

Evolution Equations: Randomness and Asymptotics

October 10 to 14, 2011, Bad Herrenalb

MONDAY, 10 OCTOBER

07:30	Breakfast	
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08:50-10:30	Seminar room 7/8	
08:50-09:00	Opening	
09:00-09:40	Guiseppe Da Prato (Pisa) <i>Fokker-Planck equations in Hilbert spaces</i>	
09:45-10:25	Robert Denk (Konstanz) <i>\mathcal{R}-boundedness of pseudodifferential operators</i>	

10:30-11:00	Coffee break	
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11:00-12:30	Seminar room 7/8	
11:00-11:40	Annie Millet (Paris) <i>Stochastic 2D hydrodynamical systems: Wong-Zakai approximation and Support theorem</i>	
11:45-12:25	Frank Merle (Cergy-Pontoise) <i>Global existence and blow-up for the energy-critical wave equation in dimension 3</i>	

12:30-15:00	Lunch break	
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15:00-16:30	Seminar room 7/8	Seminar room 6
15:00-15:25	Roberto Triggiani (Charlottesville, Virginia): <i>Inverse problems for second order hyperbolic equations via one boundary measurement</i>	Stig-Olof Londen (Helsinki): <i>On integral equations driven by fractional Brownian motion</i>
15:30-15:55	Atanas Stefanov (Lawrence, Kansas): <i>Linear stability analysis for traveling waves of second order in time PDE's</i>	Wilfried Grecksch (Halle): <i>A Fractional Stochastic Schrödinger Equation</i>
16:00-16:25	Sebastian Herr (Bonn): <i>Scale invariant multilinear estimates and applications to dispersive equations</i>	Mark Veraar (Delft): <i>Stochastic parabolicity or not</i>

16:30-17:00	Coffee break	
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17:00-18:30	Seminar room 7/8	Seminar room 6
17:00-17:25	Jürgen Saal (Darmstadt): <i>A Vector Measure Approach to Rotating Boundary Layers</i>	Abdelhadi Es-Sarhir (Agadir): <i>Invariant measures of semilinear diffusions in Hilbert spaces</i>
17:30-17:55	Mathias Wilke (Halle): <i>On the Rayleigh-Taylor Instability for the two-phase Navier-Stokes Equations in a Capillary</i>	Markus Kunze (Ulm): <i>Approximating the coefficients in semilinear SPDE</i>
18:00-18:15	Daniel Hauer (Ulm): <i>Convergence of bounded solutions of degenerate parabolic problems on a bounded interval</i>	Paul Crewe (Oxford): <i>Stochastic almost periodicity in Banach spaces</i>
18:15-18:30	Stefan Meyer (Halle): <i>Optimal regularity and long-time behavior of solutions for the Westervelt equation</i>	Moritz Gerlach (Ulm): <i>Kernel operators and Doob's theorem</i>

18:30	Dinner	
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TUESDAY, 11 OCTOBER

07:30	Breakfast	
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09:00-10:30	Seminar room 7/8	
09:00-09:40	Herbert Koch (Bonn) <i>Selfsimilar solutions to the generalized KdV equation of finite energy</i>	
09:45-10:25	Zdzislaw Brzezniak (York) <i>On the stochastic Strichartz estimates and the stochastic nonlinear Schrödinger equation on a compact riemannian manifold</i>	

10:30-11:00	Coffee break	
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11:00-12:30	Seminar room 7/8	
11:00-11:40	Helmut Abels (Regensburg) <i>On a non-classical sharp interface model two-phase flows of incompressible viscous fluids</i>	
11:45-12:25	Martin Hairer (Warwick) <i>Solving the KPZ equation</i>	

12:30-15:00	Lunch break	
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15:00-16:30	Seminar room 7/8	Seminar room 6
15:00-15:25	Michael Scheutzow (Berlin): <i>Stochastic delay equations</i>	Yuri Latushkin (Columbia, Missouri): <i>Birman-Schwinger operators and the Evans function in stability of traveling waves</i>
15:30-15:55	Björn Schmalfuß (Paderborn): <i>Dynamics of evolution equations driven by a fractional Brownian motion</i>	George Avalos (Lincoln, Nebraska): <i>Rational decay rates for coupled partial differential systems</i>
16:00-16:25	Dirk Blömker (Augsburg): <i>Evolution of dominant pattern under degenerate noise</i>	Luca Lorenzi (Parma): <i>On a class of weakly coupled systems of elliptic operators with unbounded coefficients</i>

16:30-17:00	Coffee break	
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17:00-18:30	Seminar room 7/8	Seminar room 6
17:00-17:25	Max von Renesse (Berlin): <i>Ergodic Properties of Stochastic Curve Shortening Flows</i>	Markus Haase (Delft): <i>Classical and generalized square function estimates</i>
17:30-17:55	Martin Ondreját (Prague): <i>Invariant measures for stochastic wave equations</i>	Christoph Kriegler (Clermont-Ferrant): <i>Spectral decomposition and interpolation spaces for operators with smooth functional calculus</i>
18:00-18:25	Hendrik Weber (Warwick): <i>Rough Burgers Like equations</i>	Chiara Spina (Lecce): <i>Elliptic operators with unbounded diffusion and drift coefficients</i>

18:30	Dinner	
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WEDNESDAY, 12 OCTOBER

07:30	Breakfast	
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09:00-10:30	Seminar room 7/8	
09:00-09:40	Michael Röckner (Bielefeld) <i>Recent Extinction Results for Stochastic Porous Media Equations and Applications to Self-Organized Criticality</i>	
09:45-10:25	Dirk Hundertmark (Karlsruhe) <i>Mathematical challenges in nonlinear glass-fiber optics</i>	

