Stochastics in Turbulence and Finance

Tuesday 29 January - Friday 1 February 2008, Sandbjerg Estate, Sønderborg, Denmark.

THIELE CENTRE
FOR APPLIED MATHEMATICS IN NATURAL SCIENCE

	Tuesday	Wednesday	Thursday	Friday
09:00 - 09.45	**Neil Shephard** Measuring downside risk - realised semivariance	**Andrei Fursikov** Homogeneous and isotropic statistical solutions of the Navier-Stokes equations	**Joachim Peinke** New insights into turbulence; with excursion to finance	**Huaizhong Zhao** Stationary solutions of SPDEs and Infinite Horizon BDSDEs
10:00 - 10:45	**Fred Espen Benth** Modelling the electricity markets	**Ole Barndorff-Nielsen** Volatility modulated Volterra processes	**Jochen Cleve** Multifractal design of wind fields	**Enrique Thomann** Analysis of Ruin Probability under investment for non Markovian interarrival times
11:00 - 11:45	**Martin Greiner** Modelling and optimization of wind farms	**Jürgen Schmiegel** Stochastic modelling of the turbulent velocity field	**Gunner Larsen** The distribution of turbulence driven wind speed extremes; an asymptotic closed form formulation	**Andreas Basse** Gaussian Semimartingales and Moving Averages
12:00 - 13:00	Lunch	Lunch	Lunch	Lunch
14:00 - 14:45	**Ed Waymire** A rate of convergence for the LANSalpha regularization of Navier-Stokes equations		**Jose Manuel Corcuera** Power variation and Gaussian processes with stationary increments	
14:45 - 15:30	**Björn Birnir** Uniqueness of solutions to the stochastic Navier-Stokes equation, the invariant measure and Kolmogorov's theory		**Jeannette Wörner** Brownian motion based versus fractional Brownian motion based models	
15:30 - 16:00	**Coffee/Tea Break**	**Coffee/Tea Break**	**Coffee/Tea Break**	
16:00 - 16:45	**Mark Podolskij** Inference for semimartingales in the presence of noise	**Rama Cont** Nonparametric tests for analyzing the fine structure of price fluctuations	**Matthias Wächter** Stochasic multiscale analysis and reconstruction of time series of stochastic cascade processes	
17:00 - 17:45	**Almut Veraart** Inference for the jump part of quadratic variation of Itô semimartingales	**Michael Sørensen** Efficient estimation for ergodic diffusions sampled at high frequency	**David Kleinhans** Continuous time random walks in the continuum limit: simulation of atmospheric winds	
18:00 - 19:00	Dinner	Dinner	**Conference Dinner**	