucera (Czech Technical University, Czech Rep)** Regularity Criteria for Solutions of the Navier-Stokes Equations in Terms of the Derivatives of Several Fundamental Quantities Along the Streamlines.	
15:00-15:30	**Tomoki Takahashi (Tokyo Institute of Technology, Japan)** Anisotropically Spatial-Temporal Behavior of the Navier-Stokes Flow Past a Rigid Body	

SS 29	**Reactions Diffusion Equations with Applications to Spatial Ecology and Infectious Disease** Organizer(s): Rachidi Salako, King Yeung Lam, Yuan Lou	**ST2005**
14:00-14:30	**Maria Amarakristi Onyido (Northern Illinois University, USA)** Persistence of a Two-Stage Structured Population Model with Nonlocal Dispersal	
14:30-15:00	**Chris Cosner (University of Miami, USA)** Optimal Dispersal in Integrodifference Models	
15:00-15:30	**Robert Stephen Cantrell (University of Miami, USA)** On the Evolution of Slow Dispersal in Multi-Species Communities	
15:30-16:00	**King-Yeung Lam (The Ohio State University, USA)** The Principal Floquet Bundle and A Conjecture of Dockery Et Al.	

SS 30	**Optimal Control of Finite and Infinite Dimensional Dynamic Systems and Their Applications** Organizer(s): Nasir U. Ahmed, Stanislaw Migorski, Saroj K. Biswas	**LH107**
14:00-14:30	**Mariusz Michta (University of Zielona Gora, Poland)** Set-Valued Young Integral, Its Properties and Applications	
14:30-15:00	**Stanislaw Migorski (Jagiellonian University, Poland)** Well-Posedness of Parabolic Variational-Hemivariational Inequalites with Unilateral Constraints	
15:00-15:30	**Irene Benedetti (University of Perugia, Italy)** Differential Inclusions with M-Dissipative Multioperators	
15:30-16:00	**Andy Borum (Vassar College, USA)** Deforming Local Minima of an Optimal Control Problem	

SS 34	**Variational, Topological and Set-Valued Methods for Nonlinear Differential Problems** Organizer(s): Giuseppina D'Aguì, Angela Sciammetta, Patrick Winkert, Eleonora Amoroso	**ST1009**
14:00-14:30	**Sergio Polidoro (Università di Modena e Reggio Emilia, Italy)** Mean Value Formulas for Classical Solutions to Subelliptic Equations with Non-Smooth Coefficients	
14:30-15:00	**Francesca Dalbono (University of Palermo, Italy)** A Bifurcation Phenomenon for the Critical P-Laplace Equation in the Ball	
15:00-15:30	**Angel Crespo-Blanco (Technische Universitaet Berlin, Germany)** A New Class of Double Phase Variable Exponent Problems and A Nehari Manifold Approach	
15:30-16:00	**Silvia Frassu (University of Cagliari, Italy)** Nonlinear Dirichlet Problem for the Fractional P-Laplacian with Jumping Reactions	

SS 43	**Control and Long Time Dynamics of Evolutionary Partial Differential Equations** Organizer(s): Louis Tebou, Luz de Teresa	**MO206**
14:00-14:30	**Sergei Avdonin (University of Alaska Fairbanks, USA)** Controllability of Telegrapher's Equations on Graphs	
14:30-15:00	**Julian Edward (Florida International University, USA)** Boundary Null Controllability of Beam with Structural Damping	
15:00-15:30	**Ademir Pazoto (Federal University of Rio de Janeiro, Brazil)** Controllability of a Model System for Strong Interaction Between Internal Solitary Waves	
15:30-16:00	**Matthew E Boussard (North Carolina State University, USA)** Analysis of a Multiscale Interface Coupling Between Fluid Flow in Deformable Porous Media and A Lumped Hydraulic Circuit	

SS 50	**Nonlinear Elliptic PDEs: Analysis and Computations** Organizer(s): Florin Catrina, Zhi-Qiang Wang, Jianxin Zhou	**LH104**
14:00-14:30	**Norihisa Ikoma (Keio University, Japan)** Existence and Nonexistence of Stable Solutions to a Fractional Hardy-Hénon Equation	
14:30-15:00	**Kanishka Perera (Florida Institute of Technology, USA)** A General Perturbation Theorem with Applications to Nonhomogeneous Critical Growth Elliptic Problems	
15:00-15:30	**Zhuolun Yang (Brown University, USA)** Gradient Estimates for the Insulated Conductivity Problem	
15:30-16:00	**Jianxin Zhou (Texas A & M University, USA)** On Finding Multiple Solutions to Nonvariational Nonlinear Partial Differential Equations	

SS 51	**Phase Field Models and Real World Applications, in memory of Gunduz Caginalp** Organizer(s): Andrea Giorgini, Maurizio Grasselli, Alain Miranville	**LH136**
14:00-14:30	**Kei Fong Lam (Hong Kong Baptist University, Hong Kong)** Phase Field Structural Optimization in Additive Manufacturing	
14:30-15:00	**Andrea Aspri (University of Milan, Italy)** Phase-Field Approaches in Elastic Inverse Problems	
15:00-15:30	**Stefan Metzger (Friedrich-Alexander Universität Erlangen-Nürnberg, Germany)** On a Convergent SAV Scheme for the Stochastic Allen-Cahn Equation	
15:30-16:00	**Luca Scarpa (Politecnico di Milano, Italy)** On Some Stochastic Phase-Field Models of Cahn-Hilliard-Cook Type with Logarithmic Potential	

SS 52	**Harmonic Analysis and Partial Differential Equations** Organizer(s): William Bray, Dorina Mitrea	**LH108**
14:00-14:30	**Irina Mitrea (Temple University, USA)** On the Radon-Carleman Problem in Irregular Domains	
14:30-15:00	**Ryan Alvarado (Amherst College, USA)** The Role of Geometry in the Theory of Function Spaces	
15:00-15:30	**Irina Holmes Fay (Texas A & M University, USA)** Two-Weight Bounds for Paraproducts and Sparse Operators	
15:30-16:00	**Cherif Amrouche (University de Pau et des Pays de L'Adour, France)** Elliptic Problems in Lipschitz and in $\mathcal{C}^{1,1}$ Domains	

SS 62	**Group Invariant Machine Learning** Organizer(s): Jameson Cahill, Dustin Mixon	**LH132**
14:00-14:30	**Joseph W Iverson (Iowa State University, USA)** Numerically Stable Group Invariants	
14:30-15:00	**Daniel Packer (The Ohio State University, USA)** Max Filtering with Reflection Groups	
15:00-15:30	**Radu Balan (University of Maryland, USA)** Coorbit Representations of Homogeneous Metric Spaces	
15:30-16:00	**Dan Edidin (University of Missouri, USA)** Separating Orbits Using Invariants of Low Degree	

SS 66	**Dynamics of Biological Materials Across Scales** Organizer(s): M. Greg Forest, Qi Wang	**MO201**
14:00-14:30	**Mansoor A Haider (North Carolina State University, USA)** Parameter Identifiability Analysis and Model Reduction for Data-Driven Models of Biological Soft Tissues	
14:30-15:00	**Wenrui Hao (Penn State University, USA)** Data-Driven Modeling on Alzheimer's Disease	
15:00-15:30	**Karin Leiderman (UNC Chapel Hill, USA)** Effects of Transmural Pressure on Clot Structure and Occlusion Times	
15:30-16:00	**Qi Wang (UofSC, USA)** Collective Motion of Active Particles on Surfaces	

SS 75	**Recent Developments in Nonlinear PDEs, Non-Uniformly Elliptic Problems and Related Topics** Organizer(s): Alessio Fiscella, João Vitor da Silva	**MO205**
14:00-14:30	**Boyan Sirakov (PUC-Rio, Brazil)** Boundary Weak Harnack Estimates and Regularity for Elliptic PDE in Divergence Form	
14:30-15:00	**Mariana Smit Vega Garcia (Western Washington University, USA)** Almgren Type Monotonicity Formulas	
15:00-15:30	**Thialita Nascimento (University of Central Florida, USA)** New Regularity Estimates for Fully Nonlinear Elliptic Equations	
15:30-16:00	**Mousomi Bhakta (Indian Institute of Science Education and Research, India)** A System of Equations Involving the Fractional P-Laplacian and Doubly Critical Nonlinearities	

SS 77	**Analysis and Applications of Nonlinear Elliptic and Parabolic Equations** Organizer(s): Yuanzhen Shao, Patrick Guidotti, Hengrong Du	**LH141**
14:00-14:30	**Qi S Zhang (UC Riverside, USA)** Decay and Vanishing of Some D-Solutions of the Navier-Stokes Equations	
14:30-15:00	**Weinan Wang (University of Arizona, USA)** Stabilizing Phenomenon for Incompressible Fluids	
15:00-15:30	**Pedro Tavares Paes Lopes (Universidade de São Paulo, Brazil)** On the Cahn-Hilliard Equation on Manifolds with Conical Singularities	
15:30-16:00	**Juraj Foldes (Univ. of Virginia, USA)** Cubic Schrödinger Equation with Randomized Initial Conditions	

SS 80	**Inverse Problems and Imaging** Organizer(s): Ru-Yu Lai, Gunther Uhlmann, Yang Yang	**LH111**
14:00-14:30	**Jeremy Hoskins (University of Chicago, USA)** Single-Excitation Quantum Optics: Analysis and Algorithms	
14:30-15:00	**Isaac Harris (Purdue University, USA)** Recovering Small Volume Corroded Regions in EIT	
15:00-15:30	**Francois S Monard (University of California Santa Cruz, USA)** X-Ray Transforms and Degenerate Elliptic Operators	
15:30-16:00	**Yimin Zhong (Auburn University, USA)** Inverse Problems on Multiphoton Absorption	

SS 81	**Stochastic Modeling in Biological, Physical and Social Sciences: Theory and Applications** Organizer(s): Wai-Tong (Louis) Fan, Krutika Tawri, Chuntian Wang, Roger Temam	**MO208**
14:00-14:30	**Hakima Bessaih (Florida International University, USA)** Synchronization of Stochastic Complex Networks of Reaction-Diffusion Equations	
14:30-15:00	**Yu-Ting Chen (University of Victoria, Canada)** Singularly Perturbed Differential Operators and Some Stochastic Analytic Counterparts	
15:00-15:30	**Jason Swanson (University of Central Florida, USA)** Finite Markov Chains Coupled to General Markov Processes and An Application to Metastability	
15:30-16:00	**Tuan A Phan (Institute for Modeling Collaboration and Innovation, University of Idaho, USA)** Techniques of Analyzing Stochastic Differential Equation Systems in Biology	

SS 85	**Interface Problems: Modelling, Analysis and Simulations** Organizer(s): Xiaoping Wang, Dong Wang	**ST2002**
14:30-15:00	**Dong Wang (The Chinese University of Hong Kong, Shenzhen, Peoples Rep of China)** An Efficient Unconditionally Stable Method for Computing Dirichlet Partitions in Arbitrary Domains	
15:00-15:30	**Yanxiang Zhao (George Washington University, USA)** Nonlocal Effects on a 1D Generalized Ohta-Kawasaki Model	

SS 89	**Recent Trends in Mathematical Fluid Mechanics** Organizer(s): Milan Pokorny, Eduard Feireisl, Antonin Novotny	**CI1013**
14:00-14:30	**Agnieszka Swierczewska-Gwiazda (University of Warsaw, Poland)** Compressible Magnetohydrodynamics Driven by Non-Conservative Boundary Conditions	
14:30-15:00	**Piotr Gwiazda (Institute of Mathematics Polish Academy of Sciences, Poland)** From Compressible Euler System to Porous Medium Equation	
15:00-15:30	**Milan Pokorny (Charles University, Czech Rep)** Two-Phase Compressible/Incompressible Navier–Stokes System with Inflow-Outflow Boundary Conditions	
15:30-16:00	**Karol Hajduk (Institute of Mathematics Polish Academy of Sciences, Poland)** Energy Conservation for the Convective Brinkman-Forchheimer Equations on Bounded Domains	

SS 1	**Analysis of PDEs and Free Boundary Problems** Organizer(s): Stefano Biagi, Eugenio Vecchi, Serena Dipierro	**LH143**
16:30-17:00	**Giulio Galise (Sapienza Università di Roma, Italy)** Maximum Principles and Related Problems for a Class of Nonlocal Extremal Operators	
17:00-17:30	**Enrico Valdinoci (University of Western Australia, Australia)** The Lévy Flight Foraging Hypothesis	

SS 13	**Nonlinear Differential and Difference Equations with Applications to Population Dynamics** Organizer(s): Kunquan Lan, Elena Braverman, Gunog Seo	**CI1012**
16:30-17:00	**Paul Eloe (Univeristy of Dayton, USA)** Maximum, Anti-Maximum Principles and Monotone Methods for Boundary Value Problems for Riemann Liouville Fractional Differential Equations in Neighborhoods of Simple Eigenvalues	
17:00-17:30	**Christopher S. Goodrich (School of Mathematics and Statistics, Sydney, UNSW, USA)** Monotonicity and Convexity for Discrete Fractional Operators with Applications to Fractional Difference Equations	
17:30-18:00	**Lingju Kong (University of Tennessee at Chattanooga, USA)** User Traffic Dynamics in Online Social Networks	
18:00-18:30	**Wenying Feng (Trent University, Canada)** Solutions for a Class of Nonlinear Fractional Difference Equations at Resonance	
18:30-19:00	**Eymard Hernández (UAgro-TESOEM, Mexico)** Bifurcations of Co-dimension Two in a Model of Immune and Neoplasia for Two ODEs	

SS 15	**Recent Advances on Population Models in Ecology and Epidemiology** Organizer(s): Junping Shi, Zhisheng Shuai, Yixiang Wu	**MO209**
16:30-17:00	**Daozhou Gao (Cleveland State University, USA)** Impact of Population Dispersal on Disease Prevalence	
17:00-17:30	**Vinodh Kumar Chellamuthu (Utah Tech University, USA)** A Mathematical Model to Assess the Efficacy of Wolbachia Transinfection in Mosquitoes in Controlling Dengue Fever Outbreaks	
17:30-18:00	**Xiunan Wang (University of Tennessee at Chattanooga, USA)** Threshold Dynamics of a Nonlocal Dispersal HIV/AIDS Epidemic Model with Spatial Heterogeneity and Antiretroviral Therapy	
18:00-18:30	**Tingting Tang (San Diego State University, USA)** Identifiability of Compartment Model for Infectious Diseases Under Both Perfect and Flawed Data	
18:30-19:00	**Chidozie W Chukwu (Wake Forest University, USA)** Analysis of Two-Group Malaria Model Incorporating Vaccination and Optimal Control	

SS 16	**Celestial Mechanics and Hamiltonian Systems** Organizer(s): Manuele Santoprete, Cristina Stoica, Zhifu Xie, Marian Gidea	**MO207**
16:30-17:00	**Lennard F Bakker (Brigham Young University, USA)** Relative Equilibria and Periodic Orbits in a Binary Asteroid Model	
17:00-17:30	**Marshall Hampton (University of Minnesota, USA)** Finiteness of Central Configurations	
17:30-18:00	**Skyler Simmons (Utah Valley University, USA)** A Pair of Collision-Based Periodic Orbits in Three Dimensions	
18:00-18:30	**Manuele Santoprete (Wilfrid Laurier University, Canada)** On the Uniqueness of Co-Circular Four Body Central Configurations	
18:30-19:00	**Zhifu Xie (The University of Southern Mississippi, USA)** On the Uniqueness of Convex Central Configurations in the Planar 4-Body Problem	

SS 17	**Nonlinear Models in Kinetic Theory, Collective Behavior, and Fluid Dynamics** Organizer(s): Christopher Henderson, Stanley Snelson, Andrei Tarfulea	**LH131**
16:30-17:00	**Laurent Lafleche (University of Texas at Austin, USA)** Fractional Hypocoercivity	
17:00-17:30	**Andrea Tosin (Politecnico di Torino, Italy)** Macroscopic Limits of Non-Local Kinetic Descriptions of Consensus and Relaxation Dynamics	
17:30-18:00	**Padmanabhan Sundar (Louisiana State University, USA)** The Boltzmann Process: Existence and Construction	
18:00-18:30	**Stephen P Cameron (Courant Institute, USA)** Critical Local-Wellposedness for the Fully Nonlinear Peskin Problem	

