

NCMIP 2011 May, 16. ENS Cachan, France
1st International Workshop on New Computational Methods for
Inverse Problems, chaired by Laurent Fribourg and Pierre-Yves Joubert.

Technical program

8h30-9h00 : **Registration**

9h00-10h00 **Invited talk**

- [Anthony Quinn](#) (Trinity College, Dublin, Ireland), Recursive Inference for Inverse Problems using Variational Bayes Methodology

10h00-10h30 **coffee break**

10h30 – 11h00

- [Franck Assous](#), [Marie Kray](#), [Frederic Nataf](#) and [Eli Turkel](#), Time Reversed Absorbing Conditions in the Time Domain.

11h00-11h30

- [François-Xavier Dupé](#), [Jalal Fadili](#) and [Jean-Luc Starck](#), Linear inverse problems with noise: primal and primal-dual splitting.

11h30-12h00

- [Gael Rigaud](#), [Mai K. Nguyen](#) and [Alfred K. Louis](#), Circular Harmonic Decomposition Approach for Numerical Inversion of Circular Radon Transforms.

12h00-12h30

- [Mehdi Benhamouche](#), [Laurent Bernard](#), [Lionel Pichon](#) and [Dominique Lesselier](#), 3D Modelling of Electromagnetic Time Reversal: Localization of a dielectric object in a half-space.

12h30-13h30 **Lunch break**

13h30-14h30 **Invited talk**

- [Joachim Weickert](#) (Saarland University, Saarbrücken, Germany), Optimising Sparse Data for Image Reconstruction with the Laplace Equation.

14h30-15h00

- [Mikael Carlván](#) and [Laure Blanc-Féraud](#), Regularizing parameter estimation for Poisson noisy image restoration.

15h00-15h30

- [Robert Azencott](#), [Bernhard Bodmann](#), [Demetrio Labate](#), [Anando Sen](#), [King Li](#) and [Xiaobo Zhou](#), Searchlight CT: A new reconstruction method for collimated X-ray tomography.

15h30-16h00 **Coffee Break**

16h00-17h00 **Invited talk**

- [Marc Bonnet](#) (ENSTA-CNRS, Paris, France), Qualitative Non-Iterative Methods in Inverse Scattering Problems.

17h00-17h30

- [Jonathan Denies](#), [Hamid Ben Ahmed](#) and [Bruno Dehez](#), Topology optimization for solving electromagnetic inverse problem.

17h30-18h00

- [Dominique Placko](#), [Thierry Bore](#) and [Pierre Yves Joubert](#), Imaging and detection of cracks in metallic structures with eddy current sensors.