

PROGRAM

International Workshop "Inverse Problems and Integral Geometry"

Immanuel Kant Baltic Federal University

Audience «Aquarium»,

14, Nevskogo street, Kaliningrad

October 13

9:45-10:00 Registration

10:00-10:05 Opening of the Conference. Artyom Yurov, Vice-Rector for Research

Chairman J.Boman

10:05-10:45 C. Bardos. Observation of solutions of the Neutron Transport Equation in the diffusion limit.

10:45-11:00 *Coffee*

11:00-11:40 V. Fursikov. Structure of dynamical flow and nonlocal feedback stabilization for normal parabolic equations connected with Helmholtz and Burgers equations.

11:45-12:25 M. Eller. A remark on Littman's method of boundary controllability.

12:25-14:00 *Lunch*

Chairman C.Bardos

14:00-14:40 I. Karpov. Radiophysical research methods of ionospheric irregularities.

14:45-15:10 A.Danilin, G. Erokhin, A.Kremlev, L. Pestov. Numerical solving the problem of detecting of ultraweak diffractors in a complex acoustical medium.

15:10-15:35 *Coffee*

15:35-16:00 I. Ivanov. The application of boundary control method to acoustic equation on semiplane.

16:05-16:30 V. Mikhailov. Inverse problem for one-dimensional dynamical Dirac system (BC-method).

16:35-17:00 A. Pestov. Characterization of inverse data for one-dimensional two-velocity dynamical system.

October 14

Chairman V.Romanov

10:00-10:40 J. Boman. Local injectivity of generalised Radon transforms.

10:40-10:55 *Coffee*

10:55-11:35 R. Novikov. Inverse scattering at fixed energy with non-overdetermined data.

11:40-12:20 A. Jollivet. Inverse scattering at high energies for classical particles in a long range electromagnetic field.

12:20-14:00 *Lunch*

Chairman G.Nakamura

14:00-14:40 V. Romanov. The determination of inner boundaries of a discontinuity in tomography.

14:45-15:25 M. Di Cristo. Size Estimates in Inverse Problems.

15:25-15:40 *Coffee*

15:40-16:20 V. Sharafutdinov. Zeta-invariants of the Steklov spectrum for a planar domain.

16:25-17:00 L. Pestov, G. Uhlmann, H. Zhou. An inverse kinematic problem with internal sources.

17:00 Walk to the Immanuel Kant island

October 15

Chairman R.Novikov

10:00-10:40 G. Nakamura. Reconstruction schemes for inverse boundary value problems for parabolic equations.

10:40-10:55 *Coffee*

10:55-11:35 M. De Hoop. Recovery of the metric of a Riemannian manifold from "microseismicity" data.

11:40-12:20 A. Denisiuk. Geometry of complexes of lines.

12:20-14:00 *Lunch*

14:00 Excursion to the National park «Curonian Spit». Dinner in Zelenogradsk city

October 16

Chairman V.Sharafutdinov

10:00-10:40 S. Leble. Inter-molecular interaction potential reconstruction from thermodynamical data.

10:40-10:55 *Coffee*

10:55-11:20 I. Vereshchagina. On inverse problem of wave identification by measurements at one point vicinity.

11:25-12:05 M. Belishev. Noncommutative Geometry and Tomography of Manifolds.

12:05-12:15 Closing of the Conference

Lunch