PROGRAM, 16-21.01.2017

Monday, 16.01

- 9:00-12:00 SPECIAL SESSION FOR YOUNG RESEARCHERS (COULD BE POSTPONED THE AFTERNOON AS A PARALLEL SESSION IF ENOUGH SNOW TO SKI)
 - 9:00-9:15 Sara Svaluto-Ferro: Boundary attainment for polynomial jump-diffusions on the unit interval
 - 9:15-9:30 Sahar Albosaily: The optimal investment and consumption for the financial market generated by the spread of risky assets
 - 9:30-9:45 Belak Christoph: Portfolio optimization with constant and proportional costs
 - 9:45-10:00 Calypso Herrera: Parallel American Monte Carlo
 - 10:00-10:15 Côme Huré: Algorithmic trading in a microstructural limit order book model
 - break
 - 10:45-11:00 Asgar Jamneshan: Duality results for vector-valued risk measures
 - 11:00-11:15 Tongseok Lim: Optimal transport in general dimensions with various additional constraints
 - 11:15-11:30 Peng Luo: Solvability of multidimensional quadratic BS-DEs
 - 11:30-11:45 Shohruh Miryusupov: Particle Monte-Carlo simulation: improvements using Hamiltonian dynamics
 - 11:45-12:00 Matteo Basei: Coordination of centralized and distributed generation
 - Lunch

- 14.00-14.45 Tom Hurd: Symmetric cascades in banking networks
- 14.45-15.15 Tuan Tran: Asset fire sales and strategic trading by regulated banks
- 15.15-15.45 Anatoly Peresetsky: Russian bank credit ratings and bank license withdrawal 2012-2016
- 15.45-16.15 Hye-Jin Cho: Economics of regulation: credit rationing and excess liquidity
- Coffee break
- 16.45-17.15 Bruno Bouchard: Stochastic invariance of closed sets and applications in finance
- 17.15-17.30 Wissal Sabbagh: Weak BSDEs with American type constraint
- Break
- 17:45-18:15 Eugene Feinberg : Jump Markov processes and Kolmogorov's equations
- 18:15-18:45 Mathieu Rosembaum: Pricing and hedging under rough Heston models

Tuesday, 17.01

- 9:00-12:00 SPECIAL SESSION FOR YOUNG RESEARCHERS (COULD BE POSTPONED THE AFTERNOON AS A PARALLEL SESSION IF ENOUGH SNOW TO SKI)
 - 09:00-09:15 Blanchard Romain: Robust optimal investment in discrete time for unbounded utility function
 - 09:15-09:30 Thomas Cayé: Trading with small nonlinear price impact
 - 09:30-09:45 Lucas Gonon: Filtering of affine processes with Riccati equations
 - **09:45-10:00** Antoine Kornprobs: Winning investment strategies based on financial crisis indicators
 - 10:00-10:15 Miryana Grigorova: Doubly reflected BSDEs and Dynkin games: beyond the right-continuous case
 - break
 - 10:45-11:15 Matteo Burzoni: Pathwise arbitrage theory in discrete time
 - 11:15-11:30 David Proemel A superhedging approach to stochastic integration
 - 11:30-11:45 Max Reppen: Optimal investment and consumption with fixed and proportional transaction costs
 - 11:45-12:00 Alexandra Tsimbalyuk: Perpetuities and time-reversal
 - Lunch

- 14:00-14:30 Stéphane Crépey : XVA analysis from the balance sheet
- 14:30-15:00 Tatiana Belkina: Asymptotic investment behaviors under insurance risk processes

- 15:00-15:30 Hansjoerg Albrecher: On capital injections and dividends in risk theory
- 15:30-16:00 Serguei Pergamenshchikov: The ruin problem for Lévy-driven linear stochastic equations with applications to actuarial models with negative risk sums
- Coffee break
- 16:30-17:00 Thai Nguyen: Optimal investment under VaR-regulation for life insurance contracts with guarantees
- 17:00-17:45 Kostas Kardaras: Infinite-dimensional stochastic integration under structural conditions
- Break
- 18:00-18:30 Kathrin Glau: Magic points for finance and stochastics
- 18:30-19:00 Doncho Donchev: Brownian motion exit densities for general one-sided boundaries

