



Workshop "Inverse Problems in the Alps II"

Obergurgl, AT, 21 – 23 March 2018

Scientific Program

Wednesday, 21 March 2018

09:00 - 09:30	Laser beam imaging from the speckle pattern of the off-axis scattered In Tensity Liliana Borcea, University of Michigan
09:30 – 10:00	All-at-once versus reduced iterative methods for time dependent inverse Problems
	Barbara Kaltenbacher, Alpen-Adria-Universität Klagenfurt
10:00 - 10:30	Imaging small polarizable scatterers with polarization data
	Fernando Guevara Vasquez, University of Utah
10:30 - 11:00	Coffee Break
11:00 – 11:30	Acoustic Imaging and Multiple Removal via Model Order Reduction
	Alex Mamonov, University of Houston
11:30 – 12:00	Coherent Acousto-Optic Imaging
	John Schotland, University of Michigan
	Break, Dinner 18:00 – 19:15
19:15 – 19:45	Improving FDK Reconstruction by Data-Dependent Filtering
	Rien Lagerwerf, CWI, Netherlands
19:45 – 20:15	The reconstruction of a source and a potential from boundary measurements
	Amin Boumenir, University of West Georgia
20:15 – 20:45	Signal Analysis and Reconstruction Algorithms in 2D Computed Tomography
	Adel Faridani, Oregon State University

Thursday, 22 March 2018

09:00 – 10:00	Nonlinear responses from the interaction of two progressing waves at an interface Maarten de Hoop, Rice University
10:00 – 10:30	Stability in Inverse Problems via Unique Continuation Properties Sergio Vessella, Universitá Degli Studi Firenze
10:30 - 11:00	Coffee Break
11:00 – 11:30	On an elastic model arising from volcanology: an analysis of the direct and inverse problem Andrea Aspri, RICAM Linz
11:30 – 12:00	A transmission problem on a polygonal partition Elisa Francini, University of Florence
12:00 – 12:30	An inverse problem for a semilinear parabolic equation arising in cardiac electro- physiology Cristina Cerutti, Politecnico di Milano

Friday, 23 March 2018

09:00 – 09:30	On the seismic inverse problem: uniqueness, stability and reconstruction Elena Beretta, Politecnico di Milano
09:30 – 10:00	Ill-posedness concepts in Hilbert spaces and first steps for handling over smoothing penalties
	Bernd Hofmann, TU Chemnitz
10:00 – 10:30	Topological derivatives for domain functionals with an application to tomography
	Esther Klann, TU Berlin
10:30 – 11:00	Coffee Break
11:00 – 11:30	A variational reconstruction method for dynamical X-ray tomography. Tapio Helin, University of Helsinki
11:30 – 12:00	Using Landwebers method to quantify source conditions - a numerical study Daniel Gerth, TU Chemnitz, Germany
12:00 – 13:00	Closing Lunch