« Program on Inverse Problems »
Paris, April 13th– July 10rd, 2015

Conference « Geometric Inverse Problems »
Paris, June 8th – 12th, 2015
Amphitheater Hermite
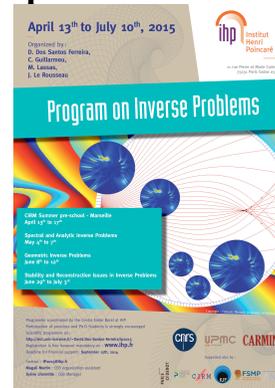
ORGANIZERS
Colin Guillarmou (École normale supérieure), **Alexandre Jollivet** (Université de Lille), **Mikko Salo** (University of Jyväskylä)

SCIENTIFIC COMMITTEE
Matti Lassas (University of Helsinki), **Yaroslav Kurylev** (University College London), **Gabriel Paternain** (University of Cambridge), **Todd Quinto** (Tufts University)

SPEAKERS

Jan Boman (Stockholm University)
Francis Chung (University of Michigan)
Daniel Faraco (Universidad Autónoma de Madrid)
Raluca Felea (Rochester Institute of Technology)
Simon Gindikin (Rutgers University)
Sean Holman (University of Manchester)
Joonas Ilmavirta (University of Jyväskylä)
Sergei Ivanov (Steklov Institute of Mathematics)

Katya Krupchyk (University of California, Irvine)
François Monard (University of Washington)
Linh Nguyen (University of Idaho)
Lauri Oksanen (University College London)
Gabriel Paternain (University of Cambridge)
Vladimir Sharafutdinov (Novosibirsk State University)
Plamen Stefanov (Purdue University)

Gunther Uhlmann (University of Washington)
Haomin Wen (University of Pennsylvania)
Yang Yang (Purdue University)
Hai Zhang (École normale supérieure)
Hanming Zhou (University of Washington)
Maciej Zworski (University of California, Berkeley)

PROGRAM

09.00 am – 09.30 am	**Registration**	**IHP Ground floor**
09.30 am – 10.30 am	**Gunther Uhlmann**	Boundary Rigidity and Lens Rigidity : Progress and Challenges.
10.30 am – 11.00 am	Coffee break	IHP Ground floor
11.00 am – 12.00 pm	**Haomin Wen**	Lens rigidity and scattering rigidity in two dimensions.
12.00 pm – 02.00 pm	Lunch break	
02.00 pm – 03.00 pm	**Plamen Stefanov**	The geodesic ray transform on Riemannian surfaces with conjugate points.
03.00 pm – 04.00 pm	**Sean Holman**	On the stability of the geodesic ray transform.
04.00 pm – 04.30 pm	Coffee break	IHP Ground floor
04.30 pm – 05.30 pm	**Francis Chung**	Inverse Problems for the Hodge Laplacian.

Tuesday June 9th

09.00 am – 10.00 am	**Sergei Ivanov**	Perturbations of boundary distance functions and scattering maps.
10.00 am – 10.30 am	Coffee break	IHP Ground floor
10.30 am – 11.30 am	**François Monard**	Explicit inversions of ray transforms over simple surfaces.
11.30 am – 12.30 pm	**Hanming Zhou**	Invariant distributions and tensor tomography for Gaussian thermostats.
12.30 pm – 02.30 pm	Lunch break	
02.30 pm – 03.30 pm	**Gabriel Paternain**	Recovering a connection from parallel transport along geodesics.
03.30 pm – 04.00 pm	Coffee break	IHP Ground floor
04.00 pm – 05.00 pm	**Joonas Ilmavirta**	Radon transforms on groups.

Wednesday July 10th

09.00 am – 10.00 am	**Vladimir Sharafutdinov**	Killing tensor fields on the 2-torus.
10.00 am – 10.30 am	Coffee break	IHP Ground floor
10.30 am – 11.30 am	**Lauri Oksanen**	The X-ray transform restricted on light rays and cosmic microwave background.
11.30 am – 12.30 pm	**Yang Yang**	A Traveltime Inverse Problem in Spacetime.
12.30 pm – 02.30 pm	Lunch break	
02.30 pm – 03.30 pm	**Jan Boman**	Tomographic region-of-interest reconstruction from incomplete data.
03.30 pm – 04.00 pm	Coffee break	IHP Ground floor
04.00 pm – 05.00 pm	**Hai Zhang**	Stability of recovering wave-speed from boundary measurements.
06.30 pm	**Cocktail Reception**	**IHP Ground floor**

Thursday June 11th

09.00 am – 10.00 am	**Simon Gindikin**	Spectral decomposition of some ultrahyperbolic equations.
10.00 am – 10.30 am	Coffee break	IHP Ground floor
10.30 am – 11.30 am	**Linh Nguyen**	On the streak artifacts in limited angle computed X-ray tomography.
11.30 am – 12.30 pm	**Katya Krupchyk**	L^p bounds on eigenfunctions for operators with double characteristics.
12.30 pm – 02.30 pm	Lunch break	
02.30 pm – 03.30 pm	**Raluca Felea**	Fourier Integral Operators with cusp singularities.
03.30 pm – 04.00 pm	Coffee break	IHP Ground floor
04.00 pm – 05.00 pm	**TBA**	TBA.

Friday June 12th

09.00 am – 10.00 am	**Maciej Zworski**	Heat traces and inverse problems for resonances.
10.00 am – 10.30 am	Coffee break	IHP Ground floor
10.30 am – 11.30 am	**Daniel Faraco**	TBA.

Abstracts are available on the web site of the trimester « Program on Inverse Problems » : http://iecl.univ-lorraine.fr/~David.Dos-Santos-Ferreira/ipconferences/ipconf.html