

Inverse problems and non-linearity

		23.8.	24.8.	25.8.	26.8.	27.8.
Finnish time	Pacific time (AM)					
16.00-16.10	6.00-6.10	Opening of the conference				
16.10-16.40	6.10-6.40	Lauri Oksanen (Helsinki) Inverse problem for the Yang-Mills equations			Teemu Tyni (Toronto) Stability of recovery of a potential in a nonlinear wave equation	Takaaki Nara (Tokyo) A method for magnetic resonance electrical properties tomography based on Helmholtz' decomposition
16.40-17.10	6.40-7.10	Gabriel Paternain (Cambridge) The transport Oka-Grauert principle for simple surfaces	Hariharan Narayanan (Mumbai/TIFR) Large deviations for random hives and the spectrum of the sum of two random matrices	Colin Guillarmou (Orsay) Stability estimates for the DN map for the wave and Schrödinger equation	Roland Potthast (Reading / DWD) Dynamic inverse problems, reconstructions from observations of highly non-linear systems	Thibault Lefeuvre (Sorbonne) The holonomy inverse problem
17.10-18.00	7.10-8.00	Break	Break	Break	Pitch session	Break
18.00-18.30	8.00-8.30	Angkana Rüland (Heidelberg) Unique continuation for a class of sublinear elliptic equations	Qin Li (Wisconsin) Inversion with incomplete data – a case study of matrix sketching and matrix completion	Tuomo Kuusi (Helsinki) Unique continuation for periodic elliptic equations	Ru-Yu Lai (Minnesota) Inverse transport and diffusion problems in photoacoustic imaging with nonlinear absorption	Joonas Ilmavirta (Tampere) Stable reconstruction of simple Riemannian manifolds from unknown interior sources
18.30-18.40	8.30-8.40	Short Break	Short Break	Short Break		Short Break
18.40-19.10	8.40-9.10	Maarten de Hoop (Rice) Inverse problem for the Rayleigh system with spectral data	John Schotland (Yale) Nonlocal PDEs in quantum optics	Plamen Stefanov (Purdue) Recovery of a general nonlinearity in the semilinear wave equation	Inverse Problems Seminar, UC Irvine Adrian Nachman (Toronto) 9.00-10.00 (PST)	Fioralba Cakoni (Rutgers) Singularities almost always scatter: regularity results for non-scattering inhomogeneities
19.10-19.40	9.10-9.40	Katya Krupchyk (UC Irvine) Inverse problems for quasilinear elliptic PDE	Gunther Uhlmann (Washington/HKUST) The Calderón problem for nonlocal operators	András Vasy (Stanford) The semiclassical approach to the X-ray transform		