PROGRAM, 13–19.01.2014

Monday, 13.01

- **8.45-9.00** *In memoriam* of Marc Yor (July 24, 1949 January 10, 2014).

- **9.00-9.45** Eberlein E. Lévy driven two price valuation with applications to long-dated contracts.

- **9.45-10.15** Shiryaev A. Jump processes: compensators and the Kolmogorov equations.

- **10.15-10.45** Pavlov I. Theorems on deformed martingales and their application to financial mathematics.

- Coffee break

- **11.05-11.35** Belomestny D. Optimal stopping under model uncertainty: randomized stopping times approach.

- **11.35.-12.00** Lyulko Y. Maximal inequalities for skew Brownian motion and related optimal stopping problems.

- **12.05-12.30** Muravlev A. Quickest disorder detection problem with sequential hypothesis testing.

- **14.00-14.45** Choulli T. Hellinger process for supermartingale deflators with application in utility maximization.

- **14.45-15.15** Engelbert H.J. On the predictable representation property of certain families of square integrable martingales.

- **15.15-15.45** Di Tella P. Representation of martingales of the natural filtration of a Lévy process.

- **15.45-16.15** Galtchouk L. On martingales of independent increments processes.

- Coffee break

- **16.45-17.10** Herdegen M. A class of strict local martingales.

- **17.10-17.35** Herrmann S. Optimal investment in a Black-Scholes model with a bubble.

- **17.35-18.00** Kallblad S. Ambiguity averse portfolio optimization with quasiconcave utility functionals.

- Coffee break

- **18.15-18.40** Palamarchuk E. Long-term impacts of average optimal policies in linear control systems under general time preference.

- **18.40-19.05** Pergamenchtchikov S. Optimal investment with bounded VaR for power utility functions.

- **19.05-19.30**

Tuesday, 14.01

- **9.00-9.45** Ortega J.-P. Option pricing and hedging with heteroscedastic underlying price processes. Discrete and continuous time approaches.

- **9.45-10.15** Guegan D. A quantitative finance and actuarial framework for risk management.

- **10.15-10.45** Schmutz M. Risk based solvency frameworks and resulting modeling challenges.

- Coffee break

- **11.05-11.35** Grigoryeva L. Estimation and empirical performance of non-scalar dynamic conditional correlation (DCC) models.

- **11.35.-12.00** Peresetsky A. Extracting global stochastic trend from non-synchronous data.

- **12.05-12.30** Fukasawa M. Whittle likelihood for high frequency data.

- **14.00-14.45** Platen E. The affine nature of aggregate wealth dynamics.

- **14.45-15.15** Elie R.

- **15.15-15.45** Maliutov M. Time series homogeneity test via VLMC training.

- **15.45-16.15** Kleptsyna M. Mixed fractional Brownian motion: the filtering perspective.

- Coffee break

- **16.45-17.10** Gushchin A. A characterization of minimax tests with applications to efficient partial hedging.

- **17.10-17.35** Burnaev E. Monitoring of financial indexes volatility based on the Haar approximation.

- **17.35-18.00** Martynov G. Gaussianity test for random processes.

- Coffee break

- **18.15-18.40** Vaicenavicius J. Bayesian sequential testing of the sign of a drift.

- **18.40-19.05** Novikov A., Kordzahia N. Lower and upper bounds for options on VWAP.

- **19.05-19.30** Sonin I. Insertion - a new operation for Markov chains.

Wednesday, 15.01

- **14.00-14.45** Teichmann J. An L^0-interpretation of Burkholder–Davis–Gundy inequalities and a proof alternative for the fundamental theorem of asset pricing.

- **14.45-15.15** Pham H. Randomization approach and backward SDE representation for optimal control of non-Markovian SDEs.

- **15.15-15.45** Matoussi A. Probabilistic representation for fully nonlinear SPDEs and 2BSDEs. .

- **15.45-16.15** Moreau L. Trading with price impact.

