



## **Workshop on generalized functions and PDEs**

**February 19-20, 2009**

**University of Innsbruck**

**FWF**

Der Wissenschaftsfonds.



**italien-zentrum**  
**UNIVERSITÄT INNSBRUCK**

# Generalized functions and PDEs

The purpose of this workshop is to bring together researchers working in generalized functions and partial differential equations. The workshop includes invited talks, scientific research collaborations and exchange of ideas.

## Schedule

Thursday 19/02/09

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|-------|--|--|
| 10:00 | Coffee   |  |
| 11:00 | HSB 6  | Luigi Rodino (University of Torino)<br><i>On the spectrum of the twisted bi-Laplacian</i>  |
| 11:40 |  | Stevan Pilipović (University of Novi Sad)<br><i>Tensorised Shubin type operators</i>   |
| 12:20 |  | Michael Ruzhansky (Imperial College London)<br><i>Comparison principles for evolution PDEs</i>   |
| 13:00 | Lunch  |  |
| 14:30 |  | Ville Turunen (Helsinki University of Technology)<br><i>Pseudo-differential equations under symmetries</i>                                       |
| 15:10 |  | Fabio Nicola (Technical University of Torino)<br><i>Boundedness of Fourier integral operators on Fourier- Lebesgue spaces and related topics</i> |
| 15:50 | Coffee   |  |
| 16:10 |  | Sandro Coriasco (University of Torino)<br><i>Edge problems on configurations with model cones of different dimensions</i>                        |
| 16:50 |  | Andrea Volpato (University of Potsdam)<br><i>Variable and branching asymptotics</i>  |
| 19:30 | Dinner : “Restaurant Goldener Adler”, Herzog-Friedrich-Str. 6, Innsbruck |  |

Friday 20/02/09

- 10:00            HSB 6            Todor Gramchev (University of Cagliari)  
*Regularity issues for some classes of compactly supported soliton type solutions*
- 10:40                            Michael Kunzinger, Michael Grosser (University of Vienna)  
*Old and new on the Schwartz impossibility result*
- 11:20            Coffee
- 11:40                            Shantanu Dave (University of Vienna)  
*Compatibility of regularizing processes with functorial properties of distributions*
- 12:20                            Hans Vernaeve (University of Gent)  
*Regularity of Colombeau generalized functions*
- 13:00            Lunch
- 14:30                            Roland Steinbauer (University of Vienna)  
*Topics in distributional semi-Riemannian geometry*
- 15:10                            Claudia Garetto (University of Innsbruck)  
*Solvability and local solvability of partial differential equations in the Colombeau context*
- 15:50                            Michael Oberguggenberger (University of Innsbruck)  
*Regularizing non-smooth coefficients in hyperbolic equations*

Organizers: Dr. Claudia Garetto  
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The organizers gratefully acknowledge support  
by italien-zentrum Universität Innsbruck, FWF,  
and Faculty of Civil Engineering