

Mathematical Statistics and Inverse Problems

February 8 – 12 (2016), CIRM, France

Monday, February 8/2016

8:50 - 9:00 Opening

9:00 - 9:40 Cristina Butucea (Université Paris Est-Marne la Vallée)

— *Quantum statistical models and inference.*

9:50 - 10:30 Cristina Butucea (Université Paris Est-Marne la Vallée)

— *Quantum statistical models and inference.*

10:30 - 11:00 Coffee break

11:00- 11:40 Arnak Dalalyan (ENSAE Paristech)

— *Convex programming approach to robust estimation of a multivariate Gaussian model.*

11:40 - 12:20 Axel Munk (Goettingen University)

— *Statistical Blind Source Separation.*

12:30 - 13:30 Lunch

16:00 -16:40 Oleg Lepski (Aix-Marseille Université)

— *Adaptive Estimation in the Convolution Structure Density Model.*

16:40 -17:20 Sergei Pereversev (Johann Radon Institute, Austrian Academy of Sciences)

— *Aggregation of regularized rankers by means of a linear functional strategy.*

17:20 - 17:50 Coffee break

17:50 - 18:30 Thorsten Hohage (Goettingen University)

— *Variational Regularization of Nonlinear Statistical Inverse Problems.*

18:30 - 19:10 Clement Marteau (Université de Lyon 1)

— *Minimax goodness-of-fit testing in ill-posed inverse problems with partially unknown operators.*

Tuesday, February 9/2016

9:00 - 9:40 Cristina Butucea (Université Paris Est-Marne la Vallée)
— *Quantum statistical models and inference.*

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— *Quantum statistical models and inference.*

10:30 - 11:00 Coffee break

11:00 - 11:40 Alexander Tsybakov (CREST-ENSAE, Ecole Polytechnique)
— *TBA*

11:40 - 12:20 Marcus Reiss (Humboldt University)
— *From prediction error to estimation error bounds*

12:30 - 13:00 Lunch

16:00 - 16:40 Jean-Pierre Florens (Université de Toulouse 1)
— *Inverse problems in econometrics: examples and specific theoretical problems.*

16:50 - 17:30 Jean-Pierre Florens (Université de Toulouse 1)
— *Inverse problems in econometrics: examples and specific theoretical problems.*

17:30 - 18:00 Coffee break

18:00 - 18:40 Geurt Jongbloed (TU Delft)
— *TBA*

18:40 - 19:20 Nicolas Hengartner (Los Alamos University)
— *TBA*

Wednesday, February 10/2016

9:00 - 9:40 Gerard Kerkycharian (Université de Paris Nanterre)
— *Geometry and inverse problems. Example tomography and astrophysics.*

9:50 - 10:30 Gerard Kerkycharian (Université de Paris Nanterre)
— *Geometry and inverse problems. Example tomography and astrophysics.*

10:30 - 11:00 Coffee break

11:00 - 11:40 Jean-Pierre Florens (Université de Toulouse 1)
— *Inverse problems in econometrics: examples and specific theoretical problems.*

11:50 - 12:30 Jean-Pierre Florens (Université de Toulouse 1)
— *Inverse problems in econometrics: examples and specific theoretical problems.*

12:30 - 13:30 Lunch

Thursday, February 11/2016

9:00 - 9:40 Gerard Kerkyacharian (Université de Paris Nanterre)
— *Geometry and inverse problems. Example tomography and astrophysics*

9:50 - 10:30 Gerard Kerkyacharian (Université de Paris Nanterre)
— *Geometry and inverse problems. Example tomography and astrophysics*

10:30 - 11:00 Coffee break

11:00 -11:40 Alexander Goldenshluger (Tel-Aviv University)
— *TBA*

11:40 -12:20 Marianna Pensky (University of Central Florida)
— *Laplace deconvolution and its application to the analysis of dynamic contrast enhanced imaging data.*

12:30 - 13:30 Lunch

16:00 - 16:40 Jan Johannes (Heidelberg University)
— *Adaptive Bayesian estimation in indirect Gaussian sequence space models.*

16:40 - 17:20 Ildar Ibragimov (St.Petersburg Dept. Steklov Math. Institute RAS)
— *TBA.*

17:20 - 17:50 Coffee break

17:50 -18:30 Peter Mathé (WIAS Berlin)
— *Discrepancy based model selection in statistical inverse problems.*

18:30 -19:10 Nazar Buzun (WIAS Berlin)
— *Multiplier bootstrap for change point detection.*

19:30 - 20:30 Diner

Friday, February 12/2016

9:00 - 9:40 Stephan Huckermann (Göttingen University)
— *Drift estimation in sparse sequential dynamic imaging.*

9:40 - 10:20 Farida Enikeeva (Université de Poitiers)
— *Bump detection in a heterogeneous Gaussian regression.*

10:20 - 10:50 Coffee break

10:50 - 11:30 Mikhail Ermakov (IPME St.Petersburg)
— *On consistent hypothesis testing.*

11:30 - 12:10 Jean-Marc Freymuth (Statistical Laboratory, University of Cambridge)
— *Minimax optimal detection of structure for multivariate data.*

12:10 - 12:20 **Closing**