Wednesday, 18.01

- 9:00-11:00 Uwe Franz: An invitation to noncommutative probability and quantum stochastic calculus. Lecture I.
- 11:15-12:00 Tahir Choulli: Explicit parametrisation for local martingale deflators for models stopped at the death time.
- Dinner
- 14:00-14:45 Huyên Pham: Robust Markowitz portfolio selection under ambiguous volatility and correlation
- 14:45-15:15 Ludger Ruschendorf : On the construction of optimal portfolios and payoffs
- 15:15-15:45 Miklos Rasonyi: Model-independent portfolio optimization
- 15:45-16:15 Laurence Carassus: Robust optimal investments in discrete time for unbounded utility function
- 16:15-16:30 Ngoc Huy Chau: On optimal investment with processes of long or negative memory
- Coffee break
- 17:00-17:30 Albina Danilova : Equilibrium with imbalance of the derivative market
- 17.30-17:45 Arnaud Lionnet: Equilibrium pricing of external risk in a system of agents with relative performance concerns
- Break
- 18:00-18:30 Keita Owari: On convex functions on the duals of Δ_2 -Orlicz spaces
- 18:30-19:00 Dirk Becherer: Hedging, liquidation and stability under transient price impact

Thursday, 19.01

- 9:00-11:00 Uwe Franz: An invitation to noncommutative probability and quantum stochastic calculus. Lecture II.
- 11:15-12:00 Nino Kordzakhia: A comparative study on boundary crossing probabilities for Gaussian-Markov processes
- Lunch
- 14:00-14:45 Ilya Molchanov: Risk arbitrage and hedging to acceptability
- 14:45-15:15 Cody Hyndman: A geometric approach to arbitrage-free modelling, estimation, and prediction
- 15.15-15.45 Dominique Guegan: Several approaches for spatial Valueat-Risk: the Kendall VaR and the spectrum VaR
- 15:45-16:00 Rostislav Berezovsky: Set-valued risk measures in nonconical case
- Coffee break
- 16:30-17:00 Yana Belopolskaya: Probabilistic interpretations of the Cauchy problem solutions for systems of nonlinear parabolic equation
- 17:00-17:30 Maria do Rosário Grossinho: Pricing American style perpetual put options through transformation into nonlinear stationary Black-Scholes equations
- Break
- 17:45-18:15 Ernst Eberlein: Multiple curve interest rate modelling with negative rates
- 18:15-18:45 Thorsten Schmidt: Towards general term structure models

• 18:45-19:15 Rama Cont: Stochastic calculus without probability: pathwise integration and calculus for functional of paths of finite quadratic variation

Friday, 20.01

- 9:00-9:30 Isaac Sonin: Elimination-insertion in Markov Chains and their applications
- 9:30-10:00 Elena Yarovaya: Branching random walks and Brownian motion
- break
- 10:15-10:45 Ernst Presman: Some remarks on general one-dimensional diffusion
- 10:45-11:15 Eugene Burnaev: Online conformalized density and distance-based anomaly detection in time-series data
- break
- 11:30-12:00 Gennady Martynov: Anderson-Darling and Cramér-von Mises statistics
- Dinner
- 14:00-14:45 Matheus Grasselli: Macroeconomic modelling with heterogeneous agents: the master equation approach
- 14:45-15:15 Christa Cuchiero: Cover's portfolio, stochastic portfolio theory and the numeraire portfolio
- 15:15-15:45 Paolo Guasoni: Leveraged funds: robust replication and performance evaluation
- 15:45-16:15 Mikhail Nechaev: Commodities risk-management and CCP
- Coffee break
- 16:45-17:15 Igor Pavlov: Martingales on deformed stochastic bases: from discrete to continuous time

- 17:15-17:45 Elena Boguslavskaya: Appell integral transforms and fractional polynomials
- Break
- \bullet 17.45-18.15 Monique Jeanblanc: Predictable representation property in enlarged filtration
- \bullet 18:15-18:45 Josef Teichmann: Bayesian Finance
- 18:45-19:15 Alexander Gushchin: Joint law of the terminal values of a nonnegative submartingale and its compensator