SS 24	**Geometric Methods in Spectral Theory of Traveling Waves and Patterns** Organizer(s): Graham Cox, Yuri Latushkin, Alim Sukhtayev	**LH139**
16:30-17:00	**Emmanuel Fleurantin (George Mason University, University of North Carolina at Chapel Hill, USA)** On the Interplay of Transient Dynamics and Noise-Induced Tipping	
17:00-17:30	**Alin Pogan (Miami University, USA)** Spectrum of Non-Planar Traveling Waves	
17:30-18:00	**Stephane Lafortune (Male, USA)** Spectral and Linear Stability of Peakon Solutions	
18:00-18:30	**Vahagn Manukian (Miami University, USA)** Multi-Scale Reduction of Modified Holling-Tanner Model with an Allee Effect	
18:30-19:00	**Milena Stanislavova (University of Alabama Birmingham, USA)** On the Stability of the Periodic Waves for the Benney and Zakharov Systems	

SS 25	**Mathematical Modeling and Quantitative System Pharmacology** Organizer(s): Christopher Denaro, Benedetto Piccoli	**CI1007**
16:30-17:00	**Ioannis P Androulakis (Rutgers University, USA)** Quantitative Systems Pharmacology: More of the Same Or Something?	
17:00-17:30	**Ernesto Lima (The University of Texas at Austin, USA)** Maximizing Efficacy and Minimizing Toxicity in HER2+ Breast Cancer Treatment: an Optimal Control Study	
17:30-18:00	**Gauri G Rao (University of North Carolina, USA)** Reconceptualizing Antimicrobial Therapy in the Context of the Host-Pathogen Interaction	
18:00-18:30	**Christopher Denaro (Rutgers University - Camden, USA)** Simulating Combination Therapies for the Treatment of Tuberculosis Using Linear in Flux Expressions	
18:30-19:00	**Marc Birtwistle (Clemson University, USA)** Mechanistic Pharmacodynamic Modeling of Single Mammalian Cells	

SS 29	**Reactions Diffusion Equations with Applications to Spatial Ecology and Infectious Disease** Organizer(s): Rachidi Salako, King Yeung Lam, Yuan Lou	**ST2005**
16:30-17:00	**Shuwen Xue (Northern Illinois University, USA)** Stationary Solutions of a Chemotaxis System with Singular Sensitivity and Logistic Source	
17:00-17:30	**Jerome Goddard II (Auburn University Montgomery, USA)** Harvesting-Mediated Emigration Can Affect Community Structure in a Competitive System	
17:30-18:00	**Rana Parshad (Iowa State University, USA)** Some Recent Results in Competitive Systems	
18:00-18:30	**Rachidi Salako (University of Nevada Las Vegas, USA)** Human Mobility and Disease Prevalence	

SS 30	**Optimal Control of Finite and Infinite Dimensional Dynamic Systems and Their Applications** Organizer(s): Nasir U. Ahmed, Stanislaw Migorski, Saroj K. Biswas	**LH107**
16:30-17:00	**Akhtar A Khan (Rochester Institute of Technology, USA)** Inverse Problems of Identifying Parameters in PDEs with Random Data	
17:00-17:30	**Nasir U Ahmed (University of Ottawa, Canada)** Atmospheric Greenhouse Concentration and Its Optimal Removal Strategy	

SS 34	**Variational, Topological and Set-Valued Methods for Nonlinear Differential Problems** Organizer(s): Giuseppina D'Aguì, Angela Sciammetta, Patrick Winkert, Eleonora Amoroso	**ST1009**
16:30-17:00	**Addolorata Salvatore (University of Bari, Italy)** Bounded Solutions for Generalized Quasilinear Elliptic Equations	
17:00-17:30	**Giuseppe Viglialoro (University of Cagliari, Italy)** Boundedness Criteria for an Attraction-Repulsion Chemotaxis Model with Consumed Signals	
17:30-18:00	**Irene Benedetti (University of Perugia, Italy)** Existence and Localization of Solutions for Nonlocal Differential Problems	
18:00-18:30	**Alessandro Columbu (Università di Cagliari, Italy)** Some Refined Criteria Toward Boundedness in an Attraction-Repulsion Chemotaxis Model with Nonlinear Productions	
18:30-19:00	**Francesca Colasuonno (Alma Mater Studiorum Università di Bologna, Italy)** Symmetry Breaking for a Supercritical Elliptic Problem in an Annulus	

SS 50	**Nonlinear Elliptic PDEs: Analysis and Computations** Organizer(s): Florin Catrina, Zhi-Qiang Wang, Jianxin Zhou	**LH104**
16:30-17:00	**Futoshi Takahashi (Osaka Metropolitan University, Japan)** Asymptotic Behavior of Least Energy Solutions to the Finsler Lane-Emden Problem with Large Exponents	
17:00-17:30	**Soledad Benguria Andrews (University of Wisconsin-Madison, USA)** A Generalized Radial Brezis-Nirenberg Problem	
17:30-18:00	**Florin Catrina (St. John's University, USA)** An Energy Conservation Law and Applications to PDE	
18:00-18:30	**Zhaoxiang Li (Shanghai Normal University, Peoples Rep of China)** A Partial Newton-Correction Method for Multiple Fixed Points of Nonlinear Differential Operator by Legendre-Gauss-Lobatto Pseudospectral Method	

SS 51	**Phase Field Models and Real World Applications, in memory of Gunduz Caginalp** Organizer(s): Andrea Giorgini, Maurizio Grasselli, Alain Miranville	**LH136**
16:30-17:00	**Laurence Cherfils (La Rochelle University, France)** Optimal Control of a Tumor Growth Model with Brain Lactate Kinetics	
17:00-17:30	**Andrea Signori (Politecnico di Milano, Italy)** Phase Segregation Drives RNA-Protein Dynamics	
17:30-18:00	**Krutika Tawri (University of California Berkeley, USA)** Well-Posedness of a Phase Field Model in Fluid-Structure Interaction	

SS 52	**Harmonic Analysis and Partial Differential Equations** Organizer(s): William Bray, Dorina Mitrea	**LH108**
16:30-17:00	**Marius Mitrea (Baylor University, USA)** Integral Operators and Boundary Value Problems for Weakly Elliptic Systems	
17:00-17:30	**Katharine Ott (Bates College, USA)** Estimates for Brascamp-Lieb Forms in L^P-Spaces with Power Weights	
17:30-18:00	**Matt Wright (Missouri State University, USA)** The Spectrum of Boundary Integral Operators on Sobolev Spaces	
18:00-18:30	**Pedro Takemura Feitosa Da Silva (Baylor University, USA)** The Dirichlet Problem on Rough Domains with Data in Herz Spaces	
18:30-19:00	**Azita Mayeli (City University of New York, USA)** On the Eigenvalue Distribution of Time-Frequency Limiting Operators on Higher Dimensions	

SS 59	**Interplays Between Statistical Learning and Optimization** Organizer(s): Qiang Wu, Xuemei Chen, Yiming Ying	**LH110**
16:30-17:00	**Qiang Wu (Middle Tennessee State University, USA)** An Introduction to Distributed Machine Learning	
17:00-17:30	**Yiming Ying (State University of New York at Albany, USA)** Learning Theory for Contrastive Representation Learning	
17:30-18:00	**Yunlong Feng (SUNY Albany, USA)** On Learning with Bounded Loss Functions	

SS 62	**Group Invariant Machine Learning** Organizer(s): Jameson Cahill, Dustin Mixon	**LH132**
16:30-17:00	**Nathaniel Strawn (Georgetown University, USA)** Universality of Andrews Networks	
17:00-17:30	**Ben Blum-Smith (Johns Hopkins University, USA)** Invariant Machine Learning on Point Clouds	
17:30-18:00	**Oscar Mickelin (Princeton University, USA)** Fast Principal Component Analysis for Cryo-EM Images	

SS 66	**Dynamics of Biological Materials Across Scales** Organizer(s): M. Greg Forest, Qi Wang	**MO201**
16:30-17:00	**Xinfeng Liu (University of South Carolina, USA)** Data-Driven Mathematical Modeling, Computation and Experimental Investigation of Dynamical Heterogeneity in Breast Cancer	
17:00-17:30	**Duan Chen (University of North Carolina at Charlotte, USA)** Geometric Structure Guided Nonnegative Matrix Factorization Model for Complete Deconvolution of Biological Data	
17:30-18:00	**Yi Sun (University of South Carolina, USA)** Kinetic Monte Carlo Simulations of Multicellular Aggregate Self-Assembly in Biofabrication	

SS 75	**Recent Developments in Nonlinear PDEs, Non-Uniformly Elliptic Problems and Related Topics** Organizer(s): Alessio Fiscella, João Vitor da Silva	**MO205**
16:30-17:00	**Aelson O Sobral (UFPB/UCF, USA)** $\mathcal{C}^1$-Regularity for Vicosity Solutions of Free Boundary Problems with Gradient Constraint	
17:00-17:30	**Shalmali Bandyopadhyay (University of North Carolina at Greensboro, India)** Maximal and Minimal Weak Solutions for Elliptic Coupled Systems with Nonlinearity on the Boundary	
17:30-18:00	**Héctor A Chang-Lara (CIMAT, Mexico)** A Transmission Problem for First and Second Order Operators	

SS 77	**Analysis and Applications of Nonlinear Elliptic and Parabolic Equations** Organizer(s): Yuanzhen Shao, Patrick Guidotti, Hengrong Du	**LH141**
16:30-17:00	**Nung Kwan Yip (Purdue University, USA)** Existence and Stability of a Line-Generating Process Modeled by a Three Component Activator-Substract-Excitator System	
17:00-17:30	**Connor Mooney (UC Irvine, USA)** The Anisotropic Bernstein Problem	
17:30-18:00	**Guanying Peng (Worcester Polytechnic Institute, USA)** Quantitative Rigidity of Elliptic Differential Inclusions in Two Dimensions	
18:00-18:30	**Abbas Momeni (Carleton University, Canada)** Supercritical Partial Differential Equations and The Calculus of Variations on Convex Subsets	

SS 80	**Inverse Problems and Imaging** Organizer(s): Ru-Yu Lai, Gunther Uhlmann, Yang Yang	**LH111**
16:30-17:00	**Benjamin Palacios (Pontificia Universidad Catolica de Chile, Chile)** Inverse Problems Arising in Photoacoustic Tomography	
17:00-17:30	**Yuehaw Khoo (The University of Chicago, USA)** Method-Of-Moments, Machine Learning, and Cryo-Electron Microscopy	
17:30-18:00	**Yang Zhang (University of Washington, USA)** Inverse Problems Arising in Nonlinear Acoustic Imaging	
18:00-18:30	**Hadrian Quan (University of Washington, USA)** Fractional Dirac Operators and Geometric Reconstruction	
18:30-19:00	**Qiuye Jia (Stanford University, Peoples Rep of China)** The Tensorial X-Ray Transform on Asymptotically Conic Manifolds	

SS 81	**Stochastic Modeling in Biological, Physical and Social Sciences: Theory and Applications** Organizer(s): Wai-Tong (Louis) Fan, Krutika Tawri, Chuntian Wang, Roger Temam	**MO208**
16:30-17:00	**Le Chen (Auburn University, USA)** Global Existence of Stochastic Heat Equation in the Superlinear-Growth Regime	
17:00-17:30	**Christian Frederiksen (Tulane University, USA)** A Framework for Posterior Consistency in PDE Inverse Problems	
17:30-18:00	**Qiang Zeng (University of Macau, Macau)** Hessian Spectrum at the Global Minimum of Locally Isotropic Gaussian Random Fields	
18:00-18:30	**Hao Shen (University of Wisconsin - Madison, USA)** Lattice Yang-Mills and SPDE Limit in 2D	
18:30-19:00	**Aristide Ndongmo Ngana (North West University, So Africa)** Martingale Solutions to Stochastic Nonlocal Cahn-Hilliard-Navier-Stokes Equations with Multiplicative Noise of Jump	

SS 87	**Integrable Systems, Turbulence and Water Waves** Organizer(s): Sergey Dyachenko, Anastassiya Semenova, Denis Silantyev	**MO206**
16:30-17:00	**Michael Siegel (New Jersey Institute of Technology, USA)** Global existence and singularity formation for the generalized Constantin-Lax-Majda equation with dissipation	
17:00-17:30	**Denis Silantyev (University of Colorado Colorado Springs, USA)** Exact Solutions of the Generalized Constantin-Lax-Majda Equation with Dissipation	

SS 89	**Recent Trends in Mathematical Fluid Mechanics** Organizer(s): Milan Pokorny, Eduard Feireisl, Antonin Novotny	**CI1013**
16:30-17:00	**Sarka Necasova (Institute of Mathematics, Academy of Sciences, Czech Rep)** On the Problem of Singular Limits	
17:00-17:30	**Danica Basaric (Institute of Mathematics of the Czech Academy of Sciences, Czech Rep)** Conditional Regularity for the Navier-Stokes-Fourier System with Dirichlet Boundary Conditions	

SS 4	**Qualitative and Quantitative Features of Delay Differential Equations and Their Applications** Organizer(s): Fathalla Rihan, Yang Kuang, Gennady Bocharov	**ST2002**
8:00-8:30	**Karam Allali (Hassan II University of Casablanca, Morocco)** Time-Delayed Two-Strain Epidemic Model with General Incidence Rates and Therapy: Mathematical Analysis	
8:30-9:00	**Fathalla A Rihan (UAE University, United Arab Emirates)** Delay Differential Equations with Dynamics and Applications in Biology	
9:00-9:30	**Kaifa Wang (Southwest University, Peoples Rep of China)** Dynamics on Hepatitis B Virus Infection in Vivo with Delay Interval	

SS 6	**Special Session on Fractal Geometry, Dynamical Systems, and Their Applications** Organizer(s): Sangita Jha, Mrinal Roychowdhury, Saurabh Verma	**LH143**
8:00-8:30	**Pieter Allaart (University of North Texas, USA)** The β-Transformation with a Hole at 0	
8:30-9:00	**Kenneth Golden (University of Utah, USA)** Fractal Geometry of Sea Ice Structures	
9:00-9:30	**Jonathan Meddaugh (Baylor University, USA)** Inverse Limits of Unimodal Maps on Dendrites	

SS 9	**Stochastic Analysis and Large Scale Interacting Systems** Organizer(s): Danielle Hilhorst, Sunder Sethuraman, Bin Xie	**LH132**
8:00-8:30	**Benjamin Gess (MPI MIS Leipzig, Germany)** Fluctuations in Conservative Systems and SPDEs	
8:30-9:00	**Maximilian Nitzschner (New York University, USA)** Smoothness of the Diffusion Coefficients for Particle Systems in Continuous Space	
9:00-9:30	**Kunwoo Kim (POSTECH, Korea)** Long-Time Behavior of Stochastic Heat Equations	

SS 13	**Nonlinear Differential and Difference Equations with Applications to Population Dynamics** Organizer(s): Kunquan Lan, Elena Braverman, Gunog Seo	**CI1012**
8:00-8:30	**Gunog Seo (Colgate University, USA)** A Non-Spatial Host-Parasitoid Model for Pest Control: Insights from Bifurcation Theory	
8:30-9:00	**Min Wang (Kennesaw State University, USA)** Online Social Network Models with Varying Population Size	
9:00-9:30	**Elisa Sovrano (University of Modena and Reggio Emilia (UNIMORE), Italy)** Impact of Threshold Harvesting on the Dynamics of Age-Structured Populations	

SS 23	**Topological and Variational Methods for Differential Equations** Organizer(s): John Graef, Lingju Kong, Min Wang	**CI1007**
8:00-8:30	**Paul Eloe (Univeristy of Dayton, USA)** Comparison of Green's Functions for Two-Point Boundary Value Problems with Fractional Derivative Boundary Conditions	
8:30-9:00	**Kunquan Lan (Toronto Metropolitan University, Canada)** Equivalence of Linear Fractional Differential and Integral Equations	
9:00-9:30	**Jeffrey W Lyons (The Citadel, USA)** Two Point Fractional Boundary Value Problems with a Fractional Boundary Condition	

SS 32	**Recent Developments in Mathematical Theories of Complex Fluids** Organizer(s): Xianpeng Hu, Yong Yu, Chenyun Luo	**LH131**
8:00-8:30	**Changyou Wang (Purdue University, USA)** Variational Problems on Nematic Liquid Crystal Droplets	
8:30-9:00	**Yuanzhen Shao (University of Alabama, USA)** On a Thermodynamically Consistent Model for Magnetoviscoelastic Fluids in 3D	
9:00-9:30	**Hengrong Du (Vanderbilt University, USA)** Partial Regularity for the Stochastic Ericksen–Leslie Equations	

SS 33	**Modeling and Data Analysis for Complex Systems and Dynamics** Organizer(s): Jianzhong Su, Padmanabhan Seshaiyer, Lixia Duan, Pengcheng Xiao	**MO206**
8:30-9:00	**Jianzhong Su (The University of Texas at Arlington, USA)** EEG Source Localization: New Methods and Applications	
9:00-9:30	**Steven M Baer (Arizona State University, USA)** Multiscale Continuum Spine Modeling: from Structural Plasticity to Neural Circuits	

SS 34	**Variational, Topological and Set-Valued Methods for Nonlinear Differential Problems** Organizer(s): Giuseppina D'Aguì, Angela Sciammetta, Patrick Winkert, Eleonora Amoroso	**ST1009**
8:00-8:30	**Vincenzo Ferone (Università di Napoli Federico II, Italy)** Symmetrization for Linear and Nonlinear Fractional Elliptic Problems	
8:30-9:00	**Valentina Taddei (University of Modena and Reggio Emilia, Italy)** Mild Solutions of Second-Order Semilinear Impulsive Differential Inclusions in Banach Spaces	
9:00-9:30	**Alessio Fiscella (Università degli Studi di Milano-Bicocca, Italy)** Critical Double Phase Problems: Recent Results and Open Questions	

SS 50	**Nonlinear Elliptic PDEs: Analysis and Computations** Organizer(s): Florin Catrina, Zhi-Qiang Wang, Jianxin Zhou	**LH104**
8:00-8:30	**Jianjun Zhang (Chongqing Jiaotong University, Peoples Rep of China)** A Global Branch Approach to Normalized Solutions for Schrödinger Equations	
8:30-9:00	**Hossein Tehrani (UNLV, USA)** On a Heterogeneous Diffusive Logistic Equation with a Harvesting Term Under Strong Growth Rate	
9:00-9:30	**Zhi-Qiang Wang (Utah State University, USA)** Coupled Nonlinear Elliptic Equations with Mixed Couplings	

SS 51	**Phase Field Models and Real World Applications, in memory of Gunduz Caginalp** Organizer(s): Andrea Giorgini, Maurizio Grasselli, Alain Miranville	**LH136**
8:00-8:30	**Martin Kalousek (Institute of Mathematics, Czech Academy of Sciences, Czech Rep)** Existence of Weak Solutions to a Diffuse Interface Model Involving Magnetic Fluids	
8:30-9:00	**Flore Nabet (Ecole Polytechnique, France)** On a Two-Phase Two-Fluxes Degenerate Cahn-Hilliard Model	
9:00-9:30	**Ciprian Gal (Florida International University, USA)** Doubly Nonlocal Cahn-Hilliard Equations	

SS 53	**Qualitative and Quantitative Techniques for Differential Equations Arising in Applied and Natural Sciences** Organizer(s): Rehana Naz, Stephane Lafortune, Imran Naeem	**LH108**
8:00-8:30	**Nicoleta V Bila (Fayetteville State University, USA)** On a Side Condition for Wronskian-Involving Differential Equations	
8:30-9:00	**Claudia Falcon (Wake Forest University, USA)** Entrainment Effects of a Sphere Settling in Viscous Stratified Fluid	
9:00-9:30	**Efstathios Charalampidis (California Polytechnic State University, USA)** Extreme Nonlinear Excitations in Lattice and Continuum Models	

SS 59	**Interplays Between Statistical Learning and Optimization** Organizer(s): Qiang Wu, Xuemei Chen, Yiming Ying	**LH110**
8:00-8:30	**Nicholas F Marshall (Oregon State University, USA)** Learning Rates, Corrupted Linear Systems, and Randomized Kaczmarz	
8:30-9:00	**Alex Powell (Vanderbilt University, USA)** Dynamical Sampling: Dynamical Duals and Quantization	
9:00-9:30	**Shu Liu (Middle Tennessee State University, USA)** Pairwise Learning for Imbalanced Data Classification	

SS 79	**Recent Advancements in the Numerical Analysis of Nonlinear Partial Differential Equations** Organizer(s): Tom Lewis, Yi Zhang	**ST2005**
8:00-8:30	**Liet Vo (University of Illinois Chicago, USA)** Higher Order Time Discretization Method for a Class of Semilinear Stochastic PDEs with Multiplicative Noise	
8:30-9:00	**Aaron Rapp (University of the Virgin Islands, USA)** Approximating the Solutions to Hamilton-Jacobi Equations with Dual-Wind Discontinuous Galerkin Methods.	
9:00-9:30	**Stefan Schnake (Oak Ridge National Laboratory, USA)** A Predictor-Corrector Strategy for Adaptivity in Dynamical Low-Rank Approximations	

SS 80	**Inverse Problems and Imaging** Organizer(s): Ru-Yu Lai, Gunther Uhlmann, Yang Yang	**LH111**
8:00-8:30	**Matias Courdurier (Universidad Catolica de Chile, Chile)** Detection of a Thin Waveguide in 2D Helmholtz Equation	
8:30-9:00	**Axel Osses (Universidad de Chile, Chile)** A New Model for Cardiac Fiber Identification	
9:00-9:30	**Wei Li (DePaul University, USA)** Acousto-Electric Inverse Source Problems	

SS 87	**Integrable Systems, Turbulence and Water Waves** Organizer(s): Sergey Dyachenko, Anastassiya Semenova, Denis Silantyev	**LH107**
8:00-8:30	**Rafail Abramov (University of Illinois at Chicago, USA)** Spontaneous Development of Turbulence in Weakly Compressible Flow	
8:30-9:00	**Gregor Kovacic (Rensselaer Polytechnic Institute, USA)** Direct Verification of the Kinetic Description of Wave Turbulence for Finite-Size Systems	
9:00-9:30	**Barbara Prinari (University at Buffalo, USA)** Solitons and soliton interactions in the complex coupled short-pulse equation	

CS 1	**ODEs and Applications**	**MO205**
8:00-8:20	**Spencer A Boebel (University of South Carolina Upstate, USA)** A Novel Approach to Analytic Velocity Profiles of an Oldroyd 6-Constant Fluid in a Channel	
8:20-8:40	**Zhenfu Wang (Peking University, Peoples Rep of China)** Entropy-Dissipation Informed Neural Network for McKean-Vlasov PDEs	
8:40-9:00	**Vladimir Svigler (University of West Bohemia, Czech Rep)** Propagation Reversal for Bistable Differential Equations on Trees	

SS 4	**Qualitative and Quantitative Features of Delay Differential Equations and Their Applications** Organizer(s): Fathalla Rihan, Yang Kuang, Gennady Bocharov	**ST2002**
14:00-14:30	**Hebatallah Alsakaji (United Arab Emirates University, United Arab Emirates)** Persistence and Extinction for Stochastic Delay Differential Model of Prey Predator System with Hunting Cooperation in Predators	
14:30-15:00	**Elena Braverman (University of Calgary, Canada)** On Stability and Asymptotics of Equations and Systems with Distributed Unbounded Delays	
15:00-15:30	**Xiunan Wang (University of Tennessee at Chattanooga, USA)** R_0 and Sensitivity Analysis of a Predator-Prey Model with Seasonality and Maturation Delay	
15:30-16:00	**Shuixian Yan (Gannan Normal University, Peoples Rep of China)** Critical Value in a SIR Network Model with Heterogeneous Infectiousness and Susceptibility	

SS 6	**Special Session on Fractal Geometry, Dynamical Systems, and Their Applications** Organizer(s): Sangita Jha, Mrinal Roychowdhury, Saurabh Verma	**LH143**
14:00-14:30	**Derek Smith (Lafayette College, USA)** Average Geodesic Distances in Generalized Sierpinski Carpets	
14:30-15:00	**Raffaela Capitanelli (Sapienza University of Roma, Italy)** Analysis on Fractal Geometry	
15:00-15:30	**Mark D Comerford (University of Rhode Island, USA)** A Universal Fatou Component	
15:30-16:00	**Ethan Berkove (Lafayette College, USA)** Geodesic Taxicab Paths in Generalizations of the Sierpinski Carpet	

SS 9	**Stochastic Analysis and Large Scale Interacting Systems** Organizer(s): Danielle Hilhorst, Sunder Sethuraman, Bin Xie	**LH132**
14:00-14:30	**Honghu Liu (Virginia Tech, USA)** Optimal Parameterizing Manifolds and Reduced Systems for Stochastic Transitions	
14:30-15:00	**Chuntian Wang (The University of Alabama, USA)** A Martingale Formulation for Stochastic Compartmental Susceptible-Infected-Recovered (SIR) Models to Analyze Finite Size Effects in COVID-19 Case Studies	
15:00-15:30	**Ioannis Gasteratos (Imperial College London, England)** Large Deviations of Slow-Fast Systems Driven by Fractional Brownian Motion	
15:30-16:00	**Hongwei Long (Florida Atlantic University, USA)** Least Squares Estimators for Stochastic Logistic Model Driven by Small Levy Noises	

SS 15	**Recent Advances on Population Models in Ecology and Epidemiology** Organizer(s): Junping Shi, Zhisheng Shuai, Yixiang Wu	**MO209**
14:00-14:30	**Jin Wang (University of Tennessee at Chattanooga, USA)** Multiscale Models for Cholera Dynamics	
14:30-15:00	**Jerome Goddard II (Auburn University Montgomery, USA)** Ecological Release and Patch Geometry Can Cause Nonlinear Density-Area Relationships	
15:00-15:30	**Rongsong Liu (University of Wyoming, USA)** An Approach to Model the Bird Migration and The Transmisssion Dynamics of Bird Flu Among Migration Birds	
15:30-16:00	**Suzanne Lenhart (U of Tennessee, Knoxville, USA)** Modeling the Impacts of Temperature During Nesting Seasons on Loggerhead Sea Turtles Populations in South Florida	

SS 16	**Celestial Mechanics and Hamiltonian Systems** Organizer(s): Manuele Santoprete, Cristina Stoica, Zhifu Xie, Marian Gidea	**MO207**
14:00-14:30	**Edward Belbruno (Yeshiva Univ. and Princeton Univ., USA)** Applications of the McGehee Regularization to Astrophysics, Cosmology and Celestial Mechanics	
14:30-15:00	**Anna Maria Cherubini (Università Del Salento, Italy)** Energy Drift in Randomly Perturbed Hamiltonian Systems	
15:00-15:30	**Alex Haro (Universitat de Barcelona and CRM, Spain)** A Modified Parameterization Method for Invariant Lagrangian Tori for Partially Integrable Hamiltonian Systems	
15:30-16:00	**Marian Gidea (Yeshiva University, USA)** Arnold Diffusion in the Elliptic Hill Four-Body Problem	

SS 23	**Topological and Variational Methods for Differential Equations** Organizer(s): John Graef, Lingju Kong, Min Wang	**CI1007**
14:00-14:30	**Miroslawa Zima (Institute of Mathematics, University of Rzeszow, Poland)** Positive Solutions to a Third Order Boundary Value Problem with a Parameter	
14:30-15:00	**Wenying Feng (Trent University, Canada)** The Linear and Nonlinear Parts of a Semi-Linear Operator on Fixed Point Index	
15:00-15:30	**Jeffrey T Neugebauer (Eastern Kentucky University, USA)** Green's Functions for a Two-Term Boundary Value Problem	
15:30-16:00	**Min Wang (Kennesaw State University, USA)** A Variational Framework for Second Order Backward Discrete Boundary Value Problems	

SS 32	**Recent Developments in Mathematical Theories of Complex Fluids** Organizer(s): Xianpeng Hu, Yong Yu, Chenyun Luo	**LH131**
14:00-14:30	**Chun Liu (Illinois Institute of Technology, USA)** Energetic Variational Approaches in Active Materials and Reactive Fluids	
14:30-15:00	**Tao Huang (Wayne State University, USA)** Poiseuille Flow of Full Ericksen-Leslie System Modeling Nematic Liquid Crystal Flows	
15:00-15:30	**Xianpeng Hu (City University of Hong Kong, Peoples Rep of China)** Incompressible Limit of Three Dimensional Compressible Viscoelastic Systems with Vanishing Shear Viscosity	
15:30-16:00	**Yong Yu (The Chinese University of Hong Kong, Hong Kong)** PNP and Keller Segel Equation and Their Related Topics	

SS 33	**Modeling and Data Analysis for Complex Systems and Dynamics** Organizer(s): Jianzhong Su, Padmanabhan Seshaiyer, Lixia Duan, Pengcheng Xiao	**MO206**
14:00-14:30	**Padmanabhan Seshaiyer (George Mason University, USA)** Data-Driven Approaches for Predicting Transmission Dynamics of Infectious Diseases	
14:30-15:00	**Lixia Duan (North China University of Technology, Peoples Rep of China)** Dynamics of Mixed Bursting in the Pre-Botzinger Complex Model	
15:00-15:30	**Morten G Pedersen (University of Padua, Italy)** Coupling-Induced Mixed-Mode Oscillations by Symmetry Breaking Via Cusped Singularities	
15:30-16:00	**Janet A Best (The Ohio State University, USA)** The Complexity of Neuromodulation	

SS 34	**Variational, Topological and Set-Valued Methods for Nonlinear Differential Problems** Organizer(s): Giuseppina D'Aguì, Angela Sciammetta, Patrick Winkert, Eleonora Amoroso	**ST1009**
14:00-14:30	**Shibo Liu (Florida Institute of Technology, USA)** Nontrivial Solutions for Indefinite Schrödinger Type Equations	
14:30-15:00	**Elisabetta Tornatore (University of Palermo, Italy)** Nonhomogeneous Degenerate Quasilinear Problems with Convection	

SS 53	**Qualitative and Quantitative Techniques for Differential Equations Arising in Applied and Natural Sciences** Organizer(s): Rehana Naz, Stephane Lafortune, Imran Naeem	**LH108**
14:00-14:30	**Stephen Anco (Brock University, Canada)** Exact Solitary Wave Solutions for a Coupled GKdV-NLS System	
14:30-15:00	**Bin Xie (Shinshu University, Japan)** Scalar Backward Stochastic Differential Equations	
15:00-15:30	**Priscila da Silva (Universidade Federal do ABC, Brazil)** A Novel Explicit Solution for a Novikov Equation	
15:30-16:00	**Igor L Freire (UFSCar, Brazil)** Asymptotic Profiles for Solutions of a Generalised Shallow Water Model	

SS 55	**Sparse Signal Learning and Its Applications in Data Science** Organizer(s): Xuemei Chen, Longxiu Huang, Jing Qin	**LH136**
14:30-15:00	**Chunyang Liao (Texas A & M University, USA)** Optimal Recovery from Inaccurate Observations	
15:00-15:30	**Christopher Dock (Tufts University, USA)** Instability of the Infinite Dimensional Operator Recovery Problem	

SS 59	**Interplays Between Statistical Learning and Optimization** Organizer(s): Qiang Wu, Xuemei Chen, Yiming Ying	**LH110**
14:00-14:30	**Ebenezer Oluwasakin (Middle Tennessee State University, USA)** Data-Driven Deep Learning Neural Networks for Predicting the Number of Individuals Infected by COVID-19 Omicron Variant	
14:30-15:00	**Tian-Yi Zhou (Georgia Institute of Technology, USA)** Learning Ability of Interpolating Deep Convolutional Neural Networks	
15:00-15:30	**Matthew B Ogden (Middle Tennessee State University, USA)** Exploring Dynamical Parameters of Interacting Galaxies Using Deep Learning and Optimization	

SS 79	**Recent Advancements in the Numerical Analysis of Nonlinear Partial Differential Equations** Organizer(s): Tom Lewis, Yi Zhang	**ST2005**
14:00-14:30	**Amanda E Diegel (Mississippi State University, USA)** Continuous Data Assimilation and Long-Time Accuracy in a C0-IP Method for the Cahn-Hilliard Equation	
14:30-15:00	**Satyajith B Boyana (University of North Caroliina, Greensboro, USA)** Dual-Wind Discontinuous Galerkin Method and Its Application to an Optimal Control Problem and A Parabolic Variational Inequality	
15:00-15:30	**Christopher B Davis (Tennessee Tech, USA)** A Conforming Partition of Unity Method for a Class of Variational Inequalities of the Second Kind	
15:30-16:00	**Olena Burkovska (Oak Ridge National Laboratory, USA)** Nonlocal Variational Inequalities for Phase-Field Modeling in Solidification	

SS 80	**Inverse Problems and Imaging** Organizer(s): Ru-Yu Lai, Gunther Uhlmann, Yang Yang	**LH111**
14:00-14:30	**Katya Krupchyk (UC Irvine, USA)** Fractional Anisotropic Calderon Problem on Riemannian Manifolds	
14:30-15:00	**Lili Yan (University of Minnesota, USA)** Inverse Boundary Problems for Biharmonic Operators and Nonlinear PDEs on Riemannian Manifolds	
15:00-15:30	**Hanming Zhou (University of California Santa Barbara, USA)** Stability and Statistical Inversion for Travel Time Tomography	
15:30-16:00	**Li Li (University of California, Irvine, USA)** Unique Determination of the Variable Coefficients in Fractional Equations	

SS 83	**Scientific Machine Learning for Dynamics Related Inverse Problems** Organizer(s): Yanhzao Cao, Feng Bao, Guannan Zhang	**MO205**
14:00-14:30	**Rick Archibald (Oak Ridge National Laboratory, USA)** Federated Learning for Scientific Facilities	
14:30-15:00	**Wuchen Li (University of South Carolina, USA)** Controlling Regularized Conservation Laws Via Entropy-Entropy Flux Pairs	
15:00-15:30	**Minglei Yang (Oak Ridge National Laboratory, USA)** A Pseudo-Reversible Normalizing Flow for Stochastic Dynamical Systems with Arbitrary Initial Distributions	
15:30-16:00	**Hoang A Tran (Oak Ridge National Laboratory, USA)** High-Dimensional Optimization with a Novel Nonlocal Gradient	

SS 84	**Recent Developments in Understanding of Nonlinear Phenomena in Fluid Dynamics, Biology, Statistical Mechanics and Optics** Organizer(s): Rafail Abramov, Gregor Kovacic	**LH104**
14:00-14:30	**Sergey Dyachenko (State University of New York at Buffalo, USA)** Novel Approach to Finding Stability of Water Waves	
14:30-15:00	**Katie Newhall (University of North Carolina at Chapel Hill, USA)** Nonlocal Stochastic-Partial-Differential-Equation Limits of Spatially Correlated Noise-Driven Spin Systems Derived to Sample a Canonical Distribution	
15:00-15:30	**Gregor Kovacic (Rensselaer Polytechnic Institute, USA)** Slow Pulse Propagation in a Damped, Two-Level, Active Optical Medium	
15:30-16:00	**Ilya Timofeyev (University of Houston, USA)** Non-Exponential Reversal Times in Models of Bacterial Aggregation	

SS 87	**Integrable Systems, Turbulence and Water Waves** Organizer(s): Sergey Dyachenko, Anastassiya Semenova, Denis Silantyev	**LH107**
14:00-14:30	**Katie Oliveras (Seattle University, USA)** Nonlocal Formulations, Inverse Problems and Conservation Laws for Water Waves	
14:30-15:00	**Sergey Dyachenko (State University of New York at Buffalo, USA)** Traveling Waves on a 2D Fluid	
15:00-15:30	**Anastassiya Semenova (University of Washington, USA)** Instability of Stokes Waves in Infinite Depth Fluid	
15:30-16:00	**Eleanor D Byrnes (University of Washington, USA)** The Instabilities of Finite-Depth Stokes Waves	

CS 3	**Modeling, Math Biology and Math Finance**	**LH139**
14:00-14:20	**Tahmineh Azizi (University of Wisconsin-Madison, USA)** Analysis of Neuronal Oscillations of Fractional-Order Morris-Lecar Model	
14:20-14:40	**Haridas Kumar Das (Oklahoma State University, USA)** Mathematical Modeling of Pandemics in a Metapopulation: New Insights from the SIR-Network Model	
14:40-15:00	**Scott Greenhalgh (Siena College, USA)** A Generalized ODE Susceptible-Infectious-Susceptible Compartmental Model with Potentially Periodic Behavior	
15:00-15:20	**Scott Greenhalgh (Siena College, USA)** Generalized Differential Equation Models for Disease Interventions: a Novel Approach for Predicting Sexually Transmitted Disease Outbreaks	

SS 6	**Special Session on Fractal Geometry, Dynamical Systems, and Their Applications** Organizer(s): Sangita Jha, Mrinal Roychowdhury, Saurabh Verma	**LH143**
16:30-17:00	**Yuto Nakajima (Keio University, Japan)** Hausdorff Dimension of Sets with Restricted, Slowly Growing Partial Quotients in the Semi-Regular Continued Fraction	
17:00-17:30	**Daniel Ingebretson (Ben-Gurion University of the Negev, Israel)** Exact Hausdorff and Packing Measures of Some Sets of Digital and Luroth Expansions	
17:30-18:00	**Takayuki Watanabe (Chubu University, Japan)** On the Stochastic Bifurcations Regarding Random Iterations of Polynomials of the Form $Z^2 + C_n$	
18:00-18:30	**Taylor Jones (University of North Texas, USA)** Random Cantor Subsets Generated by Branching Random Walks	

SS 9	**Stochastic Analysis and Large Scale Interacting Systems** Organizer(s): Danielle Hilhorst, Sunder Sethuraman, Bin Xie	**LH132**
16:30-17:00	**Ludovic Goudenege (CNRS, France)** Schemes for SDE/SPDE with Singular Drifts	
17:00-17:30	**Kerstin Schmitz (University of Duisburg-Essen, Germany)** Convergence of a Finite-Volume Scheme for a Heat Equation with Multiplicative Lipschitz Noise	
17:30-18:00	**Aleksandra Zimmermann (University of Duisburg-Essen and TU Clausthal, Germany)** Well-Posedness and Lewy-Stampaccia Inequalities for Nonlinear Stochastic Evolution Equations	
18:00-18:30	**Manuel V Gnann (TU Delft, Netherlands)** Stability of Waves for SPDEs	
18:30-19:00	**Michael Röckner (University of Bielefeld, Germany)** Strong Feller Semigroups and Markov Processes: a Counterexample	

SS 15	**Recent Advances on Population Models in Ecology and Epidemiology** Organizer(s): Junping Shi, Zhisheng Shuai, Yixiang Wu	**MO209**
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17:00-17:30	**Guy Katriel (Braude College, Israel)** Dispersal-Induced Growth: a Mathematical Analysis	
17:30-18:00	**Ying Zhou (Lafayette College, USA)** Ideal Free Dispersal in Integrodifference Equation Models	
18:00-18:30	**Tung D Nguyen (Texas A & M University, USA)** Maximizing Metapopulation Growth Rate and Biomass in Stream Networks	
18:30-19:00	**Seoyun Choe (University of Central Florida, USA)** The Impact of Travel Restriction on Patterns of Disease Dynamics for Multi-Patch Models	

SS 23	**Topological and Variational Methods for Differential Equations** Organizer(s): John Graef, Lingju Kong, Min Wang	**CI1007**
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17:00-17:30	**Christopher Goodrich (UNSW Sydney, USA)** A Topological Approach to Nonlocal Elliptic Partial Differential Equations on an Annulus	
17:30-18:00	**Dan Maroncelli (College of Charleston, USA)** Weakly Nonlinear Boundary Value Problems for Various Partial Differential Equations	
18:00-18:30	**Seol Vin Kim (Seoul National University, Korea)** On a New Class of Kirchhoff Equations Involving the P (X)-Laplacian	
18:30-19:00	**Lingju Kong (University of Tennessee at Chattanooga, USA)** On the Spectrum of Biharmonic Systems	

SS 32	**Recent Developments in Mathematical Theories of Complex Fluids** Organizer(s): Xianpeng Hu, Yong Yu, Chenyun Luo	**LH131**
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17:00-17:30	**Giusy Mazzone (Queen's University, Canada)** On the Interaction Between a Harmonic Oscillator and A Viscous Fluid	
17:30-18:00	**Xiao Liu (University of Illinois Urbana-Champaign, USA)** Capillary Gravity Water Waves Linearized at Monotone Shear Flows: Eigenvalues and Inviscid Damping	
18:00-18:30	**Chenyun Luo (Chinese University of Hong Kong, Hong Kong)** A Generalized Beale-Kato-Majda Breakdown Criterion for the 3D Free-Boundary Problem in Euler Equations with Surface Tension	
18:30-19:00	**Leonardo Abbrescia (Vanderbilt University, USA)** The Maximal Classical Development for Shock Forming Solutions of the 3D Compressible Euler Equations	

SS 33	**Modeling and Data Analysis for Complex Systems and Dynamics** Organizer(s): Jianzhong Su, Padmanabhan Seshaiyer, Lixia Duan, Pengcheng Xiao	**MO206**
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17:00-17:30	**Yixin Guo (Drexel University, USA)** Traveling Front Solution Stability in a Lateral Inhibition Network in the Neural Field Model	
17:30-18:00	**Alice Lubbe (University of Texas at Arlington, USA)** A Validated Brain Metabolism Model	

SS 48	**Mathematical Modeling and Optimization Techniques** Organizer(s): Narinder Singh, Mehar Chand, Satya Bir Singh	**LH141**
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17:00-17:30	**Abera Elias (Andhra Univerisity, India)** Determinants of Expenditure Budget Implementation in Ethipian Southern State Public Sector.	

SS 53	**Qualitative and Quantitative Techniques for Differential Equations Arising in Applied and Natural Sciences** Organizer(s): Rehana Naz, Stephane Lafortune, Imran Naeem	**LH108**
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SS 55	**Sparse Signal Learning and Its Applications in Data Science** Organizer(s): Xuemei Chen, Longxiu Huang, Jing Qin	**LH136**
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17:00-17:30	**Julia Dobrosotskaya (Case Western Reserve University, USA)** Data Adaptive Multiscale Bases Inducing Joint Compressibility	
17:30-18:00	**Keaton Hamm (University of Texas at Arlington, USA)** Fast Algorithms Via Matrix Subsampling	
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SS 79	**Recent Advancements in the Numerical Analysis of Nonlinear Partial Differential Equations** Organizer(s): Tom Lewis, Yi Zhang	**ST2005**
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17:00-17:30	**Yanlai Chen (UMass Dartmouth, USA)** A New Conservative Discontinuous Galerkin Method Via Implicit Penalization for the Generalized KdV Equation	
18:00-18:30	**Xingjie Li (University of North Carolina Charlotte, USA)** ISALT: Inference-Based Schemes Adaptive to Large Time-Stepping for Locally Lipschitz Ergodic Systems	

SS 80	**Inverse Problems and Imaging** Organizer(s): Ru-Yu Lai, Gunther Uhlmann, Yang Yang	**LH111**
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SS 83	**Scientific Machine Learning for Dynamics Related Inverse Problems** Organizer(s): Yanhzao Cao, Feng Bao, Guannan Zhang	**MO205**
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17:00-17:30	**Hans Werner Van Wyk (Auburn University, USA)** Incorporating Auxiliary Data in Parameter Estimation Through Machine Learning	
17:30-18:00	**MIroslav Stoyanov (Oak Ridge National Lab, USA)** Multidimensional Quadrature Rule for Non-Positive Weight Functions	
18:00-18:30	**Lijin Wang (University of Chinese Academy of Sciences, Peoples Rep of China)** On Structure-Preserving Numerical Methods for Stochastic Poisson Systems	

SS 84	**Recent Developments in Understanding of Nonlinear Phenomena in Fluid Dynamics, Biology, Statistical Mechanics and Optics** Organizer(s): Rafail Abramov, Gregor Kovacic	**LH104**
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17:00-17:30	**Rafail Abramov (University of Illinois at Chicago, USA)** Turbulence Via Intermolecular Potential	
17:30-18:00	**Pavel M Lushnikov (University of New Mexico, USA)** Collapse Versus Blow-Up and Global Existence in the Generalized Constantin-Lax-Majda Equation with Dissipation	
18:00-18:30	**Ibrahim Fatkullin (University of Arizona, USA)** Gibbs Measures, Limit Shapes, and Stochastic Dynamics on Partitions and Their Hydrodynamic Limits	

SS 87	**Integrable Systems, Turbulence and Water Waves** Organizer(s): Sergey Dyachenko, Anastassiya Semenova, Denis Silantyev	**LH107**
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17:00-17:30	**Alexander Chernyavsky (SUNY Buffalo, USA)** Whitham Modulation Theory for Zakharov-Kuznetsov Equation	
17:30-18:00	**Gino Biondini (State University of New York at Buffalo, USA)** Whitam modulation theory for multi-dimensional nonlinear wave equations and applications	
18:00-18:30	**Sarbarish Chakravarty (University of Colorado, Colorado Springs, USA)** Rational solutions of KPI	

CS 2	**PDEs and Applications**	**MO206**
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17:10-17:30	**Naofumi Mori (Tokyo University of Marine Science and Technology, Japan)** Difference in Decay Properties for Symmetric Hyperbolic System with Memory-Type Diffusion and Relaxation	
17:30-17:50	**Mohammad M Algharabli (KFUPM, Saudi Arabia)** Stabilization of Some Hyperbolic Systems by Means of Viscoelastic Damping or/and Variable Exponent Frictional Damping	
17:50-18:10	**Johnson Daddy Audu (King Fahd University of Petroleum and Minerals, Saudi Arabia)** Stability Analysis for a Thermoelastic Timoshenko System with Past History and General Relaxation Function	
18:10-18:30	**Mohammad M Kafini (King Fahd University of Petroleum and Minerals-KFUPM, Saudi Arabia)** Boundedness of Blow-Up Time to a Wave Equation with Logarithmic Variable-Exponent Nonlinearity	

SS 6	**Special Session on Fractal Geometry, Dynamical Systems, and Their Applications** Organizer(s): Sangita Jha, Mrinal Roychowdhury, Saurabh Verma	**LH143**
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8:30-9:00	**Yunping Jiang (The City University of New York-Queens College and Graduate Center, USA)** Global Graphs of the Metric Entropy of SRB Measures	
9:00-9:30	**Nathan A Dalaklis (University of North Texas, USA)** The Partial Derivative of Okamoto's Functions with Respect to the Parameter	
9:30-10:00	**Chris D Lynd (Bloomsburg University, USA)** Rational-Linear Anticompetitive Systems of Difference Equations	

SS 9	**Stochastic Analysis and Large Scale Interacting Systems** Organizer(s): Danielle Hilhorst, Sunder Sethuraman, Bin Xie	**LH132**
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9:00-9:30	**Le Chen (Auburn University, USA)** Moment Growth and Intermittency for SPDEs in the Sublinear-Growth Regime	
9:30-10:00	**Christopher Henderson (University of Arizona, USA)** Directed Polymers, a Non-Local Reaction-Diffusion Equation, and Fisher-KPP	

SS 13	**Nonlinear Differential and Difference Equations with Applications to Population Dynamics** Organizer(s): Kunquan Lan, Elena Braverman, Gunog Seo	**CI1012**
8:00-8:30	**Yun Kang (Arizona State University, USA)** The Role of Demographic and Environmental Stochasticity in a Single Population Model with Component Allee Effects	
8:30-9:00	**Dustin Nichols (UNC Greensboro, USA)** Modeling the Effects of Trait-Mediated Dispersal on Coexistence of Competitors and Coexistence of Predator-Prey Species	
9:00-9:30	**James Yorke (University of Maryland, USA)** Populations Die-Outs in Ecosystems	
9:30-10:00	**Alketa Henderson (UNC Greensboro, USA)** On the Effects of Density-Dependent Dispersal on Ecological Models with Logistic and Weak Allee Type Growth Terms	

SS 33	**Modeling and Data Analysis for Complex Systems and Dynamics** Organizer(s): Jianzhong Su, Padmanabhan Seshaiyer, Lixia Duan, Pengcheng Xiao	**MO206**
8:00-8:30	**Steven Collazos (University of Minnesota Morris, USA)** Neural Coding and Low-Rank Networks	
8:30-9:00	**Honghui Zhang (Northwestern Polytechnical University, Peoples Rep of China)** Activity Pattern Analysis of the Subthalamopallidal Network Under ChR2 Photocurrent Control	
9:00-9:30	**Changpin Li (Shanghai University, Peoples Rep of China)** Logarithmic Asymptotics in Fractional Evolution Equation: Analysis and Computation	
9:30-10:00	**Suyu Liu (Hangzhou Dianzi University, Peoples Rep of China)** Epileptic Neurodynamics Associated with D-Serine Regulations	

SS 48	**Mathematical Modeling and Optimization Techniques** Organizer(s): Narinder Singh, Mehar Chand, Satya Bir Singh	**LH141**
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8:30-9:00	**Teshale Bonje (Punjabi University, Patiala, India)** Impacts of Migration on Family Members Left Behind: the Case of Damboya Woreda, Kembata Tembaro Zone South Nation Nationalities and People Region- Ethiopia	
9:00-9:30	**Obaidullah Hotak (University School of Applied Management (USAM), Punjabi University Patiala, India)** Empirical Analysis of Customers Satisfaction Regarding Banking Services	
9:30-10:00	**Satya Bir Singh (Punjabi University, Patiala, India)** Advanced Autonomous Groups Strategy Based Optimization Algorithms for Real World Applications	

SS 53	**Qualitative and Quantitative Techniques for Differential Equations Arising in Applied and Natural Sciences** Organizer(s): Rehana Naz, Stephane Lafortune, Imran Naeem	**LH108**
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8:30-9:00	**Justin Munyakazi (University of the Western Cape, So Africa)** A New Discretization of the Singularly Perturbed Burgers-Huxley Equation	
9:00-9:30	**Danielle Hilhorst (CNRS and University Paris-Sud, France)** Convergence to a Self Similar Solution for a One Phase Stefan Problem Arising in Corrosion Theory	
9:30-10:00	**Miaohua Jiang (Wake Forest University, USA)** Gradient Flow of the SBR Entropy	

SS 72	**Optimal Transport and Mean Field Games with Applications and Computations** Organizer(s): Zixuan Cang, Wuchen Li, Yanxiang Zhao	**LH111**
8:00-8:30	**Suraj Shankar (Harvard University, USA)** Optimally Transporting Active Fluids	
8:30-9:00	**Shu Liu (UCLA, USA)** Parametrization and Computation of Wasserstein Hamiltonian Flows	
9:00-9:30	**Caroline Moosmueller (University of North Carolina at Chapel Hill, USA)** Approximations and Learning in the Wasserstein Space	
9:30-10:00	**Jina-Guo Liu (Duke University, USA)** Master Equations for Finite State Mean Field Games with Nonlinear Activations	

SS 79	**Recent Advancements in the Numerical Analysis of Nonlinear Partial Differential Equations** Organizer(s): Tom Lewis, Yi Zhang	**ST2005**
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9:30-10:00	**Xiaohuan Xue (University of North Carolina at Greensboro, USA)** Convergent Finite Difference Methods with Higher Order Local Truncation Errors for Stationary Hamilton-Jacobi Equations	

SS 6	**Special Session on Fractal Geometry, Dynamical Systems, and Their Applications** Organizer(s): Sangita Jha, Mrinal Roychowdhury, Saurabh Verma	**LH143**
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11:00-11:30	**Christian Wolf (The City College of New York, USA)** Ergodic Theory of Coded Shift Spaces: Measures of Maximal Entropy and Equilibrium States	
11:30-12:00	**Mrinal Roychowdhury (University of Texas Rio Grande Valley, USA)** Quantization for Probability Distributions	
12:00-12:30	**Shrey Sanadhya (Ben Gurion University of the Negev, Israel)** Recent Progress in Periodic Tiling Conjecture.	

SS 9	**Stochastic Analysis and Large Scale Interacting Systems** Organizer(s): Danielle Hilhorst, Sunder Sethuraman, Bin Xie	**LH132**
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11:00-11:30	**Dejun Luo (Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Peoples Rep of China)** Scaling Limit for Moderately Interacting Particle Systems with Environmental Noise	
11:30-12:00	**Kenkichi Tsunoda (Faculty of Mathematics, Kyushu University, Japan)** Scaling Limits for Glauber–Kawasaki Processes	
12:00-12:30	**Sunder Sethuraman (University of Arizona, USA)** Hydrodynamic Limit in a 'Sinai'-Type Random Environment	

SS 13	**Nonlinear Differential and Difference Equations with Applications to Population Dynamics** Organizer(s): Kunquan Lan, Elena Braverman, Gunog Seo	**CI1012**
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SS 48	**Mathematical Modeling and Optimization Techniques** Organizer(s): Narinder Singh, Mehar Chand, Satya Bir Singh	**LH141**
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11:00-11:30	**Narinder Singh (Punjabi University, Patiala, India)** An Enhanced Coot Optimizer for Multi-Disciplinary Optimization Applications	
11:30-12:00	**Harbhajan Singh (Baba Farid College, India)** On Certain Integrals Involving (P,K)-Mittag-Leffler Function	

SS 72	**Optimal Transport and Mean Field Games with Applications and Computations** Organizer(s): Zixuan Cang, Wuchen Li, Yanxiang Zhao	**LH111**
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11:00-11:30	**Guosheng Fu (University of Notre Dame, USA)** High Order Spatial Discretization for Variational Time Implicit Schemes: Wasserstein Gradient Flows and Reaction-Diffusion Systems	
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SS 79	**Recent Advancements in the Numerical Analysis of Nonlinear Partial Differential Equations** Organizer(s): Tom Lewis, Yi Zhang	**ST2005**
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11:00-11:30	**Xiaochuan Tian (University of California, San Diego, USA)** A Convergent Monotone Scheme for a Nonlocal Segregation Model with Free Boundary	
11:30-12:00	**Axel Turnquist (University of Texas at Austin, USA)** Finite-Difference Methods for Computing Optimal Transport PDE on the Unit Sphere	
12:00-12:30	**Nana Adjoah Mbroh (North-West University, So Africa)** A Second Order Fitted Operator Finite Difference Scheme for a Modified Burgers Equation	

SS 6	**Special Session on Fractal Geometry, Dynamical Systems, and Their Applications** Organizer(s): Sangita Jha, Mrinal Roychowdhury, Saurabh Verma	**LH143**
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14:30-15:00	**Mary Wilkerson (Coastal Carolina University, USA)** Unmating of Expanding Thurston Maps with Julia Set $\mathbb{S}^2$	
15:00-15:30	**Kanji Inui (School of Fundamental Science and Technology, Keio University, Japan)** Understanding the Limit Sets Generated by General Iterated Function Systems on Unbounded Space	
15:30-16:00	**Jason Atnip (University of Queensland, Australia)** Compound Poisson Statistics for Dynamical Systems Via Spectral Perturbation	

SS 9	**Stochastic Analysis and Large Scale Interacting Systems** Organizer(s): Danielle Hilhorst, Sunder Sethuraman, Bin Xie	**LH132**
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Columbu, Alessandro	SS34, PS8, Friday, June 2, 18:00-18:30
Comerford, Mark	SS6, PS10, Saturday, June 3, 15:00-15:30
Cosner, Chris	SS29, PS7, Friday, June 2, 14:30-15:00
Cosner, Chris	SS7, PS2, Wednesday, May 31, 16:00-16:30
Costa, David	SS50, PS6, Friday, June 2, 9:30-10:00
Courdurier, Matias	SS80, PS9, Saturday, June 3, 8:00-8:30
Cox, Graham	SS24, PS6, Friday, June 2, 8:30-9:00
Craib, Christine	CS3, PS5, Thursday, June 1, 16:30-16:50
Creo, Simone	SS39, PS2, Wednesday, May 31, 17:30-18:00
Crespo-Blanco, Angel	SS34, PS7, Friday, June 2, 15:00-15:30
Crespo-Blanco, Angel	SS75, PS6, Friday, June 2, 9:00-9:30
Cubillos, Pablo	SS3, PS3, Thursday, June 1, 9:00-9:30
Curran, Mitchell	SS24, PS7, Friday, June 2, 15:00-15:30
d'Aguì, Giuseppina	SS56, PS4, Thursday, June 1, 15:30-16:00
da Silva, Priscila	SS45, PS3, Thursday, June 1, 8:30-9:00
da Silva, Priscila	SS53, PS10, Saturday, June 3, 15:00-15:30
Dai, Mimi	SS27, PS1, Wednesday, May 31, 14:00-14:30
Dai, Wanyang	SS19, PS3, Thursday, June 1, 8:30-9:00
Dai, Wanyang	SS36, PS5, Thursday, June 1, 17:30-18:00
Dalaklis, Nathan	SS6, PS12, Sunday, June 4, 9:00-9:30
Dalalana, Gabriel	SS90, PS4, Thursday, June 1, 15:00-15:30
Dalbono, Francesca	SS34, PS7, Friday, June 2, 14:30-15:00
Danielli, Donatella	SS52, PS5, Thursday, June 1, 16:30-17:00
Danielli, Donatella	SS75, PS6, Friday, June 2, 8:30-9:00
Davis, Christopher	SS79, PS10, Saturday, June 3, 15:00-15:30
de Bonis, Ida	SS18, PS1, Wednesday, May 31, 13:30-14:00
de Teresa, Luz	SS61, PS3, Thursday, June 1, 9:00-9:30
Debussche, Arnaud	SS19, PS6, Friday, June 2, 9:00-9:30
del Pino, Manuel	SS50, PS6, Friday, June 2, 8:30-9:00
Denaro, Christopher	SS25, PS8, Friday, June 2, 18:00-18:30
Denu, Dawit	SS63, PS1, Wednesday, May 31, 13:30-14:00
Diegel, Amanda	SS51, PS6, Friday, June 2, 9:00-9:30
Diegel, Amanda	SS79, PS10, Saturday, June 3, 14:00-14:30
Dipierro, Serena	SS39, PS2, Wednesday, May 31, 16:00-16:30
Dipierro, Serena	SS56, PS4, Thursday, June 1, 14:30-15:00
Dlotko, Tomasz	CS2, PS4, Thursday, June 1, 15:40-16:00
Dobrosotskaya, Julia	SS55, PS11, Saturday, June 3, 17:00-17:30
Dock, Christopher	SS55, PS10, Saturday, June 3, 15:00-15:30
Dolce, Michele	SS47, PS1, Wednesday, May 31, 15:00-15:30
Droz, Dana	CS3, PS5, Thursday, June 1, 17:10-17:30
Du, Hengrong	SS32, PS9, Saturday, June 3, 9:00-9:30
Du, Lin	SS33, PS11, Saturday, June 3, 16:30-17:00
Du, Shukai	SS73, PS5, Thursday, June 1, 17:30-18:00
Du, Yihong	SS7, PS1, Wednesday, May 31, 13:30-14:00
Duan, Lixia	SS33, PS10, Saturday, June 3, 14:30-15:00
Ducasse, Romain	SS8, PS4, Thursday, June 1, 14:00-14:30
Dunlap, Alexander	SS19, PS6, Friday, June 2, 8:30-9:00
Dyachenko, Sergey	SS84, PS10, Saturday, June 3, 14:00-14:30
Dyachenko, Sergey	SS87, PS10, Saturday, June 3, 14:30-15:00
Eden, Michael	SS18, PS1, Wednesday, May 31, 14:30-15:00
Edidin, Dan	SS62, PS7, Friday, June 2, 15:30-16:00
Edward, Julian	SS43, PS7, Friday, June 2, 14:30-15:00
Elias, Abera	SS48, PS11, Saturday, June 3, 17:00-17:30
Eloe, Paul	SS13, PS8, Friday, June 2, 16:30-17:00
Eloe, Paul	SS23, PS9, Saturday, June 3, 8:00-8:30
Esenturk, Emre	SS51, PS6, Friday, June 2, 8:00-8:30
Esquivel-Avila, Jorge	SS14, PS1, Wednesday, May 31, 14:00-14:30
Espanol, Malena	SS54, PS2, Wednesday, May 31, 17:00-17:30
Esquivel-Avila, Jorge	SS65, PS2, Wednesday, May 31, 16:00-16:30
Ezzat, Hossam	CS1, PS3, Thursday, June 1, 9:00-9:20

Falcon, Claudia	SS53, PS9, Saturday, June 3, 8:30-9:00
Fang, Jian	SS13, PS13, Sunday, June 4, 10:30-11:00
Farah, Luiz	SS21, PS3, Thursday, June 1, 9:00-9:30
Fatkullin, Ibrahim	SS84, PS11, Saturday, June 3, 18:00-18:30
Fay, Irina	SS52, PS7, Friday, June 2, 15:00-15:30
Feireisl, Eduard	SS27, PS5, Thursday, June 1, 16:30-17:00
Feireisl, Eduard	SS7, PS4, Thursday, June 1, 14:00-14:30
Feitosa da Silva, Pedro	SS52, PS8, Friday, June 2, 18:00-18:30
Feng, Wei	SS13, PS6, Friday, June 2, 9:30-10:00
Feng, Wenying	SS13, PS8, Friday, June 2, 18:00-18:30
Feng, Wenying	SS23, PS10, Saturday, June 3, 14:30-15:00
Feng, Yunlong	SS59, PS8, Friday, June 2, 17:30-18:00
Fernández, Antonio	SS47, PS2, Wednesday, May 31, 16:00-16:30
Fernandes da Silva, Juliana	SS71, PS3, Thursday, June 1, 9:00-9:30
Ferone, Vincenzo	SS34, PS9, Saturday, June 3, 8:00-8:30
Ferone, Vincenzo	SS56, PS4, Thursday, June 1, 14:00-14:30
Filippakis, Michael	SS30, PS6, Friday, June 2, 9:30-10:00
Filippakis, Michael	SS5, PS4, Thursday, June 1, 15:30-16:00
Fiscella, Alessio	SS34, PS9, Saturday, June 3, 9:00-9:30
Fleurantin, Emmanuel	SS24, PS8, Friday, June 2, 16:30-17:00
Foldes, Juraj	SS77, PS7, Friday, June 2, 15:30-16:00
Fontana, Luigi	SS10, PS5, Thursday, June 1, 16:30-17:00
Forest, M. Greg	SS66, PS5, Thursday, June 1, 17:00-17:30
Foxall, Eric	SS81, PS6, Friday, June 2, 9:00-9:30
Frassu, Silvia	SS34, PS7, Friday, June 2, 15:30-16:00
Frassu, Silvia	SS56, PS1, Wednesday, May 31, 14:00-14:30
Frederiksen, Christian	SS81, PS8, Friday, June 2, 17:00-17:30
Freire, Igor	SS45, PS2, Wednesday, May 31, 16:30-17:00
Freire, Igor	SS53, PS10, Saturday, June 3, 15:30-16:00
Fu, Guosheng	SS72, PS13, Sunday, June 4, 11:00-11:30
Fukao, Takeshi	SS18, PS5, Thursday, June 1, 18:00-18:30
Furati, Khaled	SS70, PS1, Wednesday, May 31, 14:00-14:30
Furno, Joanna	SS6, PS12, Sunday, June 4, 8:00-8:30
Gaiko, Valery	CS1, PS4, Thursday, June 1, 15:20-15:40
Gal, Ciprian	SS43, PS6, Friday, June 2, 8:00-8:30
Gal, Ciprian	SS51, PS9, Saturday, June 3, 9:00-9:30
Gal, Ciprian	SS65, PS5, Thursday, June 1, 17:00-17:30
Galise, Giulio	SS1, PS8, Friday, June 2, 16:30-17:00
Galise, Giulio	SS71, PS5, Thursday, June 1, 17:30-18:00
Gandarias, Maria	SS45, PS5, Thursday, June 1, 18:00-18:30
Gao, Daozhou	SS15, PS8, Friday, June 2, 16:30-17:00
Gao, Jingqin	SS57, PS2, Wednesday, May 31, 18:00-18:30
Gao, Zu	SS5, PS5, Thursday, June 1, 17:30-18:00
Garcia-Huidobro, Marta	SS28, PS1, Wednesday, May 31, 13:30-14:00
Garcia, Mariana	SS75, PS7, Friday, June 2, 14:30-15:00
Gasteratos, Ioannis	SS9, PS10, Saturday, June 3, 15:00-15:30
Geredeli, Pelin	SS43, PS6, Friday, June 2, 9:00-9:30
Geredeli, Pelin	SS61, PS5, Thursday, June 1, 17:30-18:00
Gess, Benjamin	SS9, PS9, Saturday, June 3, 8:00-8:30
Ghazaryan, Anna	SS7, PS3, Thursday, June 1, 8:30-9:00
Gidea, Marian	SS16, PS10, Saturday, June 3, 15:30-16:00
Giorgini, Andrea	SS65, PS5, Thursday, June 1, 17:30-18:00
Glenn, Gavin	CS2, PS4, Thursday, June 1, 14:20-14:40
Gnann, Manuel	SS19, PS4, Thursday, June 1, 14:00-14:30
Gnann, Manuel	SS9, PS11, Saturday, June 3, 18:00-18:30
Goddard II, Jerome	SS15, PS10, Saturday, June 3, 14:30-15:00
Goddard II, Jerome	SS29, PS8, Friday, June 2, 17:00-17:30
Golden, Kenneth	SS6, PS9, Saturday, June 3, 8:30-9:00
Golding, William	SS17, PS7, Friday, June 2, 15:00-15:30
Gong, Xiaoqian	SS57, PS1, Wednesday, May 31, 13:30-14:00
Goodrich, Christopher	SS13, PS8, Friday, June 2, 17:00-17:30
Goodrich, Christopher	SS23, PS11, Saturday, June 3, 17:00-17:30
Goudenege, Ludovic	SS9, PS11, Saturday, June 3, 16:30-17:00
Grasselli, Maurizio	SS65, PS5, Thursday, June 1, 16:30-17:00
Greco, Antonio	SS71, PS5, Thursday, June 1, 17:00-17:30
Greenhalgh, Scott	CS3, PS10, Saturday, June 3, 14:40-15:00
Greenhalgh, Scott	CS3, PS10, Saturday, June 3, 15:00-15:20
Grigorieva, Ellina	SS20, PS1, Wednesday, May 31, 13:30-14:00
Grothaus, Martin	SS9, PS12, Sunday, June 4, 8:00-8:30

Grube, Sebastian	SS19, PS4, Thursday, June 1, 14:30-15:00
Gruninger, Cole	SS66, PS5, Thursday, June 1, 17:30-18:00
Guariglia, Emanuel	SS90, PS3, Thursday, June 1, 09:00-09:30
Guariglia, Emanuel	SS42, PS5, Thursday, June 1, 16:30-17:00
Gunsilius, Florian	SS72, PS13, Sunday, June 4, 10:30-11:00
Guo, Daniel	SS79, PS11, Saturday, June 3, 16:30-17:00
Guo, Yanqiu	SS61, PS4, Thursday, June 1, 14:30-15:00
Guo, Yixin	SS33, PS11, Saturday, June 3, 17:00-17:30
Gupta, Shilpa	CS2, PS6, Friday, June 2, 8:40-9:00
Gwiazda, Piotr	SS89, PS7, Friday, June 2, 14:30-15:00
Habib, Bilal	SS45, PS2, Wednesday, May 31, 17:30-18:00
Haider, Mansoor	SS66, PS7, Friday, June 2, 14:00-14:30
Hajduk, Karol	SS89, PS7, Friday, June 2, 15:30-16:00
Hall, Brittni	SS63, PS1, Wednesday, May 31, 15:00-15:30
Hameed, Muhammad	SS45, PS3, Thursday, June 1, 9:00-9:30
Hamm, Keaton	SS55, PS11, Saturday, June 3, 17:30-18:00
Hampton, Marshall	SS16, PS8, Friday, June 2, 17:00-17:30
Han, Jongmin	SS37, PS5, Thursday, June 1, 16:30-17:00
Han, Xiaoying	SS81, PS6, Friday, June 2, 8:30-9:00
Hao, Wenrui	SS50, PS6, Friday, June 2, 9:00-9:30
Hao, Wenrui	SS66, PS7, Friday, June 2, 14:30-15:00
Haro, Alex	SS16, PS10, Saturday, June 3, 15:00-15:30
Harris, Isaac	SS80, PS7, Friday, June 2, 14:30-15:00
Hashizume, Masato	SS10, PS4, Thursday, June 1, 14:30-15:00
Hashizume, Masato	SS28, PS4, Thursday, June 1, 15:30-16:00
Heydecker, Daniel	SS19, PS6, Friday, June 2, 8:00-8:30
Henderson, Alketa	SS13, PS12, Sunday, June 4, 9:30-10:00
Henderson, Christopher	SS19, PS4, Thursday, June 1, 15:30-16:00
Henderson, Christopher	SS9, PS12, Sunday, June 4, 9:30-10:00
Henneberger, Katherine	SS55, PS11, Saturday, June 3, 16:30-17:00
Hernández, Eymard	SS13, PS08, Friday, June 2, 18:30-19:00
Herreros, Pilar	SS28, PS2, Wednesday, May 31, 16:30-17:00
Hildrum, Fredrik	SS21, PS1, Wednesday, May 31, 15:00-15:30
Hilhorst, Danielle	SS19, PS4, Thursday, June 1, 15:00-15:30
Hilhorst, Danielle	SS53, PS12, Sunday, June 4, 9:00-9:30
Himona, Georgia	SS21, PS3, Thursday, June 1, 8:00-8:30
Himonas, Alex	SS21, PS5, Thursday, June 1, 17:00-17:30
Hollifield, Elliott	CS2, PS11, Saturday, June 3, 16:50-17:10
Holliman, Curtis	SS21, PS2, Wednesday, May 31, 16:30-17:00
Holmes, John	SS21, PS2, Wednesday, May 31, 17:00-17:30
Hoshino, Masato	SS9, PS12, Sunday, June 4, 8:30-9:00
Hoskins, Jeremy	SS80, PS7, Friday, June 2, 14:00-14:30
Hosoya, Yuhki	SS20, PS4, Thursday, June 1, 14:30-15:00
Hotak, Obaidullah	SS48, PS12, Sunday, June 4, 9:00-9:30
Hou, Xiaojie	SS15, PS7, Friday, June 2, 14:30-15:00
Hovsepyan, Narek	SS52, PS5, Thursday, June 1, 18:00-18:30
Howard, Peter	SS24, PS6, Friday, June 2, 8:00-8:30
Hu, Xianpeng	SS2, PS1, Wednesday, May 31, 14:30-15:00
Hu, Xianpeng	SS32, PS10, Saturday, June 3, 15:00-15:30
Hu, Zhongtian	SS32, PS11, Saturday, June 3, 16:30-17:00
Huang, Longxiu	SS73, PS3, Thursday, June 1, 8:00-8:30
Huang, Tao	SS32, PS10, Saturday, June 3, 14:30-15:00
Huang, Tao	SS77, PS6, Friday, June 2, 9:30-10:00
Ibn Emran, Md Rafi As Sadeq	CS1, PS4, Thursday, June 1, 14:20-14:40
Ikeda, Kota	SS8, PS4, Thursday, June 1, 14:30-15:00
Ikoma, Norihisa	SS47, PS2, Wednesday, May 31, 18:00-18:30
Ikoma, Norihisa	SS50, PS7, Friday, June 2, 14:00-14:30
Ingebretson, Daniel	SS6, PS11, Saturday, June 3, 17:00-17:30
Ioku, Norisuke	SS10, PS2, Wednesday, May 31, 17:00-17:30
Irvine, Daniel	SS63, PS2, Wednesday, May 31, 17:00-17:30
Isaacson, Samuel	SS54, PS1, Wednesday, May 31, 14:00-14:30
Isernia, Teresa	SS1, PS6, Friday, June 2, 9:30-10:00
Isernia, Teresa	SS74, PS4, Thursday, June 1, 15:00-15:30
Ishii, Hiroshi	SS8, PS4, Thursday, June 1, 15:30-16:00
Ishii, Yuta	SS7, PS5, Thursday, June 1, 17:30-18:00
Ishiwata, Michinori	SS10, PS1, Wednesday, May 31, 13:30-14:00
Iverson, Joseph	SS62, PS7, Friday, June 2, 14:00-14:30
Izuhara, Hirofumi	SS7, PS3, Thursday, June 1, 9:00-9:30
Jadamba, Baasansuren	SS20, PS1, Wednesday, May 31, 14:00-14:30

Jamal, Sameerah	SS45, PS5, Thursday, June 1, 18:30-19:00
Jia, Qiuye	SS80, PS8, Friday, June 2, 18:30-19:00
Jiang, Miaohua	SS53, PS12, Sunday, June 4, 9:30-10:00
Jiang, Yunping	SS6, PS12, Sunday, June 4, 8:30-9:00
Jin, Ruhui	SS73, PS5, Thursday, June 1, 18:00-18:30
Jin, Sangdon	SS37, PS4, Thursday, June 1, 14:30-15:00
Johnson, Chris	SS6, PS13, Sunday, June 4, 10:30-11:00
Jones, Taylor	SS6, PS11, Saturday, June 3, 18:00-18:30
Ju, Ning	SS77, PS6, Friday, June 2, 9:00-9:30
Junca, Stephane	SS2, PS3, Thursday, June 1, 8:00-8:30
Kabeya, Yoshitsugu	SS40, PS1, Wednesday, May 31, 13:30-14:00
Kabeya, Yoshitsugu	SS41, PS3, Thursday, June 1, 8:30-9:00
Kafini, Mohammad	CS2, PS11, Saturday, June 3, 18:10-18:30
Kajikiya, Ryuji	SS28, PS2, Wednesday, May 31, 16:00-16:30
Kalousek, Martin	SS27, PS4, Thursday, June 1, 14:30-15:00
Kalousek, Martin	SS51, PS9, Saturday, June 3, 8:00-8:30
Kaman, Tulin	SS73, PS4, Thursday, June 1, 15:30-16:00
Kamburov, Nikola	SS47, PS1, Wednesday, May 31, 14:00-14:30
Kaminski, Yirmeyahu	SS20, PS1, Wednesday, May 31, 15:00-15:30
Kamocki, Rafal	SS30, PS6, Friday, June 2, 8:00-8:30
Kan, Toru	SS10, PS2, Wednesday, May 31, 18:00-18:30
Kan, Toru	SS8, PS5, Thursday, June 1, 16:30-17:00
Kang, Yun	SS13, PS12, Sunday, June 4, 8:00-8:30
Kaplicky, Petr	SS27, PS2, Wednesday, May 31, 17:00-17:30
Kaplicky, Petr	SS68, PS1, Wednesday, May 31, 15:00-15:30
Karnik, Santhosh	SS55, PS11, Saturday, June 3, 18:30-19:00
Katayama, Sho	SS37, PS3, Thursday, June 1, 8:30-9:00
Katriel, Guy	SS15, PS11, Saturday, June 3, 17:00-17:30
Kenmochi, Nobuyuki	SS18, PS2, Wednesday, May 31, 16:30-17:00
Khalique, Chaudry	SS45, PS3, Thursday, June 1, 8:00-8:30
Khan, Akhtar	SS20, PS1, Wednesday, May 31, 14:30-15:00
Khan, Akhtar	SS30, PS8, Friday, June 2, 16:30-17:00
Khan, Islamudin - Rahim	SS48, PS13, Sunday, June 4, 10:30-11:00
Khoo, Yuehaw	SS80, PS8, Friday, June 2, 17:00-17:30
Khoudari, Nour	SS57, PS2, Wednesday, May 31, 17:30-18:00
Khumalo, Melusi	CS1, PS4, Thursday, June 1, 15:00-15:20
Kim, Kunwoo	SS9, PS9, Saturday, June 3, 9:00-9:30
Kim, Kwangjoong	CS3, PS5, Thursday, June 1, 17:50-18:10
Kim, Seol	SS23, PS11, Saturday, June 3, 18:00-18:30
Kim, Yun-Ho	SS23, PS11, Saturday, June 3, 16:30-17:00
Kinoshita, Tomoharu	SS37, PS4, Thursday, June 1, 15:00-15:30
Kinra, Kush	CS2, PS6, Friday, June 2, 9:00-9:20
Kita, Kosuke	SS65, PS5, Thursday, June 1, 18:30-19:00
Kong, Lingju	SS13, PS8, Friday, June 2, 17:30-18:00
Kong, Lingju	SS23, PS11, Saturday, June 3, 18:30-19:00
Kosugi, Chiharu	SS18, PS3, Thursday, June 1, 8:30-9:00
Kovacic, Gregor	SS84, PS10, Saturday, June 3, 15:00-15:30
Kovacic, Gregor	SS87, PS9, Saturday, June 3, 8:30-9:00
Kreml, Ondrej	SS27, PS4, Thursday, June 1, 15:30-16:00
Krishtal, Ilya	SS90, PS3, Thursday, June 1, 08:30-09:00
Krupchyk, Katya	SS80, PS10, Saturday, June 3, 14:00-14:30
Kuang, Yang	SS13, PS7, Friday, June 2, 14:30-15:00
Kubo, Akisato	SS65, PS2, Wednesday, May 31, 16:30-17:00
Kucera, Petr	SS27, PS7, Friday, June 2, 14:30-15:00
Kulick, Charles	SS73, PS3, Thursday, June 1, 9:00-9:30
Kumar Chellamuthu, Vinodh	SS15, PS8, Friday, June 2, 17:00-17:30
Kumar Das, Haridas	CS3, PS10, Saturday, June 3, 14:20-14:40
Kumar, Bhanu	SS16, PS7, Friday, June 2, 15:30-16:00
Kumazaki, Kota	SS18, PS1, Wednesday, May 31, 14:00-14:30
Kurima, Shunsuke	SS18, PS5, Thursday, June 1, 17:00-17:30
Kuto, Kousuke	SS41, PS5, Thursday, June 1, 17:00-17:30
Kuto, Kousuke	SS8, PS4, Thursday, June 1, 15:00-15:30
Lafleche, Laurent	SS17, PS8, Friday, June 2, 16:30-17:00
Lafortune, Stephane	SS24, PS8, Friday, June 2, 17:30-18:00
Lam, Kei Fong	SS51, PS7, Friday, June 2, 14:00-14:30
Lam, Kei Fong	CS1, PS4, Thursday, June 1, 14:40-15:00
Lam, King-Yeung	SS29, PS7, Friday, June 2, 15:30-16:00
Lam, King-Yeung	SS7, PS1, Wednesday, May 31, 14:30-15:00
Lan, Kunquan	SS23, PS9, Saturday, June 3, 8:30-9:00

Lancia, Maria Rosaria	SS39, PS2, Wednesday, May 31, 16:30-17:00
Laurel, Marcus	SS52, PS5, Thursday, June 1, 17:30-18:00
Leander, Rachel	SS15, PS6, Friday, June 2, 8:00-8:30
Leiderman, Karin	SS66, PS7, Friday, June 2, 15:00-15:30
Lenhart, Suzanne	SS15, PS10, Saturday, June 3, 15:30-16:00
Leoni, Fabiana	SS71, PS5, Thursday, June 1, 18:00-18:30
Li, Changpin	SS33, PS12, Sunday, June 4, 9:00-9:30
Li, Li	SS80, PS10, Saturday, June 3, 15:30-16:00
Li, Shuang	SS55, PS11, Saturday, June 3, 18:00-18:30
Li, Wei	SS80, PS9, Saturday, June 3, 9:00-9:30
Li, Wuchen	SS83, PS10, Saturday, June 3, 14:30-15:00
Li, Xingjie	SS79, PS11, Saturday, June 3, 18:00-18:30
Li, Yachun	SS2, PS1, Wednesday, May 31, 13:30-14:00
Li, Yi	SS7, PS5, Thursday, June 1, 16:30-17:00
Li, Zhaoxiang	SS50, PS8, Friday, June 2, 18:00-18:30
Liao, Chunyang	SS55, PS10, Saturday, June 3, 14:30-15:00
Lima, Ernesto	SS25, PS8, Friday, June 2, 17:00-17:30
Lin, Zaifeng	SS20, PS2, Wednesday, May 31, 16:00-16:30
Lindsay, Alan	SS54, PS1, Wednesday, May 31, 14:30-15:00
Lindström, Torsten	SS22, PS2, Wednesday, May 31, 16:00-16:30
Liu, Boya	SS80, PS11, Saturday, June 3, 16:30-17:00
Liu, Chun	SS32, PS10, Saturday, June 3, 14:00-14:30
Liu, Chun	SS66, PS6, Friday, June 2, 8:00-8:30
Liu, Chun	SS77, PS6, Friday, June 2, 8:00-8:30
Liu, Honghu	SS81, PS6, Friday, June 2, 9:30-10:00
Liu, Honghu	SS9, PS10, Saturday, June 3, 14:00-14:30
Liu, Jina-Guo	SS72, PS12, Sunday, June 4, 9:30-10:00
Liu, Rongsong	SS13, PS6, Friday, June 2, 8:30-9:00
Liu, Rongsong	SS15, PS10, Saturday, June 3, 15:00-15:30
Liu, Shibo	SS56, PS1, Wednesday, May 31, 15:00-15:30
Liu, Shibo	SS34, PS10, Saturday, June 3, 14:00-14:30
Liu, Shitao	SS61, PS5, Thursday, June 1, 18:00-18:30
Liu, Shitao	SS80, PS6, Friday, June 2, 9:00-9:30
Liu, Shu	SS59, PS9, Saturday, June 3, 9:00-9:30
Liu, Shu	SS72, PS12, Sunday, June 4, 8:30-9:00
Liu, Suyu	SS33, PS12, Sunday, June 4, 9:30-10:00
Liu, Xiao	SS32, PS11, Saturday, June 3, 17:30-18:00
Liu, Xinfeng	SS66, PS8, Friday, June 2, 16:30-17:00
Liu, Yanfang	CS1, PS4, Thursday, June 1, 14:00-14:20
Lkhagvasuren, Bataa	SS68, PS2, Wednesday, May 31, 17:00-17:30
Loher, Amelie	STU, PS1, Wednesday, May 31, 14:30-15:00
Loher, Amelie	SS17, PS7, Friday, June 2, 14:00-14:30
Loiudice, Annunziata	SS1, PS7, Friday, June 2, 15:00-15:30
Long, Hongwei	SS9, PS10, Saturday, June 3, 15:30-16:00
Lopes, Pedro Tavares Paes	SS77, PS7, Friday, June 2, 15:00-15:30
Lopez-Gomez, J.	SS3, PS5, Thursday, June 1, 16:30-17:00
Lu, Songsong	SS27, PS6, Friday, June 2, 9:00-9:30
Lubbe, Alice	SS33, PS11, Saturday, June 3, 17:30-18:00
Luo, Chenyun	SS32, PS11, Saturday, June 3, 18:00-18:30
Luo, Dejun	SS19, PS5, Thursday, June 1, 16:30-17:00
Luo, Dejun	SS9, PS13, Sunday, June 4, 11:00-11:30
Luo, Songting	SS70, PS1, Wednesday, May 31, 14:30-15:00
Lushnikov, Pavel	SS84, PS11, Saturday, June 3, 17:30-18:00
Lushnikov, Pavel	SS87, PS11, Saturday, June 3, 16:30-17:00
Lynd, Chris	SS6, PS12, Sunday, June 4, 9:30-10:00
Lyons, Jeffrey	SS23, PS9, Saturday, June 3, 9:00-9:30
M-Seara, Tere	SS16, PS7, Friday, June 2, 14:00-14:30
Ma, Wen-Xiu	SS45, PS1, Wednesday, May 31, 14:30-15:00
Ma, Wen-Xiu	SS45, PS2, Wednesday, May 31, 16:00-16:30
Macha, Vaclav	SS27, PS4, Thursday, June 1, 15:00-15:30
Maes, Daniel	SS15, PS7, Friday, June 2, 15:00-15:30
Mahawattege, Rasika	SS61, PS5, Thursday, June 1, 16:30-17:00
Majewski, Marek	SS30, PS6, Friday, June 2, 8:30-9:00
Manasevich, Raul	SS28, PS5, Thursday, June 1, 16:30-17:00
Manukian, Vahagn	SS24, PS8, Friday, June 2, 18:00-18:30
Maria Cherubini, Anna	SS16, PS10, Saturday, June 3, 14:30-15:00
Maroncelli, Dan	SS23, PS11, Saturday, June 3, 17:30-18:00
Marras, Monica	SS34, PS6, Friday, June 2, 9:30-10:00
Marras, Monica	SS65, PS4, Thursday, June 1, 14:00-14:30

Marshall, Nicholas F	SS59, PS9, Saturday, June 3, 8:00-8:30
Martin, Pau	SS16, PS7, Friday, June 2, 14:30-15:00
Matin, Hossein	SS57, PS2, Wednesday, May 31, 16:30-17:00
Matsuzawa, Hiroshi	SS7, PS1, Wednesday, May 31, 15:00-15:30
Matsuzawa, Hiroshi	SS8, PS2, Wednesday, May 31, 17:00-17:30
Mayeli, Azita	SS52, PS8, Friday, June 2, 18:30-19:00
Mazzone, Giusy	SS32, PS11, Saturday, June 3, 17:00-17:30
Mbroh, Nana	SS79, PS13, Sunday, June 4, 12:00-12:30
Mbusi, Sivenathi	SS45, PS4, Thursday, June 1, 15:00-15:30
McQuade, Sean	SS57, PS1, Wednesday, May 31, 14:00-14:30
Meddaugh, Jonathan	SS6, PS9, Saturday, June 3, 9:00-9:30
Mei, Ming	SS7, PS3, Thursday, June 1, 8:00-8:30
Mei, Ming	SS8, PS5, Thursday, June 1, 17:00-17:30
Messaoudi, Salim	CS2, PS4, Thursday, June 1, 15:20-15:40
Metzger, Stefan	SS51, PS7, Friday, June 2, 15:00-15:30
Michta, Mariusz	SS20, PS2, Wednesday, May 31, 17:00-17:30
Michta, Mariusz	SS30, PS7, Friday, June 2, 14:00-14:30
Mickelin, Oscar	SS62, PS8, Friday, June 2, 17:30-18:00
Migorski, Stanislaw	SS30, PS7, Friday, June 2, 14:30-15:00
Miranville, Alain	SS7, PS4, Thursday, June 1, 14:30-15:00
Mitrea, Irina	SS52, PS7, Friday, June 2, 14:00-14:30
Mitrea, Marius	SS52, PS8, Friday, June 2, 16:30-17:00
Miyagaki, Olimpio	SS10, PS1, Wednesday, May 31, 14:00-14:30
Miyagaki, Olimpio	SS5, PS3, Thursday, June 1, 8:00-8:30
Miyake, Nobuhito	SS28, PS1, Wednesday, May 31, 14:00-14:30
Miyamoto, Yasuhito	SS7, PS2, Wednesday, May 31, 17:00-17:30
Miyamoto, Yasuhito	SS28, PS4, Thursday, June 1, 14:00-14:30
Mizukami, Masaaki	SS18, PS5, Thursday, June 1, 16:30-17:00
Mizuno, Daiki	STU, PS1, Wednesday, May 31, 15:00-15:30
Mizuno, Daiki	SS18, PS4, Thursday, June 1, 14:30-15:00
Moleleki, Letlhogonolo	SS45, PS4, Thursday, June 1, 14:30-15:00
Momeni, Abbas	SS77, PS8, Friday, June 2, 18:00-18:30
Monard, Francois	SS80, PS7, Friday, June 2, 15:00-15:30
Monticelli, Dario	SS1, PS7, Friday, June 2, 15:30-16:00
Moon, Sang-Hyuck	SS37, PS3, Thursday, June 1, 9:00-9:30
Mooney, Connor	SS74, PS3, Thursday, June 1, 8:00-8:30
Mooney, Connor	SS77, PS8, Friday, June 2, 17:00-17:30
Moosmueller, Caroline	SS72, PS12, Sunday, June 4, 9:00-9:30
Mori, Naofumi	CS2, PS11, Saturday, June 3, 17:10-17:30
Mori, Tatsuki	SS41, PS4, Thursday, June 1, 15:00-15:30
Morimura, Akiko	SS18, PS1, Wednesday, May 31, 15:00-15:30
Morita, Yoshihisa	SS15, PS7, Friday, June 2, 14:00-14:30
Morpurgo, Carlo	SS10, PS1, Wednesday, May 31, 15:00-15:30
Morris, Quinn	SS79, PS12, Sunday, June 4, 9:00-9:30
Motta, Monica	SS20, PS4, Thursday, June 1, 15:00-15:30
Motta, Monica	SS53, PS11, Saturday, June 3, 16:30-17:00
Mou, Changhong	SS73, PS4, Thursday, June 1, 14:30-15:00
Moussaoui, Abdelkrim	SS56, PS5, Thursday, June 1, 18:00-18:30
Mueller, Jennifer	SS54, PS1, Wednesday, May 31, 13:30-14:00
Muller, Kaitlyn	SS22, PS1, Wednesday, May 31, 14:00-14:30
Munoz-Hernandez, Eduardo	SS3, PS3, Thursday, June 1, 8:30-9:00
Muntean, Adrian	SS18, PS3, Thursday, June 1, 8:00-8:30
Munyakazi, Justin	SS53, PS12, Sunday, June 4, 8:30-9:00
Murakawa, Hideki	SS7, PS6, Friday, June 2, 8:00-8:30
Nabet, Flore	SS51, PS9, Saturday, June 3, 8:30-9:00
Nagahara, Kentaro	SS28, PS1, Wednesday, May 31, 15:00-15:30
Nagayama, Masaharu	SS41, PS5, Thursday, June 1, 18:30-19:00
Nagayama, Masaharu	SS7, PS4, Thursday, June 1, 15:30-16:00
Naimen, Daisuke	SS10, PS4, Thursday, June 1, 15:30-16:00
Naimen, Daisuke	SS28, PS2, Wednesday, May 31, 17:00-17:30
Naito, Yuki	SS28, PS4, Thursday, June 1, 15:00-15:30
Nakajima, Yuto	SS6, PS11, Saturday, June 3, 16:30-17:00
Nakamura, Ken-Ichi	SS7, PS1, Wednesday, May 31, 14:00-14:30
Nascimento, Thialita	STU, PS2, Wednesday, May 31, 16:30-17:00
Nascimento, Thialita	SS75, PS7, Friday, June 2, 15:00-15:30
Necasova, Sarka	SS27, PS5, Thursday, June 1, 18:00-18:30
Necasova, Sarka	SS89, PS8, Friday, June 2, 16:30-17:00
Neugebauer, Jeffrey	SS23, PS10, Saturday, June 3, 15:00-15:30
Neustupa, Jiri	SS27, PS6, Friday, June 2, 8:00-8:30

Neustupa, Tomas	SS27, PS2, Wednesday, May 31, 17:30-18:00
Newhall, Katie	SS84, PS10, Saturday, June 3, 14:30-15:00
Ngana, Aristide Ndongmo	SS81, PS8, Friday, June 2, 18:30-19:00
Nguyen, Tien	SS20, PS4, Thursday, June 1, 14:00-14:30
Nguyen, Tien	SS61, PS3, Thursday, June 1, 8:30-9:00
Nguyen, Tung	SS15, PS11, Saturday, June 3, 18:00-18:30
Ngwu, Benitho	CS1, PS3, Thursday, June 1, 8:40-9:00
Nichols, Dustin	SS13, PS12, Sunday, June 4, 8:30-9:00
Nika, Grigor	SS18, PS2, Wednesday, May 31, 16:00-16:30
Ninomiya, Hirokazu	SS40, PS1, Wednesday, May 31, 14:30-15:00
Ninomiya, Hirokazu	SS8, PS5, Thursday, June 1, 17:30-18:00
Nitzschner, Maximilian	SS9, PS9, Saturday, June 3, 8:30-9:00
Ntekoume, Maria	SS21, PS1, Wednesday, May 31, 14:30-15:00
Ntsime, Basetsana	SS45, PS2, Wednesday, May 31, 17:00-17:30
Nurtazina, Karlygash	SS43, PS6, Friday, June 2, 8:30-9:00
Ogawa, Toshiyuki	SS7, PS5, Thursday, June 1, 17:00-17:30
Ogden, Matthew	SS59, PS10, Saturday, June 3, 15:00-15:30
Ohno, Kota	SS41, PS5, Thursday, June 1, 18:00-18:30
Oka, Tomoyuki	SS18, PS4, Thursday, June 1, 15:30-16:00
Oka, Tomoyuki	SS65, PS5, Thursday, June 1, 18:00-18:30
Okumura, Makoto	SS18, PS5, Thursday, June 1, 17:30-18:00
Oliveras, Katie	SS87, PS10, Saturday, June 3, 14:00-14:30
Oluwasakin, Ebenezer	SS59, PS10, Saturday, June 3, 14:00-14:30
Onodera, Michiaki	SS40, PS1, Wednesday, May 31, 14:00-14:30
Onodera, Michiaki	SS41, PS4, Thursday, June 1, 14:30-15:00
Onyido, Maria	SS29, PS7, Friday, June 2, 14:00-14:30
Osses, Axel	SS80, PS9, Saturday, June 3, 8:30-9:00
Ostling, Annette	SS15, PS11, Saturday, June 3, 16:30-17:00
Ott, Katharine	SS52, PS8, Friday, June 2, 17:00-17:30
Ottino-Loffler, Bertrand	CS3, PS5, Thursday, June 1, 16:50-17:10
Ou, Chunhua	SS14, PS1, Wednesday, May 31, 13:30-14:00
Ozer, Ahmet	SS43, PS6, Friday, June 2, 9:30-10:00
Ozer, Ahmet	SS61, PS5, Thursday, June 1, 17:00-17:30
Packer, Daniel	SS62, PS7, Friday, June 2, 14:30-15:00
Palacios, Benjamin	SS80, PS8, Friday, June 2, 16:30-17:00
Pan, Ronghua	SS2, PS1, Wednesday, May 31, 14:00-14:30
Parini, Enea	SS10, PS5, Thursday, June 1, 18:30-19:00
Parini, Enea	SS71, PS4, Thursday, June 1, 14:30-15:00
Park, Jung-Tae	SS14, PS1, Wednesday, May 31, 14:30-15:00
Parshad, Rana	SS29, PS8, Friday, June 2, 17:30-18:00
Payne, Kevin	SS71, PS4, Thursday, June 1, 15:30-16:00
Pazoto, Ademir	SS43, PS7, Friday, June 2, 15:00-15:30
Pedersen, Morten	SS33, PS10, Saturday, June 3, 15:00-15:30
Peng, Guanying	SS77, PS8, Friday, June 2, 17:30-18:00
Perera, Kanishka	SS34, PS6, Friday, June 2, 8:00-8:30
Perera, Kanishka	SS50, PS7, Friday, June 2, 14:30-15:00
Perkins, Alex	SS22, PS2, Wednesday, May 31, 17:30-18:00
Petronilho, Gerson	SS21, PS5, Thursday, June 1, 16:30-17:00
Phan, Tuan	SS81, PS7, Friday, June 2, 15:30-16:00
Pierre, Morgan	SS51, PS6, Friday, June 2, 9:30-10:00
Pierre, Morgan	SS7, PS4, Thursday, June 1, 15:00-15:30
Piersanti, Paolo	SS66, PS6, Friday, June 2, 9:30-10:00
Piersanti, Paolo	SS7, PS5, Thursday, June 1, 18:00-18:30
Pinamonti, Andrea	SS1, PS7, Friday, June 2, 14:30-15:00
Pinamonti, Andrea	SS5, PS4, Thursday, June 1, 14:00-14:30
Plaatjie, Karabo	SS45, PS6, Friday, June 2, 8:00-8:30
Planas, Gabriela	SS53, PS12, Sunday, June 4, 8:00-8:30
Pogan, Alin	SS24, PS8, Friday, June 2, 17:00-17:30
Pokorny, Milan	SS27, PS5, Thursday, June 1, 17:00-17:30
Pokorny, Milan	SS89, PS7, Friday, June 2, 15:00-15:30
Polidoro, Sergio	SS34, PS7, Friday, June 2, 14:00-14:30
Polidoro, Sergio	SS71, PS3, Thursday, June 1, 8:30-9:00
Ponce, Gustavo	SS21, PS1, Wednesday, May 31, 13:30-14:00
Porzio, Maria	SS14, PS2, Wednesday, May 31, 16:00-16:30
Powell, Alex	SS59, PS9, Saturday, June 3, 8:30-9:00
Prazak, Dalibor	SS68, PS2, Wednesday, May 31, 16:30-17:00
Prinari, Barbara	SS87, PS9, Saturday, June 3, 9:00-9:30
Prusa, Vit	SS68, PS2, Wednesday, May 31, 16:00-16:30
Qin, Liuyu	SS10, PS1, Wednesday, May 31, 14:30-15:00

Quan, Hadrian	SS80, PS8, Friday, June 2, 18:00-18:30
Röckner, Michael	SS36, PS5, Thursday, June 1, 17:00-17:30
Röckner, Michael	SS9, PS11, Saturday, June 3, 18:30-19:00
Ragusa, Maria Alessandra	SS90, PS3, Thursday, June 1, 08:00-08:30
Ragusa, Maria Alessandra	SS42, PS5, Thursday, June 1, 17:00-17:30
Raihen, Nurul	SS74, PS5, Thursday, June 1, 17:30-18:00
Rajendran, Mabel	SS7, PS6, Friday, June 2, 8:30-9:00
Rao, Gauri	SS25, PS8, Friday, June 2, 17:30-18:00
Rapp, Aaron	SS79, PS9, Saturday, June 3, 8:30-9:00
Raynor, Sarah	SS21, PS3, Thursday, June 1, 8:30-9:00
Raynor, Sarah	SS52, PS5, Thursday, June 1, 17:00-17:30
Rehmeier, Marco	SS19, PS3, Thursday, June 1, 9:00-9:30
Restrepo, Daniel	STU, PS1, Wednesday, May 31, 14:00-14:30
Restrepo, Daniel	SS74, PS4, Thursday, June 1, 15:30-16:00
Reyes, Brian	SS21, PS2, Wednesday, May 31, 17:30-18:00
Rihan, Fathalla	SS4, PS9, Saturday, June 3, 8:30-9:00
Rodriguez, Casey	SS21, PS1, Wednesday, May 31, 14:00-14:30
Rodriguez, Casey	SS68, PS1, Wednesday, May 31, 14:00-14:30
Roy, Madhumita	SS61, PS5, Thursday, June 1, 18:30-19:00
Roychowdhury, Mrinal	SS6, PS13, Sunday, June 4, 11:30-12:00
Sadhu, Susmita	SS63, PS1, Wednesday, May 31, 14:00-14:30
Saksala, Teemu	SS80, PS6, Friday, June 2, 8:00-8:30
Salako, Rachidi	SS29, PS8, Friday, June 2, 18:00-18:30
Salako, Rachidi	SS7, PS2, Wednesday, May 31, 17:30-18:00
Salin, Florian	SS65, PS2, Wednesday, May 31, 17:30-18:00
Salmaniw, Yurij	SS14, PS2, Wednesday, May 31, 16:30-17:00
Salmaniw, Yurij	SS15, PS6, Friday, June 2, 8:30-9:00
Salvatore, Addolorata	SS34, PS8, Friday, June 2, 16:30-17:00
Sanadhya, Shrey	SS6, PS13, Sunday, June 4, 12:00-12:30
Sani, Federica	SS10, PS5, Thursday, June 1, 17:30-18:00
Sani, Federica	SS71, PS4, Thursday, June 1, 15:00-15:30
Sano, Megumi	SS10, PS2, Wednesday, May 31, 16:00-16:30
Santoprete, Manuele	SS16, PS8, Friday, June 2, 18:00-18:30
Sato, Kotaro	SS65, PS3, Thursday, June 1, 8:30-9:00
Sato, Yohei	SS28, PS4, Thursday, June 1, 14:30-15:00
Scapellato, Andrea	SS42, PS5, Thursday, June 1, 17:30-18:00
Scarpa, Luca	SS51, PS7, Friday, June 2, 15:30-16:00
Schecter, Stephen	SS22, PS1, Wednesday, May 31, 14:30-15:00
Schenke, Andre	SS19, PS5, Thursday, June 1, 17:00-17:30
Schino, Jacopo	SS5, PS5, Thursday, June 1, 16:30-17:00
Schmitz, Kerstin	SS9, PS11, Saturday, June 3, 17:00-17:30
Schnake, Stefan	SS79, PS9, Saturday, June 3, 9:00-9:30
Seeger, Benjamin	SS19, PS5, Thursday, June 1, 17:30-18:00
Seloula, Nour	SS27, PS2, Wednesday, May 31, 16:30-17:00
Semegni, Jean Yves	SS45, PS6, Friday, June 2, 8:30-9:00
Semenova, Anastassiya	SS87, PS10, Saturday, June 3, 15:00-15:30
Senaratne, Deepthika	SS70, PS1, Wednesday, May 31, 13:30-14:00
Seo, Gunog	SS13, PS9, Saturday, June 3, 8:00-8:30
Seok, Jinmyoung	SS5, PS3, Thursday, June 1, 8:30-9:00
Seshaiyer, Padmanabhan	SS33, PS10, Saturday, June 3, 14:00-14:30
Sethuraman, Sunder	SS9, PS13, Sunday, June 4, 12:00-12:30
Shankar, Suraj	SS72, PS12, Sunday, June 4, 8:00-8:30
Shao, Yuanzhen	SS32, PS9, Saturday, June 3, 8:30-9:00
Shen, Hao	SS19, PS6, Friday, June 2, 9:30-10:00
Shen, Hao	SS81, PS8, Friday, June 2, 18:00-18:30
Shi, Junping	SS29, PS6, Friday, June 2, 9:00-9:30
Shi, Junping	SS41, PS4, Thursday, June 1, 14:00-14:30
Shibata, Masataka	SS37, PS4, Thursday, June 1, 14:00-14:30
Shuai, Zhisheng	SS13, PS7, Friday, June 2, 15:30-16:00
Siddique, Javed	SS45, PS5, Thursday, June 1, 16:30-17:00
Siegel, Michael	SS87, PS8, Friday, June 2, 16:30-17:00
Signori, Andrea	SS51, PS8, Friday, June 2, 17:00-17:30
Silantyev, Denis	SS87, PS8, Friday, June 2, 17:00-17:30
Silvestre, Ana	SS27, PS6, Friday, June 2, 9:30-10:00
Simmons, Skyler	SS16, PS8, Friday, June 2, 17:30-18:00
Singh, Harbhajan	SS48, PS13, Sunday, June 4, 11:30-12:00
Singh, Narinder	SS48, PS13, Sunday, June 4, 11:00-11:30
Siraeva, Dilara	CS2, PS11, Saturday, June 3, 16:30-16:50
Sirakov, Boyan	SS71, PS5, Thursday, June 1, 16:30-17:00

Sirakov, Boyan	SS75, PS7, Friday, June 2, 14:00-14:30
Skalak, Zdenek	SS27, PS7, Friday, June 2, 14:00-14:30
Smith, Dave	SS21, PS4, Thursday, June 1, 15:30-16:00
Smith, Derek	SS6, PS10, Saturday, June 3, 14:00-14:30
Sobral, Aelson	SS75, PS8, Friday, June 2, 16:30-17:00
Softova, Lyoubomira	SS28, PS1, Wednesday, May 31, 14:30-15:00
Solar, Abraham	SS14, PS2, Wednesday, May 31, 17:30-18:00
Sovrano, Elisa	SS13, PS9, Saturday, June 3, 9:00-9:30
Sovrano, Elisa	SS3, PS4, Thursday, June 1, 15:30-16:00
Specovius-Neugebauer, Maria	SS27, PS1, Wednesday, May 31, 14:30-15:00
Stanislavova, Milena	SS24, PS8, Friday, June 2, 18:30-19:00
Starostka, Maciej	SS24, PS7, Friday, June 2, 14:30-15:00
Stefanov, Atanas	SS24, PS7, Friday, June 2, 15:30-16:00
Stinga, Pablo	SS5, PS3, Thursday, June 1, 9:00-9:30
Stinga, Pablo	SS75, PS6, Friday, June 2, 8:00-8:30
Stokols, Logan	SS17, PS7, Friday, June 2, 15:30-16:00
Stokols, Logan	SS74, PS4, Thursday, June 1, 14:30-15:00
Stoyanov, Miroslav	SS83, PS11, Saturday, June 3, 17:30-18:00
Strawn, Nathaniel	SS62, PS8, Friday, June 2, 16:30-17:00
Su, Jianzhong	SS33, PS9, Saturday, June 3, 8:30-9:00
Suguro, Takeshi	SS10, PS2, Wednesday, May 31, 17:30-18:00
Sukhtaiev, Selim	SS24, PS6, Friday, June 2, 9:30-10:00
Sukhtayev, Alim	SS24, PS6, Friday, June 2, 9:00-9:30
Sun, Shu-Ming	SS21, PS4, Thursday, June 1, 14:00-14:30
Sun, Yi	SS66, PS8, Friday, June 2, 17:30-18:00
Sundar, Padmanabhan	SS17, PS8, Friday, June 2, 17:30-18:00
Sus, Olha	CS2, PS4, Thursday, June 1, 14:00-14:20
Svigler, Vladimir	CS1, PS9, Saturday, June 3, 8:40-9:00
Swanson, Jason	SS81, PS7, Friday, June 2, 15:00-15:30
Swierczewska-Gwiazda, Agnieszka	SS89, PS7, Friday, June 2, 14:00-14:30
Taddei, Valentina	SS30, PS6, Friday, June 2, 9:00-9:30
Taddei, Valentina	SS34, PS9, Saturday, June 3, 8:30-9:00
Takahashi, Futoshi	SS10, PS4, Thursday, June 1, 15:00-15:30
Takahashi, Futoshi	SS50, PS8, Friday, June 2, 16:30-17:00
Takahashi, Jin	SS41, PS5, Thursday, June 1, 16:30-17:00
Takahashi, Ryo	SS28, PS2, Wednesday, May 31, 17:30-18:00
Takahashi, Tomoki	SS27, PS7, Friday, June 2, 15:00-15:30
Takatsu, Asuka	SS10, PS5, Thursday, June 1, 17:00-17:30
Takimoto, Kazuhiro	SS3, PS5, Thursday, June 1, 17:30-18:00
Tamilvanan, Kandhasamy	SS90, PS4, Thursday, June 1, 14:00-14:30
Tamilvanan, Kandhasamy	SS90, PS4, Thursday, June 1, 14:30-15:00
Tan, Changhui	SS17, PS6, Friday, June 2, 8:30-9:00
Tanaka, Kazunaga	SS37, PS5, Thursday, June 1, 18:00-18:30
Tanaka, Mieko	SS28, PS5, Thursday, June 1, 17:00-17:30
Tanaka, Satoshi	SS28, PS2, Wednesday, May 31, 18:00-18:30
Tanaka, Satoshi	SS3, PS4, Thursday, June 1, 15:00-15:30
Tanaka, Yoshitaro	SS41, PS5, Thursday, June 1, 17:30-18:00
Tanaka, Yuya	STU, PS2, Wednesday, May 31, 17:00-17:30
Tanaka, Yuya	SS65, PS4, Thursday, June 1, 15:00-15:30
Tang, Tingting	SS15, PS8, Friday, June 2, 18:00-18:30
Tang, Tong	SS27, PS5, Thursday, June 1, 18:30-19:00
Taniguchi, Masaharu	SS8, PS2, Wednesday, May 31, 16:00-16:30
Tarfulea, Nicolae	SS2, PS3, Thursday, June 1, 9:00-9:30
Tarsi, Cristina	SS10, PS2, Wednesday, May 31, 16:30-17:00
Taskovic, Maja	SS74, PS4, Thursday, June 1, 14:00-14:30
Tawri, Krutika	SS51, PS8, Friday, June 2, 17:30-18:00
Tehrani, Hossein	SS50, PS9, Saturday, June 3, 8:30-9:00
Tehrani, Hossein	SS56, PS4, Thursday, June 1, 15:00-15:30
Tellini, Andrea	SS3, PS5, Thursday, June 1, 17:00-17:30
Tellini, Andrea	SS8, PS2, Wednesday, May 31, 17:30-18:00
Thieu, Thoa	SS18, PS4, Thursday, June 1, 15:00-15:30
Thodi, Bilal	SS57, PS2, Wednesday, May 31, 17:00-17:30
Tian, Xiaochuan	SS79, PS13, Sunday, June 4, 11:00-11:30
Tiglay, Feride	SS21, PS2, Wednesday, May 31, 16:00-16:30
Timofeyev, Ilya	SS84, PS10, Saturday, June 3, 15:30-16:00
Torebek, Berikbol	SS70, PS1, Wednesday, May 31, 15:00-15:30
Tornatore, Elisabetta	SS34, PS10, Saturday, June 3, 14:30-15:00
Tosin, Andrea	SS17, PS8, Friday, June 2, 17:00-17:30
Tralli, Giulio	SS1, PS7, Friday, June 2, 14:00-14:30

Tran, Hoang	SS83, PS10, Saturday, June 3, 15:30-16:00
Trigos-Raczkowski, Ursula	SS15, PS7, Friday, June 2, 15:30-16:00
Troy, William	SS14, PS1, Wednesday, May 31, 15:00-15:30
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Tsubouchi, Shuntaro	SS37, PS5, Thursday, June 1, 17:00-17:30
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Turnquist, Axel	SS79, PS13, Sunday, June 4, 11:30-12:00
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Valdinoci, Enrico	SS56, PS5, Thursday, June 1, 16:30-17:00
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Vasquez, Paula	SS63, PS2, Wednesday, May 31, 16:00-16:30
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Vogler, Alexander	SS19, PS5, Thursday, June 1, 18:00-18:30
Wakasa, Tohru	SS41, PS3, Thursday, June 1, 9:00-9:30
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Wang, Changyou	SS77, PS6, Friday, June 2, 8:30-9:00
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Wang, Jin	SS15, PS10, Saturday, June 3, 14:00-14:30
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Wang, Kaifa	SS4, PS9, Saturday, June 3, 9:00-9:30
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Wang, Min	SS23, PS10, Saturday, June 3, 15:30-16:00
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Yan, Shuixian	SS4, PS10, Saturday, June 3, 15:30-16:00
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Yorke, James	SS13, PS12, Sunday, June 4, 9:00-9:30
Yorke, James	SS6, PS14, Sunday, June 4, 14:00-14:30
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Young, Yuan	SS66, PS6, Friday, June 2, 8:30-9:00
Yu, Cheng	SS2, PS1, Wednesday, May 31, 15:00-15:30
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Zelenko, Igor	SS20, PS2, Wednesday, May 31, 16:30-17:00
Zelina, Michael	SS68, PS1, Wednesday, May 31, 14:30-15:00
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Zhang, Deng	SS2, PS2, Wednesday, May 31, 17:30-18:00
Zhang, Honghui	SS33, PS12, Sunday, June 4, 8:30-9:00
Zhang, Jianjun	SS10, PS5, Thursday, June 1, 18:00-18:30
Zhang, Jianjun	SS50, PS9, Saturday, June 3, 8:00-8:30
Zhang, Lei	SS47, PS2, Wednesday, May 31, 17:30-18:00
Zhang, Qi	SS77, PS7, Friday, June 2, 14:00-14:30
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Zhang, Tongli	SS25, PS7, Friday, June 2, 15:30-16:00
Zhang, Yang	SS80, PS8, Friday, June 2, 17:30-18:00
Zhang, Yinling	SS73, PS4, Thursday, June 1, 15:00-15:30
Zhao, Yanxiang	SS66, PS5, Thursday, June 1, 18:00-18:30
Zhao, Yanxiang	SS85, PS7, Friday, June 2, 15:00-15:30
Zhong, Yimin	SS80, PS7, Friday, June 2, 15:30-16:00
Zhou, Hanming	SS80, PS10, Saturday, June 3, 15:00-15:30
Zhou, Jianxin	SS50, PS7, Friday, June 2, 15:30-16:00
Zhou, Tian-Yi	STU, PS2, Wednesday, May 31, 17:30-18:00
Zhou, Tian-Yi	SS59, PS10, Saturday, June 3, 14:30-15:00
Zhou, Yifu	SS47, PS1, Wednesday, May 31, 14:30-15:00
Zhou, Ying	SS15, PS11, Saturday, June 3, 17:30-18:00
Zhu, Chao	SS36, PS5, Thursday, June 1, 18:00-18:30
Zhu, Yuzhe	SS17, PS7, Friday, June 2, 14:30-15:00
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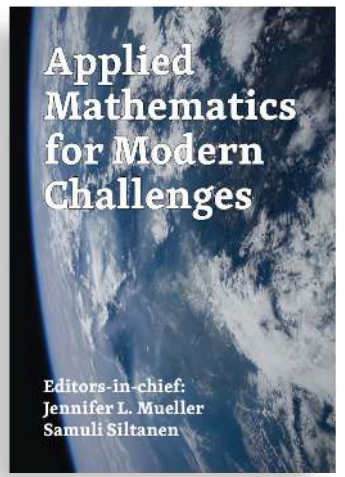

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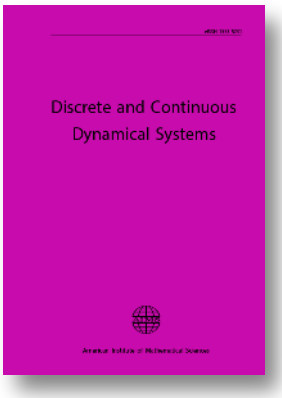

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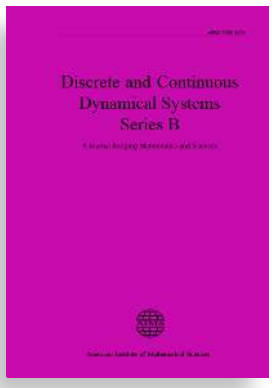

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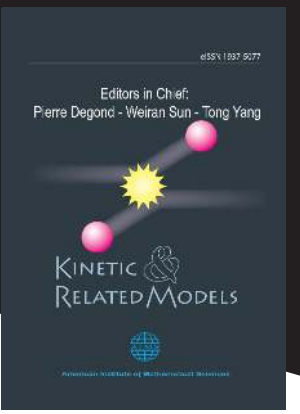

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