

Workshop on
“Theoretical and Applied Computational Inverse Problems”

organized by

Liliana Borcea, Otmar Scherzer, John C. Schotland

May 5 - 16, 2014

Workshop Schedule, Week 2: May 12 - 16, 2014

• **Monday, May 12, 2014**

09:30 – 10:30 **Martin Hanke**

Multi frequency MUSIC for impedance imaging

10:30 – 11:00 *coffee break*

11:00 – 12:00 **Plamen Stefanov**

Traveltime tomography with partial data

12:00 – 14:00 *lunch break*

14:00 – 15:00 **Habib Ammari**

Emerging imaging approaches in medicine

15:00 – 15:30 **Roman Andreev**

On simultaneous flux/source identification

• **Tuesday, May 13, 2014**

09:30 – 10:30 **Miguel Moscoso**

Imaging with sparsity promoting optimization

10:30 – 11:00 *coffee break*

11:00 – 12:00 **Liliana Borcea**

Imaging in complex environments

12:00 – 14:00 *lunch break*

14:00 – 15:00 **Alexander Novikov**

Imaging of sparse scatterers

15:00 – 15:30 **Konstantinos Kalimeris**

Attenuating models and reconstruction methods in Photoacoustic Imaging

• **Wednesday, May 14, 2014**

09:30 – 10:30 **Barbara Kaltenbacher**

Regularization by discretization: recent convergence results and multilevel strategies

10:30 – 11:00 *coffee break*

11:00 – 12:00 **Vladimir Druskin**

Finite-difference Gaussian quadrature rules for Dirichlet-to-Neumann Operators and inverse problems

12:00 – 14:00 *lunch break*

14:00 – 15:00 **Ricardo Alonso**

Electromagnetic wave propagation in random waveguides

• **Thursday, May 15, 2014**

09:30 – 10:30 **Alexandru C. Tamasan**

Uniqueness and nonuniqueness in Current Density Impedance Imaging with one current density information

10:30 – 11:00 *coffee break*

11:00 – 12:00 **Shari Moskow**

Inverse Born series for the Calderon problem and related inverse problems

12:00 – 14:00 *lunch break*

14:00 – 15:00 **John C. Schotland**

Acousto-Optic Imaging

15:00 – 16:00 **Discussion**

• **Friday, May 16, 2014**

09:30 – 10:30 **Ronny Ramlau**

Inverse Problems in Adaptive Optics

10:30 – 11:00 *Closing remarks*

All lectures take place in the ESI Boltzmann Lecture Hall