10:30-11:00	Coffee break	
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11:00-12:30	Seminar room 7/8	
11:00-11:40	Sandra Cerrai (College Park, Maryland) <i>Approximation of exit times for multidimensional reaction-diffusion equations</i>	
11:45-12:25	Matthias Hieber (Darmstadt) <i>Nonlinear stability of the Ekman spiral for deterministic and stochastic perturbations</i>	

12:30-15:00	Lunch break	
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15:00-16:30	Seminar room 7/8	Seminar room 6
15:00-15:25	George Weiss (Tel Aviv): <i>Maxwell's equations with moving objects</i>	Massimiliano Gubinelli (Paris): <i>Regularization by oscillations</i>
15:30-15:55	Birgit Jacob (Wuppertal): <i>Weighted interpolation in Paley-Wiener spaces and finite-time controllability</i>	Tomasz Szarek (Gdansk): <i>The law of the iterated logarithm for some Markov chains</i>
16:00-16:25	Sylvie Monniaux (Marseille): <i>Maximal regularity in tent spaces</i>	Abdelaziz Rhandi (Salerno): <i>On Schrödinger type operators with unbounded coefficients</i>

16:30-17:00	Coffee break	
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17:00-18:15	Seminar room 7/8	Seminar room 6
17:00-17:25	Carlo Marinelli (Bolzano): <i>Existence and regularity of densities for a class of semilinear parabolic SPDEs with non-Lipschitz drift</i>	Rico Zacher (Halle): <i>Lyapunov functions and convergence to steady state for nonlinear non-local in time problems</i>
17:30-17:45	Sonja Cox (Delft): <i>A perturbation result for parabolic SPDE's</i>	Jonas Tölle: <i>Singular stochastic evolution inclusions</i>
17:45-18:00	Teng Wang (Twin Cities, Minnesota): <i>Filtering partially observable diffusions up to the exit time from a domain</i>	Benjamin Gess (Bielefeld): <i>Random attractors for stochastic porous media equations perturbed by space-time linear multiplicative noise</i>
18:00-18:15	Le Chen (Lausanne): <i>Nonlinear Stochastic Heat Equation Driven by Space-Time White Noise in \mathbb{R}^{1+1} with Radon Measure-Valued Initial Data: Solutions, Second Moments and Exponential Growth Indices</i>	Diana Keller (Halle): <i>A Problem of Optimal Control for the Linear Stochastic Schrödinger Equation</i>

19:30	Conference Dinner	
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THURSDAY, 13 OCTOBER

07:30	Breakfast	
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09:00-10:30	Seminar room 7/8	
09:00-09:40	Alessandra Lunardi (Parma) <i>Dirichlet and Neumann problems for second order elliptic equations in infinite dimensions</i>	
09:45-10:25	Jan van Neerven (Delft) <i>Stochastic integration with respect to Poisson random measures</i>	

10:30-11:00	Coffee break	
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11:00-12:30	Seminar room 7/8	
11:00-11:40	Wilhelm Stannat (Darmstadt) <i>On the uniqueness of the Wasserstein diffusion</i>	
11:45-12:25	Wolfgang Arendt (Ulm) <i>Semigroups generated by elliptic operators: continuity up to the boundary</i>	

12:30-15:00	Lunch break	
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15:00-16:30	Seminar room 7/8	Seminar room 6
15:00-15:25	Charles J. K. Batty (Oxford): <i>Quasi-hyperbolic semigroups</i>	Giorgio Metafuno (Lecce): <i>Analytic semigroups generated by the operator $x ^\alpha \Delta$</i>
15:30-15:55	Yuri Tomilov (Torun): <i>Bernstein functions and rates in mean ergodic theorems</i>	Enrico Priola (Turin): <i>Lipschitz regularizing effect for parabolic equations with irregular coefficients</i>
16:00-16:25	Diego Pallara (Lecce): <i>The Ornstein-Uhlenbeck semigroup and geometric measure theory in Wiener spaces</i>	Peer Kunstmann (Karlsruhe): <i>L^p-spectral multipliers for some elliptic systems</i>

16:30-17:00	Coffee break	
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17:00-18:00	Seminar room 7/8	Seminar room 6
17:00-17:25	Matthias Geißert (Darmstadt): <i>Rate of weak convergence of the finite element method for the stochastic heat equation with additive noise</i>	Lahcen Maniar (Marrakesh): <i>Null controllability of parabolic equations with delay</i>
17:30-17:55	Jan Maas (Bonn): <i>A spatial version of the Itô-Stratonovich correction</i>	Andras Batkai (Budapest): <i>Differential equation approximations of stochastic network processes: an operator semigroup approach</i>

18:30	Dinner	
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FRIDAY, 14 OCTOBER

07:30	Breakfast
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09:00-10:30	Seminar room 7/8
09:00-09:40	Vicenzo Vespri (Florence) <i>Long time behaviour for solutions of a class of singular parabolic equations</i>
09:45-10:25	Piermarco Cannarsa (Rome): <i>Controllability results for degenerate parabolic operators</i>
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10:30-11:00	Coffee break
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11:00-12:30	Seminar room 7/8
11:00-11:40	Jan Prüss (Halle) <i>Stefan Problems with Surface Energy</i>
11:45-12:25	Nicolai Krylov (Minneapolis) <i>Accelerated finite difference schemes for stochastic partial differential equations in the whole space</i>
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12:30	Lunch
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