# Rencontres de Statistiques Mathématiques 5

CIRM, 12-16 décembre 2005

**Lundi 12 décembre :**

- 9h10-10h15 Lepski Oleg (Université Aix-Marseille 1)
  Local oracle inequalities and minimax adaptive estimation (Part I).
- 10h50-11h25 Spokoiny Vladimir (Weierstrass Institute)
  Choice of tuning parameters for locally adaptive procedures.
- 11h25-12h Iouditski Anatoli (Université Grenoble 1)
  Statistical study of resource allocation problems.

- 16h-16h35 Low Mark (Pennsylvania University)
  Sparsity in Gaussian mixture models.
- 16h35-17h10 Cai Tony (Pennsylvania University)
  A root-unroot method for Poisson regression and density estimation.
- 17h40-18h15 Goldenshluger Alexandre (Haifa University)
  On estimation of singularities of a signal.
- 18h15-18h50 Rivoirard Vincent (Université Paris 11)
  The maxiset point of view for estimating integrated quadratic functionals.

**Mardi 13 décembre :**

- 9h10-10h15 Lepski Oleg (Université Aix-Marseille 1)
  Local oracle inequalities and minimax adaptive estimation (Part II).
- 10h50-11h25 Gill Richard (Utrecht University)
  Asymptotically optimal quantum state estimation (the parametric case).
- 11h25-12h Guta Madalin (Eurandom)
  Local asymptotic normality for quantum states.

- 16h-16h35 Raimondo Marc (Sydney University)

  Wavelet Deconvolution with noisy eigenvalues.

- 16h35-17h10 Marteau Clément (Université Aix-Marseille 1)

  Regularization in inverse problems with unknown operator.

- 17h40-18h15 Munk Axel (Gottingen University)

  Inverse Jumps.

- 18h15-18h50 Malyutov Mikhail (Northeastern University)

  Results and conjectures on statistical discrimination based on conditional compression complexity of texts.

**Mercredi 14 décembre :**

- 9h10-10h15 Lepski Oleg (Université Aix-Marseille 1)

  Local oracle inequalities and minimax adaptive estimation (Part III).

- 10h50-11h25 Comte Fabienne (Université Paris 5)

  Nonparametric adaptive estimation of the drift and the volatility in diffusion models.

- 11h25-12h Biau Gérard (Université Montpellier 2)

  Statistical inference on graphs.

**Jeudi 15 décembre :**

- 9h10-9h45 Ingster Yuri (Electrotechnical University)

  On estimation and detection of smooth functions of infinite variables.

- 9h45-10h20 Ermakov Michael (Institute of mechanical engineering problems)

  Importance sampling procedure for simulation of moderate deviation probabilities of tests and estimators.

- 10h50-11h25 Dalalyan Arnak (Université Paris 6)

  Second order efficiency in semiparametric estimation of the shift.

- 11h25-12h Reiss Markus (Heidelberg University)

  Asymptotic equivalence for multidimensional regression and diffusions.

- 16h-16h35 Grama Ion (Université de Vannes)

  Asymptotic equivalence of nonparametric autoregression and nonparametric regression in discrete time.

- 16h35-17h10 Zwald Laurent (Université Paris 11)

  Statistical performances of some learning algorithms : Kernel Projection Machine and Kernel Principal Component Analysis.

- 17h40-18h15 Rosasco Lorenzo (University of Genova)

  On regularization algorithms in learning theory.

- 18h15-18h50 Guyader Arnaud (Université Rennes 2)

  Classification by nearest-neighbours in infinite dimension.

**Vendredi 16 décembre :**

- 9h10-9h45 Rigollet Philippe (Université Paris 6)

  Mirror averaging, aggregation and model selection.

- 9h45-10h20 Lecué Guillaume (Université Paris 6)

  Optimal oracle inequality in classification for an aggregation procedure and applications to adaptation.

- 10h50-11h25 Gaiffas Stéphane (Université Paris 7)

  Nonparametric regression and spatially inhomogeneous information.

- 11h25-12h Lacour Claire (Université Paris 5)

  Adaptive estimation of the transition density of a Markov chain.