15th Inverse Days 2009

at Hotel Luostotunturi, Sodankylä, Finland

Wednesday 16th December 2009

- 8.10 Bus transportation from Rovaniemi
- 11.00 Registration + Lunch + Check-in to the hotel and log cabins

Afternoon Session 1, Chair Matti Lassas

12.20	Markku Lehtinen	Opening of the Inverse Days
	Lassi Roininen	Discussion about practical issues
12.30	Kirsi Peltonen	Heisenberg group-connecting geometries in dimensions 2,3 and 4
13.00	Patricia Gaitan	Simultaneous Identification of the Diffusion Coffcient and the Potentia for the Schrödinger Operator with only one Observation
13.30	Roberta Bosi	Quantum kinetic equations: direct and inverse problems
14.00	Oana Constantinescu	The inverse problem of the calculus of variations
14.30	Coffee break	

Afternoon Session 2, Chair Samuli Siltanen

15.00	Harri Auvinen	The variational Kalman filter and an effcient implementation using limited memory BFGS
15.30	Juha-Matti Perkkiö	Ray transform in Finsler spaces
16.00	Michel Cristofol	Stability Reconstruction of Two Coffcients Simultaneously in a Nonlinear Parabolic Equation
16.30	Sampsa Pursiainen	Conditionally Gaussian Hypermodels for Cerebral Source Localization

Evening Sessions

- 17.30 Annual meeting of the Finnish Inverse Problems Society
- 19.00 Conference sauna at Metsä-Luosto (500 meters from the hotel), dinner in the sauna also

Thursday 17th December 2009

Morning Session, Chair Lassi Päivärinta

9.00	Matti Lassas	Inverse problems for wave equation with new type of measurements
9.30	Sari Lasanen	Posterior convergence for correlation priors
10.00	Juha Vierinen	Moving point-target detection using Bayesian model selection
10.30	Coffee break	
11.00	Chris Johnson	Finite Element Discretization Strategies for the Electrocardiographic (ECG) Inverse Problem
11.30	Samuli Siltanen	Computerized inversion for spoken language

Afternoon Session, Chair Marko Laine

12.0	00 Esa Turunen	EISCAT3D - A European Three-Dimensionally Imaging Radar for Atmospheric and Geospace Research
12.	Marko Vauhkonen	From inverse problems to practical applications
13.0	00 Lunch	
14.0	00 Mikko Orispää	Developments in FLIPS
14.	30 Antti Solonen	Simulation Based Optimal Design

Parallel Session

14.00 SAB meeting or random things for random people

Evening Sessions

19.00 Conference Dinner at hotel

Friday 18th December 2009

Morning Session, chair Valeriy Serov

9.00	Matias Dahl	Descending maps between slashed tangent bundles
9.30	Ioan Bucataru	Helmholtz conditions for projective metrizability problem and their formal integrability
10.00	Lauri Harhanen	Convex source support in half-plane
10.30	Nuutti Hyvönen	Inverse backscattering in electric impedance tomography
11.00	Lunch + Check-out	

Afternoon Session, chair Mikko Kaasalainen

12.00	Olivier Poisson	Probing for inclusions in heat conductive bodies
12.30	Bastian Harrach	Exact shape-reconstruction by one-step linearization in electrical impedance tomography
13.00	Tanja Tarvainen	Approximation error approach for compensating modelling errors between the radiative transfer equation and di usion approximation in diffuse optical tomography
13.30	Petri Hiltunen	A combined reconstruction-classiffcation algorithm for dffuse optical tomography
14.00	Aku Seppänen	Electrical impedance tomography imaging of concrete
14.30	Professors	Closure of the Inverse Days + Pertti 'Lande' Lindfors Prize

Departure

15.15 Departure by bus for the evening flight to Helsinki + night trains