

# International Conference Nonlinear Analysis

in Honor of  
Herbert Amann's 80th Birthday

June 11-14, 2019

Palazzone, Scuola Normale Superiore di Pisa,  
Cortona, Italy

## Confirmed Participants

H. Abels, Regensburg  
H. Beirao da Veiga, Pisa  
J. Bemelmans, Aachen  
P. Biler, Wroclaw  
G. Bizhanova, Almaty  
D. Bothe, Darmstadt  
R. Chill, Dresden  
D. Daners, Sydney  
G. Da Prato, Pisa  
I. Denisova, St. Petersburg  
R. Denk, Konstanz  
I. Diaz, Madrid  
K. Disser, Darmstadt  
R. Farwig, Darmstadt  
E. Frolowa, St. Petersburg  
G.P. Galdi, Pittsburgh  
D. Guidetti, Bologna  
R. Haller-Dintelmann, Darmstadt  
J. Hernandez, Madrid

T. Hishida, Nagoya  
G. Karch, Wroclaw  
M. Köhne, Düsseldorf  
H. Kozono, Tokyo  
P. Kunstmann, Karlsruhe  
Ph. Laurencot, Toulouse  
J. Lopez-Gomez, Madrid  
L. Lorenzi, Parma  
G. Metafune, Lecce  
P. Mucha, Warsaw  
S. Necasova, Prague  
J. Neustupa, Prague  
V. Nistor, Metz  
M. Pierre, Rennes  
K. Pileckas, Vilnius  
R. Racke, Konstanz  
J. Rehberg, Berlin  
J. Renclawowicz, Warsaw  
A. Rhandi, Salerno

J.F. Rodrigues, Lisbon  
M. Ruzicka, Freiburg  
R. Schnaubelt, Karlsruhe  
E. Schrohe, Hannover  
B.W. Schulze, Potsdam  
A. Sequeira, Lisbon  
G. Seregin, Oxford  
S. Shimizu, Kyoto  
W. Sickel, Jena  
V.A. Solonnikov, St. Petersburg  
M. Specovius-Neugebauer, Kassel  
Ch. Stinner, Darmstadt  
G. Ströhmer, Ames  
G. Sweers, Köln  
W. Varnhorn, Kassel  
P. Weidemaier, Freiburg  
L. Weis, Karlsruhe  
M. Wilke, Halle  
S.W. Zajączkowski, Warsaw

Organizers: M. Chipot - F. Flandoli - P. Guidotti - M. Hieber - P. Koch-Medina - A. Lunardi - G. Simonett - Ch. Walker

Further Information: <https://www2.mathematik.tu-darmstadt.de/~igk/cortona/> or contact [cortona2019@mathematik.tu-darmstadt.de](mailto:cortona2019@mathematik.tu-darmstadt.de)

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**Tuesday, 11. June 2019**

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<b>Time</b>	<b>Speaker</b>	<b>Title of Talk</b>
<b>09:15-10:00</b>	G. Paolo Galdi	<i>Viscous Flow past a Body Translating by Time-Periodic Motion with Zero Average</i>
<b>10:15-11:00</b>	Alessandra Lunardi	<i>Schauder Theorems for Elliptic and Parabolic Equations in Finite and Infinite Dimension</i>
<b>11:30-12:15</b>	Winfried Sickel	<i>The Radial Lemma of Strauss - Extensions to Function Spaces of Fractional Order of Smoothness and Consequences</i>
<b>15:15-16:00</b>	Joachim Rehberg	<i>Well-posedness for the Keller-Segel Model – based on a Pioneering Result of Herbert Amann</i>
<b>16:15-17:00</b>	Daniel Daners	<i>Eventually Positive Semi-Groups and Perturbation</i>
<b>17:30-18:15</b>	Christoph Walker	<i>Dynamics of a Free Boundary Problem Modeling MEMS</i>

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**Wednesday, 12. June 2019**

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<b>Time</b>	<b>Speaker</b>	<b>Title of Talk</b>
<b>09:15-10:00</b>	Guiseppe Da Prato	<i>Neumann Problem in Infinite Dimension</i>
<b>10:15-11:00</b>	Hideo Kozono	<i>Asymptotic Properties of Steady Solutions to the 2D Navier-Stokes Equations with the Finite Generalized Dirichlet Integral</i>
<b>11:30-12:15</b>	Ildefonso Díaz	<i>Beyond the Unique Continuation: “Flat Solutions” for Reactive Slow Diffusions, the Infinite and Hardy Potential for Schrödinger Equation and 2-d Electron Beams</i>
<b>15:15-16:00</b>	Guido Sweers	<i>Fourth Order Elliptic and Positivity</i>
<b>16:15-17:00</b>	Philippe Laurençot	<i>A Constrained Model for MEMS with Varying Dielectric Properties</i>
<b>17:30-18:15</b>	Adélia Sequeira	<i>Towards Personalized Accurate Cardiovascular Simulations Using Clinical Data</i>

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**Thursday, 13. June 2019**

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<b>Time</b>	<b>Speaker</b>	<b><i>Title of Talk</i></b>
<b>09:15-10:00</b>	Victor Nistor	<i>Singular Manifolds Versus Amann Triples</i>
<b>10:15-11:00</b>	Matthias Hieber	<i>Analysis of the Ericksen-Leslie Equations for Nematic Liquid Crystal Flows</i>
<b>11:30-11:15</b>	Lutz Weis	<i>Regularity Results for Random Field Solutions of Stochastic Evolution Equations</i>
<b>15:15-16:00</b>	Patrick Guidotti	<i>A Novel Optimization Approach to Fictitious Domain Methods</i>
<b>16:15-17:00</b>	Elmar Schrohe	<i>Bounded <math>H_\infty</math>-calculus for Boundary Value Problems on Manifolds with Conical Singularities</i>
<b>17:30-18:15</b>	Gieri Simonett	<i>The Surface Diffusion Flow for Uniformly Regular Hypersurfaces</i>

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**Friday, 14. June 2019**

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<b>Time</b>	<b>Speaker</b>	<b><i>Title of Talk</i></b>
<b>09:15-10:00</b>	Julian Lopez-Gomez	<i>The Characterization of the Strong Maximum Principle</i>
<b>10:15-11:00</b>	Michel Chipot	<i>On some Korn Inequalities</i>
<b>11:30-12:15</b>	V. A. Solonnikov	<i>On Evolution Free Boundary Problem for Viscous Fluids of Different Types: Compressible and Incompressible</i>

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