Fifth ISAAC Congress

University of Catania, Italy
July 25–30, 2005

Special Session on Pseudo-Differential Operators

Organizers:
Joachim Toft, Växjö University, Sweden
M. W. Wong, York University, Canada

Schedule

Timetable	July 26	July 27	July 28	July 29
11:30–12:15	L. Rodino	H. Zhu	B.-W. Schulze	M. S. Agranovich
12:25–12:55	S. Pilipović	K. Furutani	T. Krainer	A. Andersson
13:00–15:00	**Lunch**	**Lunch**	**Lunch**	**Lunch**
15:00–15:30	E. Buzano	J. Toft	S. Coriasco	A. Morando
15:35–16:05	P. R. Popivanov	C. Iwasaki	J. Seiler	G. Garello
16:10–16:40	E. Cordero	B. Gramsch	M. Sugimoto	V. Turunen
16:45–17:15	**Coffee**	**Recess**	**Coffee**	**Coffee**
17:15–17:45	P. Boggiatto	**Recess**	N. Kumano-go	C. Bouzar
17:50–18:20	V. Rabinovich	**Recess**	W. Ichinose	M. Ruzhansky
18:25–18:55	T. Umeda	**Recess**	N. Teofanov	M. W. Wong

Speakers, Institutes and Titles of Talks

1. Anders Andersson, Växjö University, Sweden
   Conformal mappings for regions bounded by arbitrary smooth curves

2. M. S. Agranovich, Moscow Inst. of Electronics & Mathematics, Russia
   Mixed and crack type spectral problems for second order strongly elliptic systems

3. Paolo Boggiatto, University of Torino, Italy
   Localization operators, generalized Sobolev-Shubin spaces, and their relations to modulation spaces

4. Chikh Bouzar, University of Oran–Essenia, Algeria
   A Gevrey microlocal analysis of multi-anisotropic differential operators

5. Ernesto Buzano, University of Torino, Italy
   Super-exponential decay of solutions to differential equations in $\mathbb{R}^d$

6. Elena Cordero, University of Torino, Italy
   Symbolic calculus for localization operators and applications

7. Sandro Coriasco, University of Torino, Italy
   Bounded H_∞-calculus for differential operators on conic manifolds with boundary

8. Kenro Furutani, Science University of Tokyo, Japan
   Heat kernel on nilpotent Lie groups

9. Gianluca Garello, University of Torino, Italy
   Pseudodifferential operators in L^p framework

10. Bernhard Gramsch, University of Mainz, Germany
    Complex analysis for Fréchet manifolds in algebras of Fourier operators

11. Wataru Ichinose, Shinshu University, Japan
    L^2 stability and boundedness of the Fourier integral operators applied to the theory of the Feynman path integral

12. Chisato Iwasaki, University of Hyogo, Japan
    Symbolic calculus of pseudo-differential operators and curvature of manifolds

13. Thomas Krainer, University of Potsdam, Germany
    Resolvents of elliptic operators on conic manifolds

14. Naoto Kumano-go, Lisbon Univ., Portugal & Kogakuin Univ., Japan
    Smooth functional derivatives in Feynman path integrals by time slicing approximation

15. Alessandro Morando, University of Torino, Italy
    On the L^p boundedness of a class of pseudo-differential operators in $\mathbb{R}^n$

16. Stevan Pilipović, University of Novi Sad, Serbia-Montenegro
    Microlocalization within some classes of Fourier hyperfunctions

17. P. R. Popivanov, Bulgarian Academy of Sciences, Bulgaria
On the solvability and partial analyticity of the right hand side of degenerate parabolic operators

18. Vladimir Rabinovich, Instituto Politecnico Nacional, Mexico
Fredholm property of pseudodifferential operators with non-smooth symbols on modulation spaces

19. Luigi Rodino, University of Torino, Italy
Gelfand–Shilov spaces and applications to partial differential equations

20. Michael Ruzhansky, Imperial College London, England
Limiting absorption principle in the critical case and applications

21. Bert-Wolfgang Schulze, University of Potsdam, Germany
The role of edge conditions in parametrices on singular manifolds

22. Jörg Seiler, University of Hannover, Germany
Bounded H_∞-calculus of the Dirichlet-Neumann operator for domains with C^{1+r}-boundary

23. Mitsuru Sugimoto, Osaka University, Japan
A weak extension theorem for inhomogeneous differential equations

24. Nenad Teofanov, University of Novi Sad, Serbia–Montenegro
Time-frequency representations and ultra-distributions

25. Joachim Toft, Växjö University, Sweden
Schatten properties in Weyl calculus

26. Ville Turunen, Helsinki University of Technology, Finland
Fourier series operators and hyperbolic PDEs

27. Tomio Umeda, University of Hyogo, Japan
On the effect of the singularities on symbols

28. M. W. Wong, York University, Canada
Global hypoellipticity of the twisted Laplacian

29. Hongmei Zhu, York University, Canada
New pseudo-differential operators with medical applications