

Seventh ISAAC Congress
Imperial College London, England
July 13–18, 2009

Special Session on Pseudo-Differential Operators

Organizers:

Luigi Rodino, Università di Torino, Italy

M. W. Wong, York University, Canada

There will be 5 40-minute talks and 41 25-minute talks. Morning talks will be given in Room 145 and afternoon talks in Clore Lecture Theatre. The speakers with affiliations and titles of talks are listed after the schedule in this program.

Schedule

	July 13
13:15-14:00	M. S. Agranovich
14:00-14:30	B.-W. Schulze
14:30-15:00	I. Witt
15:00-15:30	F. Rochon
15:30-16:00	Break
16:00-16:30	J. Gil
16:30-17:00	J. Toft
17:00-17:30	N. Teofanov

	July 14	July 15	July 16	July 17
09:00-09:30	W. Ichinose	N. Rajabov	G. Hörmann	A. Vasy
09:30-10:00	Y. Karlovykh	T. Shaposhnikova	C. Garetto	M. Oberguggenberger
10:00-10:30	A. Morando	G. Garello	Y. Chiba	J.-A. Marti
10:30-13:45	Other Events	Other Events	Other Events	Other Events
13:45-14:30	M. W. Wong	V. Turunen	L. Cohen	E. Schrohe
14:30-15:00	Y. Liu	J. Delgado	H. Zhu	J. Seiler
15:00-15:30	E. Cordero	V. Catană	L. Galleani	B. Gramsch
15:30-16:00	E. Buzano	Break	A. Oliaro	Break
16:00-16:30	Break	S. Molahajloo	Break	T. Krainer
16:30-17:00	H. Tahara	K. Furutani	C. Iwasaki	C. Bouzar
17:00-17:30	J. Johnsen	P. D. da Silva	E. Hunsicker	D. Natroshvili
17:30-18:00	De Leo	Other Events	T. Gramchev	V. Vasilyev B.

I. 40-minute talks

Mikhael S. Agranovich, Moscow Institute of Electronics and Mathematics, Russia
Boundary value problems for strongly elliptic second order systems in Lipschitz domains

Leon Cohen, City University of New York, U.S.A.
Generalization of the Weyl rule for arbitrary operators

Elmar Schrohe, University of Hannover, Germany
Noncommutative residues and projections associated to boundary value problems

Ville Turunen, Helsinki University of Technology, Finland
Pseudo-differential operators and symmetries

M. W. Wong, York University, Canada
Phases of modified Stockwell transforms and instantaneous frequencies

II. 25-minute talks

Chikh Bouzar, Oran-Essenia University, Algeria
Generalized ultradistributions and their microlocal analysis

Ernesto Buzano, University of Torino, Italy
Some remarks on the Sjöstrand class

Viorel Catană, University Politehnica of Bucharest, Romania
The heat equation for the generalized Hermite and the generalized Landau operators

Yasuo Chiba, Tokyo University of Technology, Japan
Fuchsian mild microfunctions with fractional order and their applications to hyperbolic equations

Elena Cordero, University of Torino, Italy
Sharp results for the STFT and localization operators

Paulo Dattori da Silva, University of Sao Paulo, Brazil
About Gevrey semi-global solvability of a class of complex planar vector fields with degeneracies

Julio Delgado, Universidad del Valle, Colombia
Invertibility for a class of degenerate elliptic operators

Roberto De Leo, University of Cagliari, Italy
On the cohomological equation in the plane for regular vector fields

- Kenro Furutani, Science University of Tokyo, Japan
Heat kernel of a sub-Laplacian and Grushin type operators
- Lorenzo Galleani, Politecnico di Torino, Italy
Time-frequency analysis of stochastic differential equations
- Gianluca Garello, University of Torino, Italy
 L^p -microlocal regularity for pseudodifferential operators of quasi-homogeneous type
- Claudia Garetto, University of Innsbruck, Austria
Generalized Fourier integral operator methods for hyperbolic problems
- Juan Gil, Penn State Altoona, U.S.A.
Resolvents of regular singular elliptic operators on a quantum graph
- Todor Gramchev, Università di Cagliari, Italy
Hyperbolic systems of pseudodifferential equations with irregular symbols in t admitting superlinear growth for $|x| \rightarrow \infty$
- Bernhard Gramsch, University of Mainz, Germany
The Oka principle in algebras of the pseudo-differential analysis
- Günter Hörmann, University of Vienna, Austria
The Cauchy problem for a paraxial wave equation with non-smooth symbols
- Eugénie Hunsicker, University of Loughborough, England
Pseudodifferential operators on locally symmetric spaces
- Wataru Ichinose, Shinshu University, Japan
On the continuity of the solutions with respect to the electromagnetic potentials to the Schrödinger and Dirac equations
- Chisato Iwasaki, University of Hyogo, Japan
Calculus of pseudo-differential operators and a local index of Dirac operators
- Jon Johnsen, Aalborg University, Denmark
On the theory of type 1,1 operators
- Yurily Karlovykh, Universidad Autónoma del Estado de Morelos, Mexico
Pseudo-differential operators with discontinuous symbols and their applications

Thomas Krainer, Penn State Altoona, U.S.A.

On maximal regularity for parabolic equations on complete Riemannian manifolds

Yu Liu, York University, Canada

L^p boundedness and compactness of localization operators associated with the Stockwell transform

Jean-André Marti, Université des Antilles et de la Guyane Shoelcher, France

About transport equations with irregular coefficients and data

Shahla Molahajloo, York University, Canada

The heat kernel of the τ -twisted Laplacian

Alessandro Morando, University of Brescia, Italy

Regularity of characteristic initial-boundary value problems

David Natroshvili, Georgian Technical University, Georgia

Application of pseudodifferential equations in stress analysis for thermo-electromagneto-elasticity problems: a new approach for calculation of stress singularity exponents

Michael Oberguggenberger, Universität Innsbruck, Austria

Local regularity of solutions to PDEs by asymptotic methods

Alessandro Oliaro, University of Torino, Italy

Wigner type transforms and pseudodifferential operators

Nusrat Rajabov, Tajik National University, Tajikistan

Modern results in the theory of the three-dimensional Volterra type linear integral equations with singularity

Fédéric Rochon, University of Toronto, Canada

The adiabatic limit of the Chern character

Bert-Wolfgang Schulze, University of Potsdam, Germany

Boundary value problems as edge problems

Jörg Seiler, University of Loughborough, England

On maximal regularity for mixed-order systems

Tatyana Shaposhnikova, Linköping University, Sweden

Dirichlet problem for higher order elliptic systems with BMO assumptions on the coefficients and the boundary

Hidetoshi Tahara, Sophia University, Japan
Gevrey regularities of solutions of nonlinear singular partial differential equations

Nenad Teofanov, University of Novi Sad, Serbia
Wave-front sets and SG type operators in Fourier–Lebesgue spaces

Joachim Toft, Växjö University, Sweden
Wave-front sets of Fourier–Lebesgue types

Vladimir Vasilyev B., Bryansk State University, Russia
Pseudodifferential equations and boundary value problems in non-smooth domains

Andás Vasy, Stanford University, U.S.A.
Diffraction at corners for the wave equation on differential forms

Ingo Witt, University of Göttingen, Germany
Formation of singularities near Morse points

Hongmei Zhu, York University, Canada
Generalized cosine transforms in image compression