- Coffee break

- **16.45-17.10** Kruse T. Optimal stopping with private information.

- **17.10-17.35** Mastrolia T. Density analysis of BSDEs.

- **17.35-18.00**

- Coffee break

- **18.15-18.40** Larsson M. Existence and uniqueness of polynomial preserving diffusions.

- **18.40-19.05** Pulido S. Approximation of polynomial processes with finite-state Markov processes.

- **19.05-19.30** Leniec M. Inverse first passage problem in credit risk.

Thursday, 16.01

- **9.00-9.45** Grasselli M. The macroeconomic consequences of private debt.

- **9.45-10.15** Choi Youngna. Financial instability contagion: a dynamical system approach.

- **10.15-10.45** Amini H. Default cascade in financial networks.

- Coffee break

- **11.05-11.30** Minca A. Systemic risk with central counterparty clearing .

- **11.30.-12.00** Schweizer M. Some new ideas on bubbles.

- **12.05-12.30** Mezghani H. Maximization of recursive utilities under convex portfolio constraints.

- **14.00-14.45** Suzuki T. Optimal subsidy allocation to banks under financial crisis.

- **14.45-15.15** Royer G. General indifference pricing with small transaction costs.

- **15.15-15.45** Nguyen Huu Thai. Approximate hedging with proportional transaction costs for multi-asset options.

- **15.45-16.15** Grépat J. On convergence of hedging sets under small transaction costs.

- Coffee break

- **16.45-17.10** Runggaldier W. On multicurve models for the term structure.

- **17.10-17.35** Cuchiero C. An HJM approach for multiple yield curves.

- **17.35-18.00** Donchev. D. Brownian motion exit probabilities for two-side exotic boundaries.

- Coffee break

- **18.15-18.40** Horvath B. Sub-eigenfunctions for SABR and the generalized Feller property.

- **18.40-19.05** Abakirova A. On approximation of the BSDEs: large samples.

- **19.05-19.30** Crépey S. Gap risk modeling.

Friday, 17.01

- **9.00-9.45** Touzi N. Path-dependent PDEs.

- **9.45-10.15** Vostrikova L. Pricing and hedging of exponential semi-martingale models with random factors.

- **10.15-10.45** Danilova A. Understanding stochastic volatility in financial markets.

- Coffee break

- **11.05-11.35** Molchanov I. Risk measures in the multiasset setting.

- **11.35.-12.05** Douadi R. Procyclicality issues with Basel III regulatory framework.

- **14.00-14.45** Zervos M. A zero-sum game between a singular stochastic controller and a discretionary stopper.

- **14.45-15.15** Corcuera J.M. A continuous auction model with insiders and random time of information release.

- **15.15-15.45** Urusov M. Processes that can be embedded in a geometric Brownian motion.

- **15.45-16.15** Mishura Y. Two results of Marc Yor: review, simplifications, and generalizations. .

- Coffee break

- **16.45-17.10** Sikic M. On no-arbitrage conditions and portfolio optimization in discrete time market models.

- **17.10-17.35** Kreinin A. On simulation of multivariate Poisson processes and their generalizations.

- **17.35-18.00**

- Coffee break

- **18.15-18.40** Aksamit A. Optional semimartingale decomposition and no arbitrage condition in enlarge filtration.

- **18.40-19.05** Ellanskaya A. On some examples of the indifference pricing of exponential semimartingale models with random factor.

- **19.05-19.30**

Saturday, 18.01

- **9.00-9.45** Hinz J. Duality bounds for convex switching problems.

- **9.45-10.15**

- **10.15-10.45** Aboura S. Are banks firms? The Modigliani-Miller theorem revisited.

- Coffee break

- **11.05-11.35** Owari K. On a convex duality method under model uncertainty.

- **11.35.-12.05** Zhitlukhin M. Testing hypotheses about the sign of the drift of a Brownian motion.

- **12.05-12.35** Lépinette E